

# **GIT WORKSHOP**

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THE POWER OF VERSION  
CONTROL

Data Science and Informatics  
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Github Repository



**01**

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## **ABOUT US**

How you can get involved with the DSI club at UF

**02**

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## **WHY GIT**

Applications of Git and the usage of Version Control

**03**

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## **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





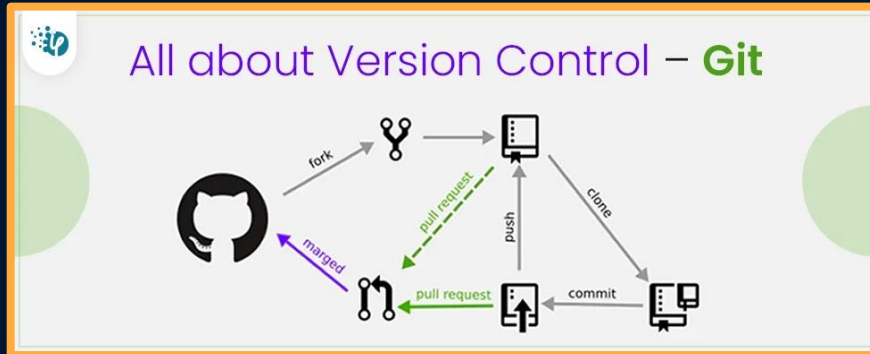
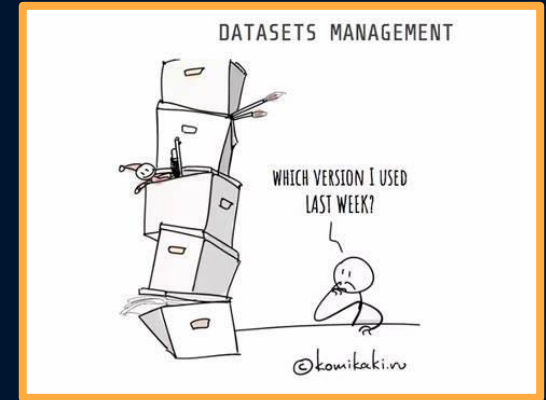
02

## 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/>





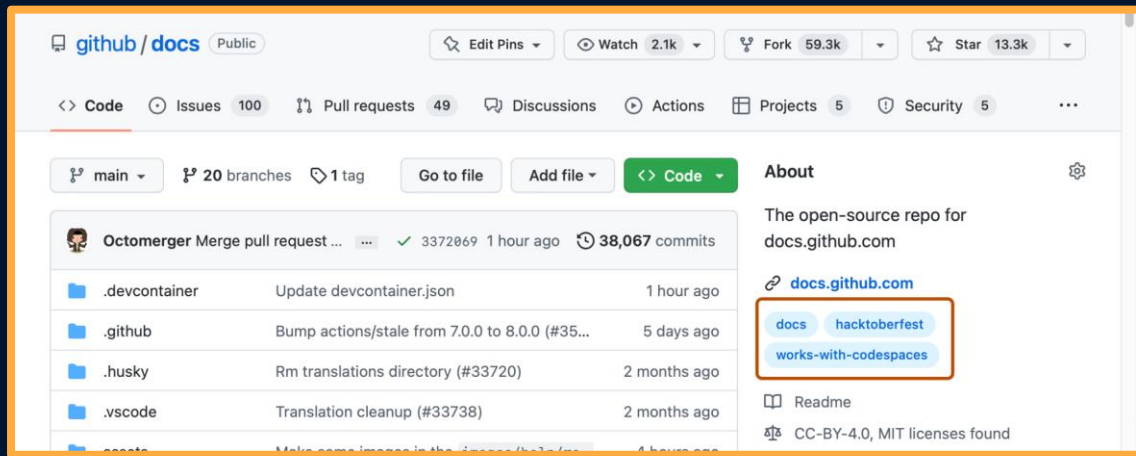
# Common Git Commands



- `$git config`
- `$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`

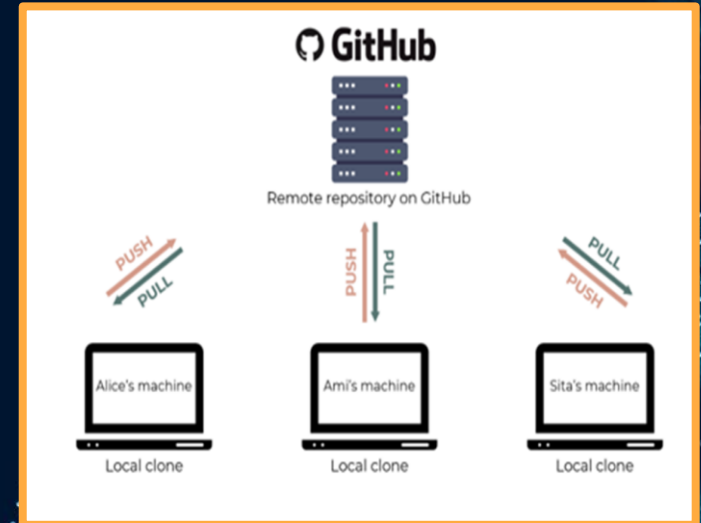
# REPOSITORY

- 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!

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Do you have any questions?

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Save the Repository :)