R-SEMINAR WIN 2022

EEMB 595R
2022

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Introductions

- Us:
  - Lee Anderegg – landeregg@ucsb.edu, @leanderegg
  - Eleanor Caves – Eleanor_caves@ucsb.edu, @

What is R-Seminar?

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Seminar Logistics

- **Keeping track of the Schedule** – https://docs.google.com/spreadsheets/d/1qT8d15lUdDRsCYuoDvtLiX6k0yRfYSody_3x51BYPI8/edit?usp=sharing

- **Sharing / Collaborating on Files** – GitHub Organization:
- https://github.com/UCSB-RSeminar-Win22

- **Listserv** – rstats@eemb.ucsb.edu
- Subscribe: (anyone know if people can auto-subscribe to Google Groups???)
  - Sign up in the 'email' column of the schedule
  - Email landeregg@ucsb.edu and I'll add you

- **Zoom:** https://ucsb.zoom.us/j/89987313659?pwd=TTF3V2RnYWs3Y05Hc1JDOHpKbTFHZz09
- Meeting ID: 899 8731 3659
- Passcode: 024436

Topics

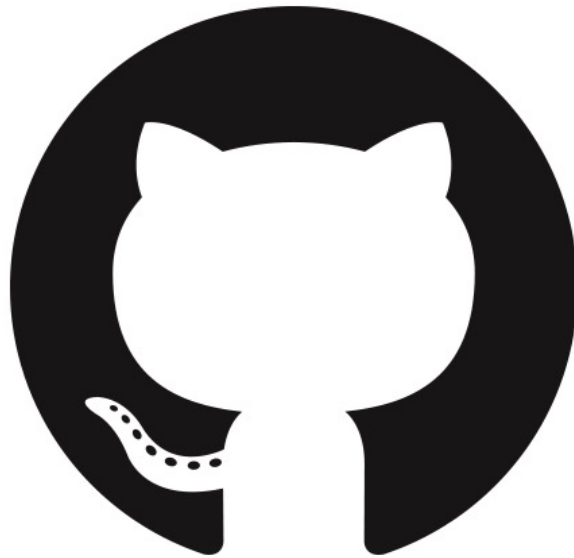| Learn	Teach

Guidelines for Presenters

- **Move Slow**—You know your code, data and approach better than your audience.

- **Make it Interactive**—Include a simple exercise to give people a chance to play with the code.

- **Upload scripts and data at least 24hr in advance**—Allows folks to install packages, work out any platform-specific kinks.

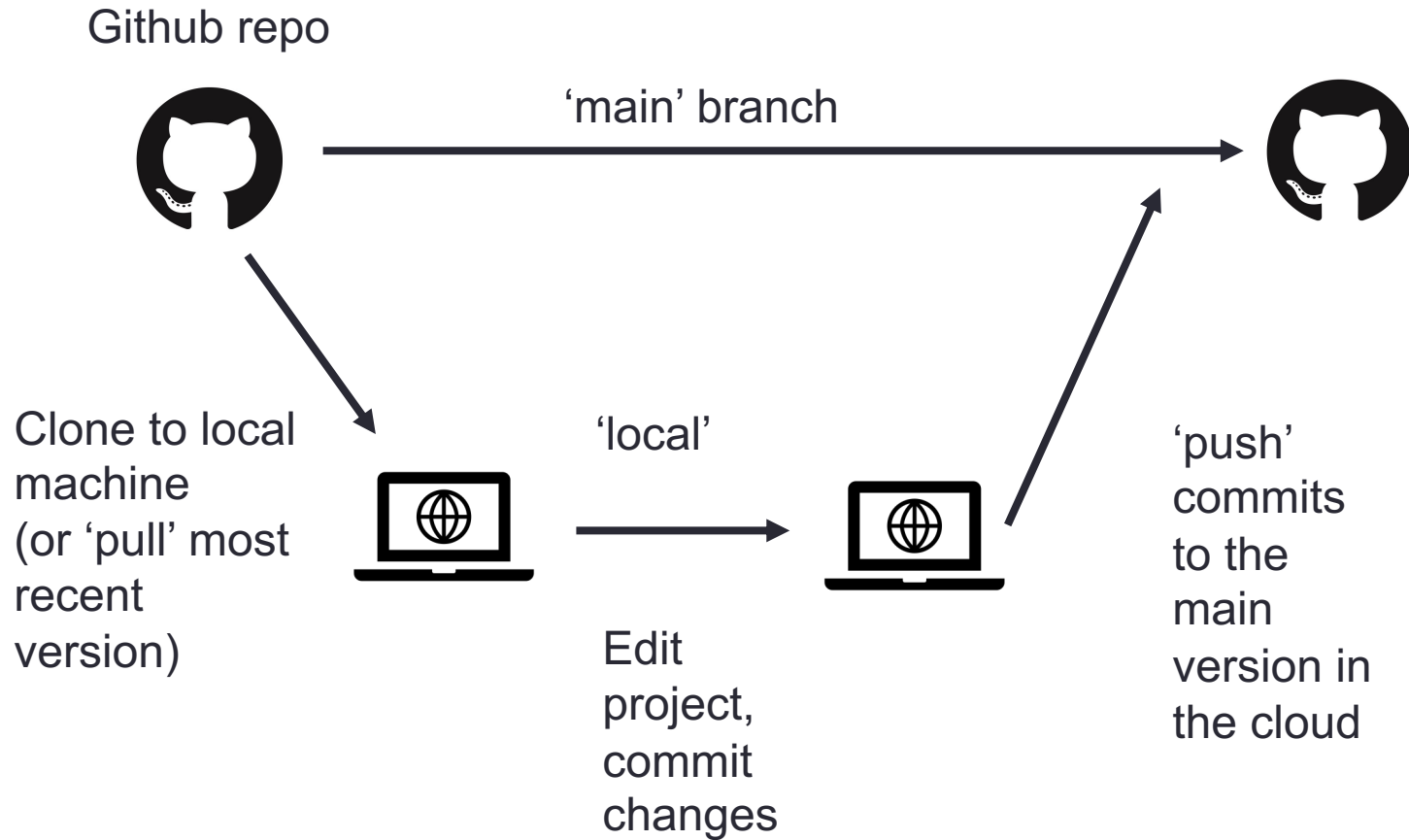- **Ground in Science**—We are scientists, not programmers.

Guidelines for Participants

- **Fork the repository in GitHub—**This way we won't have to worry about folks changing the original version of the code.

- **Try the code before the seminar—**This will give you a chance to install packages and iron out any issues with file paths, etc.

- **Learn by doing**—Follow along with the presenter by running the code yourself.

GitHub Demo

Your own version control

Github repo

'main' branch

Clone to local machine (or 'pull' most recent version)

'local'

Edit project, commit changes

'push' commits to the main version in the cloud

Your own version control

Github repo

'main' branch

Showing **1 changed file** with **3 additions** and **3 deletions**.

Split   Unified

```
    6  ■■■■■□  README.md

...   ...   @@ -1,3 +1,3 @@
  1              -  # test-area-2
  2              -  edit1
  3              -  edit2
          1      +  # About me
          2      +
          3      +  My name is Mona Lisa.
```
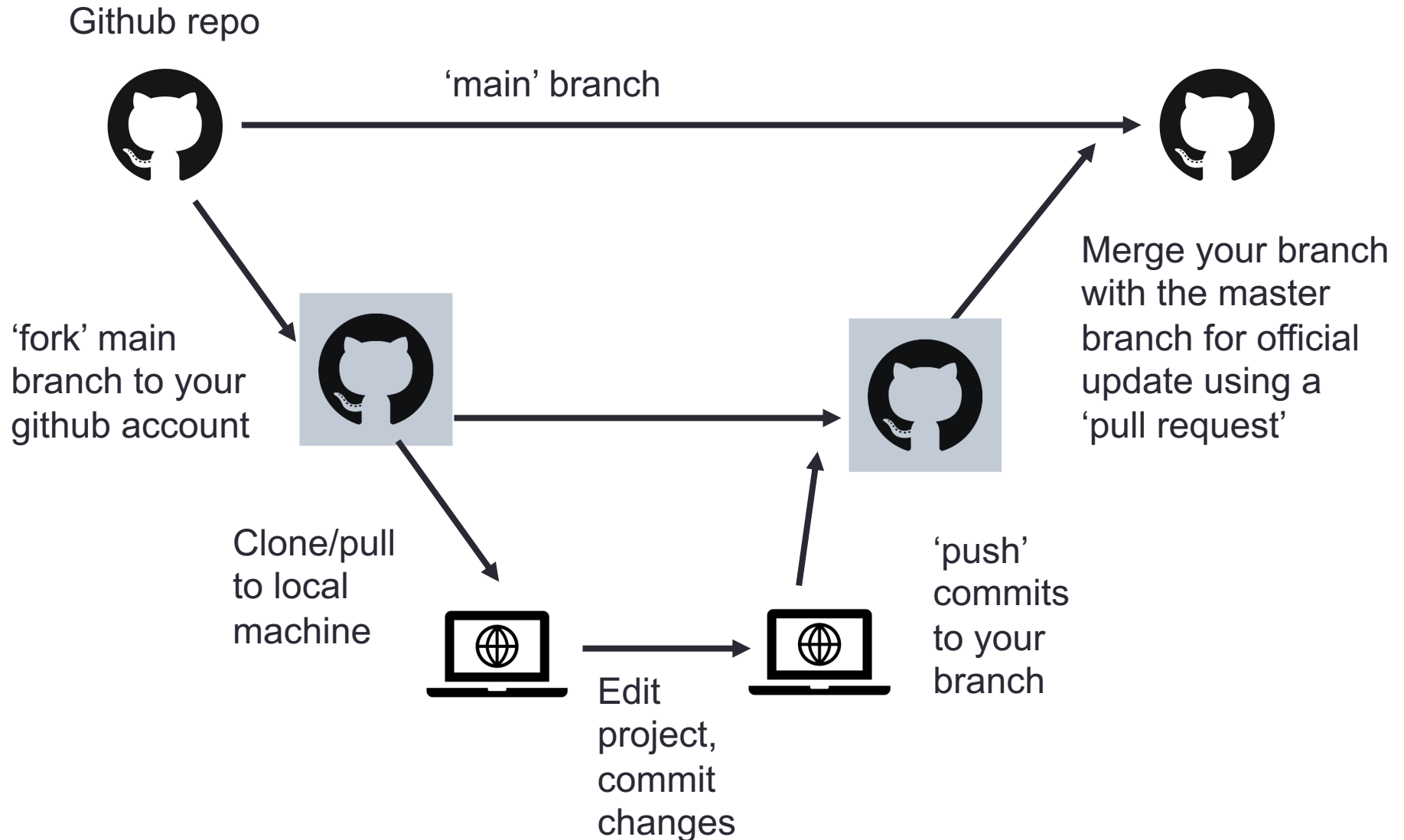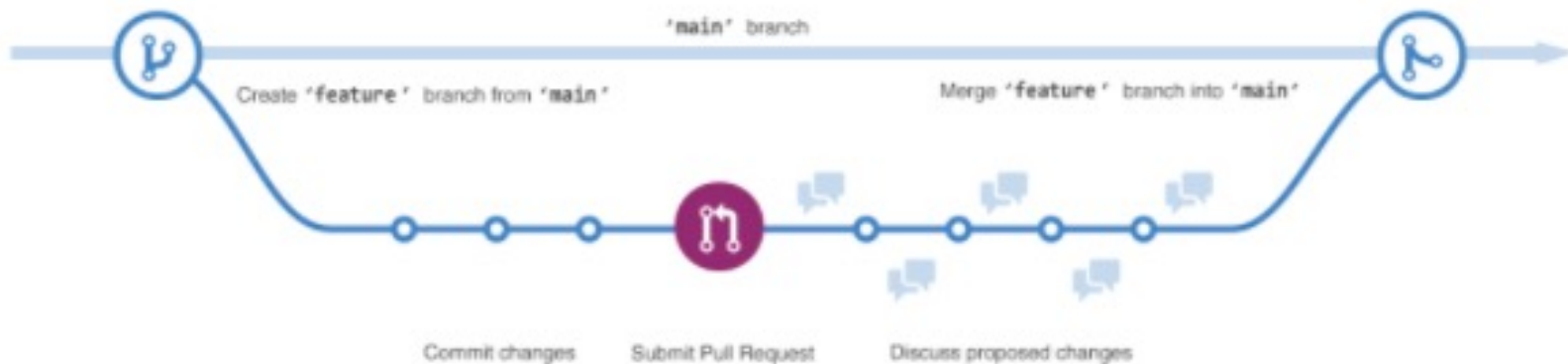
Collaborating

Github repo

'main' branch

'fork' main branch to your github account

Merge your branch with the master branch for official update using a 'pull request'

Clone/pull to local machine

Edit project, commit changes

'push' commits to your branch

Collaborating

- The `main` branch
- A new branch called `feature`
- The journey that `feature` takes before it's merged into `main`

Prep for Next Week

- Update to latest versions of R and Rstudio.

- Install Git on the laptop you will bring to seminar.

- Test the connection between GitHub and Rstudio.

- See the great tutorial here:
    - https://cfss.uchicago.edu/setup/
    - https://rfortherestofus.com/2021/02/how-to-use-git-github-with-r/

Special Session: Intro to R