GIT WORKSHOP

THE POWER OF VERSION CONTROL

Data Science and Informatics
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DSI
DATA SCIENCE & INFORMATICS

Github Repository

01

ABOUT US

How you can get involved with the DSI club at UF

02

WHY GIT

Applications of Git and the usage of Version Control

03

PRACTICAL

Tutorial creating your own portfolio with Github pages

01

ABOUT US

How you can get involved

DSI discord

WHY JOIN DSI

Apply Data Science Skills
- Workshops
- Project Opportunities
- Internships

Career Building
- Resume Building
- Career and Interview Prep
- Guest Speakers from Different Industries

Community
- Interact with Peers
- Socials
- Networking

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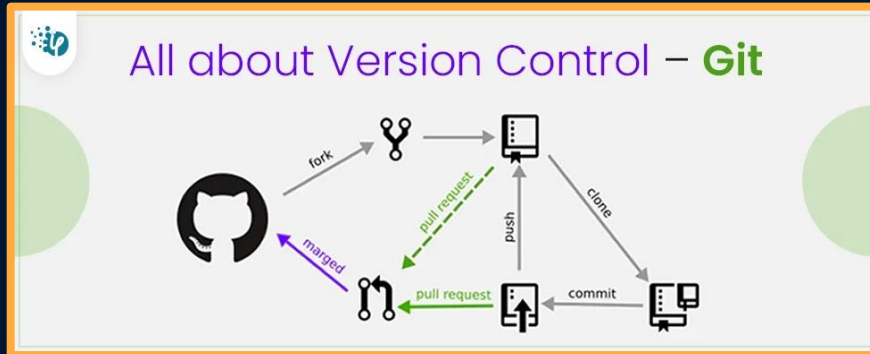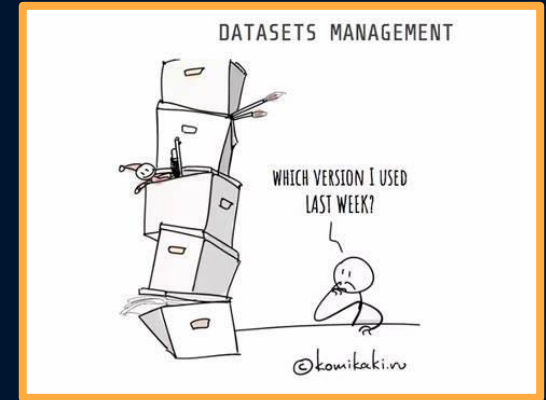# 02

WHY GIT

Applications and usability

VERSION CONTROL

- A system that keeps records of your changes

- Users keep entire code and history on their local machines.

- Allows for collaborative development.

- Allows you to know who made what changes and when.

- **Allows you to revert any changes and go back to a previous state**

GIT

- A tool which allows you to manage and track changes to files over time.

- When you create a repository, you will see a .git directory.

- It keeps track of a file's history – each version of a file is called a commit.
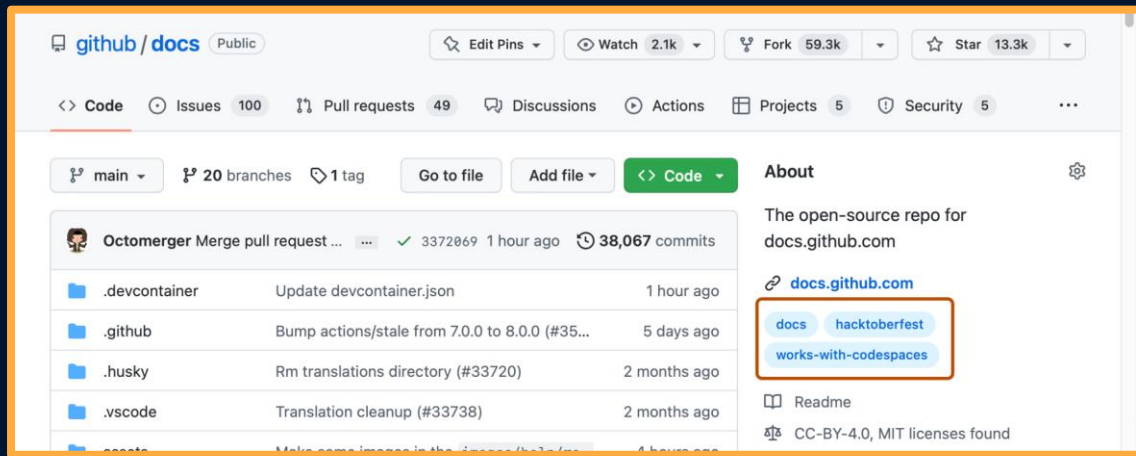
- Website: https://git-scm.com/

Common Git Commands

- $git config
- $git init
- $git clone <path>
- $git add <file_name>
- $git commit
- $git status
- $git remote
- $git checkout <branch_name>
- $git branch
- $git push
- $git pull
- $git merge <branch_name>
- $git diff
- $git reset
- $git revert
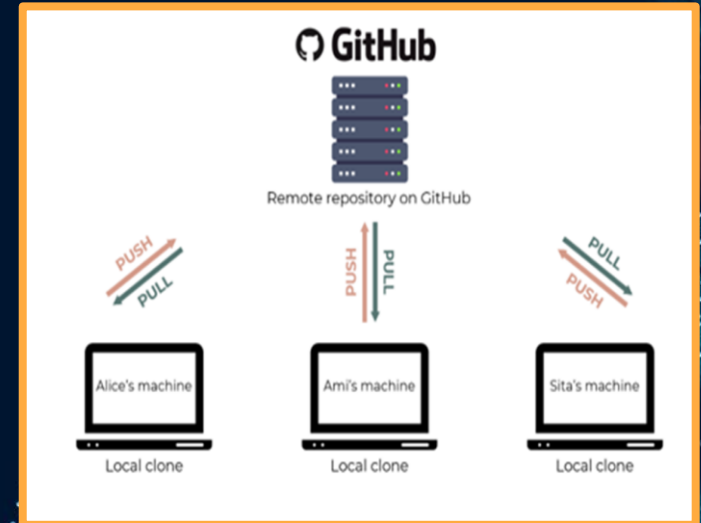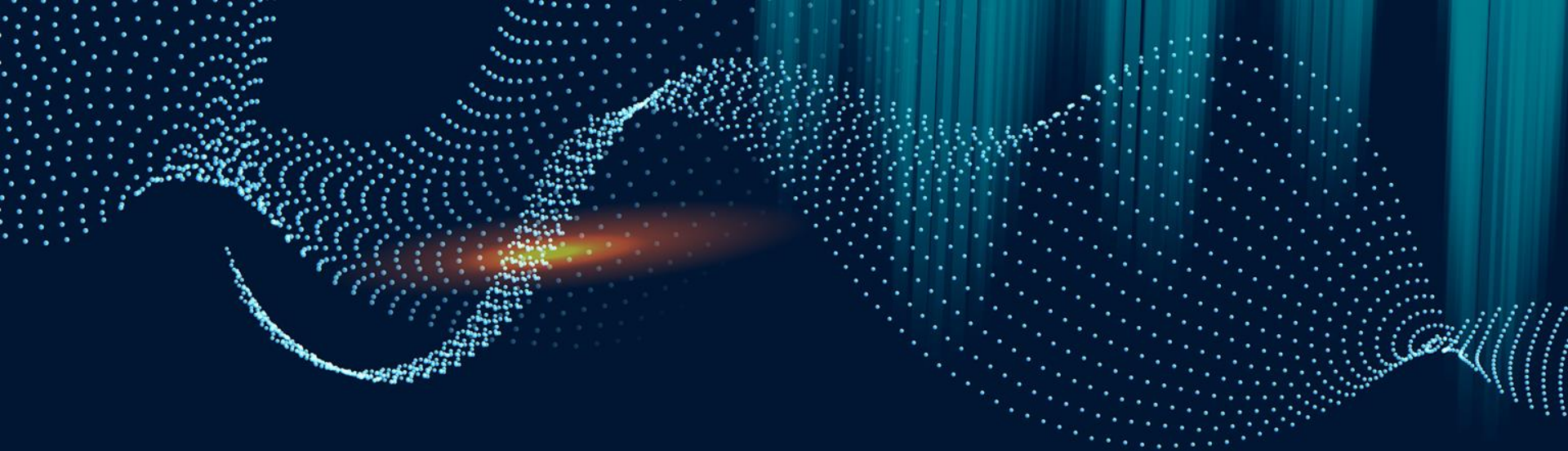- $git tag
- $git log

REPOSITORY

- A repository is a collection of all the files and the history of those files, consist of all your commits

- Similar to a master documentation page

- Every project in GitHub is stored in a repository

GITHUB

- A remote repository in which you can host your local repository.

- Enables code collaboration, similar to a Google Docs page

- Works with git and version control to make sharing and collaboration efficient

03 | TUTORIAL

What you came here for!

HOSTING YOUR WEBSITE

- On the project creation page, you'll be asked for a project name. Make sure to name your project exactly "YOUR_USERNAME.github.io"

- Click the "README" link and change the filename from README.md to index.html

- Delete the current contents of the file editor and replace them with the HTML of your webpage

- Scroll down the page until you find the Commit area, and click "Commit new file

- More Help: https://www.khanacademy.org/computing/computer-programming/html-css/web-development-tools/a/hosting-your-website-on-github

THANKS!

Do you have any questions?

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Save the Repository :)