Github. A Guide.

The Basics:
Pull! Add! Commit! Push!

Download a project = repository

**Your
Github**

git clone
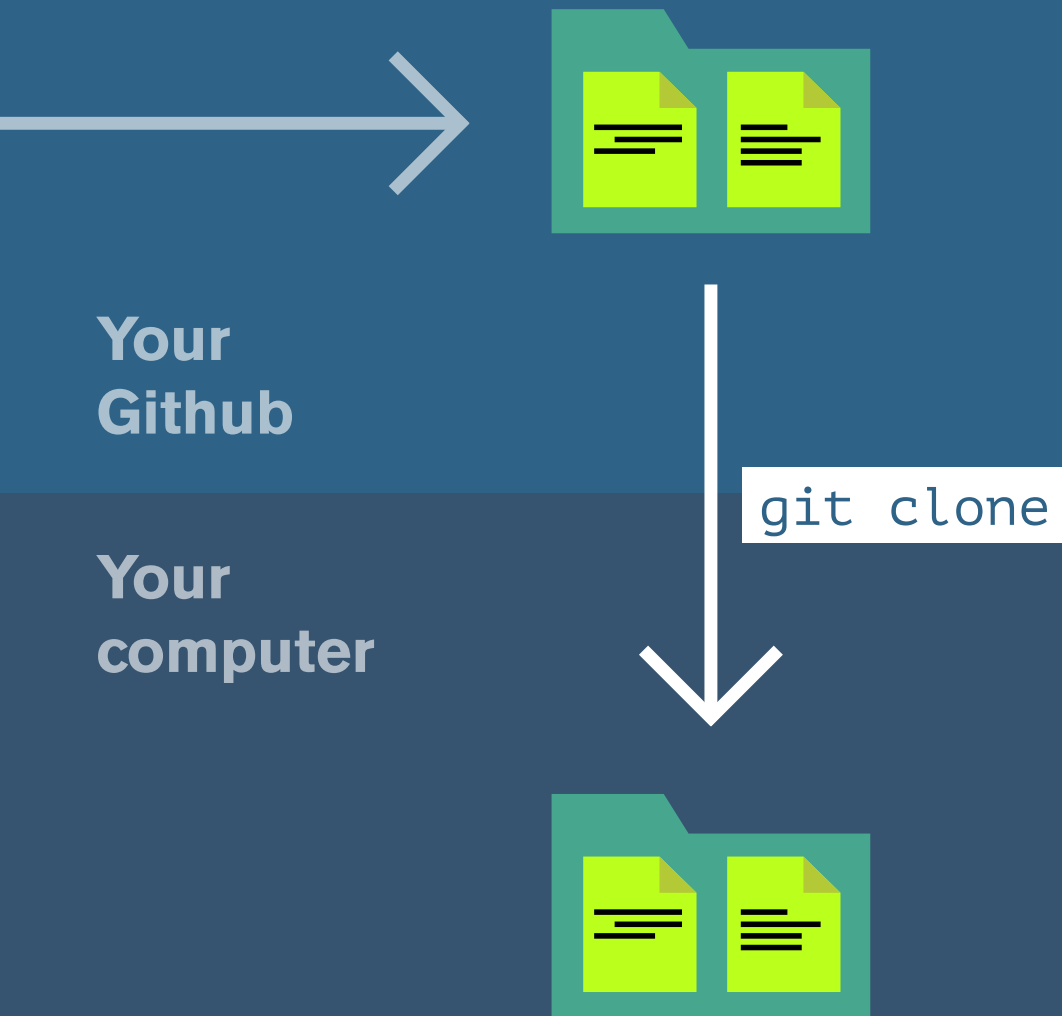
**Your
computer**

Make snapshots of your files...

Your
Github

`git clone`

Your
computer
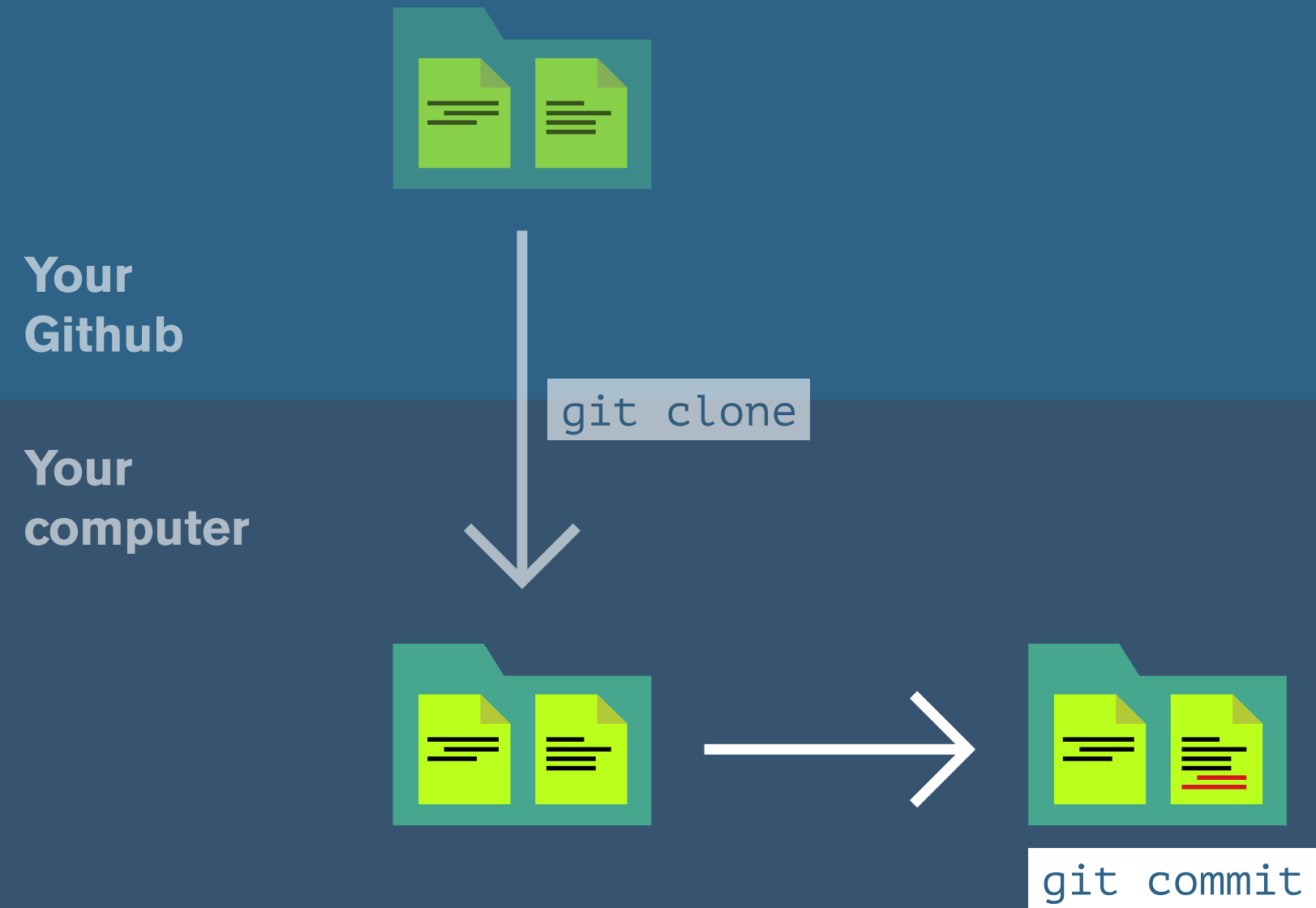
`git commit`

...while you work on them

Your
Github

`git clone`

Your
computer

`git commit`

`git commit`

Upload your snapshots

Your Github

Your computer

`git clone`

`git commit`

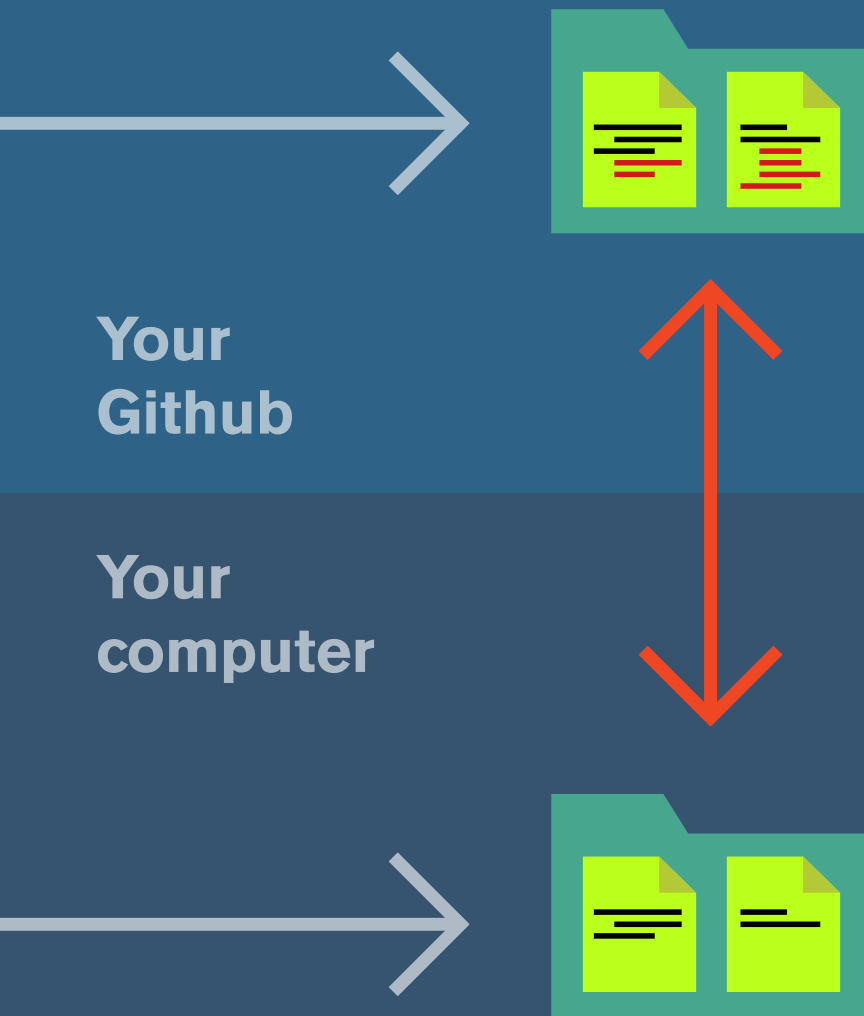`git commit`

`git push`
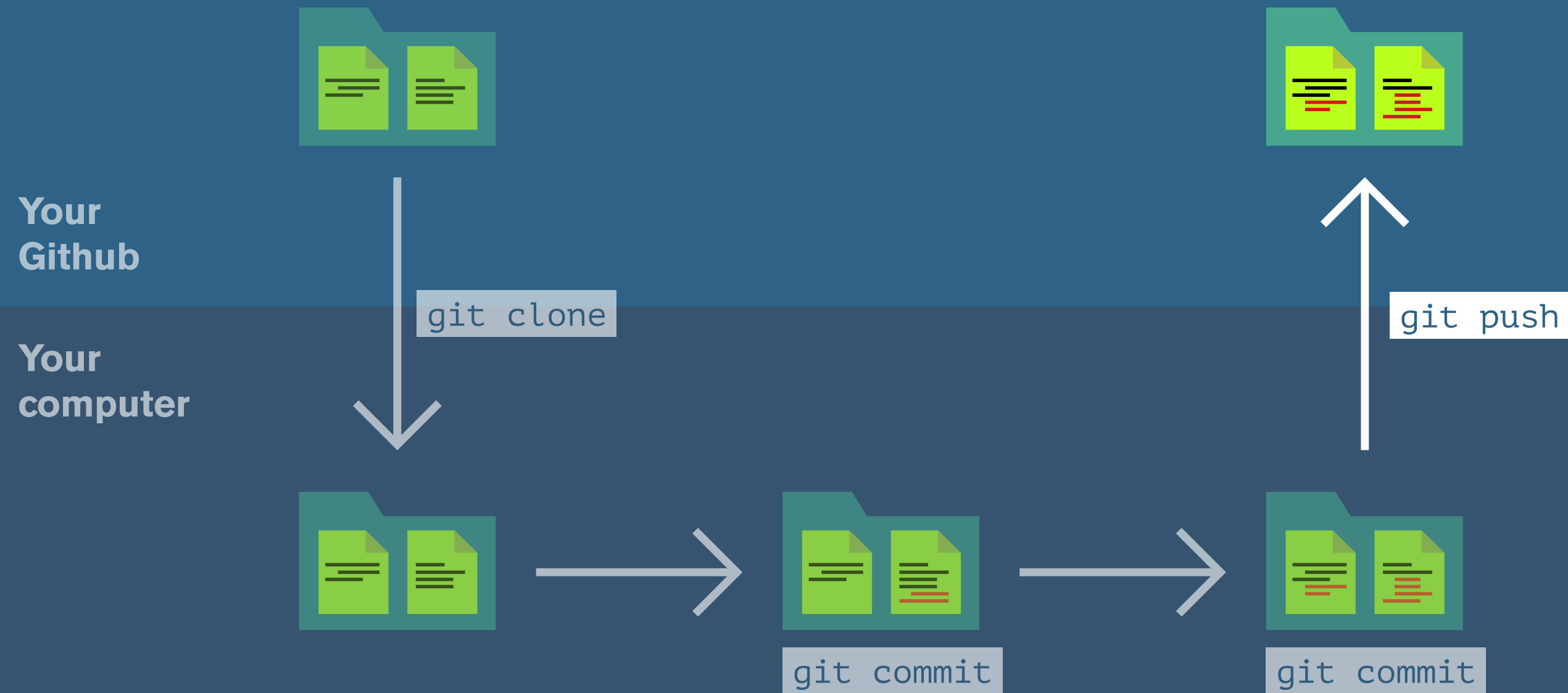
All snapshots are saved

Your Github

Your computer

The files on your Github & locally differ?

Your
Github

Your
computer

Download all new changes

Your
Github

Your
computer

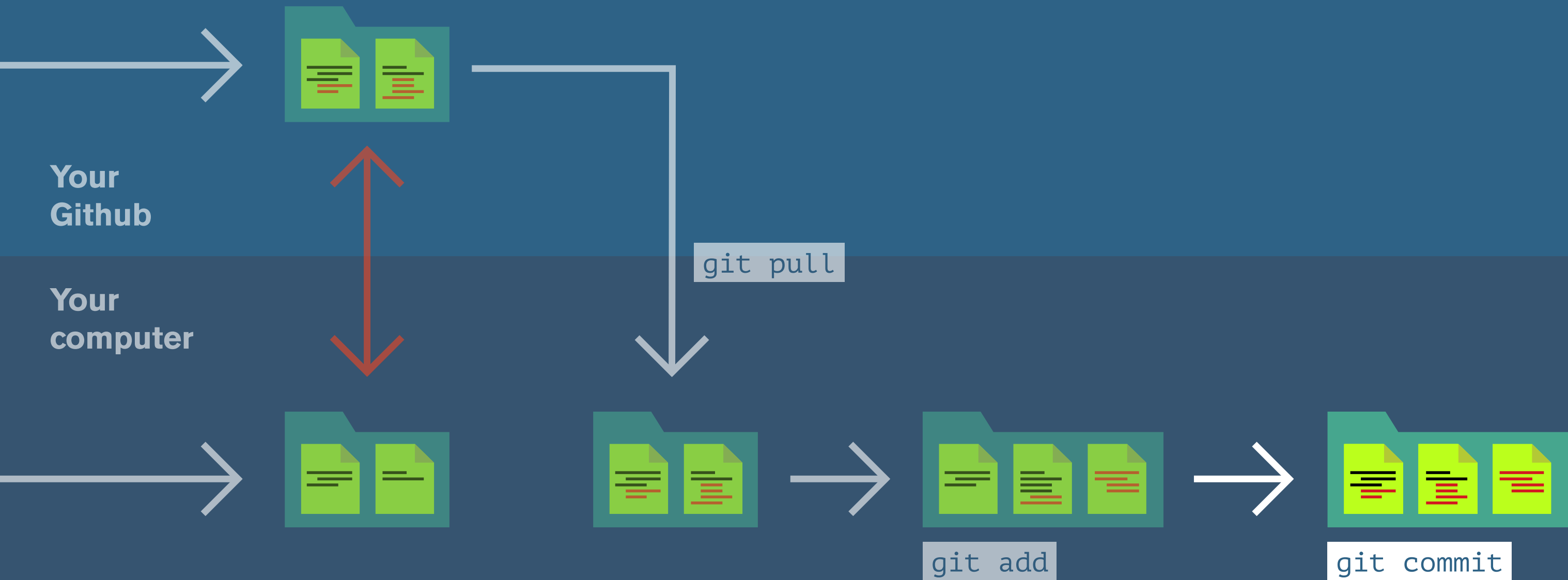`git pull`
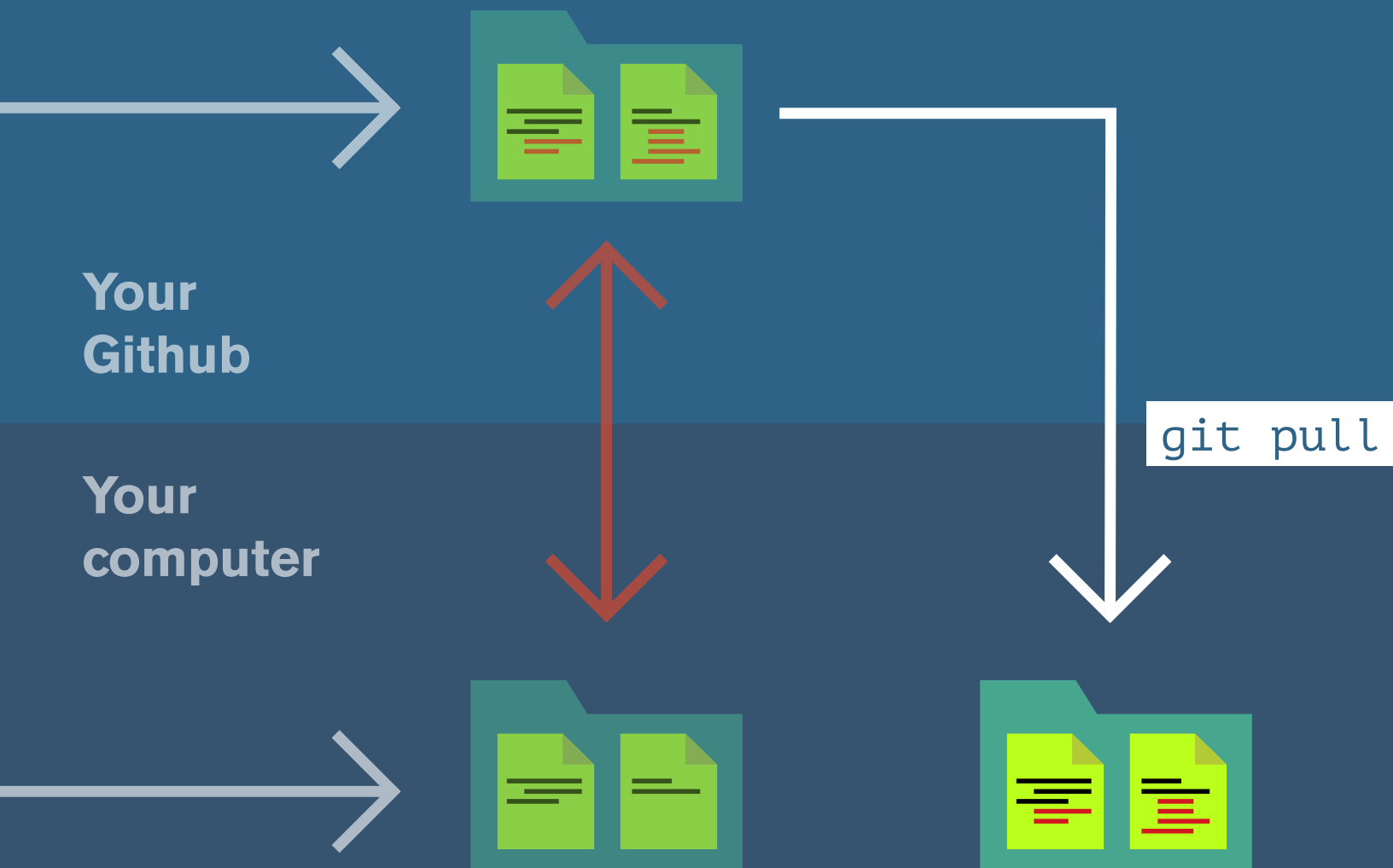
Add new files to the project

Your Github

Your computer

`git pull`

`git add`
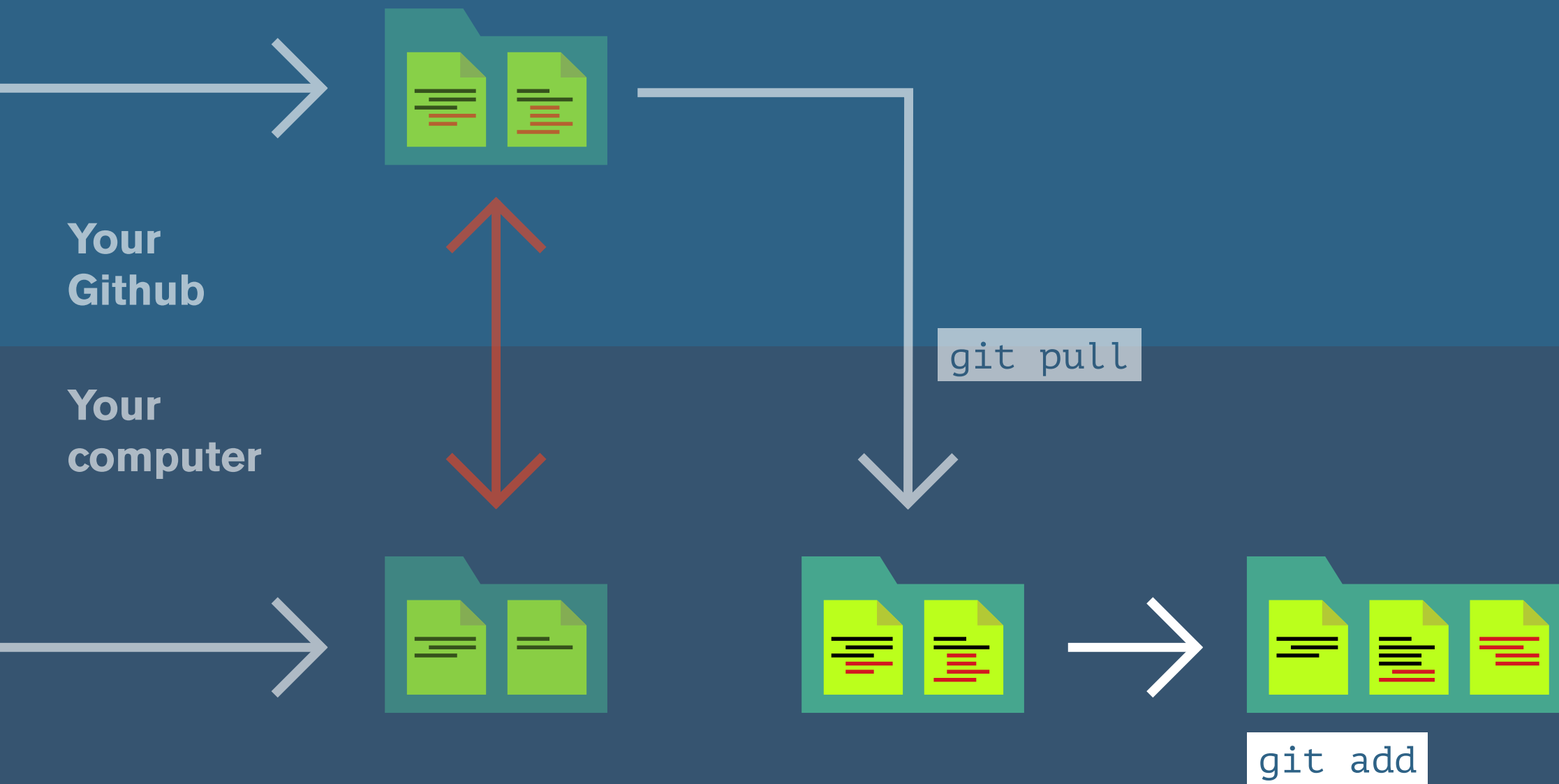
Make a snapshot of this project

Your
Github

Your
computer

git pull

git add

git commit

Upload snapshots & files to the project

Your Github

Your computer

git pull

git add

git commit

git push

Again, all snapshots are saved
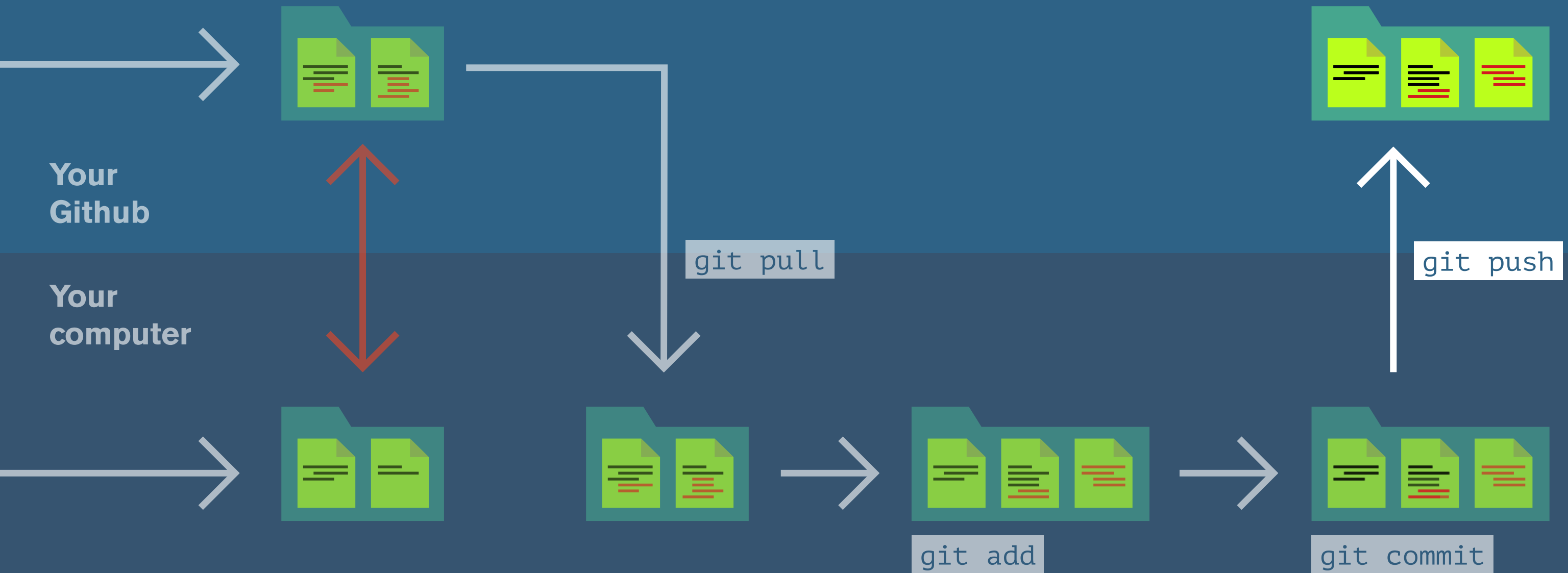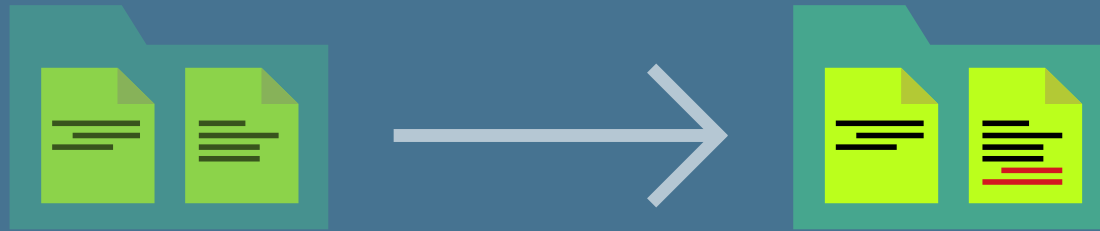
Your Github

Your computer

Forking:
Develop somebody's project
in another direction

Forking: Somebody works on an exciting project?
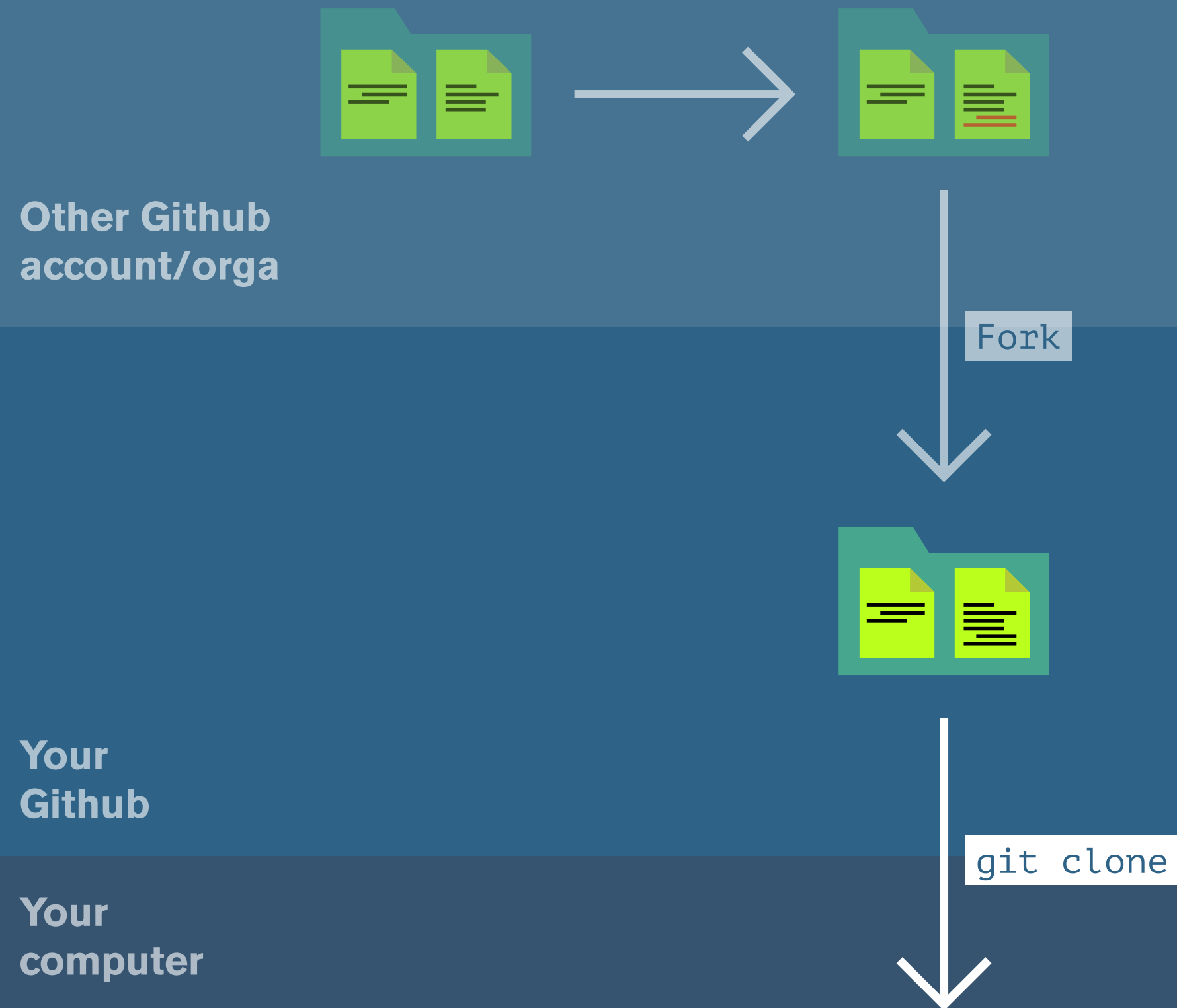

**Other Github
account/orga**

**Your
Github**

**Your
computer**
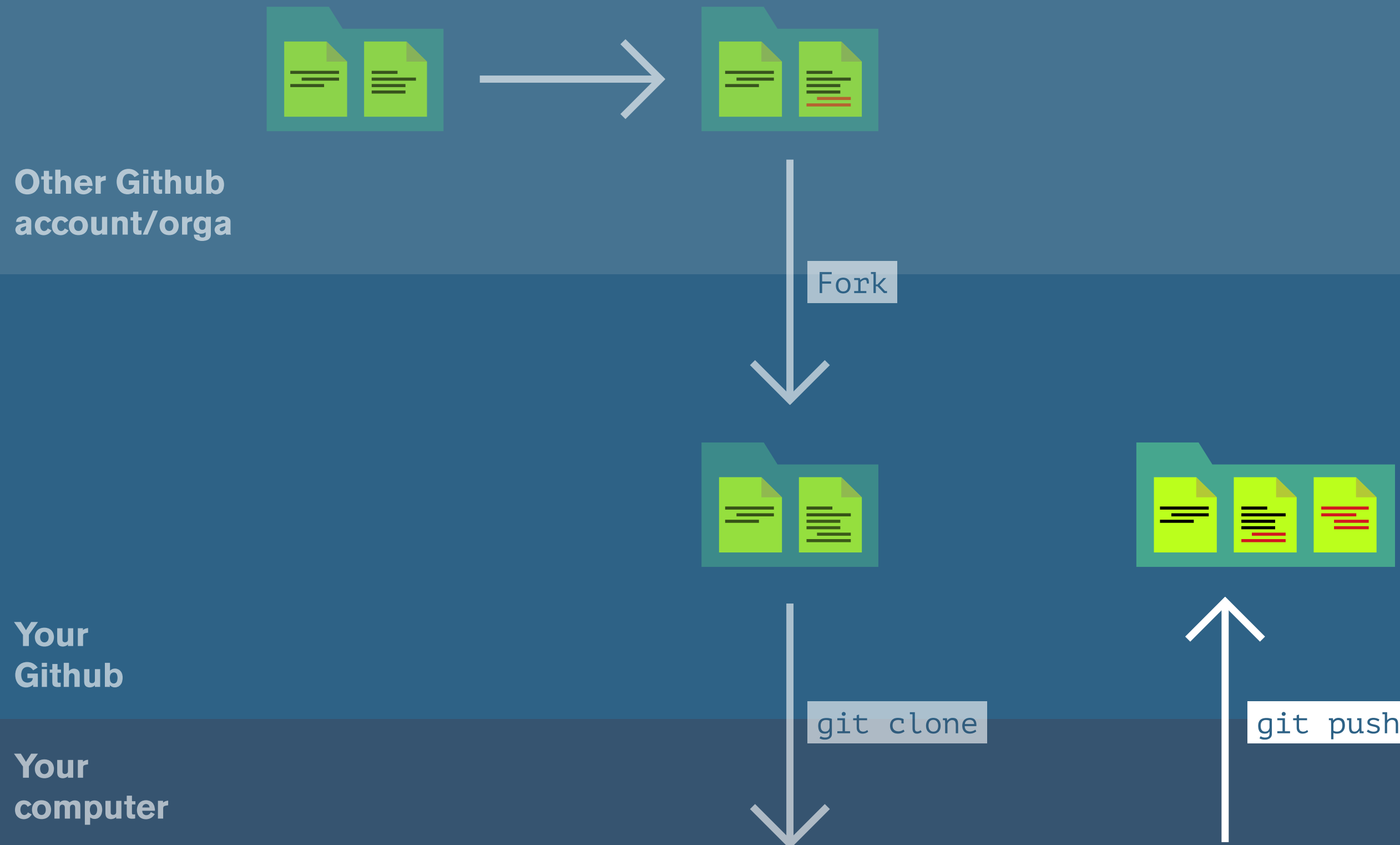
Forking: Make a copy of that repo in your Github

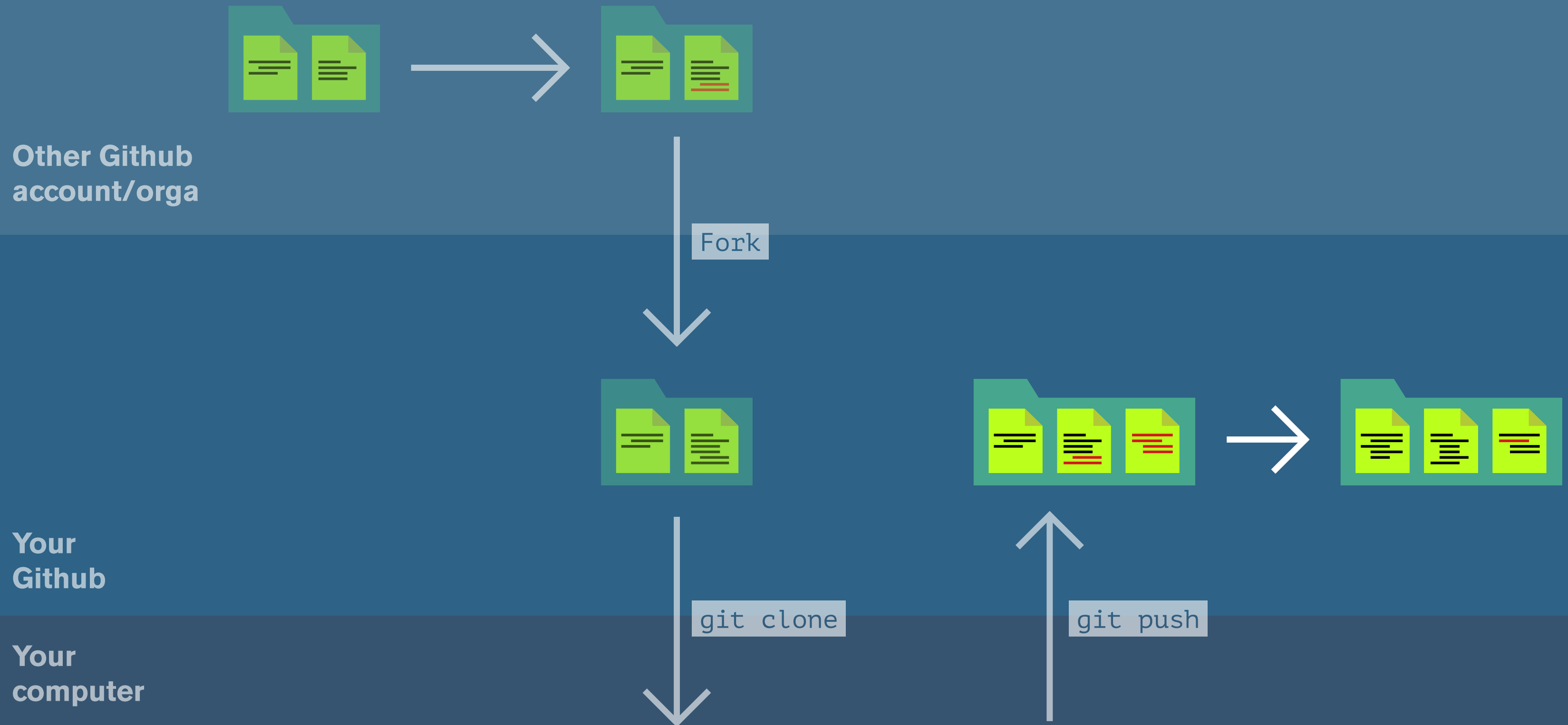**Other Github account/orga**

Fork

Your Github

Your computer

Forking: Download the repo to work on it

Fork

git clone

Forking: Push changes to YOUR Github

Other Github account/orga

Fork

Your Github

git clone

Your computer

git push

Forking: Continue working on it with your Github account...

Other Github account/orga

Fork

Your Github

git clone

git push

Your computer

Forking: ...while the original creator does her own thing

Other Github
account/orga

Fork

Your
Github

git clone

git push
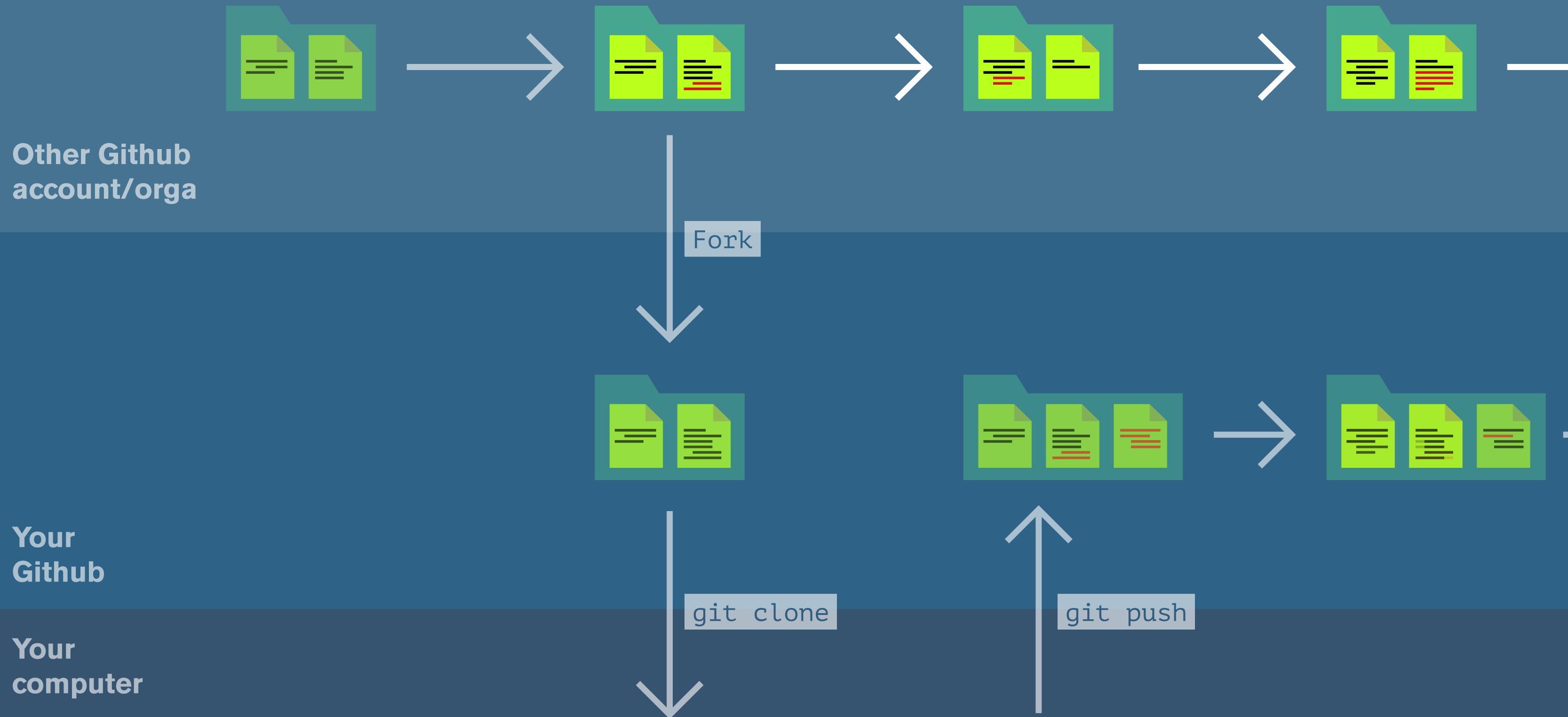
Your
computer

Branching:
Try out new stuff for your project

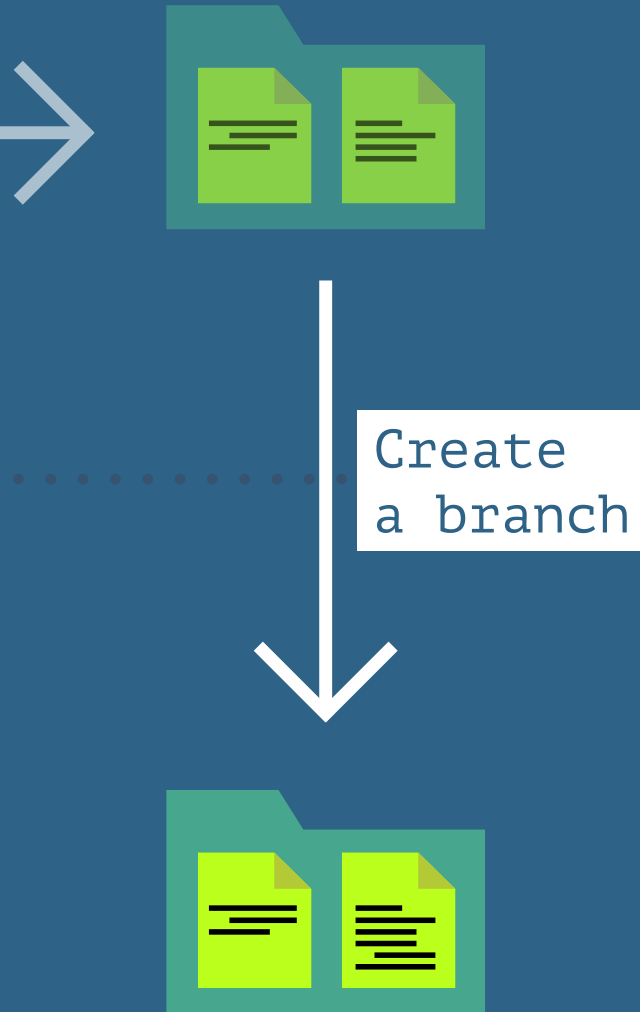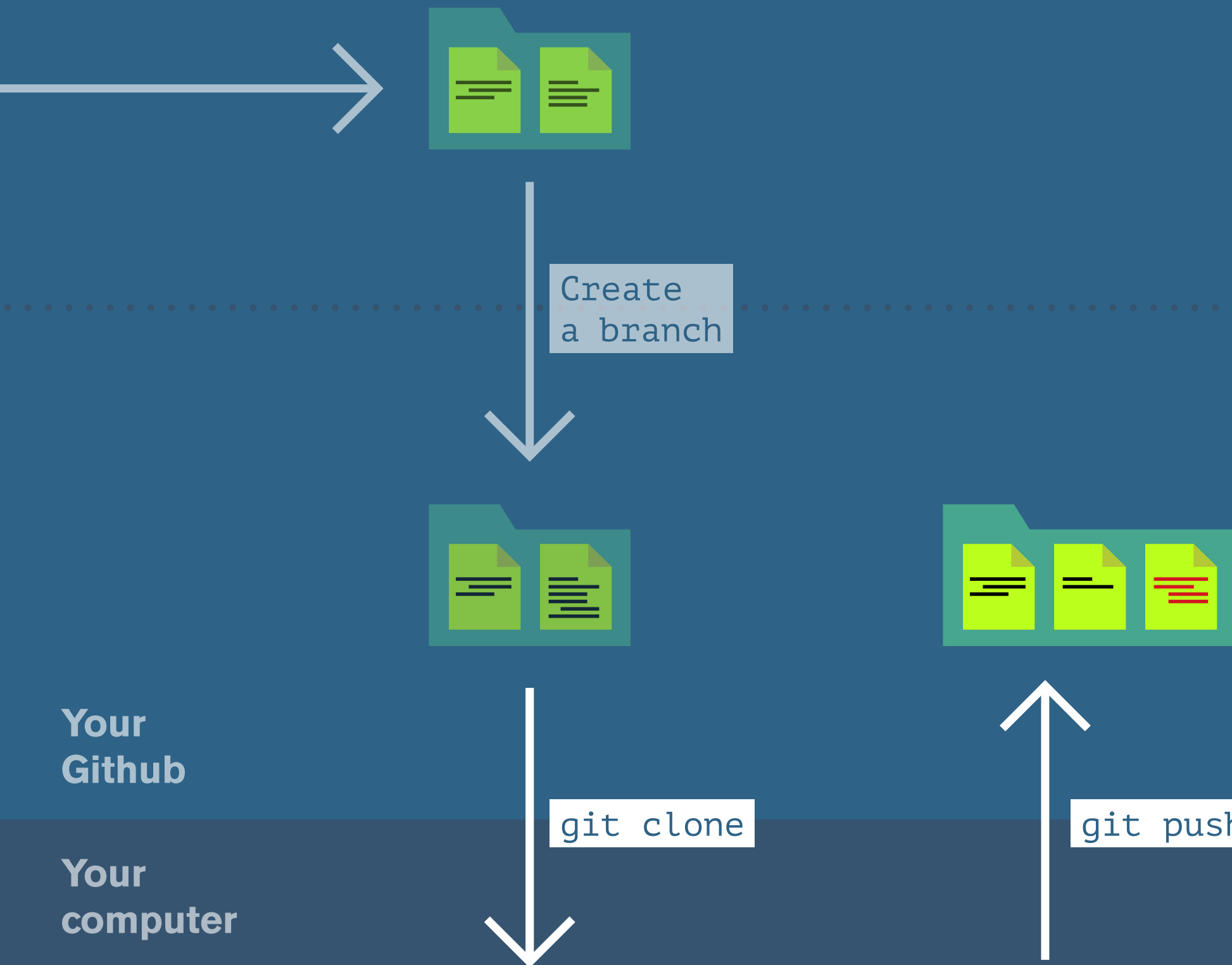# Branching: Want to implement a bigger change in a repo?

Your
Github

Your
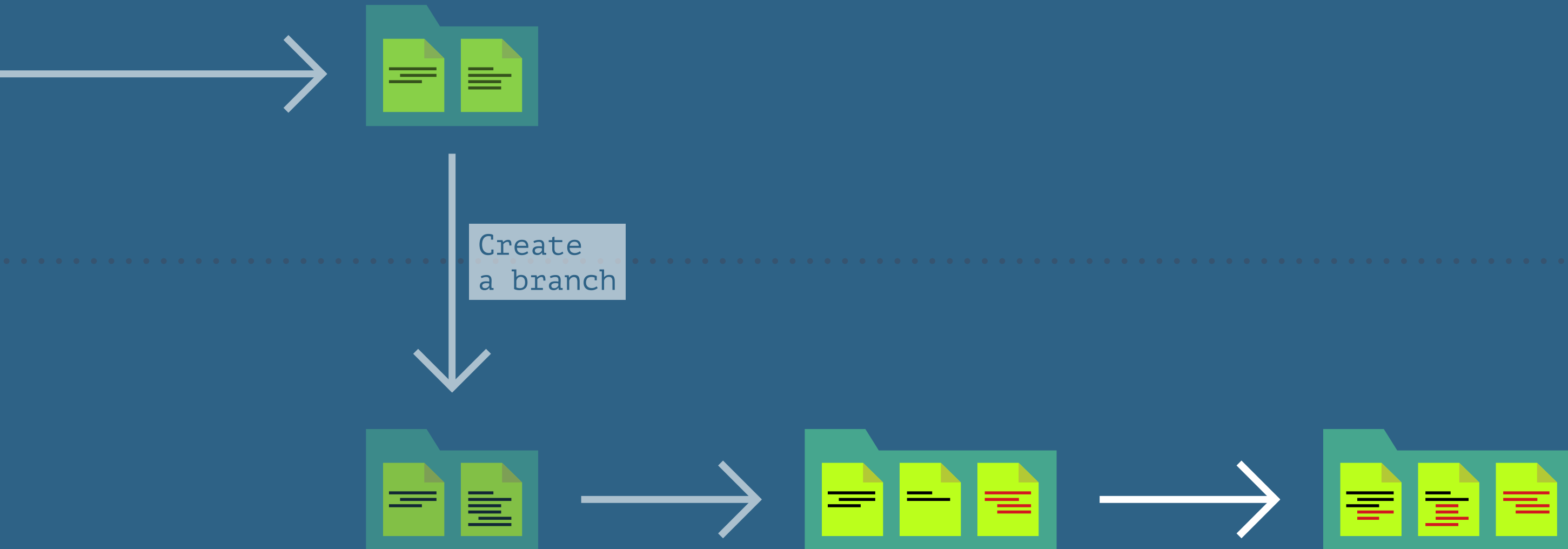computer

Branching: Create a new branch for your project

Create
a branch

Your
Github

Your
computer

Branching: Work on it & push the changes to the new branch

Create
a branch

Your
Github
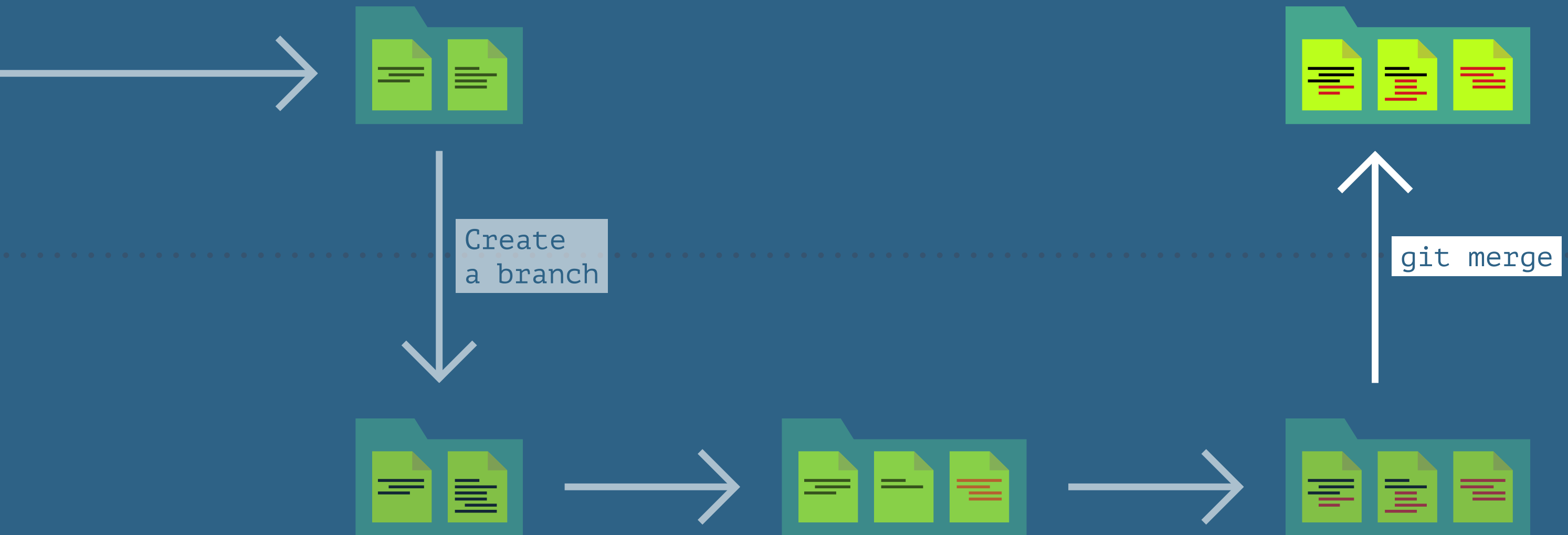
Your
computer

git clone

git push

Branching: Keep working on it until you're happy....

Create
a branch

Your
Github

Your
computer

Branching: ...then merge the changes into the main branch

Create
a branch

git merge

**Your
Github**

**Your
computer**

Branching: You're back on the main branch!

Create a branch

git merge

Your Github

Your computer