

# Conclusions for SPR 2020

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# Julia

- ▶ [Julia Express](#)
- ▶ [Introduction to Computational thinking](#) (Alan Edelman, David Sanders, Grant Sanderson et al.)
- ▶ [Quantecon cheatsheet](#) (Julia, Matlab, Python)

# Git and github

Spectrum of solutions:

**RCS:** version control from the 1980s...

**Git:** Version control for those with an IQ of over 200.

<https://lab.github.com/>

<https://lgatto.github.io/github-intro/>

<https://github.com>

Get the educational pack via <https://education.github.com>.

# Notebooks and mybinder

Rstudio can be run in the cloud.

e.g. [https:](https://mybinder.org/v2/gh/sje30/neuRo/master?urlpath=rstudio)

[//mybinder.org/v2/gh/sje30/neuRo/master?urlpath=rstudio](https://mybinder.org/v2/gh/sje30/neuRo/master?urlpath=rstudio)

See: <https://github.com/sje30/neuRo>

but it also runs [notebooks](#), e.g. [Jupyter with R](#)

Other solutions exist including [colab](#) and [pluto.jl](#).

# Writing your own packages

Wrap up your code and data into an R package so that it can be easily shared with others (or just for yourself...)

e.g. <https://rstudio.com/resources/rstudioconf-2018/you-can-make-a-package-in-20-minutes-jim-hester/>

[https://evamaerey.github.io/package\\_in\\_20\\_minutes/package\\_in\\_20\\_minutes](https://evamaerey.github.io/package_in_20_minutes/package_in_20_minutes)

# Tidyverse

Hadley Wickham's important contributions to R...

The “tidyverse” approach

ggplot2 <https://ggplot2.tidyverse.org/>

devtools <https://devtools.r-lib.org/>

Advanced R <https://adv-r.hadley.nz/>

R for data science: <https://r4ds.had.co.nz/index.html>

Now practice



Figure 1: awesome

<https://www.savagechickens.com/2016/04/practice.html>