

## Jupyter Magic Commands

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## Jupyter Magic Commands

Cloudera Machine Learning's Scala and Python kernels are based on Jupyter kernels. Jupyter kernels support varying magic commands that extend the core language with useful shortcuts. This section details the magic commands (magics) supported by Cloudera Machine Learning.

Line magics begin with a single `%`: for example, `%timeit`. Cell magics begin with a double `%%`: for example, `%%bash`.

### Python

In the default Python engine, Cloudera Machine Learning supports most line magics, but no cell magics.

Cloudera Machine Learning supports the shell magic `!`: for example, `!ls -alh /home/cdsw`.

Cloudera Machine Learning supports the help magics `?` and `??`: for example, `?numpy` and `??numpy`. `?` displays the docstring for its argument. `??` attempts to print the source code. You can get help on magics using the `?` prefix: for example, `?%timeit`.

Cloudera Machine Learning supports the line magics listed at <https://ipython.org/ipython-doc/3/interactive/magics.html#line-magics>, with the following exceptions:

- `%colors`
- `%debug`
- `%edit`
- `%gui`
- `%history`
- `%install_default_config`
- `%install_profiles`
- `%lsmagic`
- `%macro`
- `%matplotlib`
- `%notebook`
- `%page`
- `%pastebin`
- `%pdb`
- `%prun`
- `%pylab`
- `%recall`
- `%rerun`
- `%save`
- `%sc`

#### Related reference

[Scala](#)

### Scala

Cloudera Machine Learning's Scala kernel is based on Apache Toree. It supports the line magics documented in the Apache Toree [magic tutorial](#).

**Related reference**

[Python](#)