

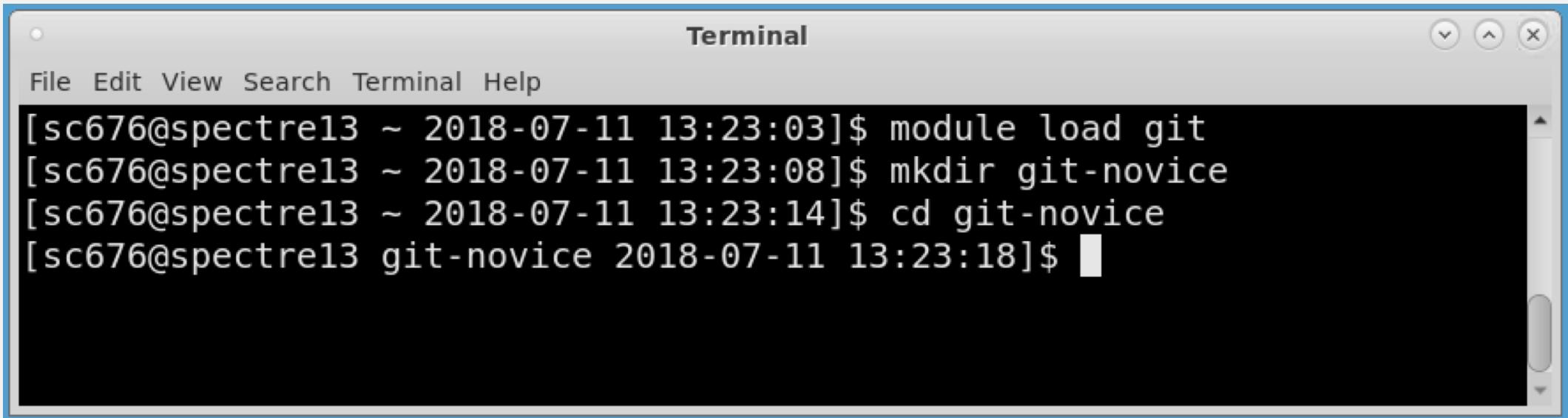
AN INTRODUCTION TO GIT

University of Leicester

RESOURCES AND SETUP

<https://uniofleicester.github.io/git-novice/>

Log in to Spectre



The screenshot shows a macOS Terminal window titled "Terminal". The menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The main pane displays the following command-line session:

```
[sc676@spectre13 ~ 2018-07-11 13:23:03]$ module load git
[sc676@spectre13 ~ 2018-07-11 13:23:08]$ mkdir git-novice
[sc676@spectre13 ~ 2018-07-11 13:23:14]$ cd git-novice
[sc676@spectre13 git-novice 2018-07-11 13:23:18]$ █
```

"FINAL".doc



FINAL.doc!



FINAL_rev.2.doc



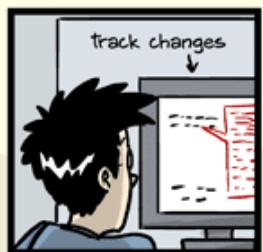
FINAL_rev.6.COMMENTS.doc



FINAL_rev.8.comments5.
CORRECTIONS.doc



FINAL_rev.18.comments7.
corrections9.MORE.30.doc



FINAL_rev.22.comments49.
corrections.10.#@\$%WHYDID
ICOMETOGRAD SCHOOL?????.doc

FINAL_rev.22.comments49.
corrections.10.#@\$%WHYDID
ICOMETOGRAD SCHOOL?????.doc

WHY VERSION CONTROL?

My script used to work; I changed it,
and now it's broken.

I wrote a good paragraph, decided to reword it,
and now I want to go back.

I want to re-run an analysis from 6 months
ago – which script version did I use?

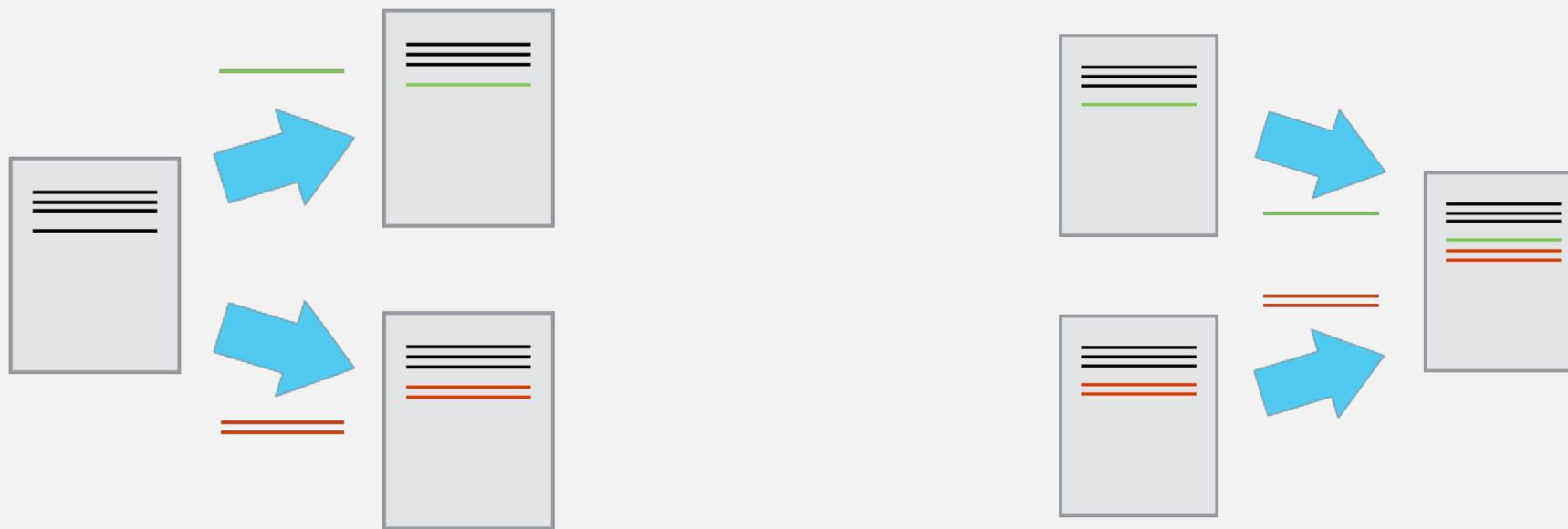
I want to share code with my colleagues.

I don't want to lose all my work if my
laptop dies...

HOW DOES IT WORK?



MAKE DIFFERENT CHANGES



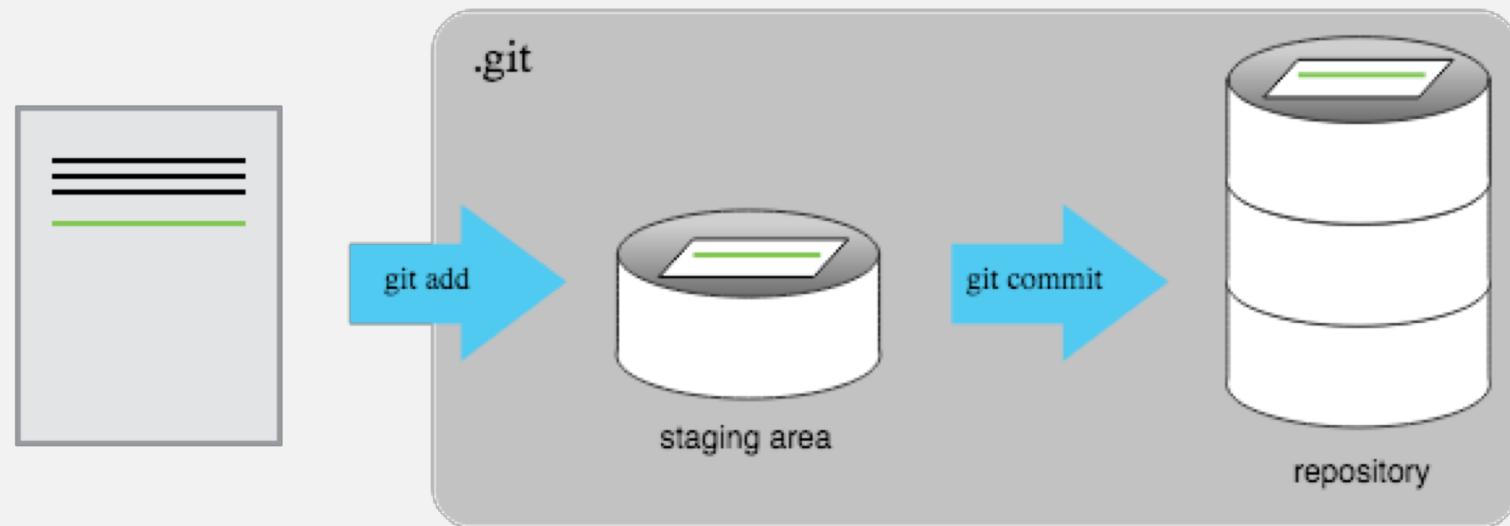
WHY GIT?

- There are many version control systems – Git, Mercurial, Subversion, etc.
 - Git is just the most popular.
- Almost everything we discuss today is relevant to all the other systems
 - It's just a different syntax.

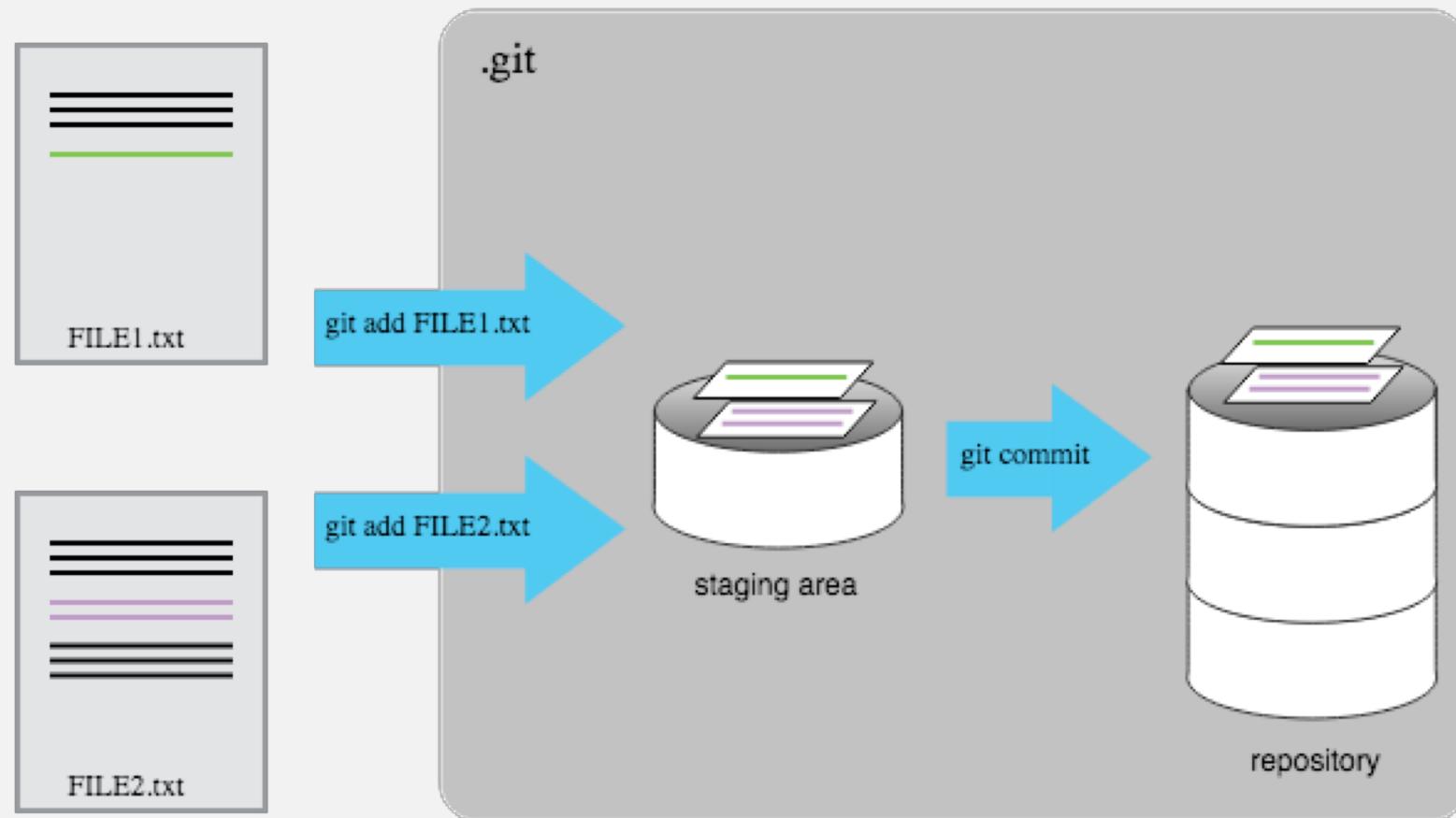
SETTING UP GIT

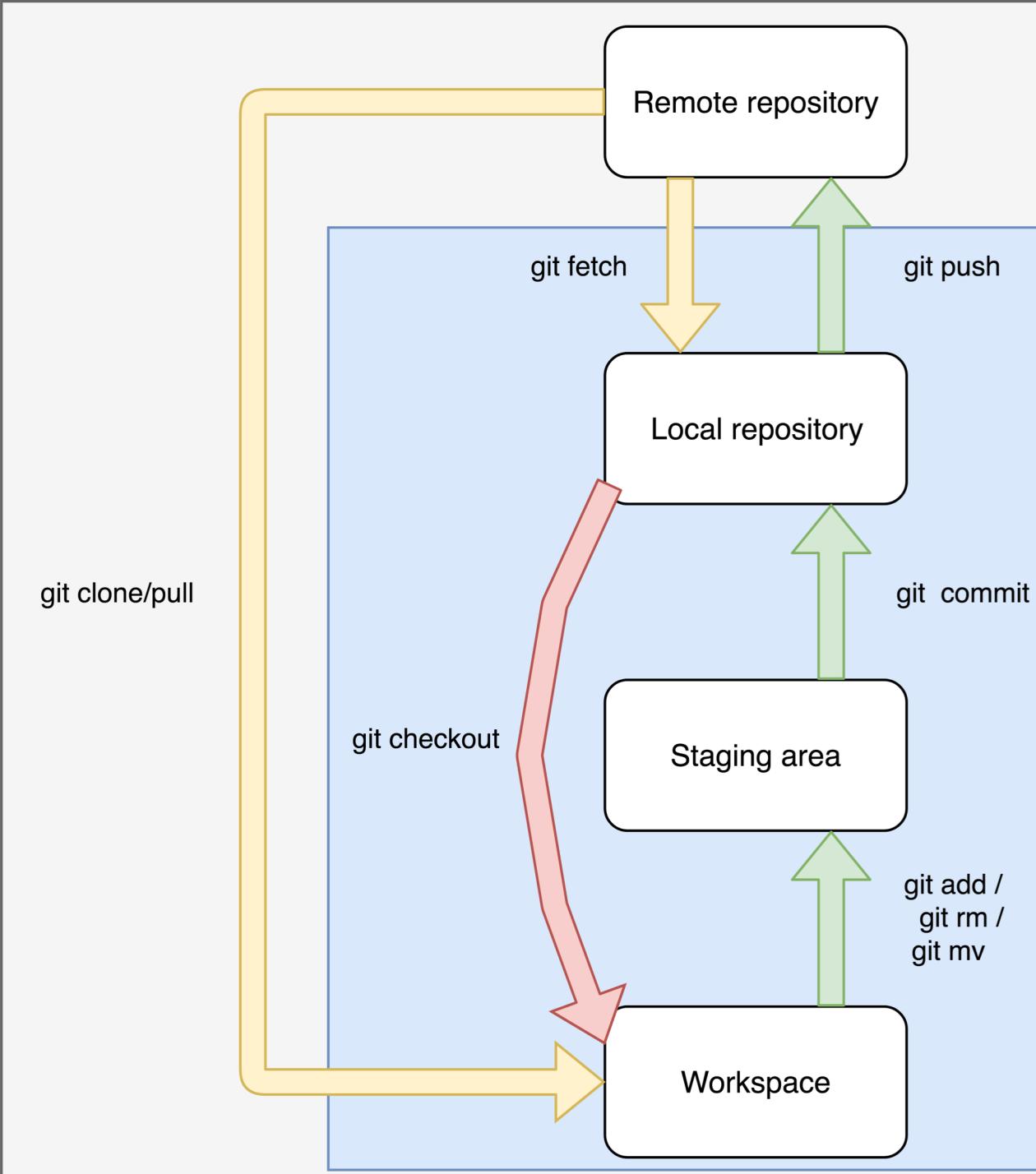
<https://uniofleicester.github.io/git-novice/>

TRACKING CHANGES



TRACKING CHANGES

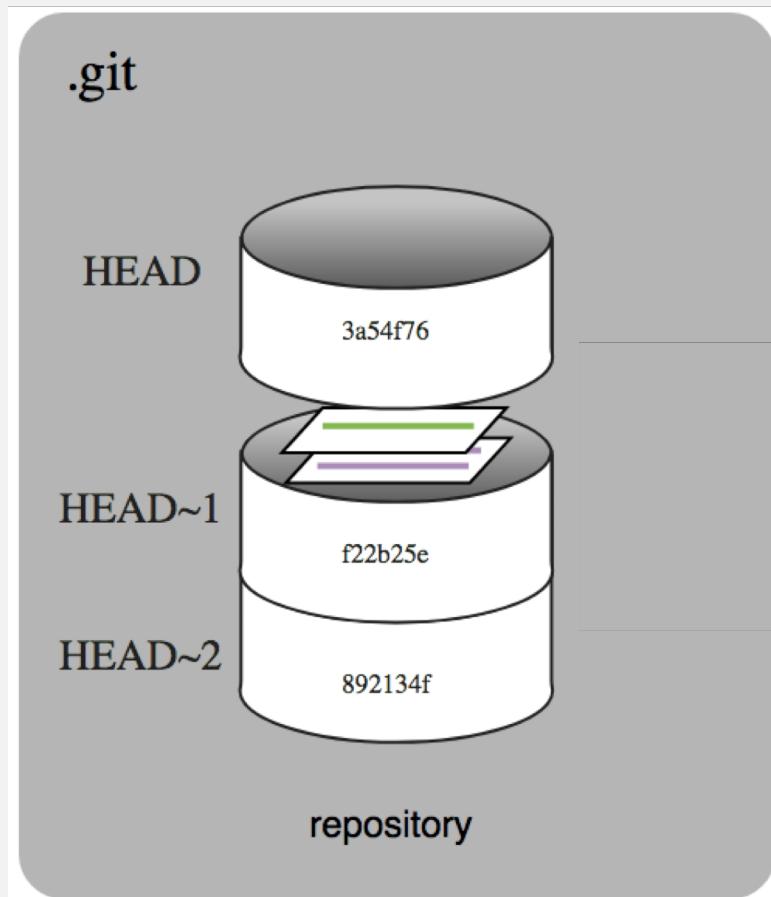




YOUR TURN!

<https://uniofleicester.github.io/git-novice/04-changes/>

EXPLORING HISTORY



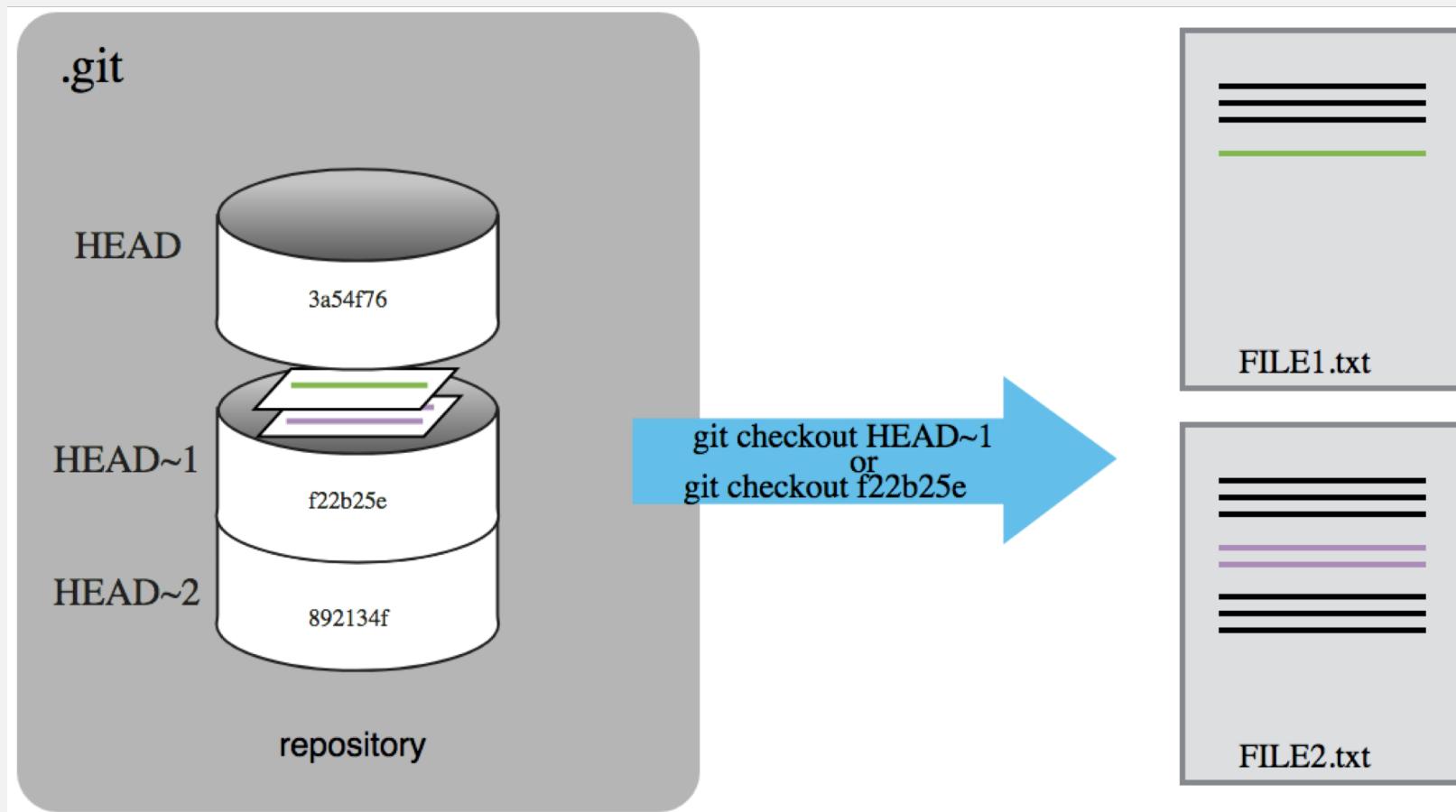
COMPARING ACROSS HISTORY

```
[IT-4670:planets sc676$ git diff 0f787d0 2e764a3 mars.txt
diff --git a/mars.txt b/mars.txt
index e8bc1a5..e7555e7 100644
--- a/mars.txt
+++ b/mars.txt
@@ -1 +1,2 @@
 Cold and dry, but everything is my favourite colour.
+The two moons may be a problem for Wolfman.
IT-4670:planets sc676$ ]
```

YOUR TURN!

<https://uniofleicester.github.io/git-novice/05-history/>

NAVIGATING THROUGH HISTORY

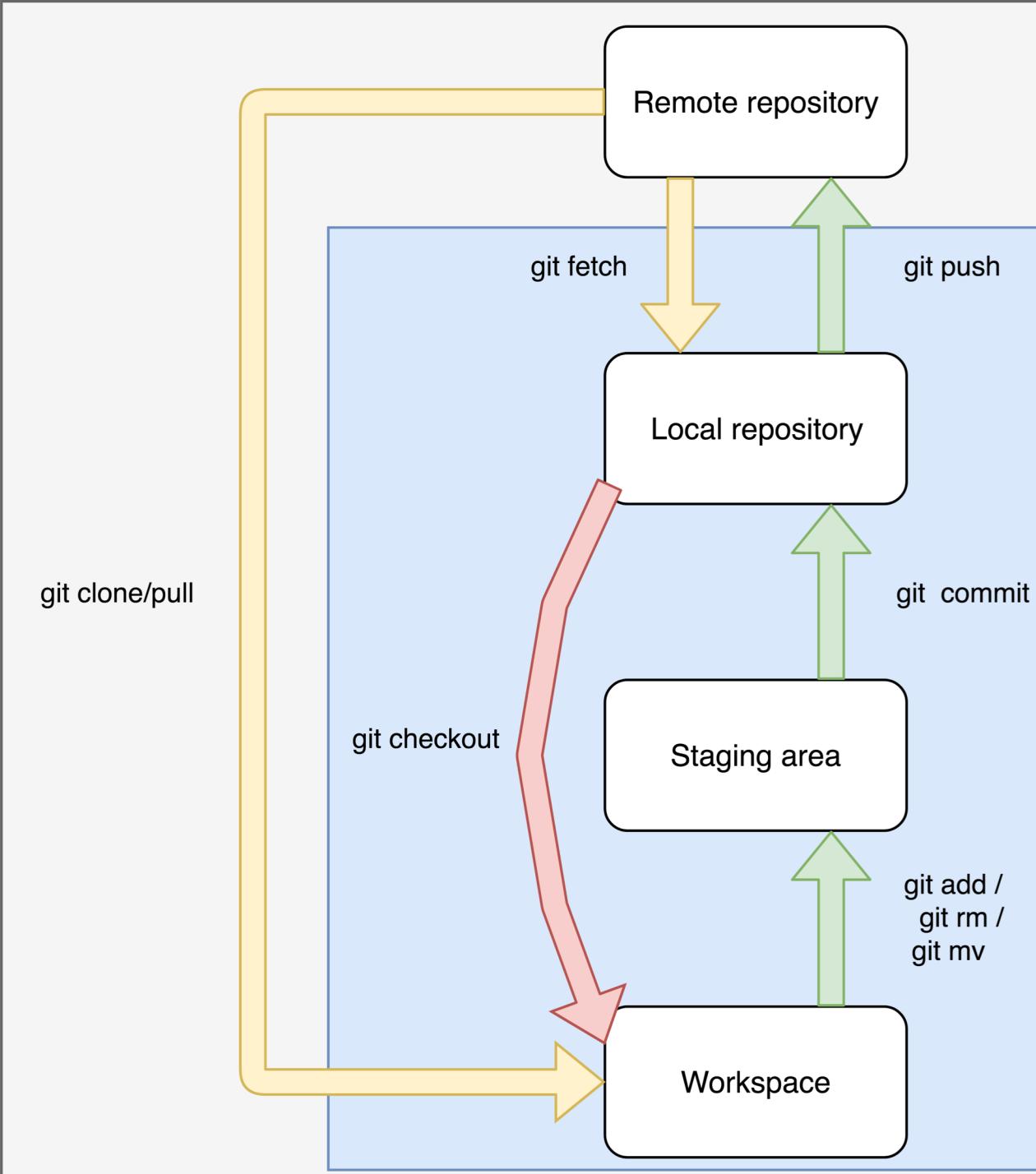


YOUR TURN!

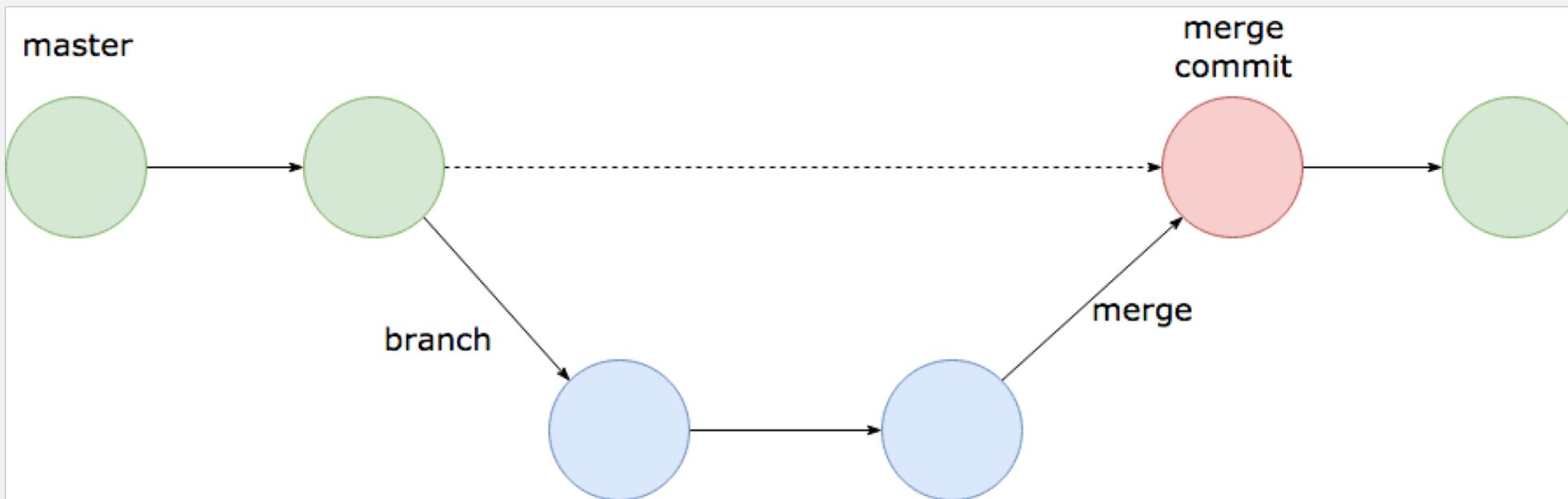
<https://uniofleicester.github.io/git-novice/06-ignore/>

REGISTER FOR GITHUB

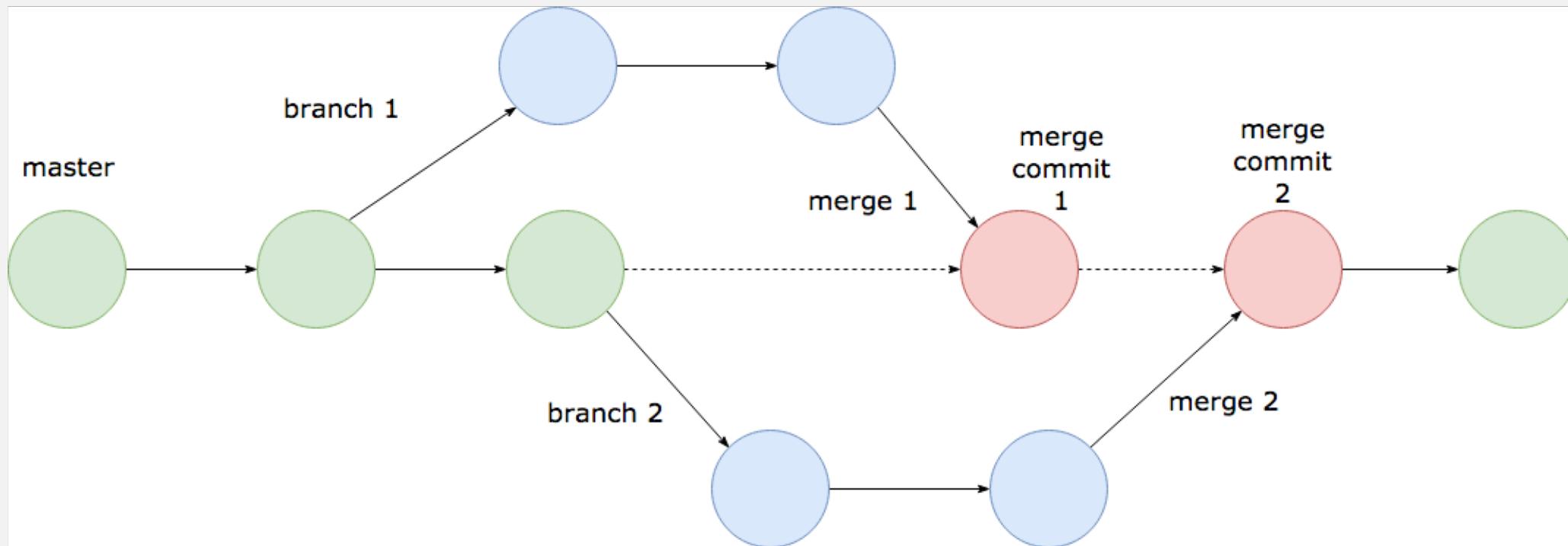
- <https://github.com/>
 - Sign up for GitHub
 - Verify account via email



BRANCHING



BRANCHING



FEEDBACK

<https://leicester.onlinesurveys.ac.uk/sdcctl01ivc2018v01>

or

<https://tinyurl.com/ycrtjzes>