



Support for data-led and applied digital research across the arts, humanities and social sciences.





Upcoming events & Training

- 16/11 Fika A chance to meet others working with digital resources and methods and talk tech over a cup of tea and a slice of cake
- 28/11 PhDs & ECR Social
- 29/11 Town Hall Meeting Autumn 2023
- 30/11 Masterclass on Keyphrase Network Analysis
- 01/12-08/12 Build your Personal or Project Website
 with GitHub Pages
- 13/12 Annual Lecture 23 Mary Flanagan "How to See What's Missing"







Welcome!



Sarah Schöttler

PhD student in data visualization & visualization developer



Aislinn Keogh
PhD student in Linguistics







Plan for Today

14:00 Welcome & Introduction

14:15 Live demo: Create your first repo & your first commit

Troubleshooting

15:00 Break

15:10 Live demo: Fork a repo & create a pull request

Troubleshooting

15:50 Wrap up & additional resources

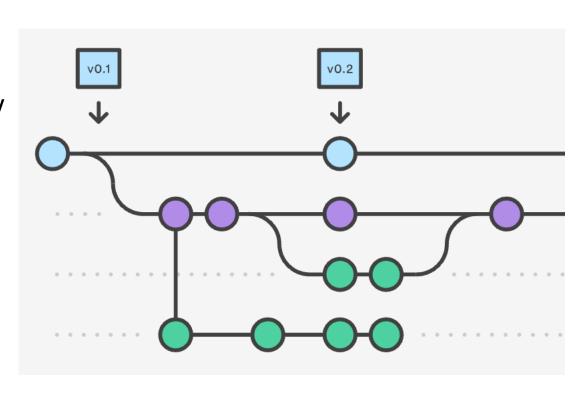






Version Control

- Version control is the practice of tracking and managing changes to software code.
- Version control software keeps track of every modification to the code in a special kind of database.
- Version control helps tracking every individual change by each contributor and helping prevent concurrent work from conflicting.
- It is a standard **workflow** in the tech industry.







git

A distributed version control system

No need to learn this for basic use cases!

\$ singh@DESKTOP-PGVSHM.
\$ git checkout master
Switched to branch 'ma

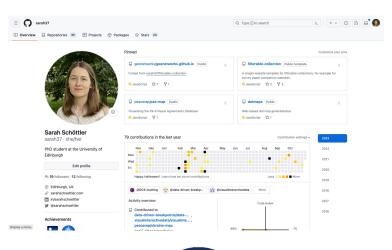
singh@DESKTOP-PGVSHMF MING.
\$ git merge newbranch
Updating 9e7f7d0..3eb93e9
Fast-forward
branch file.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 branch file.txt

singh@DESKTOP-PGVSHMF MINGW64 ~/Desktop/newRepo (master)
\$ |

Image from https://funkyvast.weebly.com/ what-is-git-bash-terminal.html

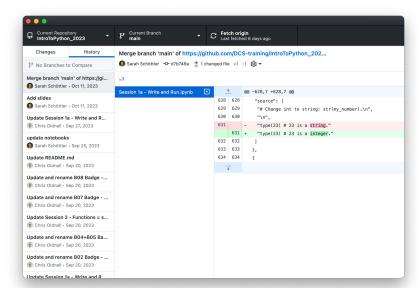
GitHub

An online platform for collaborating on code, based on git



GitHub Desktop

A desktop application for working with git and GitHub on your computer









Terminology

repository/repo commit clone branch

fetch
pull
push
fork



Confused Person - ClipArt B... clipartbest.com



Confused | Free Images at Clke... clker.com



Confused Look Emoticon | ww...



Confused Man Fre... ht publicdomainpictur... ht



http://www.dreamstime.com/royalty-... happyhormonesforlife.com



Confuse gesture, Confusion Medical s...



Image Of Confused Person...



Confused Cartoon ...



Textusa: Perhaps... Confusing textusa.blogspot.com



Confused person png imag...



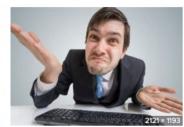
January 1 2010 Unvesting Caffeine



Principals Share The Most Bizarre ...
humaverse.com



Don't Worry, We're All Confused | Show... showmeinstitute.org



confused frustrated business man dreamst... jobcrusher.com





Terminology

repository/repo

→ a "folder" for your code for one project

commit

→ saving your changes in the project

clone

→ a copy of a repo (e.g., on your computer)

branch

fetch

pull

push

fork







Live Demo: Creating your first repo

- 1. Go to www.github.com
- 2. Sign in / sign up
- 3. Click the + in the top right corner and select "New repository"
- 4. Choose a repository name, check "Add a README file", and leave all other fields.
- 5. Click "Create repository"





Live Demo: Cloning your repo with GitHub Desktop

- Install GitHub Desktop from https://desktop.github.com if you haven't yet
- On the GitHub page for your repo, click "Open in GitHub Desktop"
- 3. Choose where to clone your repo
- 4. Click **fetch** & admire your repo in GitHub Desktop







Live Demo: Making a commit

- Open the README file in a text editor of your choice
 If you're unsure: on Windows use Notepad; on Mac use TextEdit
- 2. Make some changes in your README file and save them
- 3. In GitHub Desktop, describe your commit and click commit when ready
- 4. Push to GitHub





Break







Terminology

repository/repo

→ a "folder" for your code for one project

commit

→ saving your changes in the project

clone

→ a copy of a repo (e.g., on your computer)

branch

→ a parallel version of a repo (repos can have multiple branches)

fetch

→ getting the latest changes from the online repo

pull

→ integrating the latest changes into your clone of the repo

push

→ sending your changes (your commits) to the server

fork

→ a personal copy of someone else's repo





Live Demo: Forking a repo, making a commit, and making a pull request

- Find a partner and get the link to their GitHub repo. Fork it on GitHub, then add your fork to GitHub Desktop.
- 2. Make a change to their README, commit, and push.
- 3. On GitHub, view your fork and open a pull request.
- 4. Review and approve each other's pull requests.





Additional Resources

- GitHub online tutorials
 - Introduction (tutorial repeating some of what we did today): <u>https://github.com/skills/introduction-to-github</u>
 - Reviewing pull requests: https://github.com/skills/review-pull-requests
 - Resolving merge conflicts: https://github.com/skills/resolve-merge-conflicts
 - List of all skills tutorials: https://github.com/skills
- GitHub student pack: https://education.github.com/pack

