

# SiSU

## Manual

Ralph Amissah

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Contents

**SiSU - Manual,  
Ralph Amissah**

**What is SiSU?**

1. Introduction - What is SiSU? . . . . .	1
2. How does sisu work? . . . . .	4
3. Summary of features . . . . .	4
4. Help . . . . .	6
4.1 SiSU Manual . . . . .	6
4.2 SiSU man pages . . . . .	6
4.3 SiSU built-in interactive help . . . . .	7
4.4 Help Sources . . . . .	7
5. Commands Summary . . . . .	8
5.1 Synopsis . . . . .	8
5.2 Description . . . . .	8
5.3 Document Processing Command Flags . . . . .	8
6. command line modifiers . . . . .	12
7. database commands . . . . .	12
8. Shortcuts, Shorthand for multiple flags . . . . .	13
8.1 Command Line with Flags - Batch Processing	14
9. Introduction to SiSU Markup . . . . .	14
9.1 Summary . . . . .	14
9.2 Markup Examples . . . . .	15
10. Markup of Headers . . . . .	16
10.1 Sample Header . . . . .	16
10.2 Available Headers . . . . .	16
11. Markup of Substantive Text . . . . .	19
11.1 Heading Levels . . . . .	19
11.2 Font Attributes . . . . .	19
11.3 Indentation and bullets . . . . .	20
11.4 Footnotes / Endnotes . . . . .	20
11.5 Links . . . . .	21

11.6 Grouped Text . . . . .	22
11.7 Book index . . . . .	26
12. Composite documents markup . . . . .	27

**Markup Syntax History** **28**

13. Notes related to Files-types and Markup Syntax . . . . .	28
14. SiSU filetypes . . . . .	30
14.1 .sst .ssm .ssi marked up plain text . . . . .	30
14.2 sisupod, zipped binary container (sisu- pod.zip, .ssp) . . . . .	31
15. Experimental Alternative Input Representations . . . . .	32
15.1 Alternative XML . . . . .	32
16. Configuration . . . . .	33
16.1 Determining the Current Configuration . . . . .	33
16.2 Configuration files (config.yml) . . . . .	33
17. Skins . . . . .	34
17.1 Document Skin . . . . .	34
17.2 Directory Skin . . . . .	34
17.3 Site Skin . . . . .	34
17.4 Sample Skins . . . . .	34
18. CSS - Cascading Style Sheets (for html, XHTML and XML) . . . . .	35
19. Organising Content . . . . .	35
19.1 Directory Structure and Mapping . . . . .	35
19.2 Organising Content . . . . .	36
20. Homepages . . . . .	36
20.1 Home page and other custom built pages in a sub-directory . . . . .	36
20.2 Home page within a skin . . . . .	36
21. Markup and Output Examples . . . . .	37
21.1 Markup examples . . . . .	37
21.2 A few book (and other) examples . . . . .	38
21.3 SQL - PostgreSQL, SQLite . . . . .	48
21.4 Lex Mercatoria as an example . . . . .	48

21.5 For good measure the markup for a document with lots of (simple) tables . . . . .	48	<b>Remote Document Output</b>	<b>58</b>
21.6 And a link to the output of a reported case . . . . .	49	31. Remote Output . . . . .	58
22. A Checklist of Output Features . . . . .	49	31.1 commands . . . . .	58
23. SiSU Search - Introduction . . . . .	50	31.2 configuration . . . . .	58
24. SQL . . . . .	51	32. Remote Servers . . . . .	59
24.1 populating SQL type databases . . . . .	51	<b>Download information</b>	<b>60</b>
25. Postgresql . . . . .	52	33. Download SiSU - Linux/Unix . . . . .	60
25.1 Name . . . . .	52	SiSU Current Version - Linux/Unix . . . . .	60
25.2 Description . . . . .	52	<b>Installation</b>	<b>64</b>
25.3 Synopsis . . . . .	52	34. Installation . . . . .	64
25.4 Commands . . . . .	52	34.1 Debian . . . . .	64
26. Sqlite . . . . .	53	34.2 Other Unix / Linux . . . . .	65
26.1 Name . . . . .	53	35. SiSU Components, Dependencies and Notes . . . . .	66
26.2 Description . . . . .	53	35.1 sisu . . . . .	66
26.3 Synopsis . . . . .	53	35.2 sisu-complete . . . . .	67
26.4 Commands . . . . .	53	35.3 sisu-examples . . . . .	67
27. Introduction . . . . .	54	35.4 sisu-pdf . . . . .	67
27.1 Search - database frontend sample, utilising database and SiSU features, including object citation numbering (backend currently PostgreSQL) . . . . .	54	35.5 sisu-postgresql . . . . .	68
27.2 Search Form . . . . .	54	35.6 sisu-remote . . . . .	68
28. Hyperstraier . . . . .	55	35.7 sisu-sqlite . . . . .	68
29. sisu_webrick . . . . .	56	36. Quickstart - Getting Started Howto . . . . .	69
29.1 Name . . . . .	56	36.1 Installation . . . . .	69
29.2 Synopsis . . . . .	56	36.2 Testing SiSU, generating output . . . . .	71
29.3 Description . . . . .	56	36.3 Getting Help . . . . .	71
29.4 Summary of man page . . . . .	56	36.4 Markup Samples . . . . .	72
29.5 Document processing command flags . . . . .	57	<b>HowTo</b>	<b>73</b>
29.6 Further information . . . . .	57	37. Getting Help . . . . .	73
29.7 Author . . . . .	57	37.1 SiSU “man” pages . . . . .	73
29.8 SEE ALSO . . . . .	57	37.2 SiSU built-in help . . . . .	74
30. Remote Source Documents . . . . .	57	37.3 Command Line with Flags - Batch Processing . . . . .	74
		38. Setup, initialisation . . . . .	74

38.1 initialise output directory . . . . .	74	43. Post Installation Setup . . . . .	91
38.2 misc . . . . .	76	43.1 Post Installation Setup - Quick start . . . . .	91
38.3 remote placement of output . . . . .	76	43.2 Document markup directory . . . . .	92
39. Configuration Files . . . . .	77	44. FAQ - Frequently Asked/Answered Questions . . . . .	94
40. Markup . . . . .	77	44.1 Why are urls produced with the -v (and -u) flag that point to a web server on port 8081? . . . . .	94
40.1 Headers . . . . .	77	44.2 I cannot find my output, where is it? . . . . .	94
40.2 Font Face . . . . .	78	44.3 I do not get any pdf output, why? . . . . .	94
40.3 Endnotes . . . . .	78	44.4 Where is the latex (or some other interim) output? . . . . .	95
40.4 Links . . . . .	78	44.5 Why isn't SiSU markup XML . . . . .	95
40.5 Number Titles . . . . .	79	44.6 LaTeX claims to be a document preparation system for high-quality typesetting. Can the same be said about SiSU? . . . . .	95
40.6 Line operations . . . . .	79	44.7 Can the SiSU markup be used to prepare for a LaTeX automatic building of an index to the work? . . . . .	96
40.7 Tables . . . . .	79	44.8 Can the conversion from SiSU to LaTeX be modified if we have special needs for the LaTeX, or do we need to modify the LaTeX manually? . . . . .	96
40.8 Grouped Text . . . . .	80	44.9 How do I create GIN or GiST index in PostgreSQL for use in SiSU . . . . .	96
40.9 Composite Document . . . . .	80	44.10 Are there some examples of using Ferret Search with a SiSU repository? . . . . .	97
41. Change Appearance . . . . .	81	44.11 Have you had any reports of building SiSU from tar on Mac OS 10.4? . . . . .	97
41.1 Skins . . . . .	81	44.12 Where is version 1.0? . . . . .	97
41.2 CSS . . . . .	81	45. Who might be interested in the SiSU feature set? . . . . .	98
<b>Extracts from the README . . . . .</b>	<b>82</b>	46. Work Needed . . . . .	99
42. README . . . . .	82	47. Wishlist . . . . .	99
42.1 Online Information, places to look . . . . .	83	48. Editor Files, Syntax Highlighting . . . . .	100
42.2 Installation . . . . .	83	49. Help Sources . . . . .	102
42.3 Dependencies . . . . .	85		
42.4 Quick start . . . . .	87		
42.5 Configuration files . . . . .	88		
42.6 Use General Overview . . . . .	89		
42.7 Help . . . . .	89		
42.8 Directory Structure . . . . .	89		
42.9 Configuration File . . . . .	89		
42.10 Markup . . . . .	89		
42.11 Additional Things . . . . .	90		
42.12 License . . . . .	90		
42.13 SiSU Standard . . . . .	90		
<b>Extracts from man 8 sisu . . . . .</b>	<b>91</b>		

49.1 man pages . . . . .	102
49.2 sisu generated output - links to html . . .	102
49.3 man2html . . . . .	103
<b>Document Information (metadata)</b>	<b>104</b>
Metadata . . . . .	104
<b>Information on this document copy and an unofficial List of Some web related information and sources</b>	<b>104</b>
Information on this document copy . . . . .	104
Links that may be of interest . . . . .	105

1 **SiSU - Manual,**  
**Ralph Amissah**

2 **What is SiSU?**

## 1. Introduction - What is SiSU?

**SiSU** is a framework for document structuring, publishing (in multiple open standard formats) and search, comprising of: (a) a lightweight document structure and presentation markup syntax; and (b) an accompanying engine for generating standard document format outputs from documents prepared in **sisu** markup syntax, which is able to produce multiple standard outputs (including the population of sql databases) that (can) share a common numbering system for the citation of text within a document.

**SiSU** is developed under an open source, software libre license (GPL3). Its use case for development is to cope with medium to large document sets with evolving markup related technologies, which should be prepared once, and for which you want multiple output formats that can be updated and a common mechanism for cross-output-format citation, and search.

**SiSU** both defines a markup syntax and provides an engine that produces open standards format outputs from documents prepared with **SiSU** markup. From a single lightly prepared document **sisu** custom builds several standard output formats which share a common (text object) numbering system for citation of content within a document (that also has implications for search). The **sisu** engine works with an abstraction of the document's structure and content from which it is possible to generate different forms of representation of the document. Significantly **SiSU** markup is more sparse than html and outputs which include html, LaTeX, landscape and portrait pdfs, Open Document Format (ODF), all of which can be added to and updated. **SiSU** is also able to populate SQL type databases at an object level, which means that searches can be made with that degree of granularity.

Source document preparation and output generation is a two step process: (i) document source is prepared, that is, marked

up in `sisu` markup syntax and (ii) the desired output subsequently generated by running the `sisu` engine against document source. Output representations if updated (in the `sisu` engine) can be generated by re-running the engine against the prepared source. Using **SiSU** markup applied to a document, **SiSU** custom builds (to take advantage of the strengths of different ways of representing documents) various standard open output formats including plain text, HTML, XHTML, XML, Open-Document, LaTeX or PDF files, and populate an SQL database with objects<sup>1</sup> (equating generally to paragraph-sized chunks) so searches may be performed and matches returned with that degree of granularity ( e.g. your search criteria is met by these documents and at these locations within each document). Document output formats share a common object numbering system for locating content. This is particularly suitable for “published” works (finalized texts as opposed to works that are frequently changed or updated) for which it provides a fixed means of reference of content.

8 In preparing a **SiSU** document you optionally provide semantic information related to the document in a document header, and in marking up the substantive text provide information on the structure of the document, primarily indicating heading levels and footnotes. You also provide information on basic text attributes where used. The rest is automatic, `sisu` from this information custom builds<sup>2</sup> the different forms of output requested.

9 **SiSU** works with an abstraction of the document based on its structure which is comprised of its structure (or frame)<sup>3</sup> and

<sup>1</sup>objects include: headings, paragraphs, verse, tables, images, but not footnotes/endnotes which are numbered separately and tied to the object from which they are referenced.

<sup>2</sup>i.e. the html, pdf, odf outputs are each built individually and optimised for that form of presentation, rather than for example the html being a saved version of the odf, or the pdf being a saved version of the html.

<sup>3</sup>the different heading levels

the objects<sup>4</sup> it contains, which enables **SiSU** to represent the document in many different ways, and to take advantage of the strengths of different ways of presenting documents. The objects are numbered, and these numbers can be used to provide a common base for citing material within a document across the different output format types. This is significant as page numbers are not well suited to the digital age, in web publishing, changing a browser's default font or using a different browser means that text appears on different pages; and in publishing in different formats, html, landscape and portrait pdf etc. again page numbers are of no use to cite text in a manner that is relevant against the different output types. Dealing with documents at an object level together with object numbering also has implications for search.

One of the challenges of maintaining documents is to keep them 10  
in a format that would allow users to use them without depending on a proprietary software popular at the time. Consider the ease of dealing with legacy proprietary formats today and what guarantee you have that old proprietary formats will remain (or can be read without proprietary software/equipment) in 15 years time, or the way the way in which html has evolved over its relatively short span of existence. **SiSU** provides the flexibility of outputting documents in multiple non-proprietary open formats including html, pdf<sup>5</sup> and the ISO standard ODF.<sup>6</sup> Whilst **SiSU** relies on software, the markup is uncomplicated and minimalistic which guarantees that future engines can be written to run against it. It is also easily converted to other formats, which means documents prepared in **SiSU** can be migrated to other document formats. Further security is provided

<sup>4</sup>units of text, primarily paragraphs and headings, also any tables, poems, code-blocks

<sup>5</sup>Specification submitted by Adobe to ISO to become a full open ISO specification

<<http://www.linux-watch.com/news/NS7542722606.html>>

<sup>6</sup>ISO/IEC 26300:2006

by the fact that the software itself, **SiSU** is available under GPL3 a licence that guarantees that the source code will always be open, and free as in libre which means that that code base can be used, updated and further developed as required under the terms of its license. Another challenge is to keep up with a moving target. **SiSU** permits new forms of output to be added as they become important, (Open Document Format text was added in 2006 when it became an ISO standard for office applications and the archival of documents), and existing output to be updated (html has evolved and the related module has been updated repeatedly over the years, presumably when the World Wide Web Consortium (w3c) finalises html 5 which is currently under development, the html module will again be updated allowing all existing documents to be regenerated as html 5).

<<http://www.jus.uio.no/sisu>>

11 The document formats are written to the file-system and available for indexing by independent indexing tools, whether off the web like Google and Yahoo or on the site like Lucene and Hyperestraier.

12 **SiSU** also provides other features such as concordance files and document content certificates, and the working against an abstraction of document structure has further possibilities for the research and development of other document representations, the availability of objects is useful for example for topic maps and the commercial law thesaurus by Vikki Rogers and Al Krtizer, together with the flexibility of **SiSU** offers great possibilities.

13 **SiSU** is primarily for published works, which can take advantage of the citation system to reliably reference its documents. **SiSU** works well in a complementary manner with such collaborative technologies as Wikis, which can take advantage of and be used to discuss the substance of content prepared in **SiSU**.

## 15 2. How does sisu work?

16 **SiSU** markup is fairly minimalistic, it consists of: a (largely optional) document header, made up of information about the document (such as when it was published, who authored it, and granting what rights) and any processing instructions; and markup within the substantive text of the document, which is related to document structure and typeface. **SiSU** must be able to discern the structure of a document, (text headings and their levels in relation to each other), either from information provided in the document header or from markup within the text (or from a combination of both). Processing is done against an abstraction of the document comprising of information on the document's structure and its objects,[2] which the program serializes (providing the object numbers) and which are assigned hash sum values based on their content. This abstraction of information about document structure, objects, (and hash sums), provides considerable flexibility in representing documents different ways and for different purposes (e.g. search, document layout, publishing, content certification, concordance etc.), and makes it possible to take advantage of some of the strengths of established ways of representing documents, (or indeed to create new ones).

## 3. Summary of features

- 17 • sparse/minimal markup (clean utf-8 source texts). Documents are prepared in a single UTF-8 file using a minimalistic mnemonic syntax. Typical literature, documents like “War and Peace” require almost no markup, and most of the headers are optional. 18
- 19 • markup is easily readable/parsable by the human eye, (basic markup is simpler and more sparse than the most basic HTML), [this may also be converted to XML representations of the same input/source document].
- 20 • markup defines document structure (this may be done once in a header pattern-match description, or for heading levels individually); basic text attributes (bold, italics, underscore, strike-through etc.) as required; and semantic information related to the document (header information, extended beyond the Dublin core and easily further extended as required); the headers may also contain processing instructions. **SiSU** markup is primarily an abstraction of document structure and document metadata to permit taking advantage of the basic strengths of existing alternative practical standard ways of representing documents [be that browser viewing, paper publication, sql search etc.] (html, xml, odf, latex, pdf, sql)
- 21 • for output produces reasonably elegant output of established industry and institutionally accepted open standard formats.[3] takes advantage of the different strengths of various standard formats for representing documents, amongst the output formats currently supported are:
  - 22 • html - both as a single scrollable text and a segmented document
  - 23 • xhtml
  - 24 • XML - both in sax and dom style xml structures for

further development as required

- ODF - open document format, the iso standard for document storage
- LaTeX - used to generate pdf
- pdf (via LaTeX)
- sql - population of an sql database, (at the same object level that is used to cite text within a document)

Also produces: concordance files; document content certificates (md5 or sha256 digests of headings, paragraphs, images etc.) and html manifests (and sitemaps of content). (b) takes advantage of the strengths implicit in these very different output types, (e.g. PDFs produced using typesetting of LaTeX, databases populated with documents at an individual object/paragraph level, making possible granular search (and related possibilities))

ensuring content can be cited in a meaningful way regardless of selected output format. Online publishing (and publishing in multiple document formats) lacks a useful way of citing text internally within documents (important to academics generally and to lawyers) as page numbers are meaningless across browsers and formats. sisu seeks to provide a common way of pinpoint the text within a document, (which can be utilized for citation and by search engines). The outputs share a common numbering system that is meaningful (to man and machine) across all digital outputs whether paper, screen, or database oriented, (pdf, HTML, xml, sqlite, postgresql), this numbering system can be used to reference content.

Granular search within documents. SQL databases are populated at an object level (roughly headings, paragraphs, verse, tables) and become searchable with that degree of granularity, the output information provides the object/paragraph numbers

which are relevant across all generated outputs; it is also possible to look at just the matching paragraphs of the documents in the database; [output indexing also work well with search indexing tools like hyperestraier].

long term maintainability of document collections in a world of changing formats, having a very sparsely marked-up source document base. there is a considerable degree of future-proofing, output representations are “upgradeable”, and new document formats may be added. e.g. addition of odft (open document text) module in 2006 and in future html5 output sometime in future, without modification of existing prepared texts

SQL search aside, documents are generated as required and static once generated.

documents produced are static files, and may be batch processed, this needs to be done only once but may be repeated for various reasons as desired (updated content, addition of new output formats, updated technology document presentations/representations)

document source (plaintext utf-8) if shared on the net may be used as input and processed locally to produce the different document outputs

document source may be bundled together (automatically) with associated documents (multiple language versions or master document with inclusions) and images and sent as a zip file called a sisupod, if shared on the net these too may be processed locally to produce the desired document outputs

generated document outputs may automatically be posted to remote sites.

for basic document generation, the only software dependency is **Ruby** , and a few standard Unix tools (this covers plaintext,

HTML, XML, ODF, LaTeX). To use a database you of course need that, and to convert the LaTeX generated to pdf, a latex processor like tetex or texlive.

- as a developers tool it is flexible and extensible

Syntax highlighting for **SiSU** markup is available for a number of text editors.

**SiSU** is less about document layout than about finding a way with little markup to be able to construct an abstract representation of a document that makes it possible to produce multiple representations of it which may be rather different from each other and used for different purposes, whether layout and publishing, or search of content

i.e. to be able to take advantage from this minimal preparation starting point of some of the strengths of rather different established ways of representing documents for different purposes, whether for search (relational database, or indexed flat files generated for that purpose whether of complete documents, or say of files made up of objects), online viewing (e.g. html, xml, pdf), or paper publication (e.g. pdf)...

the solution arrived at is by extracting structural information about the document (about headings within the document) and by tracking objects (which are serialized and also given hash values) in the manner described. It makes possible representations that are quite different from those offered at present. For example objects could be saved individually and identified by their hashes, with an index of how the objects relate to each other to form a document.

## 4. Help

### 4.1 SiSU Manual

The most up to date information on sisu should be contained in the sisu\_manual, available at:

`<http://sisudoc.org/sisu/sisu\_manual/>`

The manual can be generated from source, found respectively, either within the **SiSU** tarball or installed locally at:

`./data/doc/sisu/sisu_markup_samples/sisu_manual/`

`/usr/share/doc/sisu/sisu_markup_samples/sisu_manual/`

move to the respective directory and type e.g.:

`sisu sisu_manual.ssm`

### 4.2 SiSU man pages

If **SiSU** is installed on your system usual man commands should be available, try:

`man sisu`

`man sisu_markup`

`man sisu_commands`

Most **SiSU** man pages are generated directly from sisu documents that are used to prepare the sisu manual, the sources files for which are located within the **SiSU** tarball at:

`./data/doc/sisu/sisu_manual/`

Once installed, directory equivalent to:

`/usr/share/doc/sisu/sisu_manual/`

62 Available man pages are converted back to html using  
man2html:

63 `/usr/share/doc/sisu/html/`

64 `./data/doc/sisu/html/`

65 An online version of the sisu man page is available here:

- 66 • [various sisu man pages](#) <sup>7</sup>
- 67 • [sisu.1](#) <sup>8</sup>

### 68 4.3 SiSU built-in interactive help

69 This is particularly useful for getting the current sisu  
setup/environment information:

70 `sisu --help`

71 `sisu --help [subject]`

72 `sisu --help commands`

73 `sisu --help markup`

74 `sisu --help env` [for feedback on the way your system  
is setup with regard to sisu]

75 `sisu -V` [environment information, same as above command]

76 `sisu` (on its own provides version and some help informa-  
tion)

77 Apart from real-time information on your current configuration  
the **SiSU** manual and man pages are likely to contain more up-  
to-date information than the sisu interactive help (for example  
on commands and markup).

<sup>7</sup><http://www.jus.uio.no/sisu/man/>

<sup>8</sup><http://www.jus.uio.no/sisu/man/sisu.1.html>

NOTE: Running the command `sisu` (alone without any flags, 78  
filenames or wildcards) brings up the interactive help, as does  
any `sisu` command that is not recognised. Enter to escape.

### 4.4 Help Sources 79

For lists of alternative help sources, see: 80

#### man page 81

`man sisu_help_sources` 82

#### man2html 83

`/usr/share/doc/sisu/sisu_manual/sisu_help_sources/index.html`

#### sisu generated html 85

`/usr/share/doc/sisu/html/sisu_help_sources/index.html` 86

`<http://sisudoc.org/sisu/sisu_help_sources/index.html>` 87

## 88 5. Commands Summary

### 89 5.1 Synopsis

90 **SiSU** - Structured information, Serialized Units - a document publishing system

91 `sisu [ -abcDdFHHiImMnNopqRrSsTtUuVvwXxYyZz0-9 ] [ filename/ wildcard ]`

92 `sisu [ -Ddev ] [ instruction ]`

93 `sisu [ -CcFLSVvW ]`

94 Note: commands should be issued from within the directory that contains the marked up files, cd to markup directory.

### 95 5.2 Description

96 **SiSU** **SiSU** is a document publishing system, that from a simple single marked-up document, produces multiple of output formats including: plaintext, html, LaTeX, pdf, xhtml, XML, info, and SQL (PostgreSQL and SQLite), which share numbered text objects (“object citation numbering”) and the same document structure information. For more see: <<http://www.jus.uio.no/sisu>>

### 97 5.3 Document Processing Command Flags

98 **-a [filename/wildcard]**

produces plaintext with Unix linefeeds and without markup, (object numbers are omitted), has footnotes at end of each paragraph that contains them [ -A for equivalent dos (linefeed) output file] [see -e for endnotes]. (Options include: --endnotes for endnotes --footnotes for footnotes at the end of each para-

graph --unix for unix linefeed (default) --msdos for msdos linefeed)

**-b [filename/wildcard]**

99 produces xhtml/XML output for browser viewing (sax parsing).

**-C [--init-site]**

100 configure/initialise shared output directory files initialize shared output directory (config files such as css and dtd files are not updated if they already exist unless modifier is used). -C --init-site configure/initialise site more extensive than -C on its own, shared output directory files/force update, existing shared output config files such as css and dtd files are updated if this modifier is used.

**-CC**

101 configure/initialise shared output directory files initialize shared output directory (config files such as css and dtd files are not updated if they already exist unless modifier is used). The equivalent of: -C --init-site configure/initialise site, more extensive than -C on its own, shared output directory files/force update, existing shared output config files such as css and dtd files are updated if -CC is used.

**-c [filename/wildcard]**

102 screen toggle ansi screen colour on or off depending on default set (unless -c flag is used: if sisurc colour default is set to `true', output to screen will be with colour, if sisurc colour default is set to `false' or is undefined screen output will be without colour).

**-D [instruction] [filename]**

103 database postgresql ( --pgsql may be used instead) possible instructions, include: --createdb; --create; --dropall; --import [filename]; --update [filename]; --remove [filename]; see database section below.

- 104 **-d** [--db-[database type (sqlite|pg)]] --[instruction] [filename]  
 database type default set to sqlite, (for which --sqlite may be used instead) or to specify another database --db-[pgsql, sqlite] (however see -D) possible instructions include: --createdb; -create; --dropall; --import [filename]; --update [filename]; --remove [filename]; see database section below.
- 105 **-F** [--webserv=webrick]  
 generate examples of (naive) cgi search form for sqlite and postgresql depends on your already having used sisu to populate an sqlite and/or postgresql database, (the sqlite version scans the output directories for existing sisu\_sqlite databases, so it is first necessary to create them, before generating the search form) see -d -D and the database section below. If the optional parameter --webserv=webrick is passed, the cgi examples created will be set up to use the default port set for use by the webrick server, (otherwise the port is left blank and the system setting used, usually 80). The samples are dumped in the present work directory which must be writable, (with screen instructions given that they be copied to the cgi-bin directory). -Fv (in addition to the above) provides some information on setting up hyperstraier for sisu
- 106 **-H** [filename/wildcard]  
 produces html without link suffixes (.html .pdf etc.) (“Hide”). Requires an appropriately configured web server. [behaviour switched after 0.35 see -h].
- 107 **-h** [filename/wildcard]  
 produces html (with hardlinks i.e. with name suffixes in links/local urls). html, with internal document links that include the document suffix, i.e. whether it is .html or .pdf (required for browsing directly off a file system, and works with most web servers). [behaviour switched after 0.35 see -H].
- I** [filename/wildcard] 108  
 produces texinfo and info file, (view with pinfo).
- i** [filename/wildcard] 109  
 produces man page of file, not suitable for all outputs.
- L** 110  
 prints license information.
- M** [filename/wildcard/url] 111  
 maintenance mode files created for processing preserved and their locations indicated. (also see -V)
- m** [filename/wildcard/url] 112  
 assumed for most other flags, creates new meta-markup file, (the metaverse ) that is used in all subsequent processing of other output. This step is assumed for most processing flags. To skip it see -n
- N** [filename/wildcard/url] 113  
 document digest or document content certificate ( DCC ) as md5 digest tree of the document: the digest for the document, and digests for each object contained within the document (together with information on software versions that produced it) (digest.txt). -NV for verbose digest output to screen.
- n** [filename/wildcard/url] 114  
 skip meta-markup (building of “metaverse”), this skips the equivalent of -m which is otherwise assumed by most processing flags.
- o** [filename/wildcard/url] 115  
 output basic document in opendocument file format (opendocument.odt).
- p** [filename/wildcard] 116  
 produces LaTeX pdf (portrait.pdf & landscape.pdf). Default paper size is set in config file, or document header, or provided

with additional command line parameter, e.g. `--papersize-a4` preset sizes include: ``A4'`, U.S. ``letter'` and ``legal'` and book sizes ``A5'` and ``B5'` (system defaults to A4).

117 **-q [filename/wildcard]**  
quiet less output to screen.

118 **-R [filename/wildcard]**  
copies sisu output files to remote host using rsync. This requires that `sisurc.yml` has been provided with information on hostname and username, and that you have your “keys” and ssh agent in place. Note the behavior of rsync different if `-R` is used with other flags from if used alone. Alone the rsync `--delete` parameter is sent, useful for cleaning the remote directory (when `-R` is used together with other flags, it is not). Also see `-r`

119 **-r [filename/wildcard]**  
copies sisu output files to remote host using scp. This requires that `sisurc.yml` has been provided with information on hostname and username, and that you have your “keys” and ssh agent in place. Also see `-R`

120 **-S**  
produces a sisupod a zipped sisu directory of markup files including sisu markup source files and the directories local configuration file, images and skins. Note: this only includes the configuration files or skins contained in `./_sisu` not those in `/.sisu` `-S [filename/wildcard]` option. Note: (this option is tested only with zsh).

121 **-S [filename/wildcard]**  
produces a zipped file of the prepared document specified along with associated images, by default named `sisupod.zip` they may alternatively be named with the filename extension `.ssp` This provides a quick way of gathering the relevant parts of a sisu document which can then for example be emailed. A sisupod

includes sisu markup source file, (along with associated documents if a master file, or available in multilingual versions), together with related images and skin. **SiSU** commands can be run directly against a sisupod contained in a local directory, or provided as a url on a remote site. As there is a security issue with skins provided by other users, they are not applied unless the flag `--trust` or `--trusted` is added to the command instruction, it is recommended that file that are not your own are treated as untrusted. The directory structure of the unzipped file is understood by sisu, and sisu commands can be run within it. Note: if you wish to send multiple files, it quickly becomes more space efficient to zip the sisu markup directory, rather than the individual files for sending). See the `-S` option without `[filename/wildcard]`.

**-s [filename/wildcard]** 122  
copies sisu markup file to output directory.

**-t [filename/wildcard (\*.termsheet.rb)]** 123  
standard form document builder, preprocessing feature

**-U [filename/wildcard]** 124  
prints url output list/map for the available processing flags options and resulting files that could be requested, (can be used to get a list of processing options in relation to a file, together with information on the output that would be produced), `-u` provides url output mapping for those flags requested for processing. The default assumes `sisu_webrick` is running and provides `webrick` url mappings where appropriate, but these can be switched to file system paths in `sisurc.yml`

**-u [filename/wildcard]** 125  
provides url mapping of output files for the flags requested for processing, also see `-U`

**-V** 126  
on its own, provides **SiSU** version and environment information

- (sisu --help env)
- 127 **-V [filename/wildcard]**  
even more verbose than the -v flag. (also see -M)
- 128 **-v**  
on its own, provides **SiSU** version information
- 129 **-v [filename/wildcard]**  
provides verbose output of what is being built, where it is being built (and error messages if any), as with -u flag provides a url mapping of files created for each of the processing flag requests. See also -V
- 130 **-W**  
starts ruby's webrick webservice points at sisu output directories, the default port is set to 8081 and can be changed in the resource configuration files. [tip: the webrick server requires link suffixes, so html output should be created using the -h option rather than -H; also, note -F webrick ].
- 131 **-w [filename/wildcard]**  
produces concordance (wordmap) a rudimentary index of all the words in a document. (Concordance files are not generated for documents of over 260,000 words unless this limit is increased in the file sisurc.yml)
- 132 **-X [filename/wildcard]**  
produces XML output with deep document structure, in the nature of dom.
- 133 **-x [filename/wildcard]**  
produces XML output shallow structure (sax parsing).
- 134 **-Y [filename/wildcard]**  
produces a short sitemap entry for the document, based on html output and the sisu\_manifest. --sitemaps generates/updates the sitemap index of existing sitemaps. (Experimental, [g,y,m announcement this week])
- y [filename/wildcard]** 135  
produces an html summary of output generated (hyperlinked to content) and document specific metadata (sisu\_manifest.html). This step is assumed for most processing flags.
- Z [filename/wildcard]** 136  
Zap, if used with other processing flags deletes output files of the type about to be processed, prior to processing. If -Z is used as the lone processing related flag (or in conjunction with a combination of -[mMvVq]), will remove the related document output directory.
- z [filename/wildcard]** 137  
produces php (zend) [this feature is disabled for the time being]

138 **6. command line modifiers**139 **--no-ocn**

with -h -H or -p

switches off object citation numbering. Produce output without identifying numbers in margins of html or LaTeX/pdf output.

140 **--no-annotate**

strips output text of editor endnotes<sup>\*1</sup> denoted by asterisk or dagger/plus sign

141 **--no-asterisk**

strips output text of editor endnotes<sup>\*2</sup> denoted by asterisk sign

142 **--no-dagger**

strips output text of editor endnotes<sup>+1</sup> denoted by dagger/plus sign

---

<sup>\*1</sup>square brackets

<sup>\*2</sup>square brackets

<sup>+1</sup>square brackets

**7. database commands** 143

dbi - database interface 144

-D or --pgsql set for postgresql -d or --sqlite default set for sqlite -d is modifiable with --db=[database type (pgsql or sqlite)] 145

**-Dv --createall** 146

initial step, creates required relations (tables, indexes) in existing postgresql database (a database should be created manually and given the same name as working directory, as requested) (rb.dbi) [ -dv --createall sqlite equivalent] it may be necessary to run sisu -Dv --createdb initially NOTE: at the present time for postgresql it may be necessary to manually create the database. The command would be `createdb [database name]' where database name would be SiSU\_[present working directory name (without path)]. Please use only alphanumerics and underscores.

**-Dv --import** 147

filename/wildcard

imports data specified to postgresql db (rb.dbi) [ -dv --import sqlite equivalent]

**-Dv --update** 148

filename/wildcard

updates/imports specified data to postgresql db (rb.dbi) [ -dv --update sqlite equivalent]

**-D --remove** 149

filename/wildcard

removes specified data to postgresql db (rb.dbi) [ -d --remove sqlite equivalent]

**-D --dropall** 150

kills data" and drops (postgresql or sqlite) db, tables & indexes [ -d --dropall sqlite equivalent]

151 The v in e.g. -Dv is for verbose output.

## 8. Shortcuts, Shorthand for multiple flags

152

### **--update [filename/wildcard]**

153

Checks existing file output and runs the flags required to update this output. This means that if only html and pdf output was requested on previous runs, only the -hp files will be applied, and only these will be generated this time, together with the summary. This can be very convenient, if you offer different outputs of different files, and just want to do the same again.

### **-0 to -5 [filename or wildcard]**

154

Default shorthand mappings (note that the defaults can be changed/configured in the sisurc.yml file):

#### **-0**

155

-mNhwpAobxXyYv [this is the default action run when no options are give, i.e. on `sisu [filename]`]

#### **-1**

156

-mNHwpy

#### **-2**

157

-mNHwpaoy

#### **-3**

158

-mNhwpAobxXyY

#### **-4**

159

-mNhwpAobxXDyY --import

#### **-5**

160

-mNhwpAobxXDyY --update

add -v for verbose mode and -c for color, e.g. sisu -2vc [filename or wildcard]

161

consider -u for appended url info or -v for verbose output

162

## 163 8.1 Command Line with Flags - Batch Processing

164 In the data directory run `sisu -mh filename` or wildcard eg. “`sisu -h cisg.sst`” or “`sisu -h *.{sst,ssm}`” to produce html version of all documents.

165 Running `sisu` (alone without any flags, filenames or wildcards) brings up the interactive help, as does any `sisu` command that is not recognised. Enter to escape.

## 9. Introduction to SiSU Markup<sup>9</sup> 166

### 9.1 Summary 167

**SiSU** source documents are plaintext (UTF-8)<sup>10</sup> files 168

All paragraphs are separated by an empty line. 169

Markup is comprised of: 170

- at the top of a document, the document header made up of semantic meta-data about the document and if desired additional processing instructions (such an instruction to automatically number headings from a particular level down) 171
- followed by the prepared substantive text of which the most important single characteristic is the markup of different heading levels, which define the primary outline of the document structure. Markup of substantive text includes: 172
  - heading levels defines document structure 173
  - text basic attributes, italics, bold etc. 174
  - grouped text (objects), which are to be treated differently, such as code blocks or poems. 175
  - footnotes/endnotes 176
  - linked text and images 177
  - paragraph actions, such as indent, bulleted, numbered-lists, etc. 178

Some interactive help on markup is available, by typing `sisu` and selecting `markup` or `sisu --help markup` 179

<sup>9</sup>From sometime after SiSU 0.58 it should be possible to describe SiSU markup using SiSU, which though not an original design goal is useful.

<sup>10</sup>files should be prepared using UTF-8 character encoding



## 194 10. Markup of Headers

195 Headers consist of semantic meta-data about a document, which can be used by any output module of the program; and may in addition include extra processing instructions.

196 Note: the first line of a document may include information on the markup version used in the form of a comment. Comments are a percentage mark at the start of a paragraph (and as the first character in a line of text) followed by a space and the comment:

```
197 % this would be a comment
```

### 198 10.1 Sample Header

199 This current document has a header similar to this one (without  
200 the comments):

```
% SiSU 0.57
@title: SiSU
@subtitle: Markup
@creator: Ralph Amissah
@rights: Copyright (C) Ralph Amissah 2007, part of SiSU documentation, License GPL 3
@type: information
@subject: ebook, epublishing, electronic book, electronic publishing, electronic document, electronic citation, data structure, citation systems, search
@date.created: 2002-08-28
@date.issued: 2002-08-28
@date.available: 2002-08-28
@date.modified: 2007-09-16
@date: 2007-09-16
@level: new=C; break=1; num_top=1
% comment: in this @level header num_top=1 starts automatic heading numbering at heading level 1 (numbering continues 3 levels down); the new and break instructions are used by the LaTeX/pdf and odf output to determine where to put page breaks (that are not used by html output or say sql database population).
@skin: skin_sisu_manual
```

% skins modify the appearance of a document and are placed in a sub-directory under `./_sisu/skin` `/.sisu/skin` or `/etc/sisu/skin`. A skin may affect single documents that request them, all documents in a directory, or be site-wide. (A document is affected by a single skin)

```
@bold: /Gnu|Debian|Ruby|SiSU/
@links: { SiSU Manual }http://www.jus.uio.no/sisu/sisu_manual/
{ Book Samples and Markup Examples }http://www.jus.uio.no/sisu/SiSU/examples.html
{ SiSU @ Wikipedia }http://en.wikipedia.org/wiki/SiSU
{ SiSU @ Freshmeat }http://freshmeat.net/projects/sisu/
{ SiSU @ Ruby Application Archive }http://raa.ruby-lang.org/project/sisu/
{ SiSU @ Debian }http://packages.qa.debian.org/s/sisu.html
{ SiSU Download }http://www.jus.uio.no/sisu/SiSU/download.html
{ SiSU Changelog }http://www.jus.uio.no/sisu/SiSU/changelog.html
```

## 10.2 Available Headers

Header tags appear at the beginning of a document and provide meta information on the document (such as the Dublin Core), or information as to how the document as a whole is to be processed. All header instructions take either the form `@headername:` or `0 headername`. All Dublin Core meta tags are available

**@indentifier:** information or instructions

where the “identifier” is a tag recognised by the program, and the “information” or “instructions” belong to the tag/indentifier specified

Note: a header where used should only be used once; all headers apart from `@title:` are optional; the `@structure:` header is used to describe document structure, and can be useful to know.

This is a sample header

```
% SiSU 0.38 [declared file-type identifier with markup version]
```

**@title:** [title text] This is the title of the document and used as such, this header is the only one that is mandatory

209	<b>@subtitle:</b> The Subtitle if any	<b>@rights:</b> Copyright (c) Name of Right Holder, all rights reserved, or as granted: public domain, copyleft, creative commons variant, etc.	228
210	<b>@creator:</b> [or @author:] Name of Author		
211	<b>@subject:</b> (whatever your subject)	<b>@owner:</b>	229
212	<b>@description:</b>	<b>@keywords:</b> text document generation processing management latex pdf structured xml citation [your keywords here, used for example by rss feeds, and in sql searches]	230
213	<b>@publisher:</b>	<b>@abstract:</b> [paper abstract, placed after table of contents]	231
214	<b>@contributor:</b>	<b>@comment:</b> [...]	232
215	<b>@translator:</b> [or @translated_by:]	<b>@catalogue:</b> loc=[Library of Congress classification]; dewey=[Dewey classification]; isbn=[ISBN]; pg=[Project Gutenberg text number]	233
216	<b>@illustrator:</b> [or @illustrated_by:]	<b>@classify_loc:</b> [Library of Congress classification]	234
217	<b>@prepared_by:</b> [or @digitized_by:]	<b>@classify_dewey:</b> [Dewey classification]	235
218	<b>@date:</b> <b>2000-08-27</b> [ also @date.created: @date.issued: @date.available: @date.valid: @date.modified: ]	<b>@classify_isbn:</b> [ISBN]	236
219	<b>@type:</b> article	<b>@classify_pg:</b> [Project Gutenberg text number]	237
220	<b>@format:</b>	<b>@prefix:</b> [prefix is placed just after table of contents]	238
221	<b>@identifier:</b>	<b>@prefix_a:</b> [prefix is placed just before table of contents - not implemented]	239
222	<b>@source:</b>	<b>@prefix_b:</b>	240
223	<b>@language:</b> [or @language.document:] [country code for language if available, or language, English, en is the default setting] (en - English, fr - French, de - German, it - Italian, es - Spanish, pt - Portuguese, sv - Swedish, da - Danish, fi - Finnish, no - Norwegian, is - Icelandic, nl - Dutch, et - Estonian, hu - Hungarian, pl - Polish, ro - Romanian, ru - Russian, el - Greek, uk - Ukranian, tr - Turkish, sk - Slovak, sl - Slovenian, hr - Croatian, cs - Czech, bg - Bulgarian ) [however, encodings are not available for all of the languages listed.]	<b>@rcs:</b> \$Id: sisu_markup.sst,v 1.1 2008/12/11 02:50:34 ralph Exp ralph \$ [used by rcs or cvs to embed version (revision control) information into document, rcs or cvs can usefully provide a history of updates to a document ]	241
224	[@language.original: original language in which the work was published]	<b>@structure:</b> PART; CHAPTER; SECTION; ARTICLE; none; none;	242
225	<b>@papersize:</b> (A4 US_letter book_B5 book_A5 US_legal)	optional, document structure can be defined by words to match or regular expression (the regular expression is assumed to start at the beginning of a line of text i.e. ^) default markers :A	
226	<b>@relation:</b>		
227	<b>@coverage:</b>		

to :C and 1 to 6 can be used within text instead, without this header tag, and may be used to supplement the instructions provided in this header tag if provided (@structure: is a synonym for @toc:)

243 **@level:** newpage=3; breakpage=4  
paragraph level, used by latex to breakpages, the page is optional eg. in newpage

244 **@markup:** information on the markup used, e.g. new=1,2,3; break=4; num\_top=4 [or newpage=1,2,3; breakpage=4; num\_top=4] newpage and breakpage, heading level, used by LaTeX to breakpages. breakpage: starts on a new page in single column text and on a new column in double column text; newpage: starts on a new page for both single and double column texts.

num\_top=4 [auto-number document, starting at level 4. the default is to provide 3 levels, as in 1 level 4, 1.1 level 5, 1.1.1 level 6, markup to be merged within level]

num\_extract [take numbering of headings provided (manually in marked up source document), and use for numbering of segments. Available where a clear numbering structure is provided within document, without the repetition of a number in a header.] [In 0.38 notation, you would map to the equivalent levels, the examples provided would map to the following new=A,B,C; break=1; num\_top=1 [or newpage=A,B,C; breakpage=1; num\_top=1] see headings]

245 **@bold:** [regular expression of words/phrases to be made bold]

246 **@italics:** [regular expression of words/phrases to italicise]

247 **@vocabulary:** name of taxonomy/vocabulary/wordlist to use against document

248 **@skin:** skin\_doc\_[name\_of\_desired\_document\_skin]

skins change default settings related to the appearance of documents generated, such as the urls of the home site, and the icon/logo for the document or site.

**@links:** { SiSU }http://www.jus.uio.no/sisu/; 249  
{ FSF }http://www.fsf.org

**@promo:** sisu, ruby, search\_libre\_docs, open\_society 250  
places content in right pane in html, makes use of list.yml and promo.yml, commented out sample in document sample:  
free\_as\_in\_freedom.richard\_stallman\_crusade\_for\_free\_software.sam\_wi

## 251 11. Markup of Substantive Text

### 252 11.1 Heading Levels

253 Heading levels are :A ,:B ,:C ,1 ,2 ,3 ... :A - :C being part / section headings, followed by other heading levels, and 1 -6 being headings followed by substantive text or sub-headings. :A usually the title :A ? conditional level 1 heading (used where a stand-alone document may be imported into another)

254 **:A [heading text]** Top level heading [this usually has similar content to the title @title: ] NOTE: the heading levels described here are in 0.38 notation, see heading

255 **:B [heading text]** Second level heading [this is a heading level divider]

256 **:C [heading text]** Third level heading [this is a heading level divider]

257 **1 [heading text]** Top level heading preceding substantive text of document or sub-heading 2, the heading level that would normally be marked 1. or 2. or 3. etc. in a document, and the level on which sisu by default would break html output into named segments, names are provided automatically if none are given (a number), otherwise takes the form 1 my\_filename\_for\_this\_segment

258 **2 [heading text]** Second level heading preceding substantive text of document or sub-heading 3, the heading level that would normally be marked 1.1 or 1.2 or 1.3 or 2.1 etc. in a document.

259 **3 [heading text]** Third level heading preceding substantive text of document, that would normally be marked 1.1.1 or 1.1.2 or 1.2.1 or 2.1.1 etc. in a document

260 1 filename level 1 heading,

% the primary division such as Chapter that is followed by substantive text, and may be further subdivided (this is the level on which by default html segments are made)

### 11.2 Font Attributes

#### markup example:

```
normal text !{emphasis}! *{bold text}* _{underscore}_ /{italics}/ "{citation}"
^{superscript}^ ,{subscript}, +{inserted text}+
normal text
!{emphasis}!
*{bold text}*
_{underscore}_
/{italics}/
"{citation}"
^{superscript}^
,{subscript},
+{inserted text}+
-{strikethrough}-
```

#### resulting output:

```
normal text emphasis bold text underscore italics ``citation''
superscript subscript inserted text strikethrough
normal text
emphasis
bold text
underscore
italics
``citation''
superscript
subscript
inserted text
strikethrough
```

276 **11.3 Indentation and bullets**277 **markup example:**

278 ordinary paragraph  
 \_1 indent paragraph one step  
 \_2 indent paragraph two steps  
 \_9 indent paragraph nine steps

279 **resulting output:**

280 ordinary paragraph  
 281 indent paragraph one step  
 282 indent paragraph two steps

283 indent  
 paragraph  
 nine steps

284 **markup example:**

285 \_\* bullet text  
 \_1\* bullet text, first indent  
 \_2\* bullet text, two step indent

286 **resulting output:**

- 287 • bullet text  
 288 • bullet text, first indent  
 289 • bullet text, two step indent

290 Numbered List (not to be confused with headings/titles, (document structure))

291 **markup example:**

292 # numbered list                    numbered list 1., 2., 3, etc.  
 <=hash> numbered list numbered list indented a., b., c., d., etc.

293 **11.4 Footnotes / Endnotes**

294 Footnotes and endnotes not distinguished in markup. They are automatically numbered. Depending on the output file format

(html, odf, pdf etc.), the document output selected will have either footnotes or endnotes.

**markup example:**

{ a footnote or endnote }

**resulting output:**

11

**markup example:**

normal text{ self contained endnote marker & endnote in one }continues

**resulting output:**

normal text<sup>12</sup> continues

**markup example:**

normal text { \* unnumbered asterisk footnote/endnote, insert multiple asterisks if required }continues

normal text { \*\* another unnumbered asterisk footnote/endnote }continues

**resulting output:**

normal text \* continues

normal text \*\* continues

**markup example:**

normal text [ \* editors notes, numbered asterisk footnote/endnote series ]continues

normal text [ + editors notes, numbered asterisk footnote/endnote series ]continues

**resulting output:**

normal text <sup>\*3</sup> continues

normal text <sup>+2</sup> continues

<sup>11</sup>a footnote or endnote

<sup>12</sup>self contained endnote marker & endnote in one

\* unnumbered asterisk footnote/endnote, insert multiple asterisks if required

\*\* another unnumbered asterisk footnote/endnote

\*3 editors notes, numbered asterisk footnote/endnote series

## 313 **Alternative endnote pair notation for footnotes/endnotes:**

314

```
% note the endnote marker "~"
normal text~ continues
^ endnote text following the paragraph in which the marker occurs
```

315 the standard and pair notation cannot be mixed in the same document

## 316 **11.5 Links**

### 317 **11.5.1 Naked URLs within text, dealing with urls**

318 urls are found within text and marked up automatically. A url within text is automatically hyperlinked to itself and by default decorated with angled braces, unless they are contained within a code block (in which case they are passed as normal text), or escaped by a preceding underscore (in which case the decoration is omitted).

#### 319 **markup example:**

```
320 normal text http://www.jus.uio.no/sisu continues
```

#### 321 **resulting output:**

```
322 normal text <http://www.jus.uio.no/sisu> continues
```

323 An escaped url without decoration

#### 324 **markup example:**

```
325 normal text http://www.jus.uio.no/sisu continues
deb http://www.jus.uio.no/sisu/archive unstable main non-free
```

#### 326 **resulting output:**

```
327 normal text http://www.jus.uio.no/sisu continues
```

```
328 deb http://www.jus.uio.no/sisu/archive unstable main non-free
```

329 where a code block is used there is neither decoration nor hyper-

<sup>+2</sup>editors notes, numbered asterisk footnote/endnote series

linking, code blocks are discussed later in this document

#### **resulting output:**

```
deb http://www.jus.uio.no/sisu/archive unstable main non-free
deb-src http://www.jus.uio.no/sisu/archive unstable main non-free
```

To link text or an image to a url the markup is as follows

#### **markup example:**

```
about { SiSU }http://url.org markup
```

### 11.5.2 Linking Text

#### **resulting output:**

```
about SiSU markup
```

A shortcut notation is available so the url link may also be provided automatically as a footnote

#### **markup example:**

```
about {~ SiSU }http://url.org markup
```

#### **resulting output:**

```
about SiSU13 markup
```

### 11.5.3 Linking Images

#### **markup example:**

```
{ tux.png 64x80 }image
% various url linked images
{tux.png 64x80 "a better way" }http://www.jus.uio.no/sisu/
{GnuDebianLinuxRubyBetterWay.png 100x101 "Way Better - with Gnu/Linux,
Debian and Ruby" }http://www.jus.uio.no/sisu/
{~ ruby_logo.png "Ruby" }http://www.ruby-lang.org/en/
```

#### **resulting output:**

<sup>13</sup><http://www.jus.uio.no/sisu/>



347



348



349

14



350

### linked url footnote shortcut

351

352

```
{~ [text to link] }http://url.org
```

```
% maps to: { [text to link] }http://url.org { http://url.org }
```

353

% which produces hyper-linked text within a document/paragraph, with an endnote providing the url for the text location used in the hyperlink

```
text marker *ñame
```

354

note at a heading level the same is automatically achieved by

<sup>14</sup><http://www.ruby-lang.org/en/>

providing names to headings 1, 2 and 3 i.e. 2[name] and 3[name] or in the case of auto-heading numbering, without further intervention.

## 11.6 Grouped Text

355

### 11.6.1 Tables

356

Tables may be prepared in two either of two forms

357

#### markup example:

358

```
table{ c3; 40; 30; 30;
```

359

```
This is a table
```

```
this would become column two of row one
```

```
column three of row one is here
```

```
And here begins another row
```

```
column two of row two
```

```
column three of row two, and so on
```

```
}table
```

#### resulting output:

360

361

```
This is a table
```

```
this would become column
```

```
column three of row
```

```
And here begins another row
```

```
two of row one
```

```
one is here
```

```
column two of row two
```

```
column three of row
```

```
two, and so on
```

a second form may be easier to work with in cases where there is not much information in each column

362

#### markup example: <sup>15</sup>

363

364

```
!_ Table 3.1: Contributors to Wikipedia, January 2001 - June 2005
```

```
{table h 24; 12; 12; 12; 12; 12; 12; 12;}
```

```
[Jan. 2001|Jan. 2002|Jan. 2003|Jan. 2004|July 2004|June
```

```
2006
```

```
Contributors* | 10| 472| 2,188| 9,653| 25,011| 48,721
```

```
Active contributors** | 9| 212| 846| 3,228| 8,442| 16,945
```

```
Very active contributors*** | 0| 31| 190| 692| 1,639| 3,016
```

<sup>15</sup>Table from the Wealth of Networks by Yochai Benkler

[http://www.jus.uio.no/sisu/the\\_wealth\\_of\\_networks.yochai\\_benkler](http://www.jus.uio.no/sisu/the_wealth_of_networks.yochai_benkler)

No. of English language articles| 25| 16,000| 101,000| 190,000| 320,000| 630,000  
 No. of articles, all languages | 25| 19,000| 138,000| 490,000| 862,000|1,600,000  
 Contributed at least ten times; \* at least 5 times in last month; \* more than 100 times in last month.

365 **resulting output:**

366 **Table 3.1: Contributors to Wikipedia, January 2001 -**  
 367 **June 2005**

	Jan. 2001	Jan. 2002	Jan. 2003	Jan. 2004	July 2004	June 2006
Contributors*	10	472	2,188	9,653	25,011	48,721
Active contribu- tors**	9	212	846	3,228	8,442	16,945
Very active con- tributors***	0	31	190	692	1,639	3,016
No. of English lan- guage articles	25	16,000	101,000	190,000	320,000	630,000
No. of articles, all languages	25	19,000	138,000	490,000	862,000	1,600,000

368 \* Contributed at least ten times; \*\* at least 5 times in last  
 month; \*\*\* more than 100 times in last month.

### 369 11.6.2 Poem

#### 370 basic markup:

371 poem{  
 Your poem here  
 }poem  
 Each verse in a poem is given a separate object number.

#### 372 markup example:

373 poem{  
 `Fury said to a  
 mouse, That he  
 met in the  
 house,  
 "Let us  
 both go to  
 law: I will  
 prosecute  
 YOU. --Come,

I'll take no  
 denial; We  
 must have a  
 trial: For  
 really this  
 morning I've  
 nothing  
 to do."

Said the  
 mouse to the  
 cur, "Such  
 a trial,  
 dear Sir,  
 With  
 no jury  
 or judge,  
 would be  
 wasting  
 our  
 breath."  
 "I'll be  
 judge, I'll  
 be jury,"  
 Said  
 cunning  
 old Fury:  
 "I'll  
 try the  
 whole  
 cause,  
 and  
 condemn  
 you  
 to  
 death."

}poem

#### resulting output:

`Fury said to a  
 mouse, That he

374  
 375

met in the  
house,  
“Let us  
both go to  
law: I will  
prosecute  
YOU. --Come,  
I'll take no  
denial; We  
must have a  
trial: For  
really this  
morning I've  
nothing  
to do.”  
Said the  
mouse to the  
cur, “Such  
a trial,  
dear Sir,  
With  
no jury  
or judge,  
would be  
wasting  
our  
breath.”  
“I'll be  
judge, I'll  
be jury,”

Said  
cunning  
old Fury:  
“I'll  
try the  
whole  
cause,  
and  
condemn  
you  
to  
death.”

### 11.6.3 Group

376

#### basic markup:

377

```
group{
  Your grouped text here
}group
```

378

A group is treated as an object and given a single object number.

#### markup example:

379

```
group{
  `Fury said to a
  mouse, That he
  met in the
  house,
  "Let us
  both go to
  law: I will
  prosecute
  YOU. --Come,
  I'll take no
  denial; We
  must have a
  trial: For
```

380

really this  
 morning I've  
 nothing  
 to do."  
 Said the  
 mouse to the  
 cur, "Such  
 a trial,  
 dear Sir,  
     With  
     no jury  
     or judge,  
     would be  
 wasting  
 our  
 breath."  
 "I'll be  
 judge, I'll  
 be jury,"  
     Said  
     cunning  
     old Fury:  
     "I'll  
     try the  
     whole  
     cause,  
     and  
     condemn  
     you  
     to  
     death."

}group

381 **resulting output:**

382

`Fury said to a  
 mouse, That he  
 met in the  
 house,  
 "Let us

both go to  
 law: I will  
 prosecute  
 YOU. --Come,  
     I'll take no  
     denial; We  
     must have a  
 trial: For  
 really this  
 morning I've  
 nothing  
 to do."  
 Said the  
 mouse to the  
 cur, "Such  
 a trial,  
 dear Sir,  
     With  
     no jury  
     or judge,  
     would be  
 wasting  
 our  
 breath."  
 "I'll be  
 judge, I'll  
 be jury,"  
     Said  
     cunning  
     old Fury:

"I'll  
try the  
whole  
cause,  
and  
condemn  
you  
to  
death."

trial: For  
really this  
morning I've  
nothing  
to do."  
Said the  
mouse to the  
cur, "Such  
a trial,  
dear Sir,  
With  
no jury  
or judge,  
would be  
wasting  
our  
breath."  
"I'll be  
judge, I'll  
be jury,"  
Said  
cunning  
old Fury:  
"I'll  
try the  
whole  
cause,  
and  
condemn  
you  
to  
death."

#### 383 11.6.4 Code

384 Code tags are used to escape regular sisu markup, and have been  
used extensively within this document to provide examples of  
**SiSU** markup. You cannot however use code tags to escape  
code tags. They are however used in the same way as group or  
poem tags.

385 A code-block is treated as an object and given a single object  
number. [an option to number each line of code may be consid-  
ered at some later time]

#### 386 use of code tags instead of poem compared, resulting 387 output:

```
`Fury said to a
mouse, That he
met in the
house,
"Let us
both go to
law: I will
prosecute
YOU. --Come,
I'll take no
denial; We
must have a
```

## 11.7 Book index

388

To make an index append to paragraph the book index term 389  
relates to it, using an equal sign and curly braces.

Currently two levels are provided, a main term and if needed 390

a sub-term. Sub-terms are separated from the main term by a colon.

```
Paragraph containing main term and sub-term.
={Main term:sub-term}
```

The index syntax starts on a new line, but there should not be an empty line between paragraph and index markup.

The structure of the resulting index would be:

```
Main term, 1
  sub-term, 1
```

Several terms may relate to a paragraph, they are separated by a semicolon. If the term refers to more than one paragraph, indicate the number of paragraphs.

```
Paragraph containing main term, second term and sub-term.
={first term; second term: sub-term}
```

The structure of the resulting index would be:

```
First term, 1,
Second term, 1,
  sub-term, 1
```

If multiple sub-terms appear under one paragraph, they are separated under the main term heading from each other by a pipe symbol.

```
Paragraph containing main term, second term and sub-term.
={Main term:sub-term+1|second sub-term
A paragraph that continues discussion of the first sub-term
```

The plus one in the example provided indicates the first sub-term spans one additional paragraph. The logical structure of the resulting index would be:

```
Main term, 1,
  sub-term, 1-3,
  second sub-term, 1,
```

## 12. Composite documents markup

It is possible to build a document by creating a master document that requires other documents. The documents required may be complete documents that could be generated independently, or they could be markup snippets, prepared so as to be easily available to be placed within another text. If the calling document is a master document (built from other documents), it should be named with the suffix **.ssm**. Within this document you would provide information on the other documents that should be included within the text. These may be other documents that would be processed in a regular way, or markup bits prepared only for inclusion within a master document **.sst** regular markup file, or **.ssi** (insert/information). A secondary file of the composite document is built prior to processing with the same prefix and the suffix **.\_sst**.

basic markup for importing a document into a master document

```
<< filename1.sst
<< filename2.ssi
```

The form described above should be relied on. Within the Vim editor it results in the text thus linked becoming hyperlinked to the document it is calling in which is convenient for editing. Alternative markup for importation of documents under consideration, and occasionally supported have been.

```
<< filename.ssi
<<{filename.ssi}
% using textlink alternatives
<< |filename.ssi|@|^|
```

409	<b>Markup Syntax History</b>	
	<b>13. Notes related to Files-types and Markup Syntax</b>	410
	0.38 is substantially current, depreciated 0.16 supported, though file names were changed at 0.37	411
	• <code>sisu --query=[sisu version [0.38] or `history]</code>	412
	provides a short history of changes to <b>SiSU</b> markup	413
	<b>0.57</b> (2007w34/4) <b>SiSU</b> 0.57 is the same as 0.42 with the introduction of some a shortcut to use the headers <code>@title</code> and <code>@creator</code> in the first heading [expanded using the contents of the headers <code>@title:</code> and <code>@author:</code> ]	414
	:A @title by @author	415
	<b>0.52</b> (2007w14/6) declared document type identifier at start of text/document:	416
	<b>SiSU</b> 0.52	417
	or, backward compatible using the comment marker:	418
	<code>% SiSU 0.38</code>	419
	variations include <code>`SiSU (text master insert) [version]'</code> and <code>`sisu-[version]'</code>	420
	<b>0.51</b> (2007w13/6) skins changed (simplified), markup unchanged	421
	<b>0.42</b> (2006w27/4) * (asterisk) type endnotes, used e.g. in relation to author	422
	<b>SiSU</b> 0.42 is the same as 0.38 with the introduction of some additional endnote types,	423
	Introduces some variations on endnotes, in particular the use of the asterisk	424
	<code>{* for example for describing an author }ãnd {** for describing a second author }</code>	425
	* for example for describing an author	426
	** for describing a second author	427

428 and  
 429 [`* my note ]ōr [+ another note ]`

430 which numerically increments an asterisk and plus respectively

431 `*1 my note +1 another note`

432 **0.38** (2006w15/7) introduced new/alternative notation for headers, e.g. `@title:` (instead of `0 title`), and accompanying document structure markup, `:A,:B,:C,1,2,3` (maps to previous 1,2,3,4,5,6)

433 **SiSU** 0.38 introduced alternative experimental header and  
 434 heading/structure markers,  
`@headname: and headers :A :B :C 1 2 3`

435 as the equivalent of:  
 436 `0 headname and headers 1 2 3 4 5 6`

437 The internal document markup of **SiSU** 0.16 remains valid and standard. Though note that **SiSU** 0.37 introduced a new file naming convention

438 **SiSU** has in effect two sets of levels to be considered, using 0.38 notation A-C headings/levels, pre-ordinary paragraphs/pre-substantive text, and 1-3 headings/levels, levels which are followed by ordinary text. This may be conceptualised as levels A,B,C, 1,2,3, and using such letter number notation, in effect: A must exist, optional B and C may follow in sequence (not strict) 1 must exist, optional 2 and 3 may follow in sequence i.e. there are two independent heading level sequences A,B,C and 1,2,3 (using the 0.16 standard notation 1,2,3 and 4,5,6) on the positive side: the 0.38 A,B,C,1,2,3 alternative makes explicit an aspect of structuring documents in **SiSU** that is not otherwise obvious to the newcomer (though it appears more complicated, is more in your face and likely to be understood fairly quickly); the substantive text follows levels 1,2,3 and it is 'nice' to do most work in those levels

439 **0.37** (2006w09/7) introduced new file naming convention, `.sst` (text), `.ssm` (master), `.ssi` (insert), markup syntax unchanged

**SiSU** 0.37 introduced new file naming convention, using the file extensions `.sst` `.ssm` and `.ssi` to replace `.s1` `.s2` `.s3` `.r1` `.r2` `.r3` and `.si`

this is captured by the following file 'rename' instruction:

```
rename 's/š[123]$/sst/' *.s{1,2,3}
rename 's/ř[123]$/ssm/' *.r{1,2,3}
rename 's/ši$/ssi/' *.si
```

The internal document markup remains unchanged, from **SiSU** 0.16

**0.35** (2005w52/3) sisupod, zipped content file introduced

**0.23** (2005w36/2) utf-8 for markup file

**0.22** (2005w35/3) image dimensions may be omitted if rmagick is available to be relied upon

**0.20.4** (2005w33/4) header 0 links

**0.16** (2005w25/2) substantial changes introduced to make markup cleaner, header 0 title type, and headings [1-6] introduced, also percentage sign (%) at start of a text line as comment marker

**SiSU** 0.16 (0.15 development branch) introduced the use of the header 0 and headings/structure 1 2 3 4 5 6 in place of the 0.1 header, heading/structure notation

**SiSU** 0.1 headers and headings structure represented by header 0{ and headings/structure 1{ 2{ 3{ 4{ 5{ 6{

## 453 14. SiSU filetypes

454 **SiSU** has plaintext and binary filetypes, and can process either  
type of document.

### 455 14.1 .sst .ssm .ssi marked up plain text

456 **SiSU** documents are prepared as plain-text (utf-8) files with  
**SiSU** markup. They may make reference to and contain images  
(for example), which are stored in the directory beneath them  
\_sisu/image. **SiSU** plaintext markup files are of three types  
that may be distinguished by the file extension used: regular  
text .sst; master documents, composite documents that incor-  
porate other text, which can be any regular text or text insert;  
and inserts the contents of which are like regular text except  
these are marked .ssi and are not processed.

457 **SiSU** processing can be done directly against a sisu documents;  
which may be located locally or on a remote server for which a  
url is provided.

458 **SiSU** source markup can be shared with the command:

459 `sisu -s [filename]`

#### 460 14.1.1 sisu text - regular files (.sst)

461 The most common form of document in **SiSU** , see the section  
on **SiSU** markup.

462 `<http://www.jus.uio.no/sisu/sisu\_markup>`

463 `<http://www.jus.uio.no/sisu/sisu\_manual>`

#### 464 14.1.2 sisu master files (.ssm)

465 Composite documents which incorporate other **SiSU** docu-  
ments which may be either regular **SiSU** text .sst which may

be generated independently, or inserts prepared solely for the  
purpose of being incorporated into one or more master docu-  
ments.

The mechanism by which master files incorporate other docu- 466  
ments is described as one of the headings under under **SiSU**  
markup in the **SiSU** manual.

Note: Master documents may be prepared in a similar way to 467  
regular documents, and processing will occur normally if a .sst  
file is renamed .ssm without requiring any other documents;  
the .ssm marker flags that the document may contain other  
documents.

Note: a secondary file of the composite document is built prior 468  
to processing with the same prefix and the suffix `._sst` <sup>16</sup>

469 `<http://www.jus.uio.no/sisu/sisu\_markup>`

470 `<http://www.jus.uio.no/sisu/sisu\_manual>`

#### 471 14.1.3 sisu insert files (.ssi)

472 Inserts are documents prepared solely for the purpose of being  
incorporated into one or more master documents. They resem-  
ble regular **SiSU** text files except they are ignored by the **SiSU**  
processor. Making a file a .ssi file is a quick and convenient way  
of flagging that it is not intended that the file should be pro-  
cessed on its own.

## 14.2 sisupod, zipped binary container (sisupod.zip, .ssp)

473 <[http://www.jus.uio.no/sisu/sisu\\_manual](http://www.jus.uio.no/sisu/sisu_manual)>

474 A sisupod is a zipped **SiSU** text file or set of **SiSU** text files and any associated images that they contain (this will be extended to include sound and multimedia-files)

475 **SiSU** plaintext files rely on a recognised directory structure to find contents such as images associated with documents, but all images for example for all documents contained in a directory are located in the sub-directory `_sisu/image`. Without the ability to create a sisupod it can be inconvenient to manually identify all other files associated with a document. A sisupod automatically bundles all associated files with the document that is turned into a pod.

476 The structure of the sisupod is such that it may for example contain a single document and its associated images; a master document and its associated documents and anything else; or the zipped contents of a whole directory of prepared **SiSU** documents.

477 The command to create a sisupod is:

478 `sisu -S [filename]`

479 Alternatively, make a pod of the contents of a whole directory:

480 `sisu -S`

481 **SiSU** processing can be done directly against a sisupod; which may be located locally or on a remote server for which a url is provided.

482 <[http://www.jus.uio.no/sisu/sisu\\_commands](http://www.jus.uio.no/sisu/sisu_commands)>

<sup>16</sup>.ssc (for composite) is under consideration but `._sst` makes clear that this is not a regular file to be worked on, and thus less likely that people will have “accidents”, working on a .ssc file that is overwritten by subsequent processing. It may be however that when the resulting file is shared .ssc is an appropriate suffix to use.

## 484 15. Experimental Alternative Input Representations

### 485 15.1 Alternative XML

486 **SiSU** offers alternative XML input representations of documents as a proof of concept, experimental feature. They are however not strictly maintained, and incomplete and should be handled with care.

#### 487 **convert from sst to simple xml representations (sax, dom and node):**

488 `sisu --to-sax [filename/wildcard] or sisu --to-sxs [filename/wildcard]`

489 `sisu --to-dom [filename/wildcard] or sisu --to-sxd [filename/wildcard]`

490 `sisu --to-node [filename/wildcard] or sisu --to-sxn [filename/wildcard]`

#### 491 **convert to sst from any sisu xml representation (sax, dom and node):**

492 `sisu --from-xml2sst [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

493 or the same:

494 `sisu --from-sxml [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

#### 495 15.1.1 XML SAX representation

496 To convert from sst to simple xml (sax) representation:

497 `sisu --to-sax [filename/wildcard] or sisu --to-sxs [filename/wildcard]`

498 To convert from any sisu xml representation back to sst

499 `sisu --from-xml2sst [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

500 or the same:

`sisu --from-sxml [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

#### 502 15.1.2 XML DOM representation

To convert from sst to simple xml (dom) representation:

503 `sisu --to-dom [filename/wildcard] or sisu --to-sxd [filename/wildcard]` 504

To convert from any sisu xml representation back to sst

505 `sisu --from-xml2sst [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

or the same:

507 `sisu --from-sxml [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

#### 509 15.1.3 XML Node representation

To convert from sst to simple xml (node) representation:

510 `sisu --to-node [filename/wildcard] or sisu --to-sxn [filename/wildcard]` 511

To convert from any sisu xml representation back to sst

512 `sisu --from-xml2sst [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

or the same:

514 `sisu --from-sxml [filename/wildcard [.sxs.xml,.sxd.xml,sxn.xml]]`

## 516 16. Configuration

If **SiSU** is installed a sample `sisurc.yml` may be found in 533  
`/etc/sisu/sisurc.yml`

### 517 16.1 Determining the Current Configuration

518 Information on the current configuration of **SiSU** should be  
available with the help command:

```
519     sisu -v
```

520 which is an alias for:

```
521     sisu --help env
```

522 Either of these should be executed from within a directory that  
contains `sisu` markup source documents.

### 523 16.2 Configuration files (`config.yml`)

524 **SiSU** configuration parameters are adjusted in the configuration  
file, which can be used to override the defaults set. This includes  
such things as which directory interim processing should be done  
in and where the generated output should be placed.

525 The **SiSU** configuration file is a `yaml` file, which means inden-  
tation is significant.

526 **SiSU** resource configuration is determined by looking at the  
following files if they exist:

```
527     ./_sisu/sisurc.yml
```

```
528     /.sisu/sisurc.yml
```

```
529     /etc/sisu/sisurc.yml
```

530 The search is in the order listed, and the first one found is  
used.

531 In the absence of instructions in any of these it falls back to the  
internal program defaults.

532 Configuration determines the output and processing directories  
and the database access details.

534 **17. Skins**

535 Skins modify the default appearance of document output on a document, directory, or site wide basis. Skins are looked for in the following locations:

536 `./__sisu/skin`  
 537 `/.sisu/skin`  
 538 `/etc/sisu/skin`

539 **Within the skin directory** are the following the default sub-directories for document skins:

540 `./skin/doc`  
 541 `./skin/dir`  
 542 `./skin/site`

543 A skin is placed in the appropriate directory and the file named `skin_[name].rb`

544 The skin itself is a ruby file which modifies the default appearances set in the program.

545 **17.1 Document Skin**

546 Documents take on a document skin, if the header of the document specifies a skin to be used.

```
@skin: skin_united_nations
```

548 **17.2 Directory Skin**

549 A directory may be mapped on to a particular skin, so all documents within that directory take on a particular appearance. If a skin exists in the `skin/dir` with the same name as the document directory, it will automatically be used for each of the documents in that directory, (except where a document specifies the use of another skin, in the `skin/doc` directory).

A personal habit is to place all skins within the `doc` directory, and symbolic links as needed from the site, or `dir` directories as required. 550

551 **17.3 Site Skin**

A site skin, modifies the program default skin. 552

553 **17.4 Sample Skins**

With **SiSU** installed sample skins may be found in: 554

`/etc/sisu/skin/doc` and `/usr/share/doc/sisu/sisu_markup_samples/dfs`

(or equivalent directory) and if `sisu-markup-samples` is installed also under: 556

`/usr/share/doc/sisu/sisu_markup_samples/non-free/__sisu/skin/doc` 557

Samples of `list.yml` and `promo.yml` (which are used to create the right column list) may be found in: 558

`/usr/share/doc/sisu/sisu_markup_samples/dfsg/__sisu/skin/samples` (or equivalent directory) 559

## 560 18. CSS - Cascading Style Sheets (for html, XHTML and XML)

561 CSS files to modify the appearance of **SiSU** html, XHTML or  
XML may be placed in the configuration directory: `./_sisu/css`;  
`./sisu/css` or; `/etc/sisu/css` and these will be copied to the  
output directories with the command `sisu -CC`.

562 The basic CSS file for html output is `html.css`, placing a file of  
that name in directory `_sisu/css` or equivalent will result in the  
default file of that name being overwritten.

563 HTML: `html.css`

564 XML DOM: `dom.css`

565 XML SAX: `sax.css`

566 XHTML: `xhtml.css`

567 The default homepage may use `homepage.css` or `html.css`

568 Under consideration is to permit the placement of a CSS file  
with a different name in directory `_sisu/css` directory or equiv-  
alent, and change the default CSS file that is looked for in a  
skin.<sup>17</sup>

---

<sup>17</sup>SiSU has worked this way in the past, though this was dropped as it  
was thought the complexity outweighed the flexibility, however, the  
balance was rather fine and this behaviour could be reinstated.

## 19. Organising Content 569

### 19.1 Directory Structure and Mapping 570

571 The output directory root can be set in the `sisurc.yml` file. Un-  
der the root, subdirectories are made for each directory in which  
a document set resides. If you have a directory named `poems`  
or `conventions`, that directory will be created under the output  
directory root and the output for all documents contained in the  
directory of a particular name will be generated to subdirecto-  
ries beneath that directory (`poem` or `conventions`). A document  
will be placed in a subdirectory of the same name as the docu-  
ment with the filetype identifier stripped (`.sst` `.ssm`)

572 The last part of a directory path, representing the sub-directory  
in which a document set resides, is the directory name that will  
be used for the output directory. This has implications for the  
organisation of document collections as it could make sense to  
place documents of a particular subject, or type within a direc-  
tory identifying them. This grouping as suggested could be by  
subject (`sales_law`, `english_literature`); or just as conveniently  
by some other classification (X University). The mapping means  
it is also possible to place in the same output directory docu-  
ments that are for organisational purposes kept separately, for  
example documents on a given subject of two different institu-  
tions may be kept in two different directories of the same name,  
under a directory named after each institution, and these would  
be output to the same output directory. Skins could be associ-  
ated with each institution on a directory basis and resulting doc-  
uments will take on the appropriate different appearance.

#### 19.1.1 General Directories 573

574 `./subject_name/`  
% files stored at this level e.g. `sisu_manual.sst`  
`./subject_name/_sisu`

```
% configuration file e.g. sisurc.yml
./subject_name/_sisu/skin
% skins in various skin directories doc, dir, site, yml
./subject_name/_sisu/css
./subject_name/_sisu/image
% images for documents contained in this directory
./subject_name/_sisu/mm
```

### 575 19.1.2 Remote Directories

```
576 ./subject_name/
% containing sub_directories named after the generated files from which they
are made
./subject_name/src
% contains shared source files text and binary e.g. sisu_manual.sst and
sisu_manual.sst.zip
./subject_name/_sisu
% configuration file e.g. sisurc.yml
./subject_name/_sisu/skin
% skins in various skin directories doc, dir, site, yml
./subject_name/_sisu/css
./subject_name/_sisu/image
% images for documents contained in this directory
./subject_name/_sisu/mm
```

### 577 19.1.3 Sisupod

```
578 ./sisupod/
% files stored at this level e.g. sisu_manual.sst
./sisupod/_sisu
% configuration file e.g. sisurc.yml
./sisupod/_sisu/skin
% skins in various skin directories doc, dir, site, yml
./sisupod/_sisu/css
./sisupod/_sisu/image
% images for documents contained in this directory
./sisupod/_sisu/mm
```

## 579 19.2 Organising Content

## 20. Homepages

**SiSU** is about the ability to auto-generate documents. Home pages are regarded as custom built items, and are not created by **SiSU**. More accurately, **SiSU** has a default home page, which will not be appropriate for use with other sites, and the means to provide your own home page instead in one of two ways as part of a site's configuration, these being:

1. through placing your home page and other custom built documents in the subdirectory `_sisu/home/` (this probably being the easier and more convenient option)
2. through providing what you want as the home page in a skin,

Document sets are contained in directories, usually organised by site or subject. Each directory can/should have its own home-page. See the section on directory structure and organisation of content.

### 20.1 Home page and other custom built pages in a sub-directory

Custom built pages, including the home page `index.html` may be placed within the configuration directory `_sisu/home/` in any of the locations that is searched for the configuration directory, namely `./_sisu;` `/_sisu;` `/etc/sisu` From there they are copied to the root of the output directory with the command:

```
sisu -CC
```

### 20.2 Home page within a skin

Skins are described in a separate section, but basically are a file written in the programming language **Ruby** that may be provided to change the defaults that are provided with `sisu` with

respect to individual documents, a directories contents or for a site.

590 If you wish to provide a homepage within a skin the skin should be in the directory `_sisu/skin/dir` and have the name of the directory for which it is to become the home page. Documents in the directory `commercial_law` would have the homepage modified in `skin_commercial_law.rb`; or the directory poems in `skin_poems.rb`

```
591 class Home
      def homepage
        # place the html content of your homepage here, this will become index.html
        <<HOME <html>
        <head></head>
        <doc>
        <p>this is my new homepage.</p>
        </doc>
        </html>
      HOME
      end
    end
```

## 21. Markup and Output Examples 592

### 21.1 Markup examples 593

Current markup examples and document output samples are provided at <http://www.jus.uio.no/sisu/SiSU/examples.html> 594

Some markup with syntax highlighting may be found under <http://www.jus.uio.no/sisu/sample/syntax> 595 but is not as up to date.

For some documents hardly any markup at all is required at all, other than a header, and an indication that the levels to be taken into account by the program in generating its output are. 596

## 597 21.2 A few book (and other) examples



598

18

## 599 “The Wealth of Networks”, Yochai Benkler

600

“The Wealth of Networks”, Yochai Benkler

document manifest <sup>19</sup>

<sup>18</sup>Reproduced with the kind permission of author and artist Leena Krohn, <<http://www.kaapeli.fi/krohn>> “Aukio” is from the work “*Sphinx or Robot*” <[http://www.jus.uio.no/sisu/sphinx\\_or\\_robot.leena\\_krohn.1996](http://www.jus.uio.no/sisu/sphinx_or_robot.leena_krohn.1996)> which is included as a book example in this section, together with another of the author's works, “*Tainaron*” <[http://www.jus.uio.no/sisu/tainaron.leena\\_krohn.1998](http://www.jus.uio.no/sisu/tainaron.leena_krohn.1998)>

<sup>19</sup><[http://www.sisudoc.org/sisu/the\\_wealth\\_of\\_networks.yochai\\_benkler/sisu\\_manifest.html](http://www.sisudoc.org/sisu/the_wealth_of_networks.yochai_benkler/sisu_manifest.html)>

html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

## “Two Bits”, Christopher Kelty

601

602

“Two Bits”, Christopher Kelty

document manifest <sup>20</sup>

html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)

<sup>20</sup><[http://www.sisudoc.org/sisu/two\\_bits.christopher\\_kelty/sisu\\_manifest.html](http://www.sisudoc.org/sisu/two_bits.christopher_kelty/sisu_manifest.html)>

markup source text  
 markup source (zipped) pod

603 **“Free Culture”, Lawrence Lessig**

604

“Free Culture”, Lawrence Lessig  
 document manifest <sup>21</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

605 **“Free as in Freedom: Richard Stallman's Crusade for  
 Free Software”, by Sam Williams**

606

“Free as in Freedom: Richard Stallman's Crusade for Free Software”, by  
 Sam Williams  
 document manifest <sup>22</sup>  
 html, segmented text

<sup>21</sup>[http://www.sisudoc.org/sisu/free\\_culture.lawrence\\_lessig/sisu\\_manifest.html](http://www.sisudoc.org/sisu/free_culture.lawrence_lessig/sisu_manifest.html)

<sup>22</sup>[http://www.sisudoc.org/sisu/free\\_as\\_in\\_freedom.richard\\_stallman\\_crusade\\_for\\_free\\_software.sam\\_williams/sisu\\_manifest.html](http://www.sisudoc.org/sisu/free_as_in_freedom.richard_stallman_crusade_for_free_software.sam_williams/sisu_manifest.html)

html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

**“Free For All: How Linux and the Free Software  
 Movement Undercut the High Tech Titans”, by Peter  
 Wayner**

607

608

“Free For All: How Linux and the Free Software Movement Undercut the  
 High Tech Titans”, by Peter Wayner  
 document manifest <sup>23</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8

<sup>23</sup>[http://www.sisudoc.org/sisu/free\\_for\\_all.peter\\_wayner/sisu\\_manifest.html](http://www.sisudoc.org/sisu/free_for_all.peter_wayner/sisu_manifest.html)

concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

609 **“The Cathedral and the Bazaar”, by Eric S.  
 Raymond**

610 “The Cathedral and the Bazaar”, by Eric S. Raymond

document manifest <sup>24</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

611 **“Accelerando”, Charles Stross**

612 “Accelerando”, Charles Stross

document manifest <sup>25</sup>

<sup>24</sup>[http://www.sisudoc.org/sisu/the\\_cathedral\\_and\\_the\\_bazaar.eric\\_s\\_raymond/sisu\\_manifest.html](http://www.sisudoc.org/sisu/the_cathedral_and_the_bazaar.eric_s_raymond/sisu_manifest.html)

<sup>25</sup>[http://www.sisudoc.org/sisu/accelerando.charles\\_stross/sisu\\_manifest.html](http://www.sisudoc.org/sisu/accelerando.charles_stross/sisu_manifest.html)

html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

**“Tainaron”, Leena Krohn**

“Tainaron”, Leena Krohn

document manifest <sup>26</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)

<sup>26</sup>[http://www.sisudoc.org/sisu/tainaron.leena\\_krohn.1998/sisu\\_manifest.html](http://www.sisudoc.org/sisu/tainaron.leena_krohn.1998/sisu_manifest.html)

613

614

markup source text  
 markup source (zipped) pod

615 **“Sphinx or Robot”, Leena Krohn**



616  
 617 “Sphinx or Robot”, Leena Krohn

document manifest <sup>27</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

618 **“War and Peace”, Leo Tolstoy, PG Etext 2600**

619 “War and Peace”, Leo Tolstoy <sup>28</sup>

<sup>27</sup>[http://www.sisudoc.org/sisu/sphinx\\_or\\_robot.leena\\_krohn.1996/sisu\\_manifest.html](http://www.sisudoc.org/sisu/sphinx_or_robot.leena_krohn.1996/sisu_manifest.html)

<sup>28</sup>[http://www.jus.uio.no/sisu/war\\_and\\_peace.leo\\_tolstoy/toc.html](http://www.jus.uio.no/sisu/war_and_peace.leo_tolstoy/toc.html)

The ascii text was taken from Project Gutenberg. The markup transforms

document manifest <sup>29</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax

required are trivial. Of interest, in this instance I am saved by having alternative syntaxes/(structural modes) for marking up endnotes... as it was possible to do a simple search and replace to make the Project Gutenberg ascii presentation suitable for **SiSU**, using the older endnote markup style. This example instructs the program to use regular expressions, in this example the words: none; none; BOOK|FIRST|SECOND; CHAPTER; occurring at the beginning of a line, to identify what should be treated as different levels of heading in a document (and used to make the table of contents). Note that there was very little markup required after the document headers and Project Gutenberg legal notices. As I presume the legal notices are similar in Project Gutenberg documents, (and I could not bear to think of preparing the same legal notices twice), I moved those to the “skin” for the Project, and these are now represented in the markup by :insert1> and :insert2> and the legal notices are available for similar insertion into the next Project Gutenberg text prepared for **SiSU**, should there be one. I did a stylesheet/skin for the Gutenberg Project, ... I may have to remove. The markup transforms required are trivial. Of interest, in this instance I am saved by having alternative syntaxes/(structural modes) for marking up endnotes... as it is possible to do a simple search and replace to make Project Gutenberg ascii presentations suitable for **SiSU** using the older endnote markup style. There is very little markup required after the document headers and Project Gutenberg legal notices. As I presume the legal notices are similar in Project Gutenberg documents, (and I could not bear to think of preparing the same legal notices twice), I moved those to the “skin” for the Project, and these are now represented in the markup by the :insert1> and :insert2> markers and the legal notices are available for similar insertion into the next Project Gutenberg text prepared for **SiSU**, should there be one.

<sup>29</sup>[http://www.sisudoc.org/sisu/war\\_and\\_peace.leo\\_tolstoy/sisu\\_manifest.html](http://www.sisudoc.org/sisu/war_and_peace.leo_tolstoy/sisu_manifest.html)

xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

620 **“Don Quixote”, Miguel de Cervantes [Saavedra],  
 translated by John Ormsby, PG Etext 996**

621 “Don Quixote”, Miguel de Cervantes [Saavedra]  
 document manifest <sup>30</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

622 **“Gulliver's Travels”, Jonathan Swift, transcribed from  
 the 1892 George Bell and Sons edition by David  
 Price, PG Etext 829**

623 “Gulliver's Travels”, Jonathan Swift  
<sup>30</sup><[http://www.sisudoc.org/sisu/don\\_quixote.miguel\\_de\\_cervantes/sisu\\_manifest.html](http://www.sisudoc.org/sisu/don_quixote.miguel_de_cervantes/sisu_manifest.html)>

document manifest <sup>31</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

**“Alice's Adventures in Wonderland”, Lewis Carroll,  
 PG Etext 11**

624  
 625

“Alice's Adventures in Wonderland”, Lewis Carroll  
 document manifest <sup>32</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax

<sup>31</sup><[http://www.sisudoc.org/sisu/gullivers\\_travels.jonathan\\_swift/sisu\\_manifest.html](http://www.sisudoc.org/sisu/gullivers_travels.jonathan_swift/sisu_manifest.html)>

<sup>32</sup><[http://www.sisudoc.org/sisu/alices\\_adventures\\_in\\_wonderland.lewis\\_carroll/sisu\\_manifest.html](http://www.sisudoc.org/sisu/alices_adventures_in_wonderland.lewis_carroll/sisu_manifest.html)>

	xml, dom	628	<b><i>“Alice's Adventures in Wonderland” and “Through The Looking-Glass”, Lewis Carroll, PG Etexts 11 and 12</i></b>	
	plain text utf-8			
	concordance	629		
	dcc, document content certificate (digests)		“Alice's Adventures in Wonderland” and “Through The Looking-Glass”, Lewis Carroll	
	markup source text		document manifest <sup>34</sup>	
	markup source (zipped) pod		html, segmented text	
			html, scroll, document in one	
626	<b><i>“Through The Looking-Glass”, Lewis Carroll, PG Etext 12</i></b>		pdf, landscape	
627			pdf, portrait	
	“Through The Looking-Glass”, Lewis Carroll		odf:odt, open document text	
	document manifest <sup>33</sup>		xhtml scroll	
	html, segmented text		xml, sax	
	html, scroll, document in one		xml, dom	
	pdf, landscape		plain text utf-8	
	pdf, portrait		concordance	
	odf:odt, open document text		dcc, document content certificate (digests)	
	xhtml scroll		markup source text	
	xml, sax		markup source (zipped) pod	
	xml, dom			
	plain text utf-8		<b><i>“Gnu Public License 2”, (GPL 2) Free Software Foundation</i></b>	630
	concordance			631
	dcc, document content certificate (digests)		“Gnu Public License 2”, (GPL 2) Free Software Foundation	
	markup source text		document manifest <sup>35</sup>	
	markup source (zipped) pod		html, segmented text	
			html, scroll, document in one	
			<sup>33</sup> <a href="http://www.sisudoc.org/sisu/through_the_looking_glass.lewis_carroll/sisu_manifest.html">http://www.sisudoc.org/sisu/through_the_looking_glass.lewis_carroll/sisu_manifest.html</a>	
			<sup>34</sup> <a href="http://www.sisudoc.org/sisu/alices_adventures_in_wonderland_and_through_the_looking_glass.lewis_carroll/sisu_manifest.html">http://www.sisudoc.org/sisu/alices_adventures_in_wonderland_and_through_the_looking_glass.lewis_carroll/sisu_manifest.html</a>	
			<sup>35</sup> <a href="http://www.sisudoc.org/sisu/gpl2.fsf/sisu_manifest.html">http://www.sisudoc.org/sisu/gpl2.fsf/sisu_manifest.html</a>	

pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

632 **“Gnu Public License v3 - Third discussion draft”,**  
 633 **(GPLv3) Free Software Foundation**

“Gnu Public License 3 - Third discussion draft”, (GPL v3 draft3) Free Software Foundation

document manifest <sup>36</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

<sup>36</sup>[http://www.sisudoc.org/sisu/gpl3\\_draft3.fsf/sisu\\_manifest.html](http://www.sisudoc.org/sisu/gpl3_draft3.fsf/sisu_manifest.html)

**“Debian Social Contract”**

634  
635

“Debian Social Contract”  
 document manifest <sup>37</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

**“Debian Constitution v1.3”, (simple/default markup)**

636  
637

“Debian Constitution v1.3”  
 document manifest <sup>38</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text

<sup>37</sup>[http://www.sisudoc.org/sisu/debian\\_social\\_contract\\_v1.1/sisu\\_manifest.html](http://www.sisudoc.org/sisu/debian_social_contract_v1.1/sisu_manifest.html)

<sup>38</sup>[http://www.sisudoc.org/sisu/debian\\_constitution\\_v1.3/sisu\\_manifest.html](http://www.sisudoc.org/sisu/debian_constitution_v1.3/sisu_manifest.html)

xhtml scroll

xml, sax

xml, dom

plain text utf-8

concordance

dcc, document content certificate (digests)

markup source text

markup source (zipped) pod

638 **“Debian Constitution v1.3”, (markup adjusted for  
output to more closely match the original)**

639

“Debian Constitution v1.3”, (markup adjusted for output to more closely match the original)

document manifest <sup>39</sup>

html, segmented text

html, scroll, document in one

pdf, landscape

pdf, portrait

odf:odt, open document text

xhtml scroll

xml, sax

xml, dom

plain text utf-8

concordance

dcc, document content certificate (digests)

markup source text

markup source (zipped) pod

640 **“Debian Constitution v1.2”, (simple/default  
markup)**

“Debian Constitution v1.2 (more translations)”

document manifest <sup>40</sup>

html, segmented text

html, scroll, document in one

pdf, landscape

pdf, portrait

odf:odt, open document text

xhtml scroll

xml, sax

xml, dom

plain text utf-8

concordance

dcc, document content certificate (digests)

markup source text

markup source (zipped) pod

**“Debian Constitution v1.2”, (markup adjusted for  
output to more closely match the original)**

641

642

643

“Debian Constitution (more translations)”, (markup adjusted for output to more closely match the original)

document manifest <sup>41</sup>

html, segmented text

html, scroll, document in one

<sup>39</sup>[http://www.sisudoc.org/sisu/debian\\_constitution\\_v1.3.adjusted/sisu\\_manifest.html](http://www.sisudoc.org/sisu/debian_constitution_v1.3.adjusted/sisu_manifest.html)

<sup>40</sup>[http://www.sisudoc.org/sisu/debian\\_constitution\\_v1.2/sisu\\_manifest.html](http://www.sisudoc.org/sisu/debian_constitution_v1.2/sisu_manifest.html)

<sup>41</sup>[http://www.sisudoc.org/sisu/debian\\_constitution\\_v1.2.adjusted/sisu\\_manifest.html](http://www.sisudoc.org/sisu/debian_constitution_v1.2.adjusted/sisu_manifest.html)

pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

644 **“A Uniform Sales Terminology”, Vikki Rogers and**  
 645 **Albert Kritzer**

“A Uniform Sales Terminology”, Vikki Rogers and Albert Kritzer  
 document manifest <sup>42</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

<sup>42</sup>[http://www.sisudoc.org/sisu/a\\_uniform\\_international\\_sales\\_terminology.vikki\\_rogers.and.albert\\_kritzer/sisu\\_manifest.html](http://www.sisudoc.org/sisu/a_uniform_international_sales_terminology.vikki_rogers.and.albert_kritzer/sisu_manifest.html)

**“The Autonomous Contract” 1997 - markup**  
**sample**

646

647

“The Autonomous Contract” 1997 - markup sample  
 document manifest <sup>43</sup>  
 html, segmented text  
 html, scroll, document in one  
 pdf, landscape  
 pdf, portrait  
 odf:odt, open document text  
 xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

**“The Autonomous Contract Revisited” - markup**  
**sample**

648

649

“The Autonomous Contract Revisited” - markup sample <sup>44</sup>

<sup>43</sup>[http://www.sisudoc.org/sisu/the\\_autonomous\\_contract.amissah.19970710/sisu\\_manifest.html](http://www.sisudoc.org/sisu/the_autonomous_contract.amissah.19970710/sisu_manifest.html)

<sup>44</sup>[http://www.jus.uio.no/sisu/autonomy\\_markup0/toc.html](http://www.jus.uio.no/sisu/autonomy_markup0/toc.html) alternative markup variations revolving around endnotes (i) as above, markup with embedded endnotes, and header list of words/phrases to emphasise  
[http://www.jus.uio.no/sisu/sample/syntax/autonomy\\_markup0.sst.html](http://www.jus.uio.no/sisu/sample/syntax/autonomy_markup0.sst.html)  
[http://www.jus.uio.no/sisu/sample/markup/autonomy\\_markup0.sst](http://www.jus.uio.no/sisu/sample/markup/autonomy_markup0.sst) (ii)  
 Again markup with embedded endnotes, but font faces changed within paragraphs rather than in header as in i  
[http://www.jus.uio.no/sisu/sample/syntax/autonomy\\_markup1.sst.html](http://www.jus.uio.no/sisu/sample/syntax/autonomy_markup1.sst.html)  
[http://www.jus.uio.no/sisu/sample/markup/autonomy\\_markup1.sst](http://www.jus.uio.no/sisu/sample/markup/autonomy_markup1.sst) (iii)

document manifest <sup>45</sup>

html, segmented text

html, scroll, document in one

pdf, landscape

pdf, portrait

odf:odt, open document text

xhtml scroll

xml, sax

xml, dom

plain text utf-8

concordance

dcc, document content certificate (digests)

markup source text

markup source (zipped) pod

document manifest <sup>47</sup>

html, segmented text

html, scroll, document in one

pdf, landscape

pdf, portrait

odf:odt, open document text

xhtml scroll

xml, sax

xml, dom

plain text utf-8

concordance

dcc, document content certificate (digests)

markup source text

markup source (zipped) pod

650 ***“United Nations Convention on Contracts for the***  
 651 ***International Sale of Goods”***

“United Nations Convention on Contracts for the International Sale of Goods” <sup>46</sup>

Markup with endnote placemarks within paragraphs, the endnotes following the paragraph that contains them

<[http://www.jus.uio.no/sisu/sample/syntax/autonomy\\_markup2.sst.html](http://www.jus.uio.no/sisu/sample/syntax/autonomy_markup2.sst.html)>

<[http://www.jus.uio.no/sisu/sample/markup/autonomy\\_markup2.sst](http://www.jus.uio.no/sisu/sample/markup/autonomy_markup2.sst)> (iv)

Another alternative is to place the marked up endnotes sequentially and at the end of the text. This also works. The paragraph variant iii is perhaps easier to visually check should there be missing endnotes; but this variant iv may better suit the conversion of alternatively pre-prepared documents.

<sup>45</sup><[http://www.sisudoc.org/sisu/autonomy\\_markup0/sisu\\_manifest.html](http://www.sisudoc.org/sisu/autonomy_markup0/sisu_manifest.html)>

<sup>46</sup><[http://www.jus.uio.no/sisu/un\\_contracts\\_international\\_sale\\_of\\_goods\\_convention\\_1980/toc.html](http://www.jus.uio.no/sisu/un_contracts_international_sale_of_goods_convention_1980/toc.html)> This example instructs the program to use regular expressions, in this example the words: Part, Chapter, Section, Article occurring at the beginning of a line, to identify what should be treated as different levels of heading in a document (and used to make the table of contents). This example instructs the program to use

***PECL the “Principles of European Contract Law”***

652

653

“Principles of European Contract Law”

document manifest <sup>48</sup>

html, segmented text

html, scroll, document in one

pdf, landscape

pdf, portrait

odf:odt, open document text

regular expressions, in this example the words: Part, Chapter, Section, Article occurring at the beginning of a line, to identify what should be treated as different levels of heading in a document (and used to make the table of contents).

<sup>47</sup><[http://www.sisudoc.org/sisu/un\\_contracts\\_international\\_sale\\_of\\_goods\\_convention\\_1980/sisu\\_manifest.html](http://www.sisudoc.org/sisu/un_contracts_international_sale_of_goods_convention_1980/sisu_manifest.html)>

<sup>48</sup><[http://www.sisudoc.org/sisu/eu\\_contract\\_principles\\_parts\\_1\\_to\\_3\\_2002/sisu\\_manifest.html](http://www.sisudoc.org/sisu/eu_contract_principles_parts_1_to_3_2002/sisu_manifest.html)>

xhtml scroll  
 xml, sax  
 xml, dom  
 plain text utf-8  
 concordance  
 dcc, document content certificate (digests)  
 markup source text  
 markup source (zipped) pod

### 654 21.3 SQL - PostgreSQL, SQLite

655 A Sample search form is available at <http://search.sisudoc.org>

656 A few canned searches, showing object numbers. Search for:

657 [English documents matching Linux OR Debian](#)  
 658 [GPL OR Richard Stallman](#)  
 659 [invention OR innovation in English language](#)  
 660 [copyright in English language documents](#)

661 Note that the searches done in this form are case sensitive.

662 Expand those same searches, showing the matching text in each document:

663 [English documents matching Linux OR Debian](#)  
 664 [GPL OR Richard Stallman](#)  
 665 [invention OR innovation in English language](#)  
 666 [copyright in English language documents](#)

667 Note you may set results either for documents matched and object number locations within each matched document meeting the search criteria; or display the names of the documents

matched along with the objects (paragraphs) that meet the search criteria.<sup>49</sup>

### 21.4 Lex Mercatoria as an example 668

There is quite a bit to peruse if you explore the site Lex Mercatoria: 669

<http://www.lexmercatoria.org/><sup>50</sup> 670

or perhaps: 671

<http://lexmercatoria.org/treaties.and.organisations/lm.chronological><sup>51</sup> 672

### 21.5 For good measure the markup for a document with lots of (simple) tables 673

SiSU is not optimised for table making, but does handle simple tables. 674

- [SiSU marked up file with tables](#)<sup>52</sup> 675
- [Output of table file example](#)<sup>53</sup> 676

<sup>49</sup>of this feature when demonstrated to an IBM software innovations evaluator in 2004 he said to paraphrase: this could be of interest to us. We have large document management systems, you can search hundreds of thousands of documents and we can tell you which documents meet your search criteria, but there is no way we can tell you without opening each document where within each your matches are found.

<sup>50</sup><http://www.jus.uio.no/lm/index>

<sup>51</sup><http://www.jus.uio.no/lm/treaties.and.organisations/lm.chronological>

<sup>52</sup>[http://www.jus.uio.no/sisu/sample/syntax/un\\_conventions\\_membership\\_status.sst.html](http://www.jus.uio.no/sisu/sample/syntax/un_conventions_membership_status.sst.html)

<sup>53</sup>[http://www.jus.uio.no/sisu/sample/markup/un\\_conventions\\_membership\\_status.sst](http://www.jus.uio.no/sisu/sample/markup/un_conventions_membership_status.sst)

<sup>53</sup>[http://www.jus.uio.no/lm/un\\_conventions\\_membership\\_status/toc.html](http://www.jus.uio.no/lm/un_conventions_membership_status/toc.html)

677 **21.6 And a link to the output of a reported case**

678 <http://www.jus.uio.no/lm/england.fothergill.v.monarch.airlines.hl.1980/toc.html>>

**22. A Checklist of Output Features**

679

This table gives an indication of the features that are available for various forms of output of SiSU .<sup>54</sup>

681

feature	txt	ltx/pdf	HTML	XHTML	XML/s	XML/d	ODF	SQLite	pgSQL
headings	*	*	*	*	*	*	*	*	*
footnotes	*	*	*	*	*	*	*	*	*
bold,	.	*	*	*	*	*	*	*	*
under-score,									
italics									
strikethrough		*	*	*	*	*	*		
superscript,		*	*	*	*	*	*		
sub-script									
extended	*	*	*	*	*	*	*		*
ascii set									
(utf-8)									
indents	*	*	*	*	*	*	*		
bullets	.	*	*	*	*	*	.		
groups									
* tables		*	*	.	.	.	.	.	.
* poem	*	*	*	.	.	.	*	.	.
* code	*	*	*	.	.	.	*	.	.
url	*	*	*	*	*	*	*	.	.
links	*	*	*	*	*	*	*	.	.
images	-	*	*	T	T	T	*	T	T
image	-	*	*						
caption									
table		*	*	*	*	*	.		
of contents									
page	-	*	*	*	*	*	t		
header/footer?	*	*	*	*	*	*	*		
line									
break									
page		*					*		
break									
segments			*						
skins	*	*	*	*	*	*			
ocn	.	*	*	*	*	*	-?	*	*
auto-heading	*	*	*	*	*	*	*	*	*
numbers									
minor	*	*	*	*	*	*	*	*	*
list									
numbering									
special	.	.	.						
characters									

682

Done

<sup>54</sup>updated for sisu-0.36.6 on 2006-01-23

\* yes/done  
 . partial  
 - not available/appropriate  
 Not Done  
 T task todo  
 t lesser task/todo  
 not done

### 23. SiSU Search - Introduction

683

**SiSU** output can easily and conveniently be indexed by a number of standalone indexing tools, such as Lucene, Hyperestraier. 684

Because the document structure of sites created is clearly defined, and the text object citation system is available hypothetically at least, for all forms of output, it is possible to search the sql database, and either read results from that database, or just as simply map the results to the html output, which has richer text markup. 685

In addition to this **SiSU** has the ability to populate a relational sql type database with documents at an object level, with objects numbers that are shared across different output types, which make them searchable with that degree of granularity. Basically, your match criteria is met by these documents and at these locations within each document, which can be viewed within the database directly or in various output formats. 686

687 **24. SQL**688 **24.1 populating SQL type databases**

689 **SiSU** feeds `sisu` markupd documents into `sql` type databases  
 PostgreSQL<sup>55</sup> and/or SQLite<sup>56</sup> database together with information  
 related to document structure.

690 This is one of the more interesting output forms, as all the structural  
 data of the documents are retained (though can be ignored  
 by the user of the database should they so choose). All site  
 texts/documents are (currently) streamed to four tables:

- 691 • one containing semantic (and other) headers, including,  
 title, author, subject, (the Dublin Core...);
- 692 • another the substantive texts by individual “paragraph”  
 (or object) - along with structural information, each para-  
 graph being identifiable by its paragraph number (if it has  
 one which almost all of them do), and the substantive text  
 of each paragraph quite naturally being searchable (both  
 in formatted and clean text versions for searching); and
- 693 • a third containing endnotes cross-referenced back to the  
 paragraph from which they are referenced (both in format-  
 ted and clean text versions for searching).
- 694 • a fourth table with a one to one relation with the headers  
 table contains full text versions of output, eg. pdf, html,  
 xml, and ascii.

695 There is of course the possibility to add further structures.

696 At this level **SiSU** loads a relational database with documents

<sup>55</sup> <<http://www.postgresql.org/>>

<<http://advocacy.postgresql.org/>>

<<http://en.wikipedia.org/wiki/Postgresql>>

<sup>56</sup> <<http://www.hwaci.com/sw/sqlite/>>

<<http://en.wikipedia.org/wiki/Sqlite>>

chunked into objects, their smallest logical structurally con-  
 stituent parts, as text objects, with their object citation number  
 and all other structural information needed to construct the  
 document. Text is stored (at this text object level) with and  
 without elementary markup tagging, the stripped version being  
 so as to facilitate ease of searching.

Being able to search a relational database at an object level  
 with the **SiSU** citation system is an effective way of locating  
 content generated by **SiSU**. As individual text objects of a  
 document stored (and indexed) together with object numbers,  
 and all versions of the document have the same numbering,  
 complex searches can be tailored to return just the locations  
 of the search results relevant for all available output formats,  
 with live links to the precise locations in the database or in  
 html/xml documents; or, the structural information provided  
 makes it possible to search the full contents of the database and  
 have headings in which search content appears, or to search only  
 headings etc. (as the Dublin Core is incorporated it is easy to  
 make use of that as well).

698 **25. Postgresql**699 **25.1 Name**

700 **SiSU** - Structured information, Serialized Units - a document  
publishing system, postgresql dependency package

701 **25.2 Description**

702 Information related to using postgresql with sisu (and related  
to the sisu\_postgresql dependency package, which is a dummy  
package to install dependencies needed for **SiSU** to populate a  
postgresql database, this being part of **SiSU** - man sisu).

703 **25.3 Synopsis**

704 `sisu -D [instruction] [filename/wildcard if required]`

705 `sisu -D --pg --[instruction] [filename/wildcard if required]`

706 **25.4 Commands**

707 Mappings to two databases are provided by default, postgresql  
and sqlite, the same commands are used within sisu to construct  
and populate databases however -d (lowercase) denotes sqlite  
and -D (uppercase) denotes postgresql, alternatively --sqlite or  
--pgsql may be used

708 **-D or --pgsql** may be used interchangeably.

709 **25.4.1 create and destroy database**710 **--pgsql --createall**

initial step, creates required relations (tables, indexes) in exist-  
ing (postgresql) database (a database should be created man-

ually and given the same name as working directory, as re-  
quested) (rb.dbi)

**sisu -D --createdb**

711

creates database where no database existed before

**sisu -D --create**

712

creates database tables where no database tables existed be-  
fore

**sisu -D --Dropall**

713

destroys database (including all its content)! kills data and  
drops tables, indexes and database associated with a given di-  
rectory (and directories of the same name).

**sisu -D --recreate**

714

destroys existing database and builds a new empty database  
structure

**25.4.2 import and remove documents**

715

**sisu -D --import -v [filename/wildcard]**

716

populates database with the contents of the file. Imports  
documents(s) specified to a postgresql database (at an object  
level).

**sisu -D --update -v [filename/wildcard]**

717

updates file contents in database

**sisu -D --remove -v [filename/wildcard]**

718

removes specified document from postgresql database.

719 **26. Sqlite**720 **26.1 Name**

721 **SiSU** - Structured information, Serialized Units - a document  
publishing system.

722 **26.2 Description**

723 Information related to using sqlite with sisu (and related to the  
sisu\_sqlite dependency package, which is a dummy package to  
install dependencies needed for **SiSU** to populate an sqlite  
database, this being part of **SiSU** - man sisu).

724 **26.3 Synopsis**

725 sisu -d [instruction] [filename/wildcard if required]  
726 sisu -d --(sqlite|pg) --[instruction] [filename/wildcard if re-  
quired]

727 **26.4 Commands**

728 Mappings to two databases are provided by default, postgresql  
and sqlite, the same commands are used within sisu to construct  
and populate databases however -d (lowercase) denotes sqlite  
and -D (uppercase) denotes postgresql, alternatively --sqlite or  
--pgsql may be used

729 **-d** or **--sqlite** may be used interchangeably.

730 **26.4.1 create and destroy database**731 **--sqlite --createall**

initial step, creates required relations (tables, indexes) in exist-  
ing (sqlite) database (a database should be created manually

and given the same name as working directory, as requested)  
(rb.dbi)

**sisu -d --createdb** 732

creates database where no database existed before

**sisu -d --create** 733

creates database tables where no database tables existed be-  
fore

**sisu -d --dropall** 734

destroys database (including all its content)! kills data and  
drops tables, indexes and database associated with a given di-  
rectory (and directories of the same name).

**sisu -d --recreate** 735

destroys existing database and builds a new empty database  
structure

**26.4.2 import and remove documents** 736**sisu -d --import -v [filename/wildcard]** 737

populates database with the contents of the file. Imports  
documents(s) specified to an sqlite database (at an object  
level).

**sisu -d --update -v [filename/wildcard]** 738

updates file contents in database

**sisu -d --remove -v [filename/wildcard]** 739

removes specified document from sqlite database.

## 740 27. Introduction

### 741 27.1 Search - database frontend sample, utilising database and SiSU features, including object citation numbering (backend currently PostgreSQL)

742 [Sample search frontend](#) <sup>57</sup> A small database and sample  
query front-end (search from) that makes use of the ci-  
tation system, [object citation numbering](#) to demonstrates  
functionality.<sup>58</sup>

743 **SiSU** can provide information on which documents are  
matched and at what locations within each document the  
matches are found. These results are relevant across all outputs  
using object citation numbering, which includes html, XML,  
LaTeX, PDF and indeed the SQL database. You can then refer  
to one of the other outputs or in the SQL database expand the  
text within the matched objects (paragraphs) in the documents  
matched.

744 Note you may set results either for documents matched and  
object number locations within each matched document meet-  
ing the search criteria; or display the names of the documents  
matched along with the objects (paragraphs) that meet the  
search criteria.<sup>59</sup>

#### 745 **sisu -F --webserv-webrick**

builds a cgi web search frontend for the database created

<sup>57</sup><http://search.sisudoc.org>

<sup>58</sup>(which could be extended further with current back-end). As regards  
scaling of the database, it is as scalable as the database (here PostgreSQL)  
and hardware allow.

<sup>59</sup>of this feature when demonstrated to an IBM software innovations  
evaluator in 2004 he said to paraphrase: this could be of interest to us.  
We have large document management systems, you can search hundreds  
of thousands of documents and we can tell you which documents meet  
your search criteria, but there is no way we can tell you without opening  
each document where within each your matches are found.

The following is feedback on the setup on a machine provided  
by the help command: 746

```
sisu --help sql 747
Postgresql 748
user: ralph
current db set: SiSU_sisu
port: 5432
dbi connect: DBI:Pg:database=SiSU_sisu;port=5432
sqlite
current db set: /home/ralph/sisu_www/sisu/sisu_sqlite.db
dbi connect DBI:SQLite:/home/ralph/sisu_www/sisu/sisu_sqlite.db
```

Note on databases built 749

By default, [unless otherwise specified] databases are built on  
a directory basis, from collections of documents within that di-  
rectory. The name of the directory you choose to work from  
is used as the database name, i.e. if you are working in a di-  
rectory called /home/ralph/ebook the database SiSU\_ebook is  
used. [otherwise a manual mapping for the collection is neces-  
sary] 750

### 27.2 Search Form 751

#### **sisu -F** 752

generates a sample search form, which must be copied to the  
web-server cgi directory

#### **sisu -F --webserv-webrick** 753

generates a sample search form for use with the webrick server,  
which must be copied to the web-server cgi directory

#### **sisu -Fv** 754

as above, and provides some information on setting up hypere-  
straier

#### **sisu -W** 755

starts the webrick server which should be available wherever  
sisu is properly installed

756	The generated search form must be copied manually to the web-server directory as instructed	
	<b>28. Hyperestraier</b>	757
	See the documentation for hyperestraier:	758
	<code>&lt;<a href="http://hyperestraier.sourceforge.net/">http://hyperestraier.sourceforge.net/</a>&gt;</code>	759
	<code>/usr/share/doc/hyperestraier/index.html</code>	760
	<code>man estcmd</code>	761
	on <code>sisu_hyperestraier</code> :	762
	<code>man sisu_hyperestraier</code>	763
	<code>/usr/share/doc/sisu/sisu_markup/sisu_hyperestraier/index.html</code>	764
	NOTE: the examples that follow assume that <code>sisu</code> output is placed in the directory <code>/home/ralph/sisu_www</code>	765
	(A) to generate the index within the webserver directory to be indexed:	766
	<code>estcmd gather -sd [index name] [directory path to index]</code>	767
	the following are examples that will need to be tailored according to your needs:	768
	<code>cd /home/ralph/sisu_www</code>	769
	<code>estcmd gather -sd casket /home/ralph/sisu_www</code>	770
	you may use the <code>'find'</code> command together with <code>'egrep'</code> to limit indexing to particular document collection directories within the web server directory:	771
	<code>find /home/ralph/sisu_www -type f   egrep '/home/ralph/sisu_www/si</code> <code> estcmd gather -sd casket -</code>	772
	Check which directories in the <code>webserver/output</code> directory ( <code>/sisu_www</code> or elsewhere depending on configuration) you wish to include in the search index.	773
	As <code>sisu</code> duplicates output in multiple file formats, it is probably preferable to limit the <code>estraier</code> index to <code>html</code> output, and as it may also be desirable to exclude files <code>'plain.txt'</code> , <code>'toc.html'</code>	774

and `concordance.html', as these duplicate information held in other html output e.g.

```
775 find /home/ralph/sisu_www -type f | egrep ` /sisu_www/(sisu|bookmarks)/.+?.html$'
| egrep -v `(doc|concordance).html$' | estcmd gather -sd
casket -
```

776 from your current document preparation/markup directory, you would construct a rune along the following lines:

```
777 find /home/ralph/sisu_www -type f | egrep ` /home/ralph/sisu_www/([specify
first directory for inclusion]|[specify second directory for
inclusion]|[another directory for inclusion? ...])/.+?.html$'
| egrep -v `(doc|concordance).html$' | estcmd gather -sd
/home/ralph/sisu_www/casket -
```

778 (B) to set up the search form

779 (i) copy estseek.cgi to your cgi directory and set file permissions to 755:

```
780 sudo cp -vi /usr/lib/estraier/estseek.cgi /usr/lib/cgi-bin
781 sudo chmod -v 755 /usr/lib/cgi-bin/estseek.cgi
782 sudo cp -v /usr/share/hyperestraier/estseek.* /usr/lib/cgi-
bin
```

783 [see estraier documentation for paths]

784 (ii) edit estseek.conf, with attention to the lines starting `indexname:' and `replace:':

```
785 indexname: /home/ralph/sisu_www/casket
786 replace: ^file:///home/ralph/sisu_www {!} http://localhost
787 replace: /index.html?${{!}}/
```

788 (C) to test using webrick, start webrick:

```
789 sisu -W
```

790 and try open the url: `<http://localhost:8081/cgi-bin/estseek.cgi>`

## 29. sisu\_webrick 791

### 29.1 Name 792

**SiSU** - Structured information, Serialized Units - a document publishing system 793

### 29.2 Synopsis 794

sisu\_webrick [port] 795

or 796

sisu -W [port] 797

### 29.3 Description 798

sisu\_webrick is part of **SiSU** (man sisu) sisu\_webrick starts **Ruby** 's Webrick web-server and points it to the directories to which **SiSU** output is written, providing a list of these directories (assuming **SiSU** is in use and they exist). 799

The default port for sisu\_webrick is set to 8081, this may be modified in the yaml file: `/home/ralph/sisu/sisurc.yml` a sample of which is provided as `/etc/sisu/sisurc.yml` (or in the equivalent directory on your system). 800

### 29.4 Summary of man page 801

sisu\_webrick, may be started on it's own with the command: sisu\_webrick [port] or using the sisu command with the -W flag: sisu -W [port] 802

where no port is given and settings are unchanged the default port is 8081 803

## 29.5 Document processing command flags

805 `sisu -W [port]` starts **Ruby** Webrick web-server, serving **SiSU**  
output directories, on the port provided, or if no port is provided  
and the defaults have not been changed in `/.sisu/sisurc.yaml`  
then on port 8081

## 29.6 Further information

807 For more information on **SiSU** see: <http://www.jus.uio.no/sisu>  
808 or `man sisu`

## 29.7 Author

810 Ralph Amissah [ralph@amissah.com](mailto:ralph@amissah.com) or [ralph.amissah@gmail.com](mailto:ralph.amissah@gmail.com)

## 29.8 SEE ALSO

812 `sisu(1)`

813 `sisu_vim(7)`

814 `sisu(8)`

## 30. Remote Source Documents

815 **SiSU** processing instructions can be run against remote source  
816 documents by providing the url of the documents against which  
the processing instructions are to be carried out. The re-  
mote **SiSU** documents can either be `sisu` marked up files in  
plaintext `.sst` or `.ssm` or; zipped `sisu` files, `sisupod.zip` or `file-`  
`name.ssp`

### `.sst / .ssm - sisu text files`

817 **SiSU** can be run against source text files on a remote machine,  
818 provide the processing instruction and the url. The source file  
and any associated parts (such as images) will be downloaded  
and generated locally. 819

`sisu -3 http://[provide url to valid .sst or .ssm file]`

Any of the source documents in the `sisu` examples page can  
820 be used in this way, see <http://www.jus.uio.no/sisu/SiSU/examples.html>  
821 and use the url for the desired document.

NOTE: to set up a remote machine to serve **SiSU** documents  
822 in this way, images should be in the directory relative to the  
document source `../_sisu/image`

### `sisupod - zipped sisu files`

823 A `sisupod` is the zipped content of a `sisu` marked up text or  
824 texts and any other associated parts to the document such as  
images.

**SiSU** can be run against a `sisupod` on a (local or) remote  
825 machine, provide the processing instruction and the url, the  
`sisupod` will be downloaded and the documents it contains gen-  
erated locally.

`sisu -3 http://[provide url to valid sisupod.zip or .ssp file]`

Any of the source documents in the `sisu` examples page can  
826 be used in this way, see <http://www.jus.uio.no/sisu/SiSU/examples.html>  
and use the url for the desired document.

## 827 Remote Document Output

## 31. Remote Output 828

Once properly configured **SiSU** output can be automatically posted once generated to a designated remote machine using either rsync, or scp. 829

In order to do this some ssh authentication agent and keychain or similar tool will need to be configured. Once that is done the placement on a remote host can be done seamlessly with the -r (for scp) or -R (for rsync) flag, which may be used in conjunction with other processing flags, e.g. 830

```
sisu -3R sisu_remote.sst 831
```

## 31.1 commands 832

**-R [filename/wildcard]** 833

copies sisu output files to remote host using rsync. This requires that sisurc.yml has been provided with information on hostname and username, and that you have your “keys” and ssh agent in place. Note the behavior of rsync different if -R is used with other flags from if used alone. Alone the rsync --delete parameter is sent, useful for cleaning the remote directory (when -R is used together with other flags, it is not). Also see -r

**-r [filename/wildcard]** 834

copies sisu output files to remote host using scp. This requires that sisurc.yml has been provided with information on hostname and username, and that you have your “keys” and ssh agent in place. Also see -R

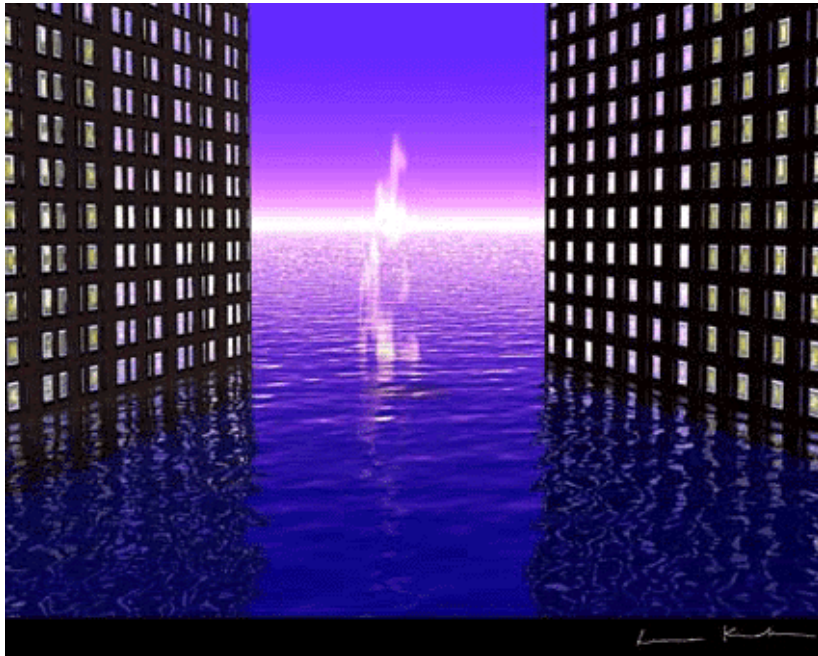
## 31.2 configuration 835

[expand on the setting up of an ssh-agent / keychain] 836

**837 32. Remote Servers**

838 As **SiSU** is generally operated using the command line, and works within a Unix type environment, **SiSU** the program and all documents can just as easily be on a remote server, to which you are logged on using a terminal, and commands and operations would be pretty much the same as they would be on your local machine.

839	<b>Download information</b>		
		<b>33. Download SiSU - Linux/Unix</b>	840
		<b>SiSU Current Version - Linux/Unix</b>	841
		<b>Source (tarball tar.gz)</b>	842
		Download the latest version of <b>SiSU</b> (and <b>SiSU</b> markup samples): <sup>60</sup>	843
		• <a href="http://www.jus.uio.no/sisu/pkg/src/sisu_0.70.0.orig.tar.gz">sisu_0.70.0.orig.tar.gz</a> (2008-12-03:48/3) <sup>61</sup>	844
		• <a href="http://www.jus.uio.no/sisu/pkg/src/sisu-markup-samples_1.0.10.orig.tar.gz">sisu-markup-samples_1.0.10.orig.tar.gz</a> (of 2008-10-09:40/4) <sup>62</sup>	845
		For installation notes see <a href="http://sisudoc.org/sisu/sisu_manual/installation.html">&lt;http://sisudoc.org/sisu/sisu_manual/installation.html&gt;</a>	846
		For more general use see <a href="http://sisudoc.org/sisu/sisu_manual">&lt;http://sisudoc.org/sisu/sisu_manual&gt;</a>	847
		For changelogs see <a href="http://www.jus.uio.no/sisu/SiSU/changelog.html">&lt;http://www.jus.uio.no/sisu/SiSU/changelog.html&gt;</a>	848
		<sup>60</sup> Breakage and Fixes Report < <a href="http://www.jus.uio.no/sisu/SiSU/breakage_and_fixes.html">http://www.jus.uio.no/sisu/SiSU/breakage_and_fixes.html</a> >	
		<sup>61</sup> < <a href="http://www.jus.uio.no/sisu/pkg/src/sisu_0.70.0.orig.tar.gz">http://www.jus.uio.no/sisu/pkg/src/sisu_0.70.0.orig.tar.gz</a> > 51e4d5c2ac3c490332d8468de2400abcf454b55ac1e21ec625680a346fb41e4a1540091	
		<sup>62</sup> < <a href="http://www.jus.uio.no/sisu/pkg/src/sisu-markup-samples_1.0.10.orig.tar.gz">http://www.jus.uio.no/sisu/pkg/src/sisu-markup-samples_1.0.10.orig.tar.gz</a> > 1e769b5c2c2d6135c3f5a14ede1d019f77588c7024168c756c7093510145c7dc3442966	



849

63

## 850 Git (source control management)

851 Git repository currently at:

- 852 • `git clone git://sisudoc.org/git/sisu/`
- 853 • `<http://search.sisudoc.org/cgi-bin/gitweb.cgi?p=sisu;a=summary>`

854 On using git, see

<sup>63</sup>Reproduced with the kind permission of author and artist Leena Krohn, <http://www.kaapeli.fi/krohn> Tulva is from the work Sphinx or Robot [http://www.jus.uio.no/sisu/sphinx\\_or\\_robot.leena\\_krohn.1996](http://www.jus.uio.no/sisu/sphinx_or_robot.leena_krohn.1996) other works available online include Tainaron [http://www.jus.uio.no/sisu/tainaron.leena\\_krohn.1998](http://www.jus.uio.no/sisu/tainaron.leena_krohn.1998), these two works can be found in the book sample section <http://www.jus.uio.no/sisu/SiSU/examples.html#sample>

**Git documentation:** Git User's Manual, <sup>64</sup> Everyday GIT <sup>855</sup> With 20 Commands Or So, <sup>65</sup> A tutorial introduction to git, <sup>66</sup> A tutorial introduction to git: part two <sup>67</sup>

**User contributed texts:** The Git Community Book, <sup>68</sup> Git <sup>856</sup> Magic, <sup>69</sup> Git From the Bottom Up (pdf) <sup>70</sup>

## Debian <sup>857</sup>

This section contains information on the latest **SiSU** release. <sup>858</sup>  
For installation notes see [http://sisudoc.org/sisu/sisu\\_manual/installation.html](http://sisudoc.org/sisu/sisu_manual/installation.html)

**SiSU** is updated fairly regularly in **Debian** testing and un- <sup>859</sup>stable, and should be available therefrom.

To add this archive, should you still choose to do so, add the <sup>860</sup> following lines to your `/etc/apt/sources.list` <sup>861</sup>

```
deb http://www.jus.uio.no/sisu/archive unstable main non-free
deb-src http://www.jus.uio.no/sisu/archive unstable main non-free 862
```

## Source

`sisu_0.70.0.orig.tar.gz` <sup>71</sup>

`sisu_0.70.0-1.diff.gz` <sup>72</sup>

`sisu_0.70.0-1.dsc` <sup>73</sup> <sup>863</sup>

<sup>64</sup><http://www.kernel.org/pub/software/scm/git/docs/user-manual.html>

<sup>65</sup><http://www.kernel.org/pub/software/scm/git/docs/everyday.html>

<sup>66</sup><http://www.kernel.org/pub/software/scm/git/docs/v1.4.4.4/tutorial.html>

<sup>67</sup><http://www.kernel.org/pub/software/scm/git/docs/v1.4.4.4/tutorial-2.html>

<sup>68</sup><http://book.git-scm.com/index.html>

<sup>69</sup><http://www-cs-students.stanford.edu/~blynn/gitmagic/>

<sup>70</sup>[http://www.newartisans.com/blog\\_assets/git.from.bottom.up.pdf](http://www.newartisans.com/blog_assets/git.from.bottom.up.pdf)

<sup>71</sup>[http://www.jus.uio.no/sisu/pkg/src/sisu\\_0.70.0.orig.tar.gz](http://www.jus.uio.no/sisu/pkg/src/sisu_0.70.0.orig.tar.gz)

<sup>72</sup>[http://www.jus.uio.no/sisu/pkg/src/sisu\\_0.70.0-1.diff.gz](http://www.jus.uio.no/sisu/pkg/src/sisu_0.70.0-1.diff.gz)

<sup>73</sup>[http://www.jus.uio.no/sisu/pkg/src/sisu\\_0.70.0-1.dsc](http://www.jus.uio.no/sisu/pkg/src/sisu_0.70.0-1.dsc)

19639ff718204575e66da774fa90a18644c964535c4a94ddc9d76651cac36539  
1159

**Debs**

[sisu\\_0.70.0-1\\_all.deb](#) <sup>74</sup>

[sisu-complete\\_0.70.0-1\\_all.deb](#) <sup>75</sup>

[sisu-pdf\\_0.70.0-1\\_all.deb](#) <sup>76</sup>

[sisu-postgresql\\_0.70.0-1\\_all.deb](#) <sup>77</sup>

[sisu-sqlite\\_0.70.0-1\\_all.deb](#) <sup>78</sup>

864 For changelogs see:

865 [<http://www.jus.uio.no/sisu/SiSU/changelog.html>](http://www.jus.uio.no/sisu/SiSU/changelog.html)

866 [<http://www.jus.uio.no/sisu/sisu\\_changelog/changelog.html>](http://www.jus.uio.no/sisu/sisu_changelog/changelog.html)

**non-free**

867 <sup>74</sup>[http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu\\_0.70.0-1\\_all.deb](http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu_0.70.0-1_all.deb)  
 sisu, the base code, (the main package on which the others depend),  
 without any dependencies other than ruby (and for convenience the ruby  
 webrick web server), this generates a number of types of output on its  
 own, other packages provide additional functionality, and have their  
 dependencies Depends: ruby (>=1.8.2), libwebrick-ruby Recommends:  
 sisu-pdf, sisu-sqlite, sisu-postgresql, sisu-examples, vim-sisu,  
 libmagick-ruby, trang, tidy, libtidy, libxml-ruby, zip, unzip, openssl  
<sup>75</sup>[http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-complete\\_0.70.0-1\\_all.deb](http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-complete_0.70.0-1_all.deb)  
 > a package that pulls in other packages to build the  
 whole of sisu (excluding sisu-examples) Depends: ruby (>=1.8.2), sisu,  
 sisu-pdf, sisu-postgresql, sisu-remote, sisu-sqlite, vim-sisu Recommends:  
 sisu-examples  
<sup>76</sup>[http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-pdf\\_0.70.0-1\\_all.deb](http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-pdf_0.70.0-1_all.deb)  
 > dependencies used by sisu to produce pdf from LaTeX  
 generated Depends: sisu, tetex-bin, tetex-extra, latex-ucs Suggests:  
 evince, xpdf  
<sup>77</sup>[http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-postgresql\\_0.70.0-1\\_all.deb](http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-postgresql_0.70.0-1_all.deb)  
 > dependencies used by sisu to populate  
 postgresql database (further configuration is necessary) Depends: sisu,  
 postgresql-8.1, libdbi-ruby, libdbm-ruby, libdbd-pg-ruby Suggests:  
 pgaccess, libdbd-pgsq, postgresql-contrib-8.1  
<sup>78</sup>[http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-sqlite\\_0.70.0-1\\_all.deb](http://www.jus.uio.no/sisu/archive/pool/main/s/sisu/sisu-sqlite_0.70.0-1_all.deb)  
 > dependencies used by sisu to populate sqlite database  
 Depends: sisu, sqlite, libdbi-ruby, libdbm-ruby, libdbd-sqlite-ruby  
 Suggests: libdbd-sqlite

868 Book markup samples have been moved to non-free as the sub-  
 869 stantive text of the documents are available under the author  
 or original publisher's license, and usually do not comply with  
 the **Debian** Free Software Guidelines.

- [sisu-markup-samples\\_1.0.10-1\\_all.deb](#) <sup>79</sup> 869
- [sisu-markup-samples\\_1.0.10-1.dsc](#) <sup>80</sup> 870

871 For changelogs see:

872 [<http://www.jus.uio.no/sisu/SiSU/changelog\\_markup\\_samples.html>](http://www.jus.uio.no/sisu/SiSU/changelog_markup_samples.html)

873 [<http://www.jus.uio.no/sisu/sisu\\_markup\\_samples\\_changelog/changelog\\_markup\\_samples.html>](http://www.jus.uio.no/sisu/sisu_markup_samples_changelog/changelog_markup_samples.html)

**RPM**

874  
 875 The RPM is generated from the source file using Alien.<sup>81</sup> De-  
 dependencies are not handled, not even that of the essential **Ruby**  
 .

- [sisu-0.70.0-2.noarch.rpm](#) <sup>82</sup> 876
- [sisu-markup-samples\\_1.0.10.orig-2.noarch.rpm](#) <sup>83</sup> 877

878 sudo rpm -i [package name]

<sup>79</sup>[http://www.jus.uio.no/sisu/archive/pool/non-free/s/sisu-markup-samples/sisu-markup-samples\\_1.0.10-1\\_all.deb](http://www.jus.uio.no/sisu/archive/pool/non-free/s/sisu-markup-samples/sisu-markup-samples_1.0.10-1_all.deb)  
 marked up documents and other examples related to sisu, a larger package  
 containing a number of texts

Depends: sisu

<sup>80</sup>[http://www.jus.uio.no/sisu/pkg/src/sisu-markup-samples\\_1.0.10-1.dsc](http://www.jus.uio.no/sisu/pkg/src/sisu-markup-samples_1.0.10-1.dsc)  
 1fd20f69634682feee7d7c2d0fe0e05c493ee83c199bc5370459f6ad9fb606de  
 1076 sisu-markup-samples\_1.0.10-1.dsc

<sup>81</sup><http://www.kitenet.net/programs/alien/>

<sup>82</sup><http://www.jus.uio.no/sisu/pkg/rpm/sisu-0.70.0-2.noarch.rpm>  
 ec1eeee22336b4c76fad1f3d06163a97dd0affd739bdc3e3cada89ebbd8f9ba7  
 untested, created using: alien -r sisu\_0.70.0-1\_all.deb

<sup>83</sup>[http://www.jus.uio.no/sisu/pkg/rpm/sisu-markup-samples\\_1.0.6](http://www.jus.uio.no/sisu/pkg/rpm/sisu-markup-samples_1.0.6)

---

orig-2.noarch.rpm>  
untested, created using alien

879	<b>Installation</b>	
	<b>34. Installation</b>	880
	See the <a href="#">download pages</a> <sup>84</sup> for information related to installation.	881
	<b>34.1 Debian</b>	882
	<b>SiSU</b> is developed on <b>Debian</b> , and packages are available for <b>Debian</b> that take care of the dependencies encountered on installation.	883
	The package is divided into the following components:	884
	<b>sisu</b> , the base code, (the main package on which the others depend), without any dependencies other than ruby (and for convenience the ruby webrick web server), this generates a number of types of output on its own, other packages provide additional functionality, and have their dependencies	885
	<b>sisu-complete</b> , a dummy package that installs the whole of greater sisu as described below, apart from sisu-examples	886
	<b>sisu-pdf</b> , dependencies used by sisu to produce pdf from LaTeX generated	887
	<b>sisu-postgresql</b> , dependencies used by sisu to populate postgresql database (further configuration is necessary)	888
	<b>sisu-remote</b> , dependencies used to place sisu output on a remote server (further configuration is necessary)	889
	<b>sisu-sqlite</b> , dependencies used by sisu to populate sqlite database	890
	<b>sisu-markup-samples</b> , sisu markup samples and other miscellany (under <b>Debian</b> Free Software Guidelines non-free)	891

---

<sup>84</sup><http://www.jus.uio.no/sisu/SiSU/download>  
[http://www.jus.uio.no/sisu/sisu\\_download](http://www.jus.uio.no/sisu/sisu_download)

892 **SiSU** is available off [Debian Unstable and Testing](#) <sup>85</sup> install  
it using apt-get, aptitude or alternative **Debian** install tools.  
893 **SiSU** is currently comprised of eight packages.

894 Initial packaging is done here and to get the latest version  
of **SiSU** available you may add the following line(s) to your  
sources list:

```
894 #/etc/apt/sources.list
894 deb http://www.jus.uio.no/sisu/archive unstable main non-free
894 deb-src http://www.jus.uio.no/sisu/archive unstable main non-free
```

895 The non-free section is for sisu markup samples provided, which  
contain authored works the substantive text of which cannot be  
changed, and which as a result do not meet the debian free  
software guidelines.

896 On **Debian** there is little more to know beyond how to install  
897 software on **Debian** using apt, aptitude or synaptic.

```
898 #Using aptitude:
898 aptitude update
898 aptitude install sisu-complete sisu-markup-samples
898 Using apt-get
898 apt-get update
898 apt get install sisu-complete sisu-examples
```

## 899 34.2 Other Unix / Linux

900 A source tarball or an rpms built using alien are available, (how-  
ever dependencies have not been tested). **SiSU** is first packaged  
and tested with dependency handling for **Debian** . <sup>86</sup> Infor-  
mation on dependencies configured for **Debian** is provided as  
this may be of assistance.

### 901 34.2.1 source tarball

#### 902 installation with provided install script

<sup>85</sup><http://packages.qa.debian.org/s/sisu.html>

<sup>86</sup>Notes on dependencies are provided in the section that follows

To install **SiSU** , in the root directory of the unpacked **SiSU** 903  
as root type:<sup>87</sup>

```
904 ruby install 904
```

905 Once installed see man 8 sisu for information on additional pro-  
grams that sisu makes use of.

906 Further notes on install script.

907 The install script is prepared using Rant, and a Rantfile is pro-  
vided,<sup>88</sup> with more comprehensive install options, and post in-  
stall and setup configuration and generation of first test file, if  
you have installed Stefan Lang's [Rant](#) <sup>89</sup> installed. While in  
the package directory, type: rant help, or rant -T, or to install  
**SiSU** as root, type:

**install** is an install script prepared using Stefan Lang's [Rant](#) 908  
<sup>90</sup> It should work whether you have previously installed Rant  
or not. It has fairly comprehensive install options, and can do  
some post install and setup configuration and generation of first  
test file. For options type:

```
909 ruby install -T 909
```

910 To install as root type:

```
911 ruby install 911
```

912 For a minimal install type:

```
913 ruby install base 913
```

#### 914 installation with setup.rb

915 [setup.rb](#) <sup>91</sup> is provided the package and will install **SiSU** <sup>92</sup>

<sup>87</sup>This makes use of rant and the provided Rantfile. Note however, that  
additional external package dependencies, such as tetex-extra are not  
taken care of for you.

<sup>88</sup>a Rantfile has been configured to do post installation setup  
<sup>89</sup><http://make.rubyforge.org/> <<http://make.rubyforge.org/>>  
<[http://rubyforge.org/frs/?group\\_id=615](http://rubyforge.org/frs/?group_id=615)>

<sup>90</sup><http://make.rubyforge.org/> <<http://make.rubyforge.org/>>  
<[http://rubyforge.org/frs/?group\\_id=615](http://rubyforge.org/frs/?group_id=615)>

installation is a 3 step process<sup>93</sup> the following string assumes you are in the package directory and that you have root as sudo:

```
916     ruby setup.rb config && ruby setup.rb setup && sudo ruby
      setup.rb install
```

### 917 **installation of rpm**

918 The RPM is generated from the source file using Alien.<sup>94</sup> Dependencies are not handled, not even that of the essential **Ruby**.

<sup>91</sup>[<http://i.loveruby.net/en/projects/setup/>](http://i.loveruby.net/en/projects/setup/)

<sup>92</sup>Minero Aoki

[<http://i.loveruby.net/en/projects/setup/doc/>](http://i.loveruby.net/en/projects/setup/doc/)

<sup>93</sup>Installation instructions

[<http://i.loveruby.net/en/projects/setup/doc/usage.html>](http://i.loveruby.net/en/projects/setup/doc/usage.html)

<sup>94</sup>[<http://www.kitenet.net/programs/alien/>](http://www.kitenet.net/programs/alien/)

## 35. SiSU Components, Dependencies and Notes 919

The dependency lists are from the **Debian** control file for **SiSU** version 0.36, and may assist in building **SiSU** on other distributions. 920

### 35.1 sisu 921

- the base code, (the main package on which the others depend), without any dependencies other than ruby (and for convenience the ruby webrick web server), this generates a number of types of output on its own, other packages provide additional functionality, and have their dependencies 922

**Depends:** on ruby (>=1.8.2), libwebrick-ruby 923

**Recommends:** sisu-pdf, sisu-sqlite, sisu-postgresql, sisu-examples, librmagick-ruby, trang, tidy, libtidy, librexml-ruby, zip, unzip, openssl 924

initialise directory 925

sisu -CC 926

html 927

sisu -hv [filename/wildcard] 928

sisu -Hv [filename/wildcard] 929

LaTeX (but sisu-pdf dependencies required to convert that to pdf) 930

sisu -pv [filename/wildcard] 931

plain text Unix with footnotes 932

sisu -av [filename/wildcard] 933

plain text Dos with footnotes 934

sisu -Av [filename/wildcard] 935

plain text Unix with endnotes 936

937	sisu -ev [filename/wildcard]	sisu -cv[and processing flags] [filename/wildcard]	962
938	plain text Dos with endnotes	verbose mode	963
939	sisu -Ev [filename/wildcard]	sisu -v[and processing flags] [filename/wildcard]	964
940	openoffice odt	sisu -V[and processing flags] [filename/wildcard]	965
941	sisu -ov [filename/wildcard]	quiet mode	966
942	xhtml	sisu -q[and processing flags] [filename/wildcard]	967
943	sisu -bv [filename/wildcard]	maintenance mode, intermediate files kept -M	968
944	XML SAX	sisu -Mv[and other flags] [filename/wildcard]	969
945	sisu -xv [filename/wildcard]	[the -v is for verbose]	970
946	XML DOM	start the webrick server	971
947	sisu -Xv [filename/wildcard]	sisu -W	972
948	wordmap (a rudimentary index of content)		
949	sisu -wv [filename/wildcard]	<b>35.2 sisu-complete</b>	973
950	document content certificate	• a dummy package that installs the whole <b>SiSU</b> , apart from	974
951	sisu -Nv [filename/wildcard]	sisu-examples	
952	placement of sourcefile in output directory	<b>Depends:</b> ruby (>=1.8.2), sisu, sisu-pdf, sisu-postgresql, sisu-	975
953	sisu -sv [filename/wildcard]	remote, sisu-sqlite	
954	creation of source tarball with images, and placement of source	<b>Recommends:</b> sisu-examples	976
955	tarball in ouput directory		
956	sisu -Sv [filename/wildcard]	<b>35.3 sisu-examples</b>	977
957	manifest of output produced (polls output directory and pro-	• installs sisu markup samples and other miscelleny	978
958	vides links to existing output)	<b>Depends:</b> sisu	979
959	sisu -yv [filename/wildcard]		
960	url for output files -u -U	<b>35.4 sisu-pdf</b>	980
961	sisu -uv[and other flags] [filename/wildcard]	• dependencies used by sisu to produce pdf from LaTeX gen-	981
	sisu -Uv [filename/wildcard]	erated	
	toggle screen colour		

	<b>Depends:</b> sisu, tetex-bin, tetex-extra, latex-ucs	1002	[the -v is for verbose]	
983	<b>Suggests:</b> evince, xpdf	1003	The following are available without installation of the sisu- postgresql component, but are of interest in this context	
984	converts sisu LaTeX produced to pdf		generate a sample database query form for use with webserver	1004
985	sisu -pv [filename/wildcard]		on port 80	
986	[the -v is for verbose]		sisu -F	1005
			or for use with webrick server	1006
987	<b>35.5 sisu-postgresql</b>		sisu -F webrick	1007
988	• dependencies used by sisu to populate postgresql database (further configuration is necessary)		to start webrick server	1008
989	<b>Depends:</b> sisu, postgresql-8.1, libdbi-ruby, libdbm-ruby, libdbd-pg-ruby		sisu -W	1009
990	<b>Suggests:</b> pgaccess, libdbd-pgsql, postgresql-contrib- 8.1			
991	installs dependencies for sisu to work with and populate post- gresql database		<b>35.6 sisu-remote</b>	1010
992	create database		• dependencies used to place sisu output on a remote server (further configuration is necessary)	1011
993	sisu -Dv createall		scp	1012
994	drop database		sisu -vr[and processing flags] [filename/wildcard]	1013
995	sisu -Dv dropall		rsync	1014
996	import content		sisu -vR[and processing flags] [filename/wildcard]	1015
997	sisu -Div [filename/wildcard]		[the -v is for verbose]	1016
998	sisu -Dv import [filename/wildcard]		<b>Depends:</b> sisu, rsync, openssh-client lsh-client, key- chain	1017
999	update content			
1000	sisu -Duv [filename/wildcard]		<b>35.7 sisu-sqlite</b>	1018
1001	sisu -Dv update [filename/wildcard]		• dependencies used by sisu to populate sqlite database	1019
			<b>Depends:</b> sisu, sqlite, libdbi-ruby, libdbm-ruby, libdbd-sqlite- ruby	1020
			<b>Suggests:</b> libdbd-sqlite	1021

installs dependencies for sisu to work with and populate sqlite database	1022	<b>36. Quickstart - Getting Started Howto</b>	1041
1023 create database		<b>36.1 Installation</b>	1042
1024       sisu -dv createall		Installation is currently most straightforward and tested on the <b>Debian</b> platform, as there are packages for the installation of sisu and all requirements for what it does.	1043
1025 drop database			
1026       sisu -dv dropall			
1027 update content		<b>36.1.1 Debian Installation</b>	1044
1028       sisu -div [filename/wildcard]		<b>SiSU</b> is available directly from the <b>Debian</b> Sid and testing archives (and possibly Ubuntu), assuming your <code>/etc/apt/sources.list</code> is set accordingly:	1045
1029       sisu -dv import [filename/wildcard]		<code>aptitude update</code>	1046
1030 update content		<code>aptitude install sisu-complete</code>	
1031       sisu -duv [filename/wildcard]		The following <code>/etc/apt/sources.list</code> setting permits the download of additional markup samples:	1047
1032       sisu -dv update [filename/wildcard]		<code>deb http://ftp.fi.debian.org/debian/ unstable main non-free contrib</code>	1048
1033 [the -v is for verbose]		<code>deb-src http://ftp.fi.debian.org/debian/ unstable main non-free contrib</code>	
1034 The following are available without installation of the sisu-sqlite component, but are of interest in this context		<code>d</code>	
1035 generate a sample database query form for use with webserver on port 80		The aptitude commands become:	1049
1036       sisu -F		<code>aptitude update</code>	1050
1037 or for use with webrick server		<code>aptitude install sisu-complete sisu-markup-samples</code>	
1038       sisu -F webrick		If there are newer versions of <b>SiSU</b> upstream of the <b>Debian</b> archives, they will be available by adding the following to your <code>/etc/apt/sources.list</code>	1051
1039 to start webrick server		<code>deb http://www.jus.uio.no/sisu/archive unstable main non-free</code>	1052
1040       sisu -W		<code>deb-src http://www.jus.uio.no/sisu/archive unstable main non-free</code>	
		repeat the aptitude commands	1053
		<code>aptitude update</code>	1054
		<code>aptitude install sisu-complete sisu-markup-samples</code>	
		Note however that it is not necessary to install <code>sisu-complete</code> if not all components of sisu are to be used. Installing just the package sisu will provide basic functionality.	1055

### 1056 36.1.2 RPM Installation

1057 RPMs are provided though untested, they are prepared by  
 running alien against the source package, and against the  
 debs.

1058 They may be downloaded from:

1059 `<http://www.jus.uio.no/sisu/SiSU/download.html#rpm>`

1060 as root type:

1061 `rpm -i [rpm package name]`

### 1062 36.1.3 Installation from source

1063 To install **SiSU** from source check information at:

1064 `<http://www.jus.uio.no/sisu/SiSU/download.html#current>`

- 1065 • download the source package
- 1066 • Unpack the source

1067 Two alternative modes of installation from source are provided,  
 setup.rb (by Minero Aoki) and a rant (by Stefan Lang) built  
 install file, in either case: the first steps are the same, download  
 and unpack the source file:

1068 For basic use **SiSU** is only dependent on the programming  
 language in which it is written **Ruby**, and **SiSU** will be  
 able to generate html, various XMLs, including ODF (and will  
 also produce LaTeX). Dependencies required for further actions,  
 though it relies on the installation of additional dependencies  
 which the source tarball does not take care of, for things like  
 using a database (postgresql or sqlite)<sup>95</sup> or converting LaTeX  
 to pdf.

#### 1069 **setup.rb**

1070 This is a standard ruby installer, using setup.rb is a three step

<sup>95</sup>There is nothing to stop MySQL support being added in future.

process. In the root directory of the unpacked **SiSU** as root  
 type:

```
1071 ruby setup.rb config
1072 ruby setup.rb setup
1073 #[and as root:]
1074 ruby setup.rb install
```

further information on setup.rb is available from:

`<http://i.loveruby.net/en/projects/setup/>`

`<http://i.loveruby.net/en/projects/setup/doc/usage.html>`

#### 1075 “install”

1076 The “install” file provided is an installer prepared using “rant”.  
 In the root directory of the unpacked **SiSU** as root type:

`ruby install base`

1078 or for a more complete installation:

`ruby install`

1080 or

`ruby install base`

1082 This makes use of Rant (by Stefan Lang) and the provided  
 Rantfile. It has been configured to do post installation setup  
 configuration and generation of first test file. Note how-  
 ever, that additional external package dependencies, such as  
 tetex-extra are not taken care of for you.

1083 Further information on “rant” is available from:

`<http://make.rubyforge.org/>`

`<http://rubyforge.org/frs/?group\_id=615>`

1086 For a list of alternative actions you may type:

`ruby install help`

`ruby install -T`

## 36.2 Testing SiSU, generating output

1090 To check which version of sisu is installed:

1091 `sisu -v`

1092 Depending on your mode of installation one or a number of markup sample files may be found either in the directory:

1093 ...

1094 OR

1095 ...

1096 change directory to the appropriate one:

1097 `cd /usr/share/doc/sisu/sisu_markup_samples/dfsg`

### 36.2.1 basic text, plaintext, html, XML, ODF

1099 Having moved to the directory that contains the markup samples (see instructions above if necessary), choose a file and run sisu against it

1100 `sisu -NhwoabxXyv free_as_in_freedom.rms_and_free_software.sam_williams.sst`

1101 this will generate html including a concordance file, opendocument text format, plaintext, XHTML and various forms of XML, and OpenDocument text

### 36.2.2 LaTeX / pdf

1103 Assuming a LaTeX engine such as tetex or texlive is installed with the required modules (done automatically on selection of sisu-pdf in **Debian** )

1104 Having moved to the directory that contains the markup samples (see instructions above if necessary), choose a file and run sisu against it

1105 `sisu -pv free_as_in_freedom.rms_and_free_software.sam_williams.sst`

1089 `sisu -3 free_as_in_freedom.rms_and_free_software.sam_williams.sst`

1107 should generate most available output formats: html including a concordance file, opendocument text format, plaintext, XHTML and various forms of XML, and OpenDocument text and pdf

### 36.2.3 relational database - postgresql, sqlite

1109 Relational databases need some setting up - you must have permission to create the database and write to it when you run sisu.

1110 Assuming you have the database installed and the requisite permissions

1111 `sisu --sqlite --recreate`

1112 `sisu --sqlite -v --import free_as_in_freedom.rms_and_free_software.sam_williams.sst`

1113 `sisu --pgsql --recreate`

1114 `sisu --pgsql -v --import free_as_in_freedom.rms_and_free_software.sam_williams.sst`

## 36.3 Getting Help

### 36.3.1 The man pages

1117 Type:

1118 `man sisu`

1119 The man pages are also available online, though not always kept as up to date as within the package itself:

1120 • [sisu.1](http://www.jus.uio.no/sisu/man/sisu.1) <sup>96</sup>

1121 • [sisu.8](http://www.jus.uio.no/sisu/man/sisu.8) <sup>97</sup>

1122 • [man directory](http://www.jus.uio.no/sisu/man/) <sup>98</sup>

<sup>96</sup><<http://www.jus.uio.no/sisu/man/sisu.1>>

<sup>97</sup><<http://www.jus.uio.no/sisu/man/sisu.8>>

### 1123 **36.3.2 Built in help**

1124 `sisu --help`

1125 `sisu --help --env`

1126 `sisu --help --commands`

1127 `sisu --help --markup`

### 1128 **36.3.3 The home page**

1129 `<http://www.jus.uio.no/sisu>`

1130 `<http://www.jus.uio.no/sisu/SiSU>`

### 1131 **36.4 Markup Samples**

1132 A number of markup samples (along with output) are available  
off:

1133 `<http://www.jus.uio.no/sisu/SiSU/examples.html>`

1134 Additional markup samples are packaged separately in the  
file:

1135 \*

1136 On **Debian** they are available in non-free<sup>99</sup> to include them it  
is necessary to include non-free in your `/etc/apt/source.list` or  
obtain them from the sisu home site.

---

<sup>98</sup>`<http://www.jus.uio.no/sisu/man>`

<sup>99</sup>the **Debian** Free Software guidelines require that everything  
distributed within **Debian** can be changed - and the documents are  
authors' works that while freely distributable are not freely changeable.

1137	<b>HowTo</b>		
		<b>37. Getting Help</b>	1138
		An online manual of sorts should be available at:	1139
		<code>&lt;<a href="http://www.jus.uio.no/sisu_manual/">http://www.jus.uio.no/sisu_manual/</a>&gt;</code>	1140
		The manual pages provided with <b>SiSU</b> are also available online, and there is an interactive help, which is being superseded by the man page, and possibly some document which contains this component.	1141
		<b>37.1 SiSU “man” pages</b>	1142
		If <b>SiSU</b> is installed on your system usual man commands should be available, try:	1143
		<code>man sisu</code>	1144
		The <b>SiSU</b> man pages can be viewed online at: <sup>100</sup>	1145
		An online version of the sisu man page is available here:	1146
		<ul style="list-style-type: none"><li>• <a href="#">various sisu man pages</a><sup>101</sup></li><li>• <a href="#">sisu.1</a><sup>102</sup></li><li>• <a href="#">sisu.8</a><sup>103</sup></li><li>• <a href="#">sisu_examples.1</a><sup>104</sup></li><li>• <a href="#">sisu_webrick.1</a><sup>105</sup></li></ul>	1147 1148 1149 1150 1151

	<b>37.2 SiSU built-in help</b>		
1153	sisu --help		
1154	sisu --help [subject]		
1155	sisu --help env [for feedback on the way your system is setup with regard to sisu]		
1156	sisu -V [same as above command]		
1157	sisu --help commands		
1158	sisu --help markup		
1159	<b>37.3 Command Line with Flags - Batch Processing</b>		
1160	Running sisu (alone without any flags, filenames or wildcards) brings up the interactive help, as does any sisu command that is not recognised.		
1161	In the data directory run sisu -mh filename or wildcard eg. “sisu -h cisg.sst” or “sisu -h *.{sst,ssm}” to produce html version of all documents.		
	<hr/>		
	<sup>100</sup> generated from source using rman < <a href="http://polyglotman.sourceforge.net/rman.html">http://polyglotman.sourceforge.net/rman.html</a> > With regard to <b>SiSU</b> man pages the formatting generated for markup syntax is not quite right, for that you might prefer the links under: < <a href="http://www.jus.uio.no/sample">http://www.jus.uio.no/sample</a> > <sup>101</sup> < <a href="http://www.jus.uio.no/sisu/man/">http://www.jus.uio.no/sisu/man/</a> > <sup>102</sup> < <a href="http://www.jus.uio.no/sisu/man/sisu.1.html">http://www.jus.uio.no/sisu/man/sisu.1.html</a> > <sup>103</sup> < <a href="http://www.jus.uio.no/sisu/man/sisu.8.html">http://www.jus.uio.no/sisu/man/sisu.8.html</a> > <sup>104</sup> < <a href="http://www.jus.uio.no/sisu/man/sisu_examples.1.html">http://www.jus.uio.no/sisu/man/sisu_examples.1.html</a> > <sup>105</sup> < <a href="http://www.jus.uio.no/sisu/man/sisu_webrick.1.html">http://www.jus.uio.no/sisu/man/sisu_webrick.1.html</a> >		
1152	<b>38. Setup, initialisation</b>		1162
	<b>38.1 initialise output directory</b>		1163
	Images, css files for a document directory are copied to their respective locations in the output directory.		1164
	while within your document markup/preparation directory, is- sue the following command		1165
	sisu -CC		1166
	<b>38.1.1 Use of search functionality, an example using sqlite</b>		1167
	<b>SiSU</b> can populate PostgreSQL and Sqlite databases and pro- vides a sample search form for querying these databases.		1168
	This note provides an example to get you started and will use sqlite		1169
	It is necessary to:		1170
	(1) make sure the required dependencies have been in- stalled		1171
	(2) have a directory with sisu markup samples that is writable		1172
	(3) use sisu to create a database		1173
	(4) use sisu tp populate a database		1174
	(5) use sisu to start the webrick (httpd) server		1175
	(6) use sisu to create a search form		1176
	(7) copy the search form to the cgi directory		1177
	(8) open up the form in your browser		1178
	(9) query the database using the search form		1179
	<b>(1) make sure the required dependencies have been in-</b>		1180

	<b>stalled</b>		
1181	if you use <b>Debian</b> , the following command will install the required dependencies		only #directory..., not my usual mode of operation, to complete the example #the following is necessary sudo touch sisu_sqlite.cgi sisu_pgsql.cgi sudo -P chown \$USER sisu_sqlite.cgi sisu_pgsql.cgi
1182	aptitude install sisu-sqlite		#now this should be possible: sisu -F webrick 1200
1183	<b>(2) have a directory with sisu markup samples that is writable</b>		<b>(7) copy the search form to the cgi directory</b> 1201
1184	ideally copy the sisu-examples directory to your home directory (because the directory in which you run this example should be writable)		the string should be provided as output from the previous command 1202
1185	cp -rv /usr/share/sisu-examples/sample/document_samples_sisu_markup /usr/lib/cgi-bin		sudo cp -vi /usr/share/sisu-examples/sample/document_samples_sisu_markup /usr/lib/cgi-bin
1186	<b>(3) use sisu to create an sqlite database</b>		sudo chmod -v 755 /usr/lib/cgi-bin/sisu_sqlite.cgi 1204
1187	within the sisu-examples directory		<b>(8) open up the form in your browser and query it</b> 1205
1188	sisu -dv createall		url: 1206
1189	<b>(4) use sisu tp populate a database with some text</b>		< <a href="http://localhost:8081/cgi-bin/sisu_sqlite.cgi">http://localhost:8081/cgi-bin/sisu_sqlite.cgi</a> > 1207
1190	within the sisu-examples directory		or as instructed by command sisu -F webrick 1208
1191	sisu -div free_*.sst		<b>(9) query the database using the search form</b> 1209
1192	or		if there are other options in the dropdown menu select document_samples_sisu_markup 1211
1193	sisu -dv import free_*.sst debian_constitution_v1.2.sst debian_social_contract_v1.1.sst gpl2.fsf.sst		and search for some text, e.g.: 1212
1194	<b>(5) use sisu to start the webrick (httpd) server (if it has not already been started):</b>		aim OR project 1213
1195	sisu -W		<ul style="list-style-type: none"> <li>• selecting the <b>index</b> radio button gives an index of results using the object numbers 1214</li> <li>• selecting the <b>text</b> radio button gives the content of the matched paragraphs with the match highlighted 1215</li> </ul>
1196	<b>(6) use sisu to create a search form (for use with the webrick server, and your sample documents)</b>		<b>(10) to start again with a new database</b> 1216
1197	within the sisu-examples directory		to start from scratch you can drop the database with the command 1217
1198	sisu -F webrick		sisu -dv dropall 1218
1199	#here i run into a problem, you are working from a read		

	and go to step 3		
1220	to get to step 3 in one step with a single command		
1221	sisu -dv recreate		
1222	continue subsequent steps		
1223	<b>38.2 misc</b>		
1224	<b>38.2.1 url for output files -u -U</b>		
1225	sisu -uv[and other flags] [filename/wildcard]		
1226	sisu -Uv [filename/wildcard]		
1227	<b>38.2.2 toggle screen color</b>		
1228	sisu -cv[and processing flags] [filename/wildcard]		
1229	<b>38.2.3 verbose mode</b>		
1230	sisu -v[and processing flags] [filename/wildcard]		
1231	sisu -V[and processing flags] [filename/wildcard]		
1232	<b>38.2.4 quiet mode</b>		
1233	sisu -q[and processing flags] [filename/wildcard]		
1234	<b>38.2.5 maintenance mode intermediate files kept -M</b>		
1235	sisu -Mv[and other flags] [filename/wildcard]		
1236	<b>38.2.6 start the webrick server</b>		
1237	sisu -W		
		1219	<b>38.3 remote placement of output</b> 1238
			configuration is necessary 1239
			scp 1240
			sisu -vr[and processing flags] [filename/wildcard] 1241
			rsync 1242
			sisu -vR[and processing flags] [filename/wildcard] 1243

1244	<b>39. Configuration Files</b>	<b>40. Markup</b>	1253
1245	Sample provided, on untarring the source tarball:	See sample markup provided on	1254
1246	conf/sisu/sisurc.yaml	< <a href="http://www.jus.uio.no/sisu">http://www.jus.uio.no/sisu</a> >	1255
1247	and on installation under:	< <a href="http://www.jus.uio.no/sisu_markup">http://www.jus.uio.no/sisu_markup</a> >	1256
1248	/etc/sisu/sisurc.yaml	< <a href="http://www.jus.uio.no/sisu/SiSU">http://www.jus.uio.no/sisu/SiSU</a> >	1257
1249	The following paths are searched:	in particular for each of the document output samples provided,	1258
1250	./_sisu/sisurc.yaml	the source document is provided as well	
1251	/.sisu/sisurc.yaml	< <a href="http://www.jus.uio.no/sisu/SiSU/2#books">http://www.jus.uio.no/sisu/SiSU/2#books</a> >	1259
1252	/etc/sisu/sisurc.yaml	on untarring the source tarball:	1260
		data/sisu-examples/sample/document_samples_sisu_markup/	1261
		or the same once source is installed (or sisu-examples) un-	1262
		der:	
		/usr/share/sisu-examples/sample/document_samples_sisu_markup/	
		Some notes are contained within the man page, <b>man sisu</b> and	1264
		within sisu help via the commands <b>sisu help markup</b> and	
		<b>sisu help headers</b>	
		<b>SiSU</b> is for literary and legal text, also for some social sci-	1265
		ence material. In particular it does not do formula, and is not	
		particularly suited to technical documentation. Despite the lat-	
		ter caveat, some notes will be provided here and added to over	
		time:	
		<b>40.1 Headers</b>	1266
		Headers @headname: provide information related to the doc-	1267
		ument, this may relate to	
		1. how it is to be processed, such as whether headings are	1268
		to be numbered, what skin is to be used and markup instruc-	
		tions, such as the document structure, or words to be made bold	
		within the document	

1269	2. semantic information about the document including the dublin core	1287	<b>40.2.3 Underscore</b>		
				<u>underscore word or sentence</u>	1288
1270	<b>40.2 Font Face</b>			<u>{ underscore word or sentence }</u>	1289
1271	Defaults are set. You may change the face to: bold, italics, underscore, strikethrough, ...			<u>underscoreword</u>	1290
1272	<b>40.2.1 Bold</b>		<b>40.2.4 Strikethrough</b>		1291
1273	bold: [list of words that should be made bold within document]			<del>strikethrough word or sentence</del>	1292
1274	<b>bold line</b>			<del>{ strikethrough word or sentence }</del>	1293
1275	!_ bold line			<del>strikeword</del>	1294
1276	<b>bold word or sentence</b>			<del>strikeword-</del>	1295
1277	!{ bold word or sentence }!		<b>40.3 Endnotes</b>		1296
1278	*{ bold word or sentence }*			There are two forms of markup for endnotes, they cannot be mixed within the same document	1297
1279	<b>boldword</b> or <b>boldword</b>			here <sup>106</sup>	1298
1280	*boldword* or !boldword!			1. preferred endnote markup	1299
1281	<b>40.2.2 Italics</b>			here { this is an endnote }	1300
1282	italics: [list of words that should be italicised within document]			2. alternative markup equivalent, kept because it is possible to search and replace to get markup in existing texts such as Project Gutenberg	1301
1283	<i>italicise word or sentence</i>			here ^	1302
1284	/ { italicise word or sentence } /			^ this is an endote	1303
1285	<i>italicisedword</i>		<b>40.4 Links</b>		1304
1286	/italicisedword/			SiSU	1305

1307	{ <b>SiSU</b> }http://sisudoc.org	1306	!_ bold line	1322
			<b>bold line</b>	1323
1308	{sisu.png }http://sisudoc.org		_1 indent paragraph one level	1324
			indent paragraph one level	1325
1309	{ tux.png 64x80 }image		_2 indent paragraph two steps	1326
1310	SiSU <sup>107</sup>		indent paragraph two steps	1327
1311	{ <b>SiSU</b> }http://sisudoc.org		_* bullet paragraph	1328
1312	is equivalent to:		• bullet paragraph	1329
1313	{ <b>SiSU</b> }http://sisudoc.org { < <a href="http://sisudoc.org">http://sisudoc.org</a> > }		{# number paragraph (see headers for numbering document headings)	1330
1314	the same can be done with an image:		1. number paragraph (see headers for numbering document headings)	1331
1315			_# number paragraph level 2 (see headers for numbering document headings)	1332
1316	{ sisu.png “ <b>SiSU</b> ” }http://sisudoc.org		a. number paragraph level 2 (see headers for numbering document headings)	1333
1317				
1318	<b>40.5 Number Titles</b>		<b>40.7 Tables</b>	1334
1319	Set with the header @markup:		Table markup sample	1335
1320	<b>40.6 Line operations</b>		table{ h c3; 26; 32; 32;	1336
1321	Line Operations (marker placed at start of line)		This is a table, column1	1337
	<sup>106</sup> this is an endnote		this would become row one of column two	
	<sup>107</sup> < <a href="http://sisudoc.org">http://sisudoc.org</a> >		column three of row one is here	1338
	<sup>109</sup> < <a href="http://sisudoc.org">http://sisudoc.org</a> >		column one row 2	
			column two of row two	
			column three of row two, and so on	1339
			column one row three	
			and so on	

here

}table

1341 Alternative form of table markup

```
1342 {t h}
      |Mon|Tue|Wed|Thu|Fri|Sat|Sun
0    |*|*|*|*|*|*|*|*|*
1    |*|*|*|*|*| | |
2    |-|*|*|*|*|*|*|
3    |-|*|*|*|*|*|*|*
4    |-| | |*|*|*|
5    |*|*|*|*|*|*|*|*
```

1343 **40.8 Grouped Text**

```
1344     5.times { puts 'Ruby' }
```

```
1345 code{
1346     5.times { puts 'Ruby' }
```

```
1347 }code
```

1348 A Limerick  
1349

There was a young lady from Clyde,  
who ate a green apple and died,  
but the apple fermented inside the lamented,  
and made cider inside her inside.

```
1351 poem{
      There was a young lady from Clyde,
      who ate a green apple and died,
      but the apple fermented inside the lamented,
1352 and made cider inside her inside.
```

```
}
```

1353 **40.9 Composite Document**

1354 To import another document, the master document or importing document should be named filename.r3 (r for require)

```
{ filename.sst }
```

1355

```
{ filename.ssi }
```

1356

## 1357 41. Change Appearance

### 1358 41.1 Skins

1359 “Skins” may be used to change various aspects related to the output documents appearance, including such things as the url for the home page on which the material will be published, information on the credit band, and for html documents colours and icons used in navigation bars. Skins are ruby files which permit changing of the default values set within the program for **SiSU** output.

1360 There are a few examples provided, on untarring the source tarball:

1361 `conf/sisu/skin/doc/`

1362 `data/sisu-examples/sample/document_samples_sisu_markup/_sisu/skin/doc`

1363 and on installation under:

1364 `/etc/sisu/skin/doc/`

1365 `/usr/share/sisu-examples/sample/document_samples_sisu_markup/_sisu/skin/doc`

1366 The following paths are searched:

1367 `./_sisu/skin`

1368 `./sisu/skin`

1369 `/etc/sisu/skin`

1370 Skins under the searched paths in a per document directory, a per directory directory, or a site directory, named:

1371 `doc` [may be specified individually in each document]

1372 `dir` [used if identifier part of name matches markup directory name]

1373 `site`

1374 It is usual to place all skins in the document directory, with symbolic links as required from `dir` or `site` directories.

## 41.2 CSS

1375

The appearance of html and XML related output can be changed for an ouput collection directory by preparing and placing a new css file in one of the sisu css directories searched in the sisu configuration path. These are located at:

`./_sisu/css`

1377

`./sisu/css`

1378

and

1379

`/etc/sisu/css`

1380

The contents of the first directory found in the search path are copied to the corresponding sisu output directory with the commnd:

1381

The **SiSU** standard css files for **SiSU** output are:

1383

`dom.css html.css html_tables.css index.css sax.css xhtml.css`

1384

A document may specify its own/bespoke css file using the css header.

1385

css:

1386

[expand]

1387

SiSU 0.55 2007w27/6 2007-07-07

Homepage: <<http://www.jus.uio.no/sisu>>

### Description

SiSU is lightweight markup based document creation and publishing framework that is controlled from the command line. Prepare documents for SiSU using your text editor of choice, then use SiSU to generate various output document formats.

With minimal preparation of a plain-text (UTF-8) file using its native markup-syntax, SiSU produces: plain-text, HTML, XHTML, XML, ODF:ODT (Opendocument), LaTeX, PDF, and populates an SQL database (PostgreSQL or SQLite) in paragraph sized chunks so that document searches are done at this “atomic” level of granularity.

Outputs share a common citation numbering system, and any semantic meta-data provided about the document.

SiSU also provides concordance files, document content certificates and manifests of generated output.

SiSU takes advantage of well established open standard ways of representing text, and provides a bridge to take advantage of the strengths of each, while remaining simple. SiSU implements across document formats a “useful common feature set” [coming from a humanities, law, and possibly social sciences perspective, rather than technical or scientific writing] ... focus is primarily on content and data integrity rather than appearance, (though outputs in the various formats are respectable).

A vim syntax highlighting file and an ftplugin with folds for sisu markup is provided. Vim 7 includes syntax highlighting for SiSU .

man pages, and interactive help are provided.

1400 Dependencies for various features are taken care of in sisu related packages. The package sisu-complete installs the whole of **SiSU** .

1401 Additional document markup samples are provided in the package sisu-markup-samples which is found in the non-free archive the licenses for the substantive content of the marked up documents provided is that provided by the author or original publisher.

1402 Homepage: <<http://www.jus.uio.no/sisu>>

1403 **SiSU** - simple information structuring universe, is a publishing tool, document generation and management, (and search enabling) tool primarily for literary, academic and legal published works.

1404 **SiSU** can be used for Internet, Intranet, local filesystem or cd publishing.

1405 **SiSU** can be used directly off the filesystem, or from a database.

1406 **SiSU** 's scalability, is be dependent on your hardware, and filesystem (in my case Reiserfs), and/or database PostgreSQL.

1407 Amongst it's characteristics are:

- 1408 • simple mnemonic markup style,
- 1409 • the ability to produce multiple output formats, including html, structured XML, LaTeX, pdf (via LaTeX), stream to a relational database whilst retaining document structure - PostgreSQL and Sqlite,
- 1410 • that all share a common citation system (a simple idea from which much good), possibly most exciting, the following: if fed into a relational database (as it can be automatically), the document set is searchable, with results displayed at a paragraph level, or the possibility of an indexed display of documents in

which the match is found together with a hyperlinked listing for each of each paragraph in which the match is found. In any event citations using this system (with or without the relational database) are relevant for all output formats.

- it is command line driven, and can be set up on a remote server 1411
- Documents are marked up in **SiSU** syntax in your favourite editor. **SiSU** syntax may be regarded as a type of smart ascii - which in its basic form is simpler than the most elementary html. There is currently a syntax highlighter, and folding for Vim. Syntax highlighters for other editors are welcome. 1412

Input files should be UTF-8 1413

Once set up it is simple to use. 1414

## 42.1 Online Information, places to look 1415

<<http://www.jus.uio.no/sisu>> 1416

Download Sources: 1417

<<http://www.jus.uio.no/sisu/SiSU/download.html#current>> 1418

<<http://www.jus.uio.no/sisu/SiSU/download.html#debian>> 1419

## 42.2 Installation 1420

NB. Platform is Unix / Linux. 1421

### 42.2.1 Debian 1422

If you use **Debian** use the **Debian** packages, check the information at: 1423

<<http://www.jus.uio.no/sisu/SiSU/download.html#debian>> 1424

1425	(A) <b>SiSU</b> is available directly off the <b>Debian</b> archives for Sid and testing. It should necessary only to run as root:	<a href="http://www.jus.uio.no/sisu/SiSU/download.html#current">&lt;http://www.jus.uio.no/sisu/SiSU/download.html#current&gt;</a>	1441
1426	aptitude update	alternative modes of installation from source are provided,	1442
1427	aptitude install sisu-complete	setup.rb (by Minero Aoki), rake (by Jim Weirich) built install file, rant (by Stefan Lang) built install file,	
1428	(B) If there are newer versions of <b>SiSU</b> upstream of the <b>Debian</b> archives, they will be available by adding the following to your /etc/apt/sources.list	<b>Ruby</b> is the essential dependency for the basic operation of <b>SiSU</b>	1443
1429	deb <a href="http://www.jus.uio.no/sisu/archive">&lt;http://www.jus.uio.no/sisu/archive&gt;</a> unstable main non-free	1. Download the latest source (information available) from:	1444
1430	deb-src <a href="http://www.jus.uio.no/sisu/archive">&lt;http://www.jus.uio.no/sisu/archive&gt;</a> unstable main non-free	<a href="http://www.jus.uio.no/sisu/SiSU/download.html#current">&lt;http://www.jus.uio.no/sisu/SiSU/download.html#current&gt;</a>	1445
1431	[the non-free line is for document markup samples, for which the substantive text is provided under the author or original publisher's license and which in most cases will not be debian free software guideline compliant]	2. Unpack the source	1446
1432	Then as root run:	Note however, that additional external package dependencies, such as texlive or postgresql should you desire to use it are not taken care of for you.	1447
1433	aptitude update		
1434	aptitude install sisu-complete		
1435	<b>42.2.2 RPM</b>	<b>42.2.4 to use setup.rb</b>	1448
1436	RPMs are provided though untested, they are prepared by running alien against the source package, and against the debs.	this is a three step process, in the root directory of the unpacked <b>SiSU</b> as root type:	1449
1437	They may be downloaded from:	ruby setup.rb config	1450
1438	<a href="http://www.jus.uio.no/sisu/SiSU/download.html#rpm">&lt;http://www.jus.uio.no/sisu/SiSU/download.html#rpm&gt;</a>	ruby setup.rb setup	1451
1439	<b>42.2.3 Source package .tgz</b>	as root:	1452
1440	Otherwise to install <b>SiSU</b> from source, check information at:	ruby setup.rb install	1453
		further information:	1454
		<a href="http://i.loveruby.net/en/projects/setup/">&lt;http://i.loveruby.net/en/projects/setup/&gt;</a>	1455
		<a href="http://i.loveruby.net/en/projects/setup/doc/usage.html">&lt;http://i.loveruby.net/en/projects/setup/doc/usage.html&gt;</a>	1456
		<b>42.2.5 to use install (prepared with “Rake”)</b>	1457
		Rake must be installed on your system:	1458
		<a href="http://rake.rubyforge.org/">&lt;http://rake.rubyforge.org/&gt;</a>	1459

1460  [<http://rubyforge.org/frs/?group\\_id=50>](http://rubyforge.org/frs/?group_id=50)

1461 in the root directory of the unpacked **SiSU** as root type:

1462 rake

1463 or

1464 rake base

1465 This makes use of Rake (by Jim Weirich) and the provided  
1466 Rakefile

1466 For a list of alternative actions you may type:

1467 rake help

1468 rake -T

### 1469 **42.2.6 to use install (prepared with “Rant”)**

1470 (you may use the instructions above for rake substituting rant if  
1471 rant is installed on your system, or you may use an independent  
1472 installer created using rant as follows:)

1471 in the root directory of the unpacked **SiSU** as root type:

1472 rake ./sisu-install

1473 or

1474 rake ./sisu-install base

1475 This makes use of Rant (by Stefan Lang) and the provided  
1476 Rantfile. It has been configured to do post installation setup  
1477 setup configuration and generation of first test file. Note how-  
1478 ever, that additional external package dependencies, such as  
1479 tetex-extra are not taken care of for you.

1476 further information:

1477  [<http://make.rubyforge.org/>](http://make.rubyforge.org/)

1478  [<http://rubyforge.org/frs/?group\\_id=615>](http://rubyforge.org/frs/?group_id=615)

1479 For a list of alternative actions you may type:

ruby ./sisu-install help

1480

ruby ./sisu-install -T

1481

## 42.3 Dependencies

1482

1483 Once installed see `man 8 sisu' for some information on addi-  
1484 tional programs that sisu makes use of, and that you may need  
1485 or wish to install. (this will depend on such factors as whether  
1486 you want to generate pdf, whether you will be using **SiSU** with  
or without a database, ...) `man sisu\_markup-samples' may  
also be of interest if the sisu-markup-samples package has also  
been installed.

The information in man 8 may not be most up to date, and  
it is possible that more useful information can be gleaned from  
the following notes taken from the **Debian** control file (end  
edited), gives an idea of additional packages that **SiSU** can  
make use of if available, (the use/requirement of some of which  
are interdependent for specific actions by **SiSU** ).

The following is from the debian/control file of sisu-0.58.2,  
which amongst other things provides the dependencies of sisu  
within **Debian** .

1484

1485

1486

```
Package: sisu
Architecture: all
Depends: ruby (>= 1.8.2), libwebrick-ruby, unzip, zip
Conflicts: vim-sisu, sisu-vim, sisu-remote
Replaces: vim-sisu, sisu-vim
Recommends: sisu-pdf, sisu-sqlite, sisu-postgresql, libmagick-ruby,
trang,
tidy, libexml-ruby, openssl, rsync, openssh-client | lsh-client, keychain,
hyperestraier, kdissert, vim-addon-manager
Suggests: rcs | cvs, lv, texinfo, pinfo
Package: sisu-complete
Depends: ruby (>= 1.8.4), sisu, sisu-pdf, sisu-postgresql, sisu-sqlite
Recommends: hyperestraier
Package: sisu-pdf
Architecture: all
```

1487

Depends: sisu, texlive-latex-base, texlive-fonts-recommended, texlive-latex-recommended, texlive-latex-extra  
Suggests: evince, xpdf  
Package: sisu-postgresql  
Depends: sisu, postgresql-8.1, libdbi-ruby, libdbm-ruby, libdbd-pg-ruby  
Suggests: pgaccess, libdbd-pgsql, postgresql-contrib-8.1  
Package: sisu-sqlite  
Depends: sisu, sqlite, libdbi-ruby, libdbm-ruby, libdbd-sqlite-ruby  
Suggests: libdbd-sqlite  
Package: sisu-markup-samples  
Depends: sisu  
Source: sisu  
Section: text  
Priority: optional  
Maintainer: Ralph Amissah <ralph@amissah.com>  
Build-Depends: debhelper (>= 5)  
Standards-Version: 3.7.2  
Package: sisu  
Architecture: all  
Depends: ruby (>= 1.8.2), ruby (<< 1.9), libwebrick-ruby, unzip, zip  
Conflicts: vim-sisu, sisu-vim, sisu-remote  
Replaces: vim-sisu, sisu-vim  
Recommends: sisu-doc, sisu-pdf, sisu-sqlite, sisu-postgresql, hyperestraier, key-chain, librmagick-ruby, librexml-ruby, openssl, openssl-client | lsh-client, rsync, tidy, vim-addon-manager  
Suggests: kdissert, lv, rcs | cvs, pinfo, texinfo, trang  
Description: documents - structuring, publishing in multiple formats and search  
SiSU is a lightweight markup based, command line oriented, document structuring, publishing and search framework for document collections.  
.  
With minimal preparation of a plain-text, (UTF-8) file, using its native markup syntax in your text editor of choice, SiSU can generate various document formats (most of which share a common object numbering system for locating content), including plain text, HTML, XHTML, XML, OpenDocument text (ODF:ODT), LaTeX, PDF files, and populate an SQL database with objects (roughly paragraph-sized chunks) so searches may be performed and matches

returned with that degree of granularity: your search criteria is met by these documents and at these locations within each document. Object numbering is particularly suitable for "published" works (finalized texts as opposed to works that are frequently changed or updated) for which it provides a fixed means of reference of content. Document outputs also share semantic meta-data provided.  
.  
SiSU also provides concordance files, document content certificates and manifests of generated output.  
.  
A vim syntax highlighting file and an ftplugin with folds for sisu markup is provided, as are syntax highlighting files for kate, kwrite, gedit and diakonos. Vim 7 includes syntax highlighting for SiSU.  
.  
man pages, and interactive help are provided.  
.  
Dependencies for various features are taken care of in sisu related packages. The package sisu-complete installs the whole of SiSU.  
.  
Additional document markup samples are provided in the package sisu-markup-samples which is found in the non-free archive the licenses for the substantive content of the marked up documents provided is that provided by the author or original publisher.  
.  
Homepage: <<http://www.jus.uio.no/sisu>>  
Package: sisu-complete  
Architecture: all  
Depends: ruby (>= 1.8.2), ruby (<< 1.9), sisu, sisu-doc, sisu-pdf, sisu-postgresql, sisu-sqlite  
Recommends: hyperestraier  
Description: installs all SiSU related packages  
This package installs SiSU and related packages that enable sisu to produce pdf and to populate postgresql and sqlite databases.

1488

.  
 SiSU is a lightweight markup based document structuring, publishing and search framework for document collections.  
 .  
 See `sisu` for a description of the package.  
 .  
 1489 Homepage: <<http://www.jus.uio.no/sisu>>  
 Package: `sisu-doc`  
 Architecture: `all`  
 Depends: `sisu`  
 Recommends: `sisu-pdf`, `sisu-postgresql`, `sisu-sqlite`  
 Description: `sisu` manual and other documentation for `sisu`  
 Multiple file formats generated output of `sisu` documentation generated from `sisu` markup source documents included in the main package  
 .  
 SiSU is a lightweight markup based document structuring, publishing and search framework for document collections.  
 .  
 1490 Homepage: <<http://www.jus.uio.no/sisu>>  
 Package: `sisu-pdf`  
 Architecture: `all`  
 Depends: `sisu`, `texlive-latex-base`, `texlive-fonts-recommended`, `texlive-latex-recommended`, `texlive-latex-extra`  
 Recommends: `sisu-doc`  
 Description: dependencies to convert SiSU LaTeX output to pdf  
 This package enables the conversion of SiSU LaTeX output to pdf.  
 .  
 SiSU is a lightweight markup based document structuring, publishing and search framework for document collections.  
 .  
 1491 Homepage: <<http://www.jus.uio.no/sisu>>  
 Package: `sisu-postgresql`  
 Architecture: `all`  
 Depends: `sisu`, `libdbd-pg-ruby`, `libdbi-ruby`, `libdbm-ruby`, `postgresql`  
 Recommends: `sisu-doc`, `libfcgi-ruby`  
 Suggests: `postgresql-contrib`  
 Description: SiSU dependencies for use with `postgresql` database

This package enables SiSU to populate a `postgresql` database. This is done at an object/paragraph level, making granular searches of documents possible.

.  
 This relational database feature of SiSU is not required but provides interesting possibilities, including that of granular searches of documents for matching units of text, primarily paragraphs that can be displayed or identified by object citation number, from which an index of documents matched and each matched paragraph within them can be displayed.

.  
 SiSU is a lightweight markup based document structuring, publishing and search framework for document collections.

.  
 Homepage: <<http://www.jus.uio.no/sisu>>  
 Package: `sisu-sqlite`  
 Architecture: `all`  
 Depends: `sisu`, `sqlite`, `libdbd-sqlite-ruby`, `libdbi-ruby`, `libdbm-ruby`  
 Recommends: `sisu-doc`, `libfcgi-ruby`  
 Description: SiSU dependencies for use with `sqlite` database

1492

This package enables SiSU to populate an `sqlite` database. This is done at an object/paragraph level, making granular searches of documents possible.

.  
 This relational database feature of SiSU is not required but provides interesting possibilities, including that of granular searches of documents for matching units of text, primarily paragraphs that can be displayed or identified by object citation number, from which an index of documents matched and each matched paragraph within them can be displayed.

.  
 SiSU is a lightweight markup based document structuring, publishing and search framework for document collections.

.  
 Homepage: <<http://www.jus.uio.no/sisu>>

## 42.4 Quick start

1493

Most of the installation should be taken care of by the aptitude

1494

1515	or rant install. (The rant install if run in full will also test run the generation of the first document).	sisu --help env	1516
1495	After installation of sisu-complete, move to the document samples directory	for list of commands and so on	1517
1496	cd /usr/share/doc/sisu/sisu_markup_samples/dfsg	sisu --help commands	1518
1497	and run	<b>42.5 Configuration files</b>	1519
1498	sisu -3 free_as_in_freedom.rms_and_free_software.sam_williams.sst	The default configuration/setup is contained within the program and is altered by configuration settings in <i>etc</i> [sisu version]/sisurc.yml or in <code>./sisu/sisurc.yml</code>	1520
1499	or the same:	• configuration file - a yaml file	1521
1500	sisu -NhwpoabxXyv free_as_in_freedom.rms_and_free_software.sam_williams.sst	<code>/etc/sisu/[sisu version]/sisurc.yml</code>	1522
1501	look at output results, see the “sisu_manifest” page created for the document	<code>./sisu/sisurc.yml</code>	1523
1502	or to generate an online document move to a writable directory, as the file will be downloaded there and e.g.	• directory structure - setting up of output and working directory.	1524
1503	sisu -3 < <a href="http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/free_culture.lawrence_lessig.sst">http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/free_culture.lawrence_lessig.sst</a> >	* skins - changing the appearance of a project, directory or individual documents within <code>./sisu/skin</code>	1525
1504	the database stuff is extra perhaps, the latex stuff could be considered extra perhaps but neither needs to be installed for most of sisu output to work	<code>./sisu/skin/doc</code> contains individual skins, with symbolic links from	1526
1505	examine source document, vim has syntax support	<code>./sisu/skin/dir</code> if the contents of a directory are to take a particular document skin.	1527
1506	gvim free_as_in_freedom.rms_and_free_software.sam_williams.sst	• additional software - eg. Tex and LaTeX (tetex, tetex-base, tetex-extra on <b>Debian</b> ), Postgresql, [sqlite], trang, tidy, make-info, ... none of which are required for basic html or XML processing.	1528
1507	additional markup samples in	• if you use Vim as editor there is a syntax highlighter and fold resource config file for <b>SiSU</b> . I hope more syntax highlighters follow.	1529
1508	< <a href="http://www.jus.uio.no/sisu/SiSU/examples.html">http://www.jus.uio.no/sisu/SiSU/examples.html</a> >	There are post installation steps (which are really part of the overall installation)	1530
1509	For help	sisu -C in your marked up document directory, should do some	
1510	man sisu		
1511	or		
1512	sisu --help		
1513	e.g.		
1514	for the way sisu “sees/maps” your system		

	auto-configuring provided you have the right permissions for the output directories. (and provided the output directories have already been specified if you are not using the defaults).	1549	sisu --help headings	
			etc.	1550
			for questions about mappings, output paths etc.	1551
1531	<b>42.6 Use General Overview</b>		sisu --help env	1552
1532	Documents are marked up in <b>SiSU</b> syntax and kept in an ordinary text editable file, named with the suffix .sst, or .ssm		sisu --help path	1553
1533	Marked up <b>SiSU</b> documents are usually kept in a sub-directory of your choosing		sisu --help directory	1554
1534	use the interactive help and man pages		<b>42.8 Directory Structure</b>	1555
1535	sisu --help		Once installed, type:	1556
1536	man sisu		sisu --help env	1557
			or	1558
			sisu -V	1559
1537	<b>42.7 Help</b>		<b>42.9 Configuration File</b>	1560
1538	interactive help described below, or man page:		The defaults can be changed via <b>SiSU</b> 's configure file	1561
1539	man sisu		sisurc.yml which the program expects to find in ./_sisu / .sisu	
1540	man 8 sisu		or /etc/sisu (searched in that order, stopping on the first one found)	
1541	`man sisu_markup-samples' [if the sisu-markup-samples package is also installed]		<b>42.10 Markup</b>	1562
1542	Once installed an interactive help is available typing `sisu' (without) any flags, and select an option:		See man pages.	1563
1543	sisu		man sisu	1564
1544	alternatively, you could type e.g.		man 8 sisu	1565
1545	sisu --help commands		Once installed there is some information on <b>SiSU</b> Markup in its help:	1566
1546	sisu --help env		sisu --help markup	1567
1547	sisu --help headers		and	1568
1548	sisu --help markup			

1569 `sisu --help headers`

1570 Sample marked up document are provided with the download  
tarball in the directory:

1571 `./data/doc/sisu/sisu_markup_samples/dfsg`

1572 These are installed on the system usually at:

1573 `/usr/share/doc/sisu/sisu_markup_samples/dfsg`

1574 More markup samples are available in the package `sisu-markup-  
samples`

1575 `<http://www.jus.uio.no/sisu/SiSU/download.html#sisu-markup-samples>`

1576 Many more are available online off:

1577 `<http://www.jus.uio.no/sisu/SiSU/examples.html>`

## 1578 42.11 Additional Things

1579 There is syntax support for some editors provided (together  
with a README file) in

1580 `./data/sisu/conf/syntax`

1581 usually installed to:

1582 `/usr/share/sisu/conf/syntax`

## 1583 42.12 License

1584 License: GPL 3 or later see the copyright file in

1585 `./data/doc/sisu`

1586 usually installed to:

1587 `/usr/share/doc/sisu`

## 1588 42.13 SiSU Standard

1589 **SiSU** uses:

- Standard **SiSU** markup syntax, 1590
- Standard **SiSU** meta-markup syntax, and the 1591
- Standard **SiSU** object citation numbering and system 1592

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- however note the License section 1594

### CHANGELOG 1595

`./CHANGELOG` 1596

and see 1597

`<http://www.jus.uio.no/sisu/SiSU/changelog.html>` 1598

`<http://www.jus.uio.no/sisu/SiSU/changelog\_markup\_samples.html>` 1599

1600	<b>Extracts from man 8 sisu</b>	
	<b>43. Post Installation Setup</b>	1601
	<b>43.1 Post Installation Setup - Quick start</b>	1602
	After installation of sisu-complete, move to the document sam- ples directory,	1603
	<code>cd /usr/share/doc/sisu/sisu_markup_samples/dfsg</code>	1604
	[this is not where you would normally work but provides sam- ple documents for testing, you may prefer instead to copy the contents of that directory to a local directory before proceed- ing]	1605
	and in that directory, initialise the output directory with the command	1606
	<code>sisu -CC</code>	1607
	then run:	1608
	<code>sisu -l free_as_in_freedom.rms_and_free_software.sam_williams.sst</code>	1609
	or the same:	1610
	<code>sisu -NhwpoabxXyv free_as_in_freedom.rms_and_free_software.sam_williams.sst</code>	1611
	look at output results, see the “sisu_manifest” page created for the document	1612
	for an overview of your current sisu setup, type:	1613
	<code>sisu --help env</code>	1614
	or	1615
	<code>sisu -V</code>	1616
	To generate a document from a remote url accessible location move to a writable directory, (create a work directory and cd into it) as the file will be downloaded there and e.g.	1617
	<code>sisu -l &lt;<a href="http://www.jus.uio.no/sisu/gpl3.fsf/gpl3.fsf.sst">http://www.jus.uio.no/sisu/gpl3.fsf/gpl3.fsf.sst</a>&gt;</code>	1618
	<code>sisu -3 &lt;<a href="http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/free_culture.lawrence_lessig.sst">http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/free_culture.lawrence_lessig.sst</a>&gt;</code>	1619

1620	examine source document, vim has syntax highlighting support	<code>cp -a /usr/share/doc/sisu/sisu_markup_samples/dfsg/*</code>	1637
1621	<code>gvim free_as_in_freedom.rms_and_free_software.sam_williams.sst</code>	<code>/sisu_test/.</code>	
1622	additional markup samples in	<code>&lt;<a href="http://www.jus.uio.no/sisu/sample/">http://www.jus.uio.no/sisu/sample/</a>&gt;</code>	1639
1623	<code>&lt;<a href="http://www.jus.uio.no/sisu/SiSU/examples.html">http://www.jus.uio.no/sisu/SiSU/examples.html</a>&gt;</code>	<b>Tip:</b> the markup syntax examples may be of interest	1638
1624	it should also be possible to run sisu against sisupods (prepared zip files, created by running the command <code>sisu -S [filename]</code> ), whether stored locally or remotely.	<code>sisu -U [sisu markup filename]</code>	1641
1625	<code>sisu -3 &lt;<a href="http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/sisupod.zip">http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/sisupod.zip</a>&gt;</code>	should printout the different possible outputs and where sisu would place them.	1642
1626	there is a security issue associated with the running of document skins that are not your own, so these are turned of by default, and the use of the following command, which switches on the associated skin is not recommended:	<b>Tip:</b> if you want to toggle ansi color add	1643
1627	<code>sisu -3 --trust &lt;<a href="http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/sisupod.zip">http://www.jus.uio.no/sisu/free_culture.lawrence_lessig/sisupod.zip</a>&gt;</code>	<code>c</code>	1644
1628	For help	to your flags.	1645
1629	<code>man sisu</code>		
1630	<code>sisu --help</code>		
1631	<code>sisu --help env</code> for the way sisu “sees/maps” your system		
1632	<code>sisu --help commands</code> for list of commands and so on		
1633	<b>43.2 Document markup directory</b>	<b>43.2.1 Configuration files</b>	1646
1634	Perhaps the easiest way to begin is to create a directory for sisu marked up documents within your home directory, and copy the file structure (and document samples) provided in the document sample directory:	<b>SiSU</b> configuration file search path is:	1647
1635	<code>mkdir /sisu_test</code>	<code>./_sisu/sisurc.yaml</code>	1648
1636	<code>cd /sisu_test</code>	<code>/.sisu/sisurc.yaml</code>	1649
		<code>/etc/sisu/sisurc.yaml</code>	1650
		<code>%% Debian Installation Note</code>	1651
		<b>43.2.2 Debian INSTALLATION Note</b>	1652
		It is best you see	1653
		<code>&lt;<a href="http://www.jus.uio.no/sisu/SiSU/download.html#debian">http://www.jus.uio.no/sisu/SiSU/download.html#debian</a>&gt;</code>	1654
		for up the most up to date information.	1655
		notes taken from the <b>Debian</b> control file (end edited), gives an idea of additional packages that <b>SiSU</b> can make use of if available, (the use/requirement of some of which are interdependent for specific actions by <b>SiSU</b> ):	1656

	Package: sisu		
1658	<b>SiSU</b> is a lightweight markup based, command line oriented, document structuring, publishing and search framework for document collections.	1657	ments provided is that provided by the author or original publisher.
			Homepage: < <a href="http://www.jus.uio.no/sisu">http://www.jus.uio.no/sisu</a> >
1659	With minimal preparation of a plain-text, (UTF-8) file, using its native markup syntax in your text editor of choice, <b>SiSU</b> can generate various document formats (most of which share a common object numbering system for locating content), including plain text, HTML, XHTML, XML, OpenDocument text (ODF:ODT), LaTeX, PDF files, and populate an SQL database with objects (roughly paragraph-sized chunks) so searches may be performed and matches returned with that degree of granularity: your search criteria is met by these documents and at these locations within each document. Object numbering is particularly suitable for “published” works (finalized texts as opposed to works that are frequently changed or updated) for which it provides a fixed means of reference of content. Document outputs also share semantic meta-data provided.		
1660	<b>SiSU</b> also provides concordance files, document content certificates and manifests of generated output.		
1661	A vim syntax highlighting file and an ftplugin with folds for sisu markup is provided, as are syntax highlighting files for kate, kwrite, gedit and diakonos. Vim 7 includes syntax highlighting for <b>SiSU</b> .		
1662	man pages, and interactive help are provided.		
1663	Dependencies for various features are taken care of in sisu related packages. The package sisu-complete installs the whole of <b>SiSU</b> .		
1664	Additional document markup samples are provided in the package sisu-markup-samples which is found in the non-free archive the licenses for the substantive content of the marked up docu-		
			<b>43.2.3 Document Resource Configuration</b>
			<b>sisu</b> resource configuration information is obtained from sources (where they exist):
			./sisu/sisurc.yaml
			/etc/sisu/[sisu version]/sisurc.yaml
			sisu program defaults
			<b>43.2.4 Skins</b>
			<b>Skins</b> default document appearance may be modified using skins contained in sub-directories located at the following paths:
			./_sisu/skin
			./sisu/skin
			/etc/sisu/skin
			more specifically, the following locations (or their /etc/sisu equivalent) should be used:
			./sisu/skin/doc
			skins for individual documents;
			./sisu/skin/dir
			skins for directories of matching names;
			./sisu/skin/site
			site-wide skin modifying the site-wide appearance of documents.

Usually all skin files are placed in the document skin directory:	1683	<b>44. FAQ - Frequently Asked/Answered Questions</b>	1686
1684        /.sisu/skin/doc		<b>44.1 Why are urls produced with the -v (and -u) flag that point to a web server on port 8081?</b>	1687
1685 with softlinks being made to the skins contained there from other skin directories as required.		Try the following rune:	1688
		• sisu -W	1689
		This should start the ruby webserver. It should be done after having produced some output as it scans the output directory for what to serve.	1690
		<b>44.2 I cannot find my output, where is it?</b>	1691
		The following should provide help on output paths:	1692
		• sisu --help env	1693
		• sisu -V [same as the previous command]	1694
		• sisu --help directory	1695
		• sisu --help path	1696
		• sisu -U [filename]	1697
		• man sisu	1698
		<b>44.3 I do not get any pdf output, why?</b>	1699
		<b>SiSU</b> produces LaTeX and pdflatex is run against that to generate pdf files.	1700
		If you use <b>Debian</b> the following will install the required dependencies	1701
		• aptitude install sisu-pdf	1702
		the following packages are required: tetex-bin, tetex-extra, latex-ucs	1703

1704 **44.4 Where is the latex (or some other interim)  
output?**

1705 Try adding -M (for maintenance) to your command flags,  
e.g.:

- 1706 • `sisu -HpMv [filename]`

1707 this should result in the interim processing output being  
retained, and information being provided on where to find  
it.

- 1708 • `sisu --help directory`

- 1709 • `sisu --help path`

1710 should also provide some relevant information as to where it is  
placed.

1711 **44.5 Why isn't SiSU markup XML**

1712 I worked with text and (though I find XML immensely valuable)  
disliked noise ... better to sidestep the question and say:

1713 **SiSU** currently “understands” three XML input representa-  
tions - or more accurately, converts from three forms of XML  
to native **SiSU** markup for processing. The three types cor-  
respond to SAX (structure described), DOM (structure embed-  
ded, whole document must be read before structure is correctly  
discernable) and node based (a tree) forms of XML document  
structure representation. Problem is I use them very seldom  
and check that all is as it should be with them seldom, so I  
would not be surprised if something breaks there, but as far as  
I know they are working. I will check and add an XML markup  
help page before the next release. There already is a bit of in-  
formation in the man page under the title **SiSU** VERSION  
CONVERSION

1714 `sisu --to-sax [filename/wildcard]`

`sisu --to-dom [filename/wildcard]`

1715

`sisu --to-node [filename/wildcard]`

1716

The XML should be well formed... must check, but lacks sen-  
sible headers. Suggestions welcome as to what to make of  
them. [For the present time I am satisfied that I can convert  
(both ways) between 3 forms of XML representation and **SiSU**  
markup].

1717

`sisu --from-xml2sst [filename/wildcard]`

1718

**44.6 LaTeX claims to be a document preparation  
system for high-quality typesetting. Can the same be  
said about SiSU?**

1719

**SiSU** is not really about type-setting.

1720

LaTeX is the ultimate computer instruction type-setting lan-  
guage for paper based publication.

1721

LaTeX is able to control just about everything that happens on  
page and pixel, position letters kerning, space variation between  
characters, words, paragraphs etc. formula.

1722

**SiSU** is not really about type-setting at all. It is about a  
lightweight markup instruction that provides enough informa-  
tion for an abstraction of the documents structure and objects,  
from which different forms of representation of the document  
can be generated.

1723

**SiSU** with very little markup instruction is able to produce  
relatively high quality pdf by virtue of being able to generate  
usable default LaTeX; it produces “quality” html by generating  
the html directly; likewise it populates an SQL database in a  
useful way with the document in object sized chunks and its  
meta-data. But **SiSU** works on an abstraction of the docu-  
ment's structure and content and custom builds suitable uni-  
form output. The html for browser viewing and pdf for pa-

1724

per viewing/publishing are rather different things with different needs for layout - as indeed is what is needed to store information in a database in searchable objects.

1725 The pdfs or html produced for example by open office based on open document format and other office/word processor suits usually attempt to have similar looking outputs - your document rendered in html looks much the same, or in pdf... sisu is less this way, it seeks to have a starting point with as little information about appearance as possible, and to come up with the best possible appearance for each output that can be derived based on this minimal information.

1726 Where there are large document sets, it provides consistency in appearance in each output format for the documents.

1727 The excuse for going this way is, it is a waste of time to think much about appearance when working on substantive content, it is the substantive content that is relevant, not the way it looks beyond the basic informational tags - and yet you want to be able to take advantage of as many useful different ways of representing documents as are available, and for various types of output to to be/look as good as it can for each medium/format in which it is presented, (with different mediums having different focuses) and **SiSU** tries to achieve this from minimal markup.

#### 1728 **44.7 Can the SiSU markup be used to prepare for a LaTeX automatic building of an index to the work?**

1729 Has not been, is of interest though the question on introducing such possibilities is how to keep them as unobtrusive as possible, and as generically relevant as possible to other output formats (which is why the focus on object numbers). Unobtrusive refers both to the markup (where there is no big problem with introducing optional extras); and, more challengingly

how to minimise impact on competing ideas/interests, such allowing the addition of semantic tags which could be tied to objects, mapped against the objects that contain them, (permitting mapping and mining of content in various ways that would be largely agnostic of output format - object numbering being an attempt to move beyond output format based content locators (such as page numbers). The desire being to (be a meta markup and) maintain agnosticism as to what is being generated and in development to favor solutions of that nature. Keep bridging LaTeX, XML, SQL ... make use of objects and serialisation for mapping whether against content or meta-content (such as semantic [or additional structural] markers).

#### 44.8 Can the conversion from SiSU to LaTeX be modified if we have special needs for the LaTeX, or do we need to modify the LaTeX manually?

1730

Should be possible to modify code, it is GPLv3, should be possible either to modify existing modules or write an independent module for generating bespoke latex. Generic improvements are welcome for inclusion/incorporation in the existing code base.

1731

If there are tools to generate mathematical/scientific formula from latex to images (jpg, png), the latex parser could conceivably be used to make these available to other output formats.

1732

#### 44.9 How do I create GIN or GiST index in Postgresql for use in SiSU

1733

This at present needs to be done “manually” and it is probably necessary to alter the sample search form. The following is a helpful response from one of the contributors of GiN to Postgresql Oleg Bartunov 2006-12-06:

1734

1735 “I have tsearch2 slides which introduces tsearch2 <<http://www.sai.msu.edu/~megeera/wiki/tsearch2slides>>

1736 FTS in PostgreSQL is provided by tsearch2, which should work without any indices (GiST or GIN) ! Indices provide performance, not functionality.

1737 In your example I'd do ( simple way, just for demo):

1738 **0.** compile, install tsearch2 and load tsearch2 into your database

1739 `cd contrib/tsearch2; make&&make&&install&&make installcheck; psql DB tsearch2.sql`

1740 **1.** Add column fts, which holds tsvector

1741 `alter table documents add column fts tsvector;`

1742 **2.** Fill fts column

1743 `update document set fts = to_tsvector(clean);`

1744 **3.** create index - just for performance !

1745 `create index fts_gin_idx on document using gin(fts);`

1746 **4.** Run vacuum

1747 `vacuum analyze document;`

1748 That's all.

1749 Now you can search:

1750 `select lid, metadata_tid, rank_cd(fts, q,2) as rank from document, plainto_tsquery('markup syntax') q where q @@ fts order by rank desc limit 10;`

#### 1751 **44.10 Are there some examples of using Ferret Search with a SiSU repository?**

1752 Heard good things about Ferret, but have not used it. The output directory structure and content produced by **SiSU** is

very uniform. Have looked at a couple of other engines (hyperestraier, lucene). There it was enough to identify the files that needed to be indexed and pass them to the search indexing tool. Some Unix runde doing the job, such as:

```
1753 find /home/ralph/sisu_www -type f |
egrep '/sisu_www/(sisu|document_archive)/.+?.html$' |
egrep -v '(doc|concordance).html$' |
estcmd gather -sd casket -
```

1754 you would have to experiment with what gives the desired result, the file doc.html is the complete text in html (there are additional smaller html segments), and plain.txt the document as a text file. It may be possible to index the text file and return the html document.

#### 1755 **44.11 Have you had any reports of building SiSU from tar on Mac OS 10.4?**

1756 None. In the early days of its release a Mac friend built and run the ruby code part that did not rely on system calls to bits like the latex engine. That is already some years back. He was not into writing or document markup, and did it as a favour at the time. I have not followed up that thread of development.

1757 It should however be possible, much of the output relies on plain ruby, and the system commands to latex etc. could be made appropriate for the underlying OS.

#### 1758 **44.12 Where is version 1.0?**

1759 Most of **SiSU** is mature and stable. Version 1.0 will be based on the current markup, (more likely with optional additions rather than significant changes) and directory structure. At this point (semantic tagging apart) it is largely a matter of choice as to when the version change is made.

1760 The feature set for html,<sup>111</sup> LaTeX/pdf and opendocument is

in place. XML, and plaintext are in order.

1761 html and LaTeX/pdf may be regarded as reference copy out-puts

1762 With regard to the populating of sql databases (postgresql and sqlite), there is a bit to be done.

1763 We are still almost there.

#### 45. Who might be interested in the SiSU feature set?

1764

SiSU is most likely to be of interest to people who are working with medium to large volumes of published texts that would like to have the presented in a uniform way that is searchable (either using sisu database integration or an appropriate indexing tool), with the possibility of multiple alternative output formats that may be added to and upgraded/updated over time. SiSU should be of interest to institutions/ organisations/ governments/ individuals with document collections and some technical knowhow that are interested in:

1765

- long term maintenance and reducing downstream/future costs of maintaining those document sets for which SiSU is suited.

1766

- the ability to output multiple standard format outputs for various purposes.

1767

- the implications for search offered

1768

<sup>111</sup>html w3c compliance has been largely met.

1769 **46. Work Needed**

1770 **SiSU** is fairly mature and for most purposes the syntax and what it is supposed to do is clear. For the most part additions and changes are minor and backward compatible, (in particular there may be things of interest that to be able to achieve will require additions to the syntax).

- 1771 • Amongst the most requested features is a way to represent and extract bibliographies from scholarly and other writings. This involves an extension of sisu markup syntax and a new module to extract the bibliography.
- 1772 • Integration of postgresql tsearch2 / gin indexing, (which currently needs to be done manually, and) which has been waiting for the integration of tsearch2 / gin into Postgresql main, which is supposed to occur in Postgresql 8.3
- 1773 • Internationalisation always. **SiSU** is utf-8 and for those parts that are utf-8 friendly will work out of the box - html and postgresql for example work out of the box (and for example comfortably represent Chinese text), LaTeX and odf do not work out of the box, they need additional work for extended language sets.
- 1774 • Refinements and improvements to output representations, some are fairly mature, others (such as manpages and info files (and even ODF) remain young.
- 1775 • Simple extension to contain, link and share included audio and multi-media files, (including sisupod.zip)

47. Wishlist 1776

**SiSU** provides a lot of “plumbing” and is readily usable as a tool by those comfortable with marking up documents with an editor. The syntax is fairly easy to learn, especially the subset required to start using **SiSU** effectively. 1777

**SiSU** might also be of interest to developers interested in: 1778

- experimenting with the search implications offered 1779
- producing additional output formats 1780
- producing conversion tools 1781
- producing input interfaces, (experimenting with additional interfaces for producing sisu source documents) 1782

Several tools that are of interest would come under the heading interface and conversion. Amongst others, the following are of interest: 1783

- Converters from various document formats, such as Open Document Text (ODF), MS Word(TM) and Word Perfect(TM), even html. The problem here is one of the most important things for **SiSU** is to be able to recognise the structure of a document, and many documents prepared in other formats have not been prepared strictly with a view to representing structure, but appearance - so heading levels may be “painted” to look right rather than have the correct structural representation. Even if conversion is not perfect this may serve as a first step in assisting in conversion of documents to **SiSU** for those with legacy document sets that they would like to have in sisu format. (once in **SiSU** it is easier to get out in various other formats as this is what sisu does, within the constraints of the information that sisu uses to generate output) 1784
- The possibility to save directly from from various word pro- 1785

cessors, and possibly templates within them to assist in making sure the document structure is “understood” by SiSU .

1786

- Web interface/front-end, a form like front end for the writing or submission of sisu documents to a server which uses SiSU to generate output. Headers could be made available as separate small entry forms with help provided to explain where they might be used. Apart from the most important headers such as title, author, date and possibly subject the remainder of the header forms could be placed after the form for substantive content. This would offer a more Web 2.0 like approach to the use of SiSU and the possibility of using it for collaborative editing of content (possibly for documents that are to be finalised/published as the citation system is most suited to published works). [Collaborative editing is currently possible through use of a collaborative editor such as Gobby which makes use of the Obby protocol].

#### 48. Editor Files, Syntax Highlighting

1787

The directory:

1788

./data/sisu/conf/editor-syntax-etc/

1789

/usr/share/sisu/conf/editor-syntax-etc

1790

contains rudimentary sisu syntax highlighting files for:

1791

- (g)vim <<http://www.vim.org>>

1792

package: sisu-vim

1793

status: largely done

1794

there is a vim syntax highlighting and folds component

1795

- gedit <<http://www.gnome.org/projects/gedit>>

1796

- gobby <<http://gobby.0x539.de/>>

1797

file: sisu.lang

1798

place in:

1799

/usr/share/gtksourceview-1.0/language-specs

1800

or

1801

./gnome2/gtksourceview-1.0/language-specs

1802

status: very basic syntax highlighting

1803

comments: this editor features display line wrap and is used by Goby!

1804

- nano <<http://www.nano-editor.org>>

1805

file: nanorc

1806

save as:

1807

./nanorc

1808

status: basic syntax highlighting

1809

comments: assumes dark background; no display line-wrap; does line breaks

1810

- 1811 • diakonos (an editor written in ruby) <<http://purepistos.net/>> 1835  
 diakonos> (require `sisu-mode.el) 1836  
 [not done / not yet included] 1836
- 1812 file: diakonos.conf • vim & gvim <<http://www.vim.org>> 1837
- 1813 save as: files: 1838
- 1814     /.diakonos/diakonos.conf package is the most comprehensive sisu syntax highlighting 1839  
 and editor environment provided to date (is for vim/ gvim,  
 and is separate from the contents of this directory)
- 1815 includes: status: this includes: syntax highlighting; vim folds; some 1840  
 error checking
- 1816     status: basic syntax highlighting comments: this editor features display line wrap 1841
- 1817 comments: assumes dark background; no display line-  
 wrap
- 1818 • kate & kwrite <<http://kate.kde.org>> NOTE: 1842
- 1819     file: sisu.xml [SiSU parses files with long lines or line breaks, but, display 1843  
 linewrap (without line-breaks) is a convenient editor feature to  
 have for sisu markup]
- 1820     place in:
- 1821         /usr/share/apps/katepart/syntax
- 1822     or
- 1823         /.kde/share/apps/katepart/syntax
- 1824     [settings::configure kate::{highlighting,filetypes}]
- 1825     [tools::highlighting::{markup,scripts}::SiSU ]
- 1826 • nedit <<http://www.nedit.org>>
- 1827     file: sisu\_nedit.pats
- 1828     nedit -import sisu\_nedit.pats
- 1829     status: a very clumsy first attempt [not really done]
- 1830     comments: this editor features display line wrap
- 1831 • emacs <<http://www.gnu.org/software/emacs/emacs.html>>
- 1832     files: sisu-mode.el
- 1833     to file   /.emacs add the following 2 lines:
- 1834         (add-to-list `load-path “/usr/share/sisu-examples/config/syntax\_hi”)

1844 **49. Help Sources**

1845 For a summary of alternative ways to get help on **SiSU** try 1866  
 1846 one of the following:

1846 **man page**

1847 man sisu\_help

1848 **man2html**

1849 <[http://www.jus.uio.no/sisu/man/sisu\\_help.1.html](http://www.jus.uio.no/sisu/man/sisu_help.1.html)>

1850 **sisu generated output - links to html**

1851 <[http://sisudoc.org/sisu/sisu\\_help/index.html](http://sisudoc.org/sisu/sisu_help/index.html)>

1852 **help sources lists**

1853 Alternative sources for this help sources page listed here:

1854 man sisu\_help\_sources

1855 <[http://sisudoc.org/sisu/sisu\\_help\\_sources/index.html](http://sisudoc.org/sisu/sisu_help_sources/index.html)>

1856 **49.1 man pages**1857 **49.1.1 man**

1858 man sisu

1859 man 7 sisu\_complete

1860 man 7 sisu\_pdf

1861 man 7 sisu\_postgresql

1862 man 7 sisu\_sqlite

1863 man sisu\_termsheet

1864 man sisu\_webrick

1865 **49.2 sisu generated output - links to html**

Note **SiSU** documentation is prepared in **SiSU** and output is available in multiple formats including amongst others html, pdf, and odf which may be also be accessed via the html pages<sup>112</sup>

49.2.1 **www.sisudoc.org**

<[http://sisudoc.org/sisu/sisu\\_manual/index.html](http://sisudoc.org/sisu/sisu_manual/index.html)>

<[http://sisudoc.org/sisu/sisu\\_manual/index.html](http://sisudoc.org/sisu/sisu_manual/index.html)>

<[http://sisudoc.org/sisu/sisu\\_commands/index.html](http://sisudoc.org/sisu/sisu_commands/index.html)>

<[http://sisudoc.org/sisu/sisu\\_complete/index.html](http://sisudoc.org/sisu/sisu_complete/index.html)>

<[http://sisudoc.org/sisu/sisu\\_configuration/index.html](http://sisudoc.org/sisu/sisu_configuration/index.html)>

<[http://sisudoc.org/sisu/sisu\\_description/index.html](http://sisudoc.org/sisu/sisu_description/index.html)>

<[http://sisudoc.org/sisu/sisu\\_examples/index.html](http://sisudoc.org/sisu/sisu_examples/index.html)>

<[http://sisudoc.org/sisu/sisu\\_faq/index.html](http://sisudoc.org/sisu/sisu_faq/index.html)>

<[http://sisudoc.org/sisu/sisu\\_filetypes/index.html](http://sisudoc.org/sisu/sisu_filetypes/index.html)>

<[http://sisudoc.org/sisu/sisu\\_help/index.html](http://sisudoc.org/sisu/sisu_help/index.html)>

<[http://sisudoc.org/sisu/sisu\\_help\\_sources/index.html](http://sisudoc.org/sisu/sisu_help_sources/index.html)>

<[http://sisudoc.org/sisu/sisu\\_howto/index.html](http://sisudoc.org/sisu/sisu_howto/index.html)>

<[http://sisudoc.org/sisu/sisu\\_introduction/index.html](http://sisudoc.org/sisu/sisu_introduction/index.html)>

<[http://sisudoc.org/sisu/sisu\\_manual/index.html](http://sisudoc.org/sisu/sisu_manual/index.html)>

<[http://sisudoc.org/sisu/sisu\\_markup/index.html](http://sisudoc.org/sisu/sisu_markup/index.html)>

<[http://sisudoc.org/sisu/sisu\\_output\\_overview/index.html](http://sisudoc.org/sisu/sisu_output_overview/index.html)>

<[http://sisudoc.org/sisu/sisu\\_pdf/index.html](http://sisudoc.org/sisu/sisu_pdf/index.html)>

<[http://sisudoc.org/sisu/sisu\\_postgresql/index.html](http://sisudoc.org/sisu/sisu_postgresql/index.html)>

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1886 <[http://sisudoc.org/sisu/sisu\\_quickstart/index.html](http://sisudoc.org/sisu/sisu_quickstart/index.html)> 190886 <[http://www.jus.uio.no/sisu/man/sisu\\_pdf.7.html](http://www.jus.uio.no/sisu/man/sisu_pdf.7.html)>

1887 <[http://sisudoc.org/sisu/sisu\\_remote/index.html](http://sisudoc.org/sisu/sisu_remote/index.html)> <[http://www.jus.uio.no/sisu/man/sisu\\_postgresql.7.html](http://www.jus.uio.no/sisu/man/sisu_postgresql.7.html)> 1909

1888 <[http://sisudoc.org/sisu/sisu\\_search/index.html](http://sisudoc.org/sisu/sisu_search/index.html)> <[http://www.jus.uio.no/sisu/man/sisu\\_sqlite.7.html](http://www.jus.uio.no/sisu/man/sisu_sqlite.7.html)> 1910

1889 <[http://sisudoc.org/sisu/sisu\\_skin/index.html](http://sisudoc.org/sisu/sisu_skin/index.html)> <[http://www.jus.uio.no/sisu/man/sisu\\_webrick.1.html](http://www.jus.uio.no/sisu/man/sisu_webrick.1.html)> 1911

1890 <[http://sisudoc.org/sisu/sisu\\_sqlite/index.html](http://sisudoc.org/sisu/sisu_sqlite/index.html)>

1891 <[http://sisudoc.org/sisu/sisu\\_syntax\\_highlighting/index.html](http://sisudoc.org/sisu/sisu_syntax_highlighting/index.html)>

1892 <[http://sisudoc.org/sisu/sisu\\_vim/index.html](http://sisudoc.org/sisu/sisu_vim/index.html)>

1893 <[http://sisudoc.org/sisu/sisu\\_webrick/index.html](http://sisudoc.org/sisu/sisu_webrick/index.html)>

## 1894 49.3 man2html

### 1895 49.3.1 locally installed

1896 <<file:///usr/share/doc/sisu/html/sisu.1.html>>

1897 <[file:///usr/share/doc/sisu/html/sisu\\_help.1.html](file:///usr/share/doc/sisu/html/sisu_help.1.html)>

1898 <[file:///usr/share/doc/sisu/html/sisu\\_help\\_sources.1.html](file:///usr/share/doc/sisu/html/sisu_help_sources.1.html)>

1899 /usr/share/doc/sisu/html/sisu.1.html

1900 /usr/share/doc/sisu/html/sisu\_pdf.7.html

1901 /usr/share/doc/sisu/html/sisu\_postgresql.7.html

1902 /usr/share/doc/sisu/html/sisu\_sqlite.7.html

1903 /usr/share/doc/sisu/html/sisu\_webrick.1.html

### 1904 49.3.2 www.jus.uio.no/sisu

1905 <<http://www.jus.uio.no/sisu/man/sisu.1.html>>

1906 <<http://www.jus.uio.no/sisu/man/sisu.1.html>>

1907 <[http://www.jus.uio.no/sisu/man/sisu\\_complete.7.html](http://www.jus.uio.no/sisu/man/sisu_complete.7.html)>

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<sup>112</sup>named index.html or more extensively through `sisu_manifest.html`

## Document Information (metadata)

### Metadata

Document Manifest @

<[http://www.sisudoc.org/sisu/sisu\\_manual/sisu\\_manifest.html](http://www.sisudoc.org/sisu/sisu_manual/sisu_manifest.html)>

### Dublin Core (DC)

*DC tags included with this document are provided here.*

DC Title: [SiSU - Manual](#)

DC Creator: [Ralph Amissah](#)

DC Rights: [Copyright \(C\) Ralph Amissah 2007, part of SiSU documentation, License GPL 3](#)

DC Type: [information](#)

DC Date created: [2002-08-28](#)

DC Date issued: [2002-08-28](#)

DC Date available: [2002-08-28](#)

DC Date modified: [2008-07-21](#)

DC Date: [2008-07-21](#)

### Version Information

Sourcefile: [sisu\\_manual.ssm.sst](#)

Filetype: [SiSU text insert 0.67](#)

Sourcefile Digest, MD5(sisu\_manual.ssm.sst)= [d822e0a897570f5b6b1db80f377590d2](#)

Skin\_Digest: MD5(skin\_sisu\_manual.rb)= [072b2584bedea82ea8a416587b9fa244](#)

### Generated

Document (metaverse) last generated: [Wed Dec 10 22:21:07 -0500 2008](#)

Generated by: [SiSU 0.70.0](#) of 2008w48/3 (2008-12-03)

Ruby version: [ruby 1.8.7 \(2008-08-11 patchlevel 72\) \[i486-linux\]](#)

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### Information on this document copy

[www.jus.uio.no/sisu/](http://www.jus.uio.no/sisu/)

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W3 since October 3 1993  SiSU 1997, current 2008. SiSU presentations at [www.jus.uio.no/sisu/](http://www.jus.uio.no/sisu/)

SiSU **pdf** versions can be found at:

[http://www.jus.uio.no/sisu/sisu\\_manual/portrait.pdf](http://www.jus.uio.no/sisu/sisu_manual/portrait.pdf)

[http://www.jus.uio.no/sisu/sisu\\_manual/landscape.pdf](http://www.jus.uio.no/sisu/sisu_manual/landscape.pdf)

SiSU **html** versions may be found at:

[http://www.jus.uio.no/sisu/sisu\\_manual/toc.html](http://www.jus.uio.no/sisu/sisu_manual/toc.html) OR

[http://www.jus.uio.no/sisu/sisu\\_manual/doc.html](http://www.jus.uio.no/sisu/sisu_manual/doc.html)

SiSU **Manifest** of document output and metadata may be found at:

[http://www.jus.uio.no/sisu/sisu\\_manual/sisu\\_manifest.html](http://www.jus.uio.no/sisu/sisu_manual/sisu_manifest.html)

SiSU found at: [www.jus.uio.no/sisu/](http://www.jus.uio.no/sisu/)

## Links that may be of interest at SiSU and elsewhere:

SiSU Manual

[http://www.jus.uio.no/sisu/sisu\\_manual/](http://www.jus.uio.no/sisu/sisu_manual/)

Book Samples and Markup Examples

<http://www.jus.uio.no/sisu/SiSU/examples.html>

SiSU @ Wikipedia

<http://en.wikipedia.org/wiki/SiSU>

SiSU @ Freshmeat

<http://freshmeat.net/projects/sisu/>

SiSU @ Ruby Application Archive

<http://raa.ruby-lang.org/project/sisu/>

SiSU @ Debian

<http://packages.qa.debian.org/s/sisu.html>

SiSU Download

<http://www.jus.uio.no/sisu/SiSU/download.html>

SiSU Changelog

<http://www.jus.uio.no/sisu/SiSU/changelog.html>

SiSU help

[http://www.jus.uio.no/sisu/sisu\\_manual/sisu\\_help/](http://www.jus.uio.no/sisu/sisu_manual/sisu_help/)

SiSU help sources

[http://www.jus.uio.no/sisu/sisu\\_manual/sisu\\_help\\_sources/](http://www.jus.uio.no/sisu/sisu_manual/sisu_help_sources/)

SiSU home:

[www.jus.uio.no/sisu/](http://www.jus.uio.no/sisu/)