Programming Toolkit for Data Science

Programming Toolkit: Version Control and Collaboration

Git and GitHub

The following content is based on Mine Çetinkaya-Rundel's excellent book Data Science in a Box

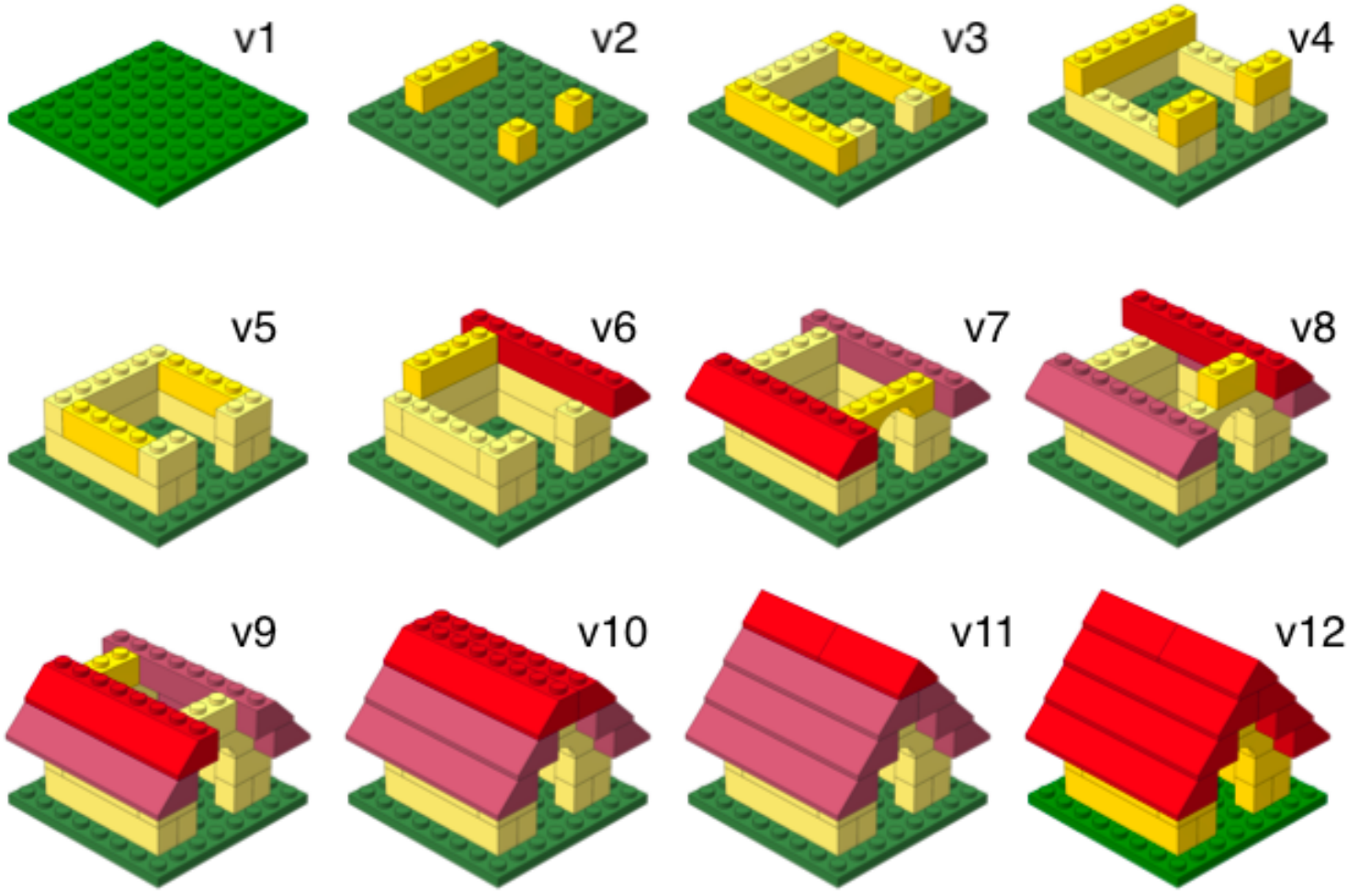
Git and GitHub

- Git is a version control system -- like "Track Changes" features from Microsoft Word, on steroids
- It's not the only version control system, but it's a very popular one

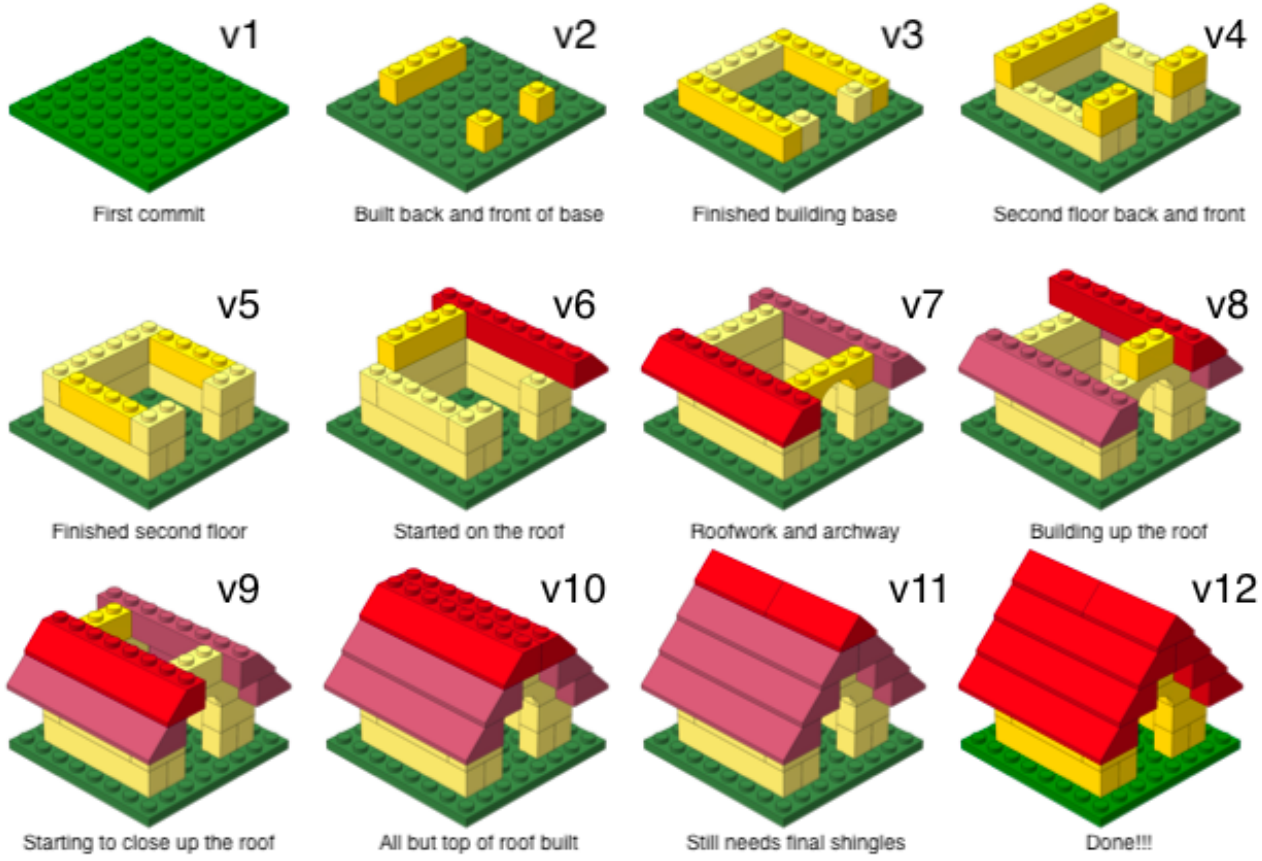
- GitHub is the home for your Git-based projects on the internet -- like DropBox but much, much better

- We will use GitHub as a platform for web hosting and collaboration (and as our course management system!)

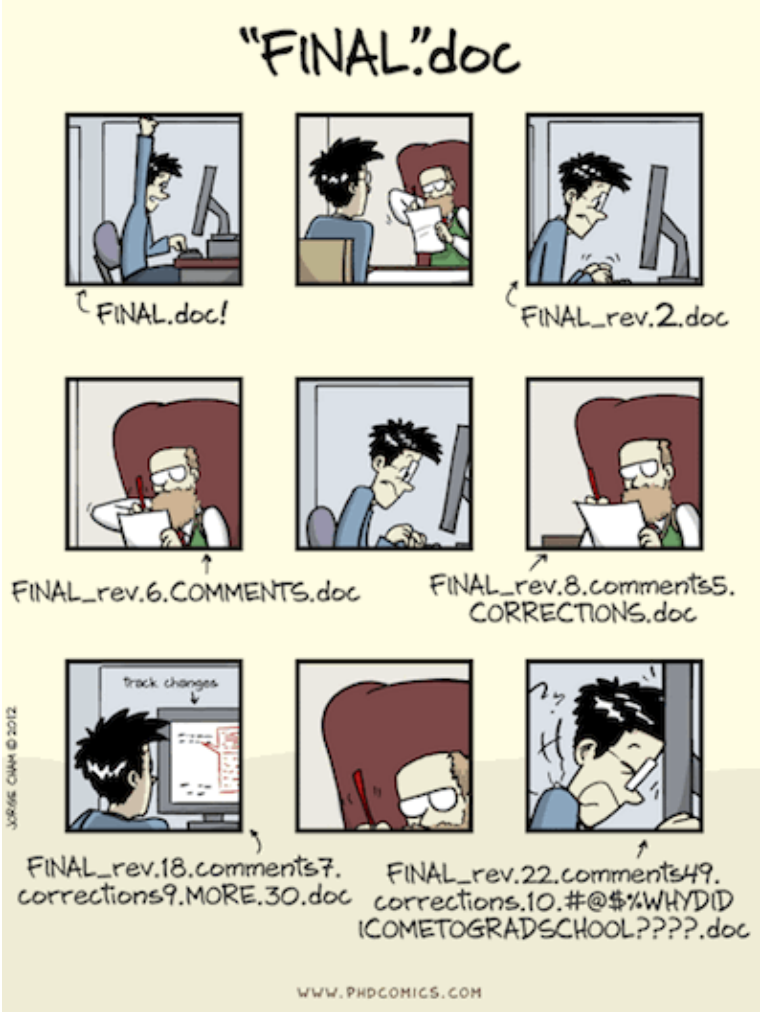
Versioning



Versioning
with human readable messages



Why do we need version control?



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Git and GitHub tips

- There are a lot of git commands but 99% of the time you will use git to `add`, `commit`, `push`, and `pull`.
- We will be doing Git things and interfacing with GitHub through RStudio and GitHub Desktop.
- There is a great resource for working with git and R: happygitwithr.com.

Tour: Git and GitHub

- Create a GitHub account
- Download GitHub Desktop
- Verify your GitHub email
- Adjust your GitHub settings for a more pleasant GitHub experience
    - Settings > Update name and photo