

REPRODUCIBLE RESEARCH WITH R

STATISTICAL ANALYSIS WITH R USING RSTUDIO, GITHUB, KNITR AND SHINY

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Population Ageing

OXFORD – 19th March 2015

OUTLINE

- Introduction
- Reproducibility
- RStudio
- GitHub
- knitr
- RPubS
- Shiny

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 4. Reproduce the analysis

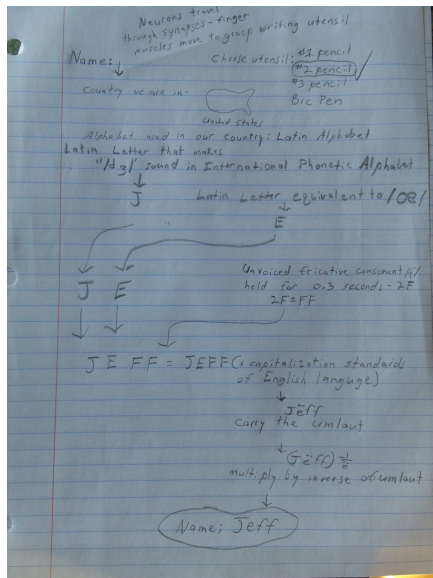
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REPRODUCIBILITY: SHOW YOUR WORK!

imgur user TVsJeff:

"A math teacher took points off for not showing all of my work. The next homework assignment i turned in looked like this. It was 45 pages long."



- Probably the most popular IDE for R
- Launched February 2011
- January 2012 - Project system and Version control integration (git/SVN)
- May 2012 - knitr & R Markdown publishing tools added
- June 2012 - publish to RPubs integration
- December 2013 - Shiny integration
- October 2014 - direct publishing to shinyapps.io

VERSION CONTROL: GIT



GIT/GITHUB FOR REPRODUCIBLE RESEARCH

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- FULL documentation

- Collaboration

- Dissemination

- Backup

- Facebook of code