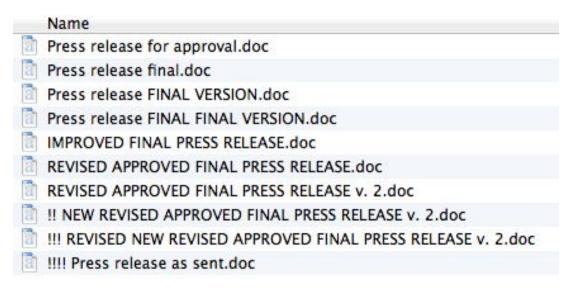
Introduction to GitHub

Naomi Waterlow, Julian Matthewman, Based on material by Sam Clifford and Andre Valle Campos

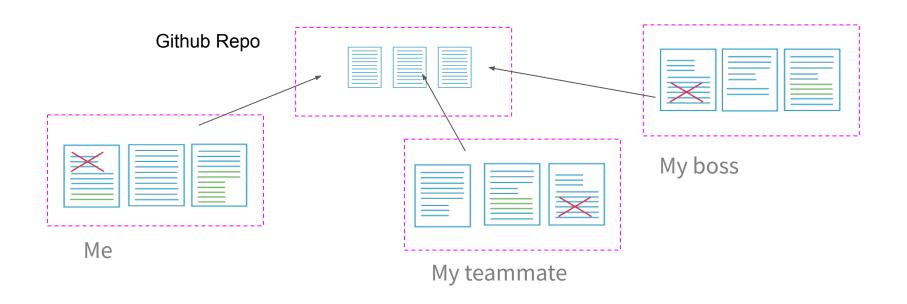
Why use GitHub?

1. Version Control

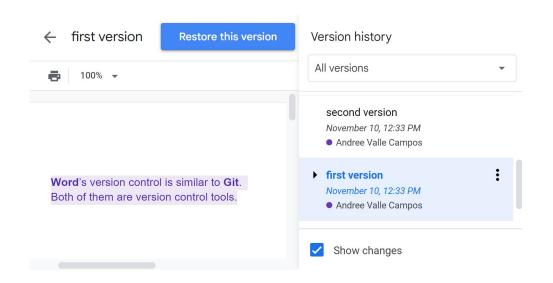


Why use GitHub?

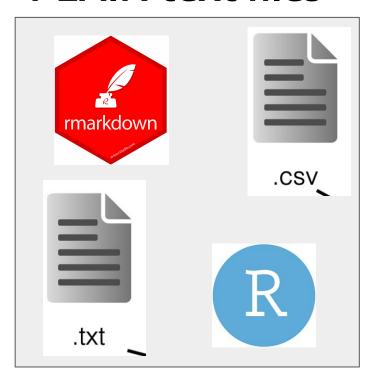
2. Facilitates Collaboration and makes contributions transparent

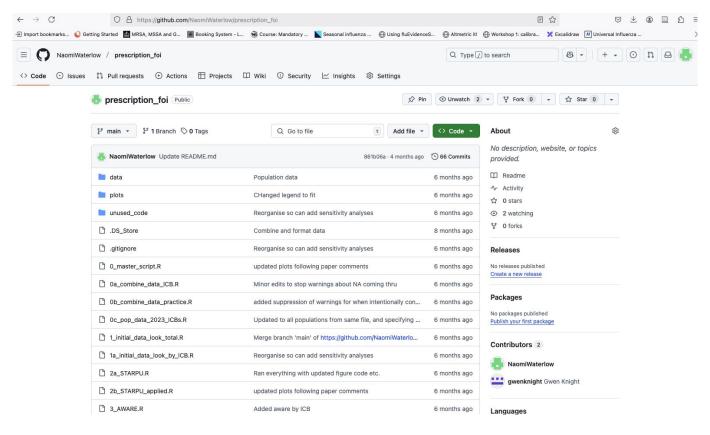


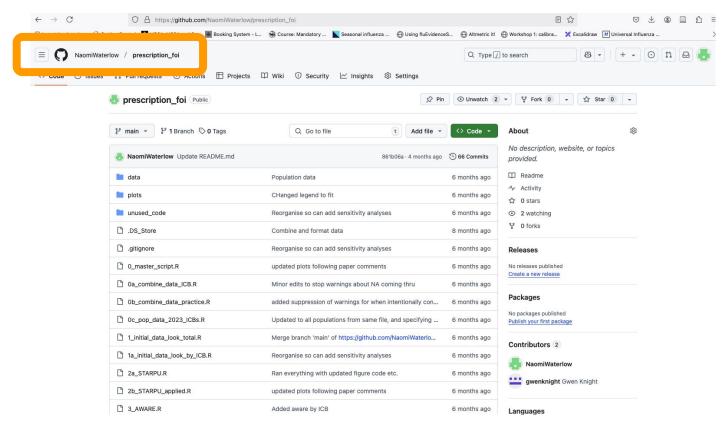
A bit like google docs?

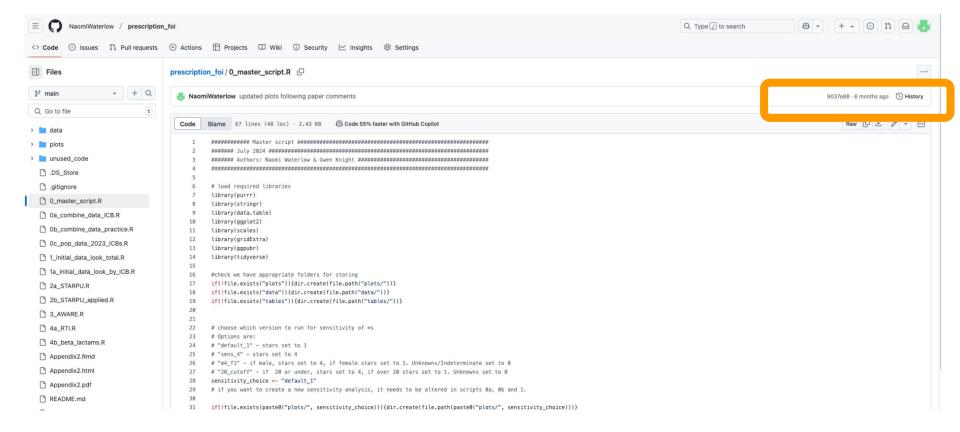


PLAIN text files







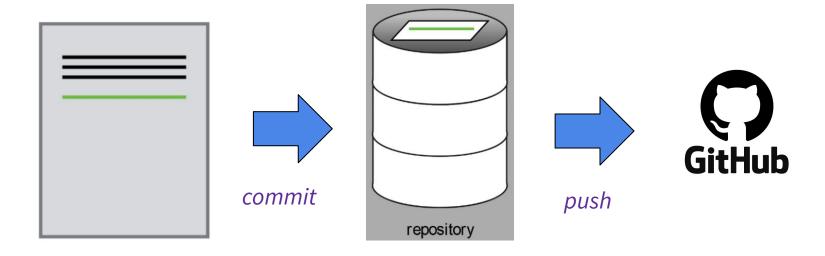


Commits



```
1 file changed +2 -0 lines changed
∨ 0_master_script.R 🗗 💠
            @@ -11,10 +11,12 @@ library(ggplot2)
            library(scales)
11
     11
            library(gridExtra)
12
     12
            library(ggpubr)
     13
          + library(tidyverse)
14
     15
15
     16
            #check we have appropriate folders for storing
            if(!file.exists("plots")){dir.create(file.path("plots/"))}
16
     17
            if(!file.exists("data")){dir.create(file.path("data/"))}
17
     18
          + if(!file.exists("tables")){dir.create(file.path("tables/"))}
     20
18
     21
19
            # choose which version to run for sensitivity of *s
20
     22
  ....
```

How does it work?



Change document on your computer

Save as a new "version"

Online

Many ways to do it...

Command line

https://epiverse-trace.github.io/git-rstudio-basics/

GitHub Desktop

Rstudio

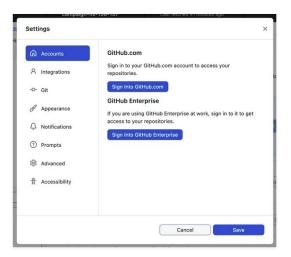
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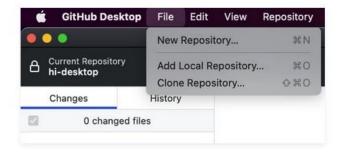


Using GitHub Desktop

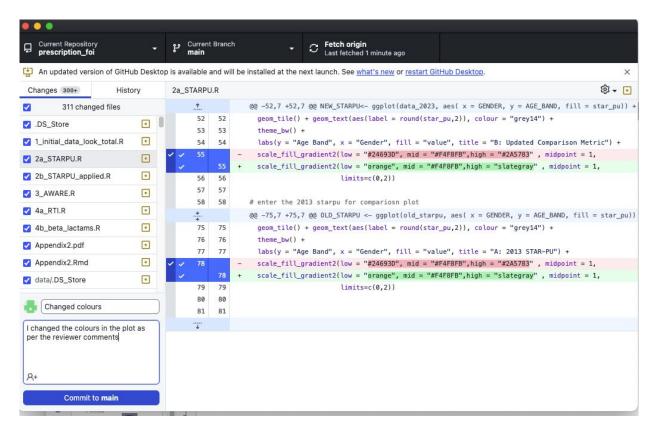
- Download
- 2. Sign-in
- 3. Get your repositories!

https://desktop.github.com/download/

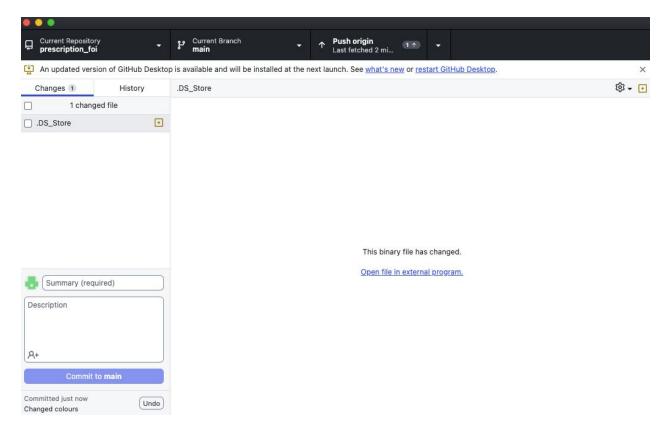




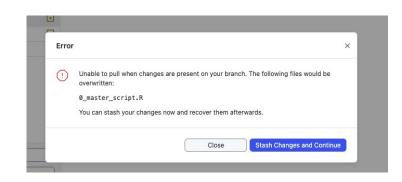
Using Github Desktop - an example

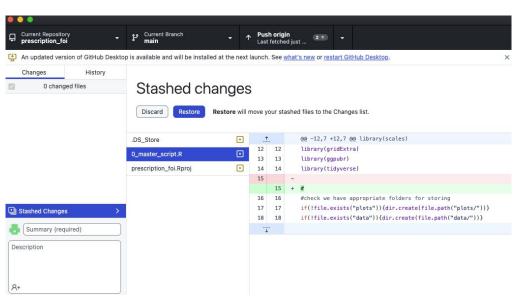


Using Github Desktop - an example



I changed something on the online version and then the same line in my desktop version, at the same time! And then I tried to commit...



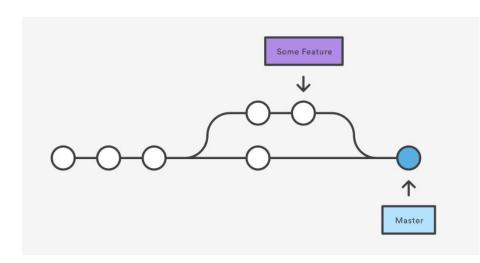


Repository settings

NaomiWaterlow / prescription_foi Q 1 ○ Issues 11 Pull requests ○ Actions 〒 Projects □ Wiki ① Security ☑ Insights ፡ Settings Add collaborators General General Access Repository name A Collaborators prescription_foi Rename Moderation options ☐ Template repository Template repositories let users generate new repositories with the same directory structure and files, Learn more about template Code and automation repositories. P Branches Require contributors to sign off on web-based commits Make public / private ○ Tags Enabling this setting will require contributors to sign off on commits made through GitHub's web interface. Signing off is a way for contributors to affirm that their commit complies with the repository's terms, commonly the Developer Certificate of Origin (DCO). Et Rules Learn more about signing off on commits. (F) Actions Default branch & Webhooks Environments The default branch is considered the "base" branch in your repository, against which all pull requests and code □ Codespaces commits are automatically made, unless you specify a different branch. Pages main Rename, delete etc. Security Code security Social preview Deploy keys Upload an image to customize your repository's social media preview. * Secrets and variables Images should be at least 640×320px (1280×640px for best display). Integrations **Download template** 88 GitHub Apps @ Edit

M Email notifications

Branches



https://www.atlassian.com/git/tutorials/using-branches/git-merge

