

# SiSU

Quickstart, installation and use

Ralph Amissah

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# SiSU - QUICKSTART, INSTALLATION AND USE, RALPH AMISSAH

## 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)<sup>1</sup> 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](http://rubyforge.org/frs/?group_id=615)>

For a list of alternative actions you may type:

ruby install help

ruby install -T

## 1.2 Testing SiSU, generating output

To check which version of sisu is installed:

sisu -v

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

...

or

...

change directory to the appropriate one:

cd /usr/share/doc/sisu/sisu\_markup\_samples/dfsg

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

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

sisu -NhwoabxXyv free\_as\_in\_freedom.rms\_and\_free\_software.sam\_williams.sst

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

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### 1.2.2 LaTeX / pdf

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

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

sisu -pv free\_as\_in\_freedom.rms\_and\_free\_software.sam\_williams.sst

sisu -3 free\_as\_in\_freedom.rms\_and\_free\_software.sam\_williams.sst

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

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

Assuming you have the database installed and the requisite permissions

sisu --sqlite --recreate

sisu --sqlite -v --import free\_as\_in\_freedom.rms\_and\_free\_software.sam\_williams.sst

sisu --pgsql --recreate

sisu --pgsql -v --import free\_as\_in\_freedom.rms\_and\_free\_software.sam\_williams.sst

## 1.3 Getting Help

### 1.3.1 The man pages

Type:

<sup>1</sup> There is nothing to stop MySQL support being added in future.

man sisu

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

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

- [sisu.1](#)<sup>2</sup>
- [sisu.8](#)<sup>3</sup>
- [man directory](#)<sup>4</sup>

### 1.3.2 Built in help

`sisu -help`

`sisu -help -env`

`sisu -help -commands`

`sisu -help -markup`

### 1.3.3 The home page

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

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

### 1.4 Markup Samples

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

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

Additional markup samples are packaged separately in the file:

\*

On **Debian** they are available in non-free<sup>5</sup> to include them it is necessary

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<sup>2</sup> <<http://www.jus.uio.no/sisu/man/sisu.1>>

<sup>3</sup> <<http://www.jus.uio.no/sisu/man/sisu.8>>

<sup>4</sup> <<http://www.jus.uio.no/sisu/man>>

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<sup>5</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.

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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\\_quickstart/portrait.pdf](http://www.jus.uio.no/sisu/sisu_quickstart/portrait.pdf)

[http://www.jus.uio.no/sisu/sisu\\_quickstart/landscape.pdf](http://www.jus.uio.no/sisu/sisu_quickstart/landscape.pdf)

SiSU **html** versions may be found at:

[http://www.jus.uio.no/sisu/sisu\\_quickstart/toc.html](http://www.jus.uio.no/sisu/sisu_quickstart/toc.html) OR

[http://www.jus.uio.no/sisu/sisu\\_quickstart/doc.html](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](http://www.jus.uio.no/sisu/sisu_quickstart/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/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/](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/)