# SiSU - SiSU information Structuring Universe / Structured information, Serialized Units

### Quickstart, installation and use

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For alternative output formats of this document check:

<http://www.jus.uio.no/sisu/sisu_quickstart/sisu_manifest.html>

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QUICKSTART - SiSU installation and use

# 1. Quickstart - Getting Started Howto

## 1.1 Installation

Installation is currently most straightforward and tested on the **Debian** platform, as there are packages for the installation of sisu and all requirements for what it does.

### 1.1.1 Debian Installation

**SiSU** is available directly from the **Debian** Sid and testing archives (and possibly Ubuntu), assuming your /etc/apt/sources.list is set accordingly:

```
aptitude update
aptitude install sisu-complete
```

The following /etc/apt/sources.list setting permits the download of additional markup samples:

```
#/etc/apt/sources.list
deb http://ftp.fi.debian.org/debian/ unstable main non-free contrib
deb-src http://ftp.fi.debian.org/debian/ unstable main non-free contrib
d
```

The aptitude commands become:

```
aptitude update
aptitude install sisu-complete sisu-markup-samples
```

If there are newer versions of **SiSU** upstream of the **Debian** archives, they will be available by adding the following to your /etc/apt/sources.list

```
#/etc/apt/sources.list
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
```

repeat the aptitude commands

```
aptitude update
aptitude install sisu-complete sisu-markup-samples
```

Note however that it is not necessary to install sisu-complete if not all

components of sisu are to be used. Installing just the package sisu will provide basic functionality.

### 1.1.2 RPM Installation

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

They may be downloaded from:

http://www.jus.uio.no/sisu/SiSU/download.html#rpm

as root type:

rpm -i [rpm package name]

### 1.1.3 Installation from source

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

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

- download the source package
- Unpack the source

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:

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)[1] or converting LaTeX to pdf.

#### setup.rb

This is a standard ruby installer, using setup.rb is a three step process. In the root directory of the unpacked **SiSU** as root type:

```
ruby setup.rb config
ruby setup.rb setup
#[and as root:]
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＞

#### "install"

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

ruby install base

or for a more complete installation:

ruby install

or

ruby install base

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

Further information on "rant" is available from:

＜http://make.rubyforge.org/＞

<http://rubyforge.org/frs/?group_id=615> 6447

48 For a list of alternative actions you may type:

49     ruby install help

50     ruby install -T

51 **1.2 Testing SiSU, generating output**

52 To check which version of sisu is installed:

53 sisu -v

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

55 ...

56  or

57 ...

58 change directory to the appropriate one:

59 cd /usr/share/doc/sisu/sisu_markup_samples/dfsg

60 **1.2.1 basic text, plaintext, html, XML, ODF**

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

62 sisu -NhwoabxXyv free_as_in_freedom.rms_and_free_software.sam_williams.sst

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

**1.2.2 LaTeX / pdf**

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

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

67 sisu -pv free_as_in_freedom.rms_and_free_software.sam_williams.sst

68 sisu -3 free_as_in_freedom.rms_and_free_software.sam_williams.sst

69 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

**1.2.3 relational database - postgresql, sqlite** 70

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

72 Assuming you have the database installed and the requisite permissions

73 sisu –sqlite –recreate

74 sisu –sqlite -v –import free_as_in_freedom.rms_and_free_software.sam_williams.sst

75 sisu –pgsql –recreate

76 sisu –pgsql -v –import free_as_in_freedom.rms_and_free_software.sam_williams.sst

**1.3 Getting Help** 77

**1.3.1 The man pages** 78

79 Type:

---

[1] There is nothing to stop MySQL support being added in future.

80    man sisu

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

82  • sisu.1 [2]

83  • sisu.8 [3]

84  • man directory [4]

### 1.3.2 Built in help

86  sisu –help

87  sisu –help –env

88  sisu –help –commands

89  sisu –help –markup

### 1.3.3 The home page

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

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

### 1.4 Markup Samples

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

95  <http://www.jus.uio.no/sisu/SiSU/2.html>

96  Additional markup samples are packaged separately in the file:

97  *

98  On **Debian** they are available in non-free[5] to include them it is necessary

to include non-free in your /etc/apt/source.list or obtain them from the sisu home site.

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[2] <http://www.jus.uio.no/sisu/man/sisu.1>
[3] <http://www.jus.uio.no/sisu/man/sisu.8>
[4] <http://www.jus.uio.no/sisu/man>

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[5] 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.

## DOCUMENT INFORMATION (METADATA)

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*DC tags included with this document are provided here.*

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SiSU presentations at **www.jus.uio.no/sisu/**

SiSU - SiSU information Structuring Universe / Structured information, Serialized Units **pdf** versions can be found at:

http://www.jus.uio.no/sisu/sisu_quickstart/portrait.pdf

http://www.jus.uio.no/sisu/sisu_quickstart/landscape.pdf

SiSU - SiSU information Structuring Universe / Structured information, Serialized Units **html** versions may be found at:

http://www.jus.uio.no/sisu/sisu_quickstart/toc.html or

http://www.jus.uio.no/sisu/sisu_quickstart/doc.html

SiSU Manifest of document output and metadata may be found at:

http://www.jus.uio.no/sisu/sisu_quickstart/sisu_manifest.html

SiSU found at: **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/

Book Samples and Markup Examples

http://www.jus.uio.no/sisu/SiSU/2.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/

SiSU help sources

http://www.jus.uio.no/sisu/sisu_manual/sisu_help_sources/

SiSU home:
**www.jus.uio.no/sisu/**