

Running SageMath (with or without installation)

<http://www.sagemath.org/>

Various ways to install/access SageMath 7.6

- **Install on your computer:** 2 options:
 - install a compiled binary version for Linux, MacOS X or Windows¹ from <http://www.sagemath.org/download.html>
 - compile from source (Linux, MacOS X): check the **prerequisites** (see [here](#) for Ubuntu) and run

```
git clone git://github.com/sagemath/sage.git
cd sage
MAKE='make -j8' make
```
- **Run on your computer without installation: Sage Debian Live**
<http://sagedebianlive.metelu.net/>
Bootable USB flash drive with SageMath (boosted with octave, scilab), Geogebra, LaTeX, gimp, vlc, LibreOffice,...
- **Open a (free) account on SageMathCloud**
<https://cloud.sagemath.com/>
- **Run in SageMathCell**
Single cell mode: <http://sagecell.sagemath.org/>

¹requires VirtualBox; alternatively, a full Windows installer is in pre-release stage at

Example 1: installing on Ubuntu 16.04

- 1 Download the archive `sage-7.6-Ubuntu_16.04-x86_64.tar.bz2` from one of the mirrors listed at <http://www.sagemath.org/download-linux.html>
- 2 Run the following commands in a terminal:

```
bunzip2 sage-7.6-Ubuntu_16.04-x86_64.tar.bz2
tar xvf sage-7.6-Ubuntu_16.04-x86_64.tar
cd SageMath
./sage -n jupyter
```

A Jupyter home page should then open in your browser. Click on *New* and select *SageMath 7.6* to open a Jupyter notebook with a SageMath kernel.

Example 2: using the SageMathCloud

- 1 Open a free account on <https://cloud.sagemath.com/>
- 2 Create a new project
- 3 In the second top menu, click on *New* to create a new file
- 4 Select *Jupyter Notebook* for the file type
- 5 In the Jupyter menu (third row from the top), click on *Kernel*, then *Change kernel* and choose *SageMath 7.6*

Various ways to run SageMath

- **Console mode:**

run `sage`

- **Jupyter Notebook:**

run `sage -n jupyter`

⇒ worksheet file format: `ipynb`

- **Legacy Sage Notebook:**

run `sage -n`

⇒ worksheet file format: `sws`

- **SageMathCloud:**

in your browser, open <https://cloud.sagemath.com/>

⇒ worksheet file format: `sagews`, `ipynb`