



git good

Photos May Be Taken.



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What is git ?



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Stupid Content Tracker



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Version Control System



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Are there others?



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git Repos

→ Structures containing all the changes made to files





git Repos

→ They also contain the history of these changes





git Repos

Free repo hosting → github.com

→ gitlab.computing.dcu.ie

→ git.redbrick.dcu.ie



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Snapshots

- Snapshots record what your files look like at a given point in time





Snapshots

- You decide when a snapshot is taken and what files it will consist of





Snapshots

→ How do we take snapshots?



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git Commits

- The act of taking a snapshot
- Seen as a change to the repo





git Commits

→ What does a commit consist of ?





git Commits

- Info on what has changed
- Reference to previous commit
- Hash of entire repo



Quick Recap

- What is version control?
- What are repositories?
- What are repositories made up of?



Time to use



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Setup

Log in to git.redbrick.dcu.ie with your Redbrick Username and Password



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Setup

Go to git.redbrick.dcu.ie/mctastic/git-good
and wait



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Fork away

[Dashboard](#)[Issues](#)[Pull Requests](#)[Explore](#)

mctastic / git-good



Unwatch

1



Star

0



Fork

0

[Code](#)

Issues 0



Pull Requests 0



Releases 0



Wiki



Activity



Settings

A repository for the git good Redbrick workshop.



1 Commit



1 Branch



Branch: master

git-good

New file

Upload file

HTTPS

SSH

https://git.redbrick.dcu.ie/n



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Cloning

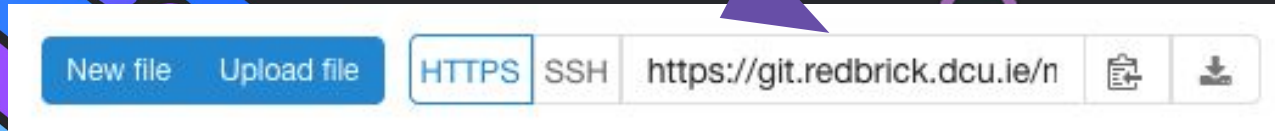
• We need to make a local copy of this repo

• We do this using the “git clone” command



Cloning

- Open your terminal. Enter - `'git clone'` followed by this link



Cloning

Now you have a local copy of your remote fork of the repository.



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The Repo

- Two files: calculator.py & README.md
- Let's check the commit history & branches



The Repo

→ git log



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The Repo

→ `git branch -a`



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Quick Recap

- What happens when you fork the repo?
- What does `git clone` do?
- What does `git log` do?



Tutorial

→ I'm going to show you some common git commands:

- checkout, add, status, commit and push



Functions

- add, sub, mul, div, mod, exp
- each should just return the operation
- e.g mul x y should return $x * y$



Group Work!

- Create your own branch
- add changes, commit them, merge to master, and push up to your fork
- Make a pull request to my repo



Conflict Time

We need to add a remote called upstream →
<https://git.redbrick.dcu.ie/mctastic/git-good>



Conflict Time

- git fetch upstream
- git merge upstream/master



Group Work!



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Questions?



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