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- ► Formerly IPython
- Open source, web (server) based application
- ► Mathematica-like, cell-based notebooks
- ► Can run different kernels (e.g. Python, R, Julia)
- Can be used with VC (requires parsing before commit)
- Notebooks can run in a browser (also locally), the nteract app and in Atom (with the Hydrogen package)

# Jupyter

- Jupyter itself runs on Python
- Jupyter strongly recommends using the Anaconda distribution, but it also works with basic installations
- Basic installation via pip
- pip install jupyter (python 2)
- pip3 install jupyter (python 3)
- Running Jupyter: jupyter notebook

- Installing kernels usually works by adding packages for the desired language
- For Julia:
  - Pkg.add("IJulia")
- For R:
  - install.packages(c('repr', 'IRdisplay',
     'evaluate', 'crayon', 'pbdZMQ', 'devtools',
     'uuid', 'digest'))
  - devtools::install\_github('IRkernel/IRkernel')
  - ► IRkernel::installspec(user = FALSE) (system wide)
- ► For Ruby:
  - gem install cztop iruby
  - iruby register -force

# Jupyter Useful shortcuts

Enter	enter edit mode
Shift-Enter	run cell, select cell below
Ctrl-Enter	run cell
Alt-Enter	run cell, insert cell below
Y	to code
М	to markdown
R	to raw
L	toggle line numbers
0	toggle output
Shift-O	toggle output scrolling

- Extension for the Atom editor
- Open source
- ► MATLAB-like, file-based source code
- Can be used directly with VC

### Juno Installation

- ► Install Atom
- ▶ Install the uber-juno package for Atom

## Juno Useful shortcuts

Ctrl+Shift+p	Open the command panel
Ctrl+Enter	Evaluate at the cursor
Ctrl+Shift+Enter	Evaluate the current file
Ctrl+j Ctrl+o	Open the console
Ctrl+j Ctrl+c	Clear the console
Ctrl+j Ctrl+s	Start Julia
Ctrl+j Ctrl+k	Kill the Julia process
Ctrl+j Ctrl+r	Open a REPL
Ctrl+j Ctrl+p	Open the Plot Pane
Ctrl+j Ctrl-d	Get doc for symbol under the cursor
Ctrl+j Ctrl-g	Go to def of symbol under cursor

### Other IDEs

- ▶ JuliaPro (actual IDEs are Juno, Eclipse and Jupyter)
- JuliaBox (browser based Jupyter)
- ► Sublime-Julia (dead?)
- emacs
- ▶ vim
- ► REPL
- ► JupyterLab (Jupyter "2.0")