

Software background

Julian

June 16, 2015

- 1 R
- 2 Jupyter/IPython
- 3 Julia

A large yellow rectangle with the letter 'R' in the center.

R resources

- CRAN Comprehensive R Archive Network
- CRAN task views
- R-bloggers
- Many, many, many others...

RStudio

- Integrated Development Environment (IDE) for R
- Web browser
- Active development of several R packages
- R Markdown - Markdown flavor for R
- Git/SVN for version control
- Syntax highlighting for other languages

Sweave/knitr

- Sweave: report generation for R
- `knitr`
 - extends functionality of Sweave
 - works with R Markdown

Jupyter/IPython

Eclipse

- IDE for Python
- Interfaces with IPython
- Git/SVN for version control
- Use with Anaconda distribution

Julia

Jupyter

- Use Julia with Jupyter/IPython notebook
- Compare results with R, Python in-notebook
- Julia magics