

Saving and Sharing your code with

git & Github

What are they? | Common
Workflows

It might get confusing

But...

Don't Panic!

Let's break it down:

git config'd : Overview

- ❖ What are git and Github?
- ❖ What are they used for?
- ❖ Common commands
- ❖ Common workflows
- ❖ Practice

git and Github are 2 different
things

The command line tool

git

- ❖ A version control system
 - ❖ also referred to as a VCS
 - ❖ allows you to track the changes in your project
 - ❖ a project with history or versions that can be recalled
- ❖ Used in the command line

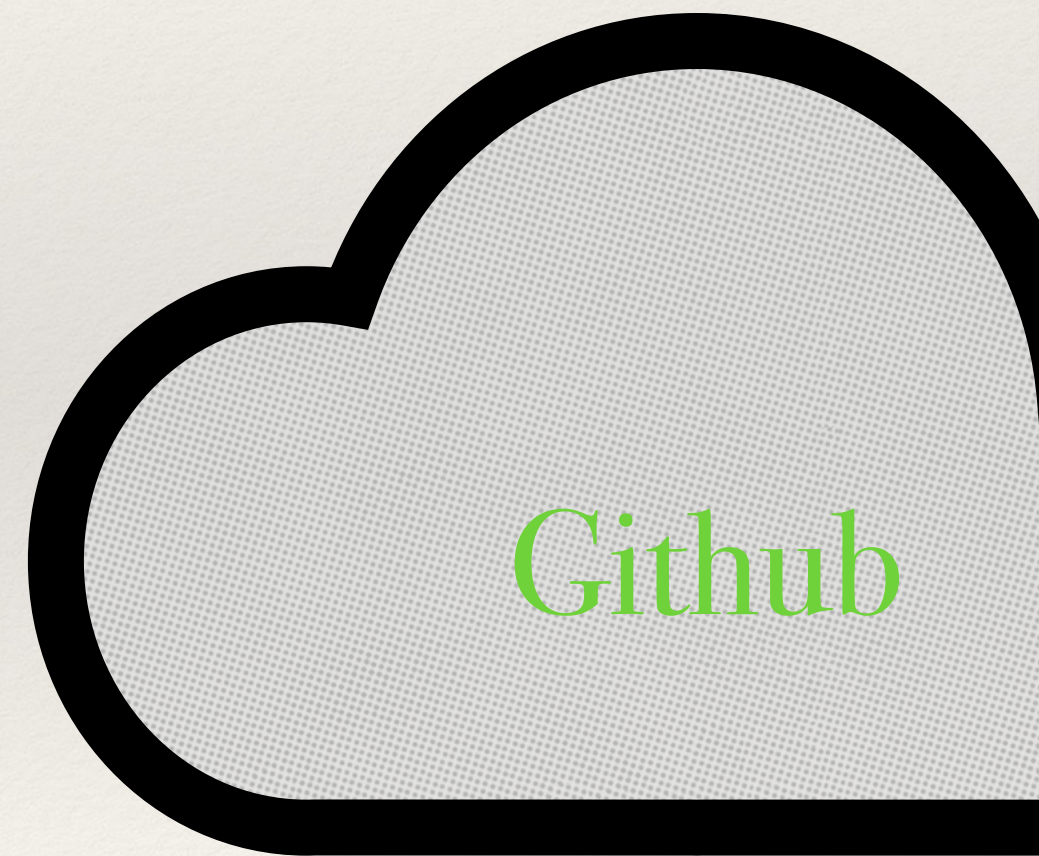


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The online hosting service

Github

- ❖ Provides hosting and git version control online
 - ❖ allows collaboration with integrated version control
 - ❖ version control through graphical user interface
 - ❖ a bunch of other tools to help manage collaboration



Still confused?

psst. That's totally normal.

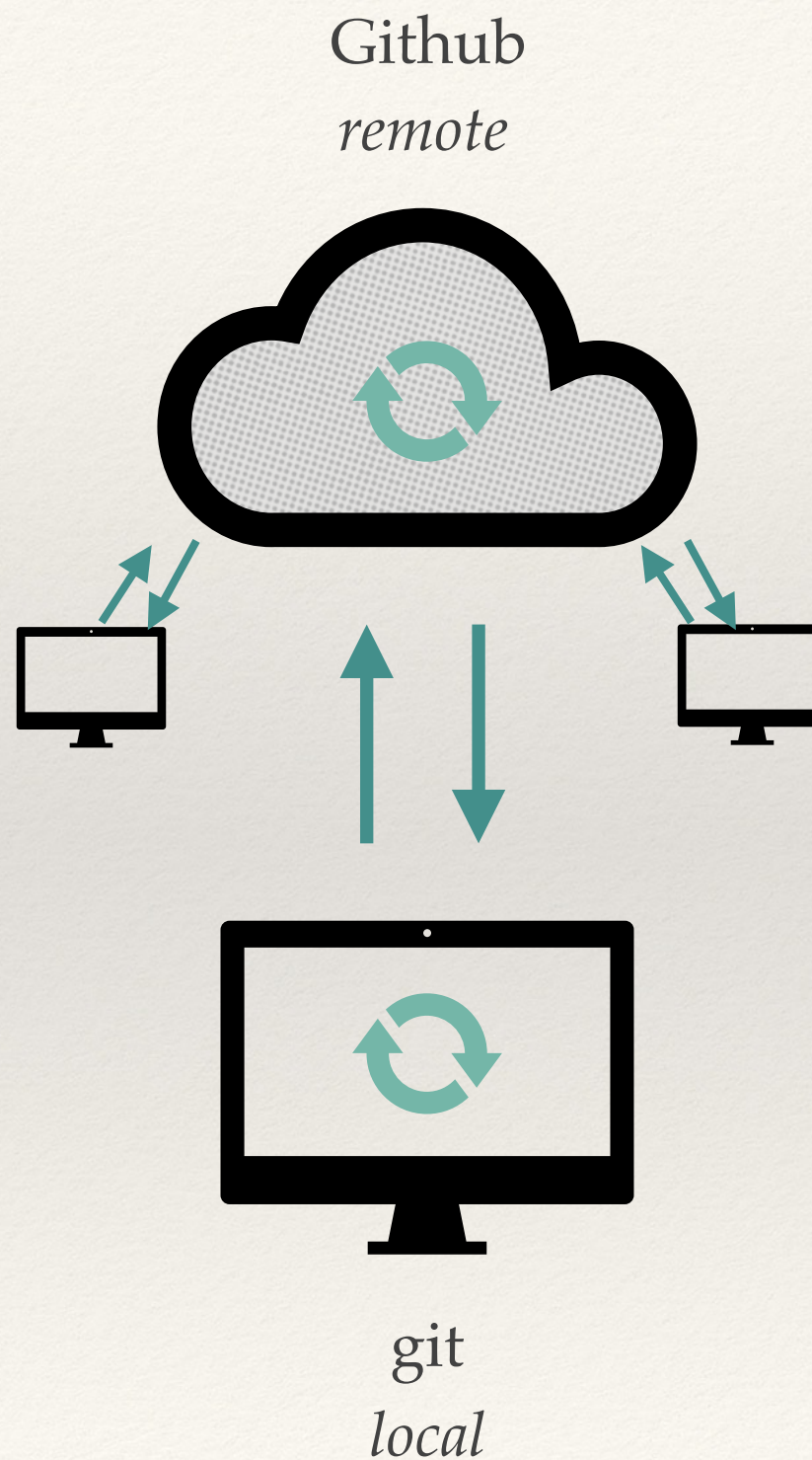
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Key points

- ❖ git = manage version control locally (on your machine)
- ❖ Github = share and collaborate on code using version control remotely (on the web)

With that in mind...

Devs use both



git commit to memory

Commands you will eventually know by heart

Most Common Commands

- ❖ **git add** (ex. => git add .)
 - ❖ used to 'stage' or 'track' changes
- ❖ **git commit -m** (ex. => git commit -m 'adds tests')
 - ❖ used to save changes on 'staged' files
- ❖ **git pull** (ex. => git pull origin master)
 - ❖ get remote changes to local copy
- ❖ **git push** (ex. => git push origin feature_branch)
 - ❖ get local changes to remote copy

More Common Commands

- ❖ **git init**
 - ❖ makes the current folder into a git repository (only needs to be run once)
- ❖ **git status** (super useful!)
 - ❖ logs the current status of a branch
- ❖ **git log** (also super useful!)
 - ❖ lists all commits ('saves')
- ❖ **git clone** (ex. => git clone <copied git repo url>)
 - ❖ creates a copy of the repo at the the url locally
- ❖ **git checkout** (ex. => git checkout master)
 - ❖ creates / moves between branches (the 'cd' of git)

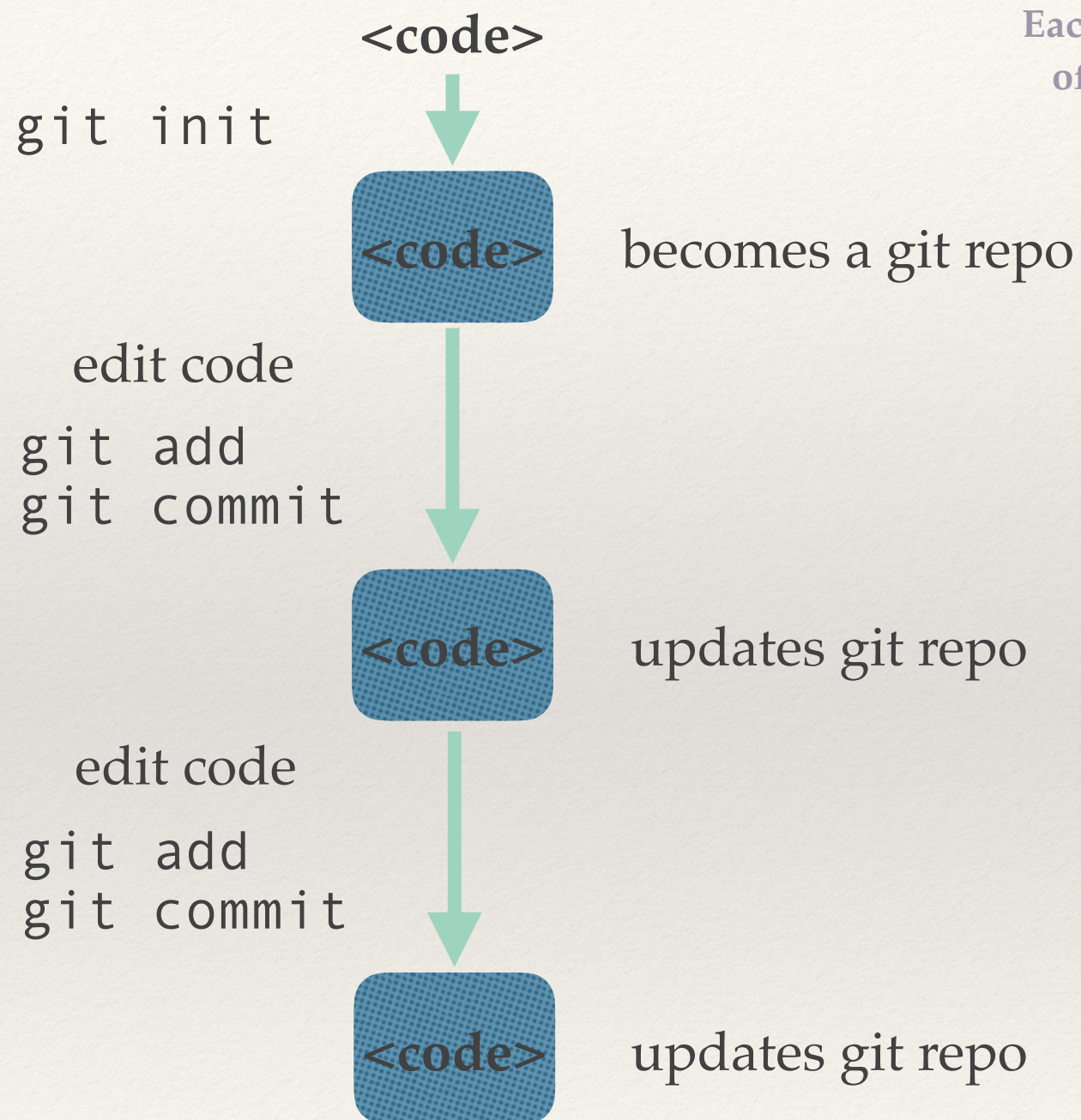
Useful in class

- ❖ **git config user.name**
 - ❖ logs / sets the name associated with commits
- ❖ **git config user.email**
 - ❖ logs / sets email associated with commits
- ❖ **git remote**
 - ❖ logs / set / removes the remote address for a repo

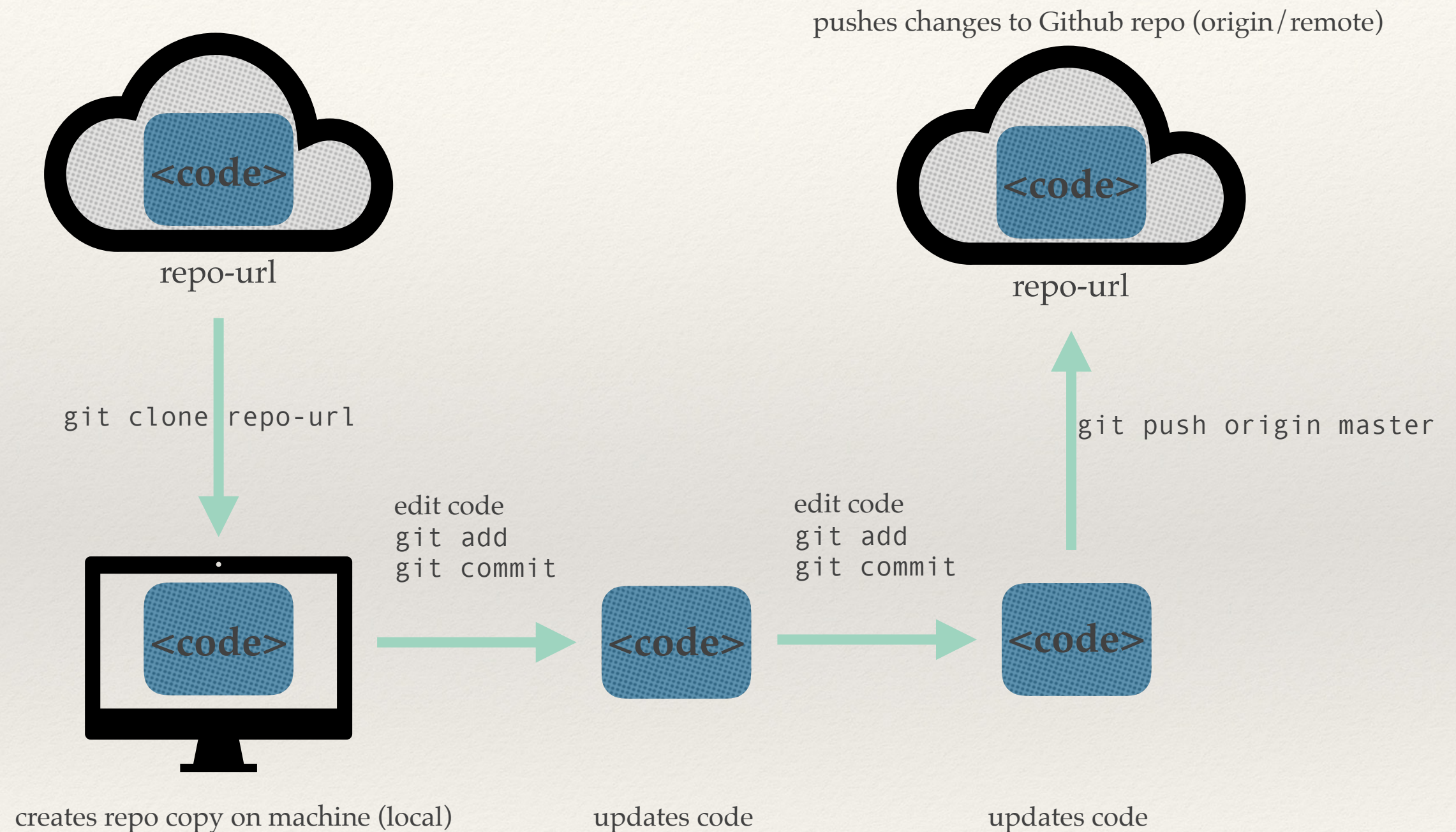
git push

Let's look at git workflows in practice

A simple local workflow



A common mixed workflow



Let's practice!