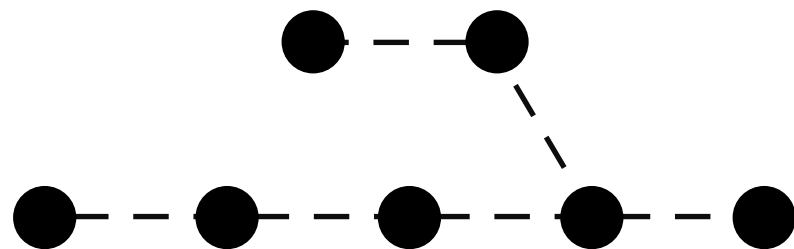


Git workshop



What is git ? (for a biologist)

a versioning system =
a set of tools to track changes
 * in a directory...
 * or across computers...

a command-line tool (but has interfaces)

Why use git ?

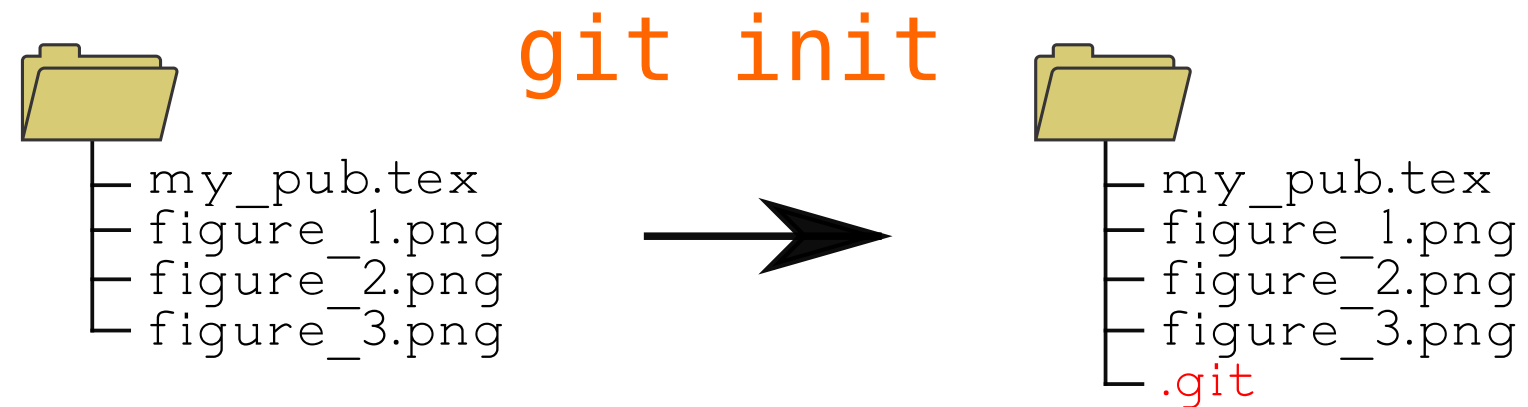
to keep track of work on a project

to work with collaborators

git essentials

(you don't need to know everything !)

- a repository = a tracked folder



- git status

git essentials

(you don't need to know everything !)

- a commit = a set of changes
= a set of addition/deletion/modifs of files



`git add .` (add all files in the current directory)

`git add my_pub.tex figure_1.png figure_2.png figure_3.png` (add specific files)

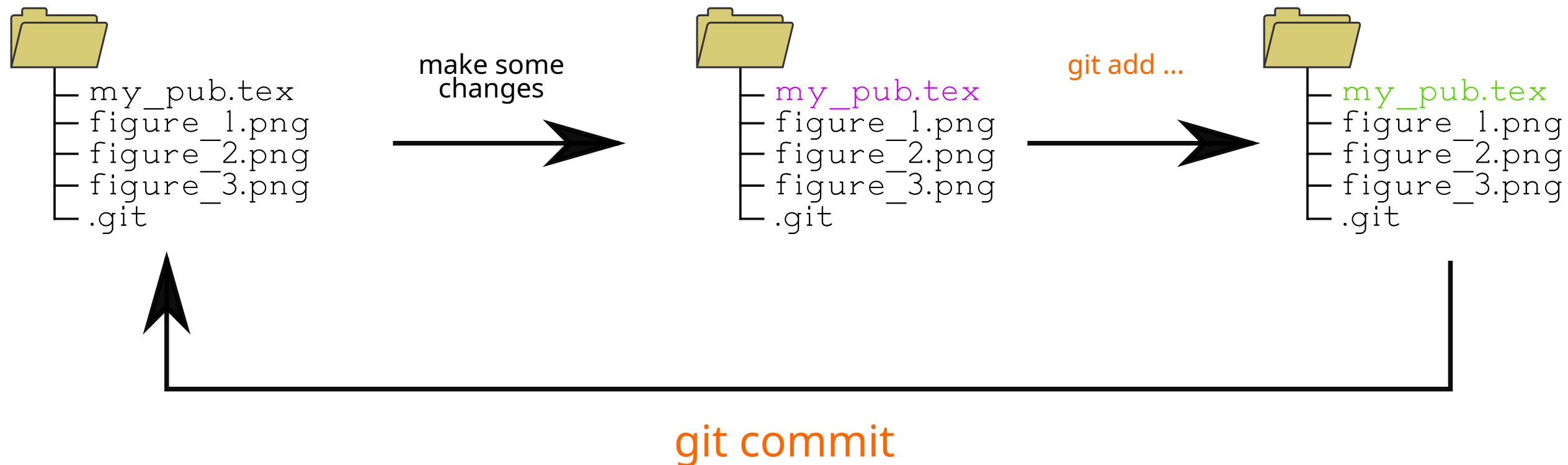
(then `git status` !)

(then `git commit` !)

git essentials

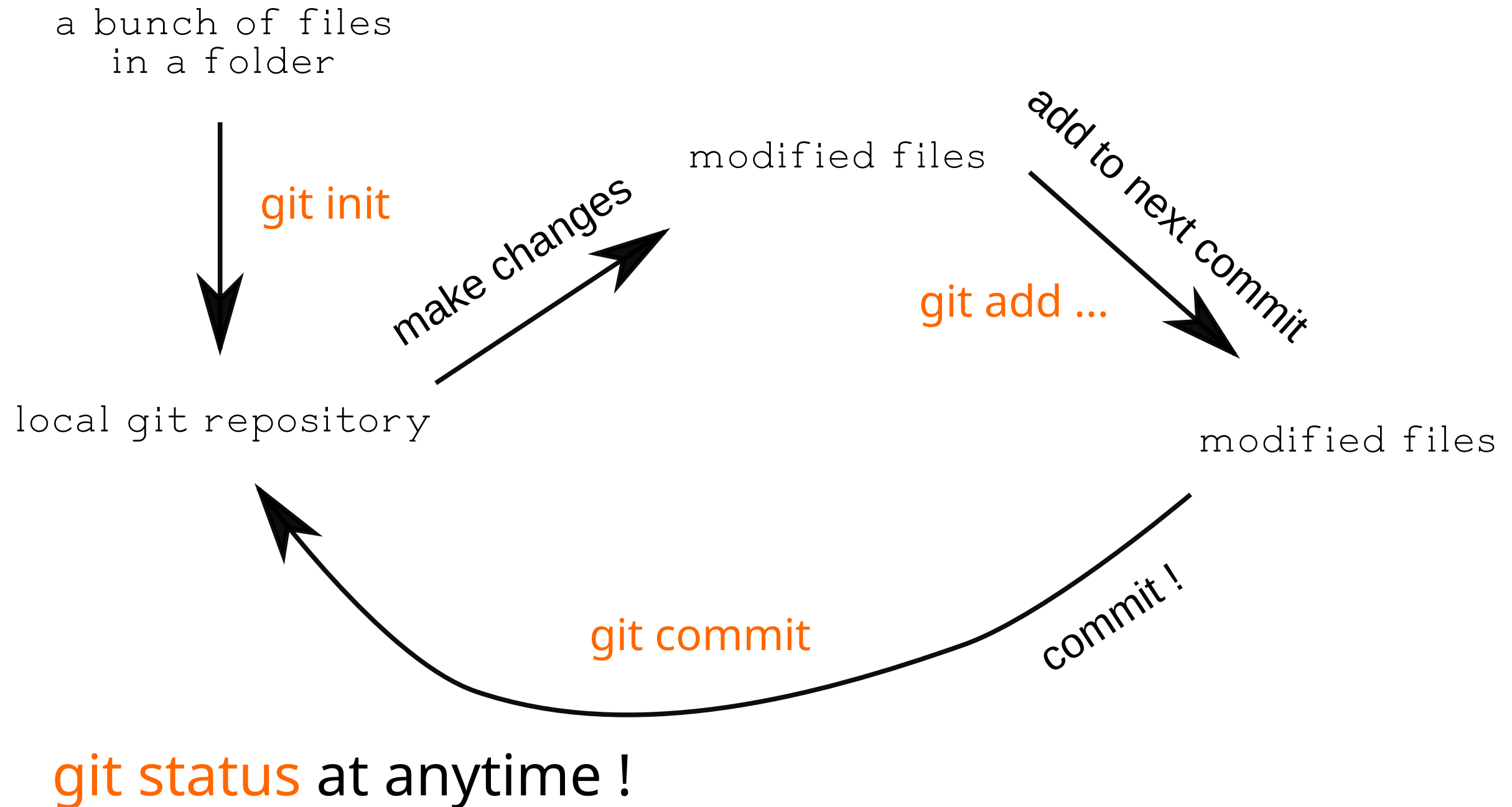
(you don't need to know everything !)

- a commit = a set of changes
= a set of addition/deletion/modifs of files

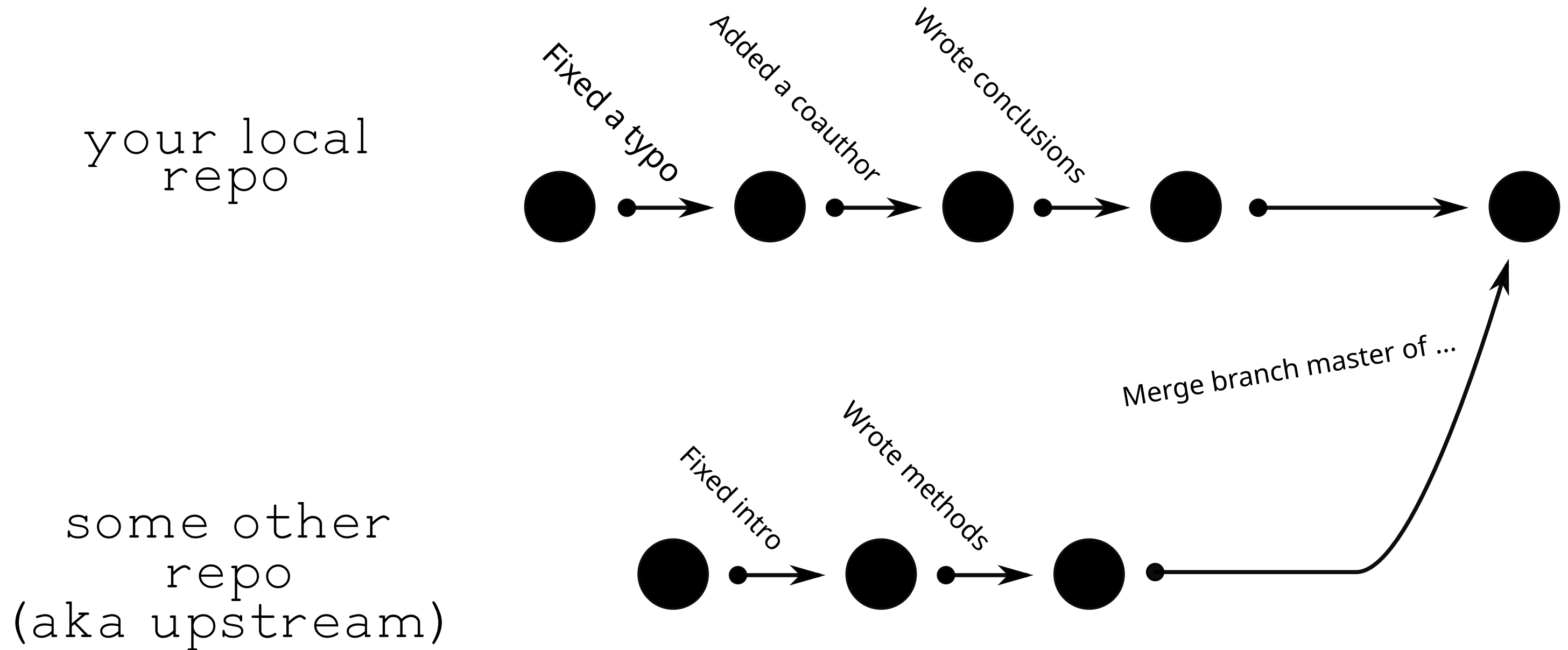


git status at anytime !

tracking changes locally



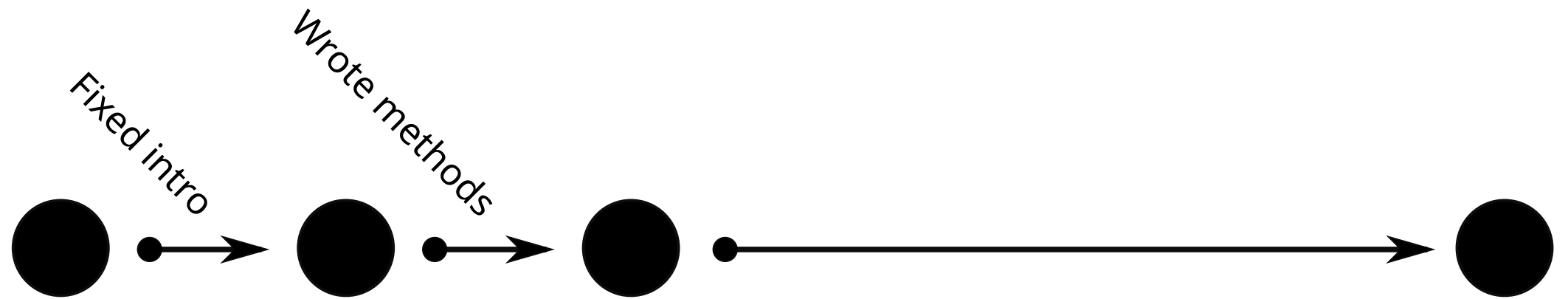
tracking changes across repos



tracking changes across repos

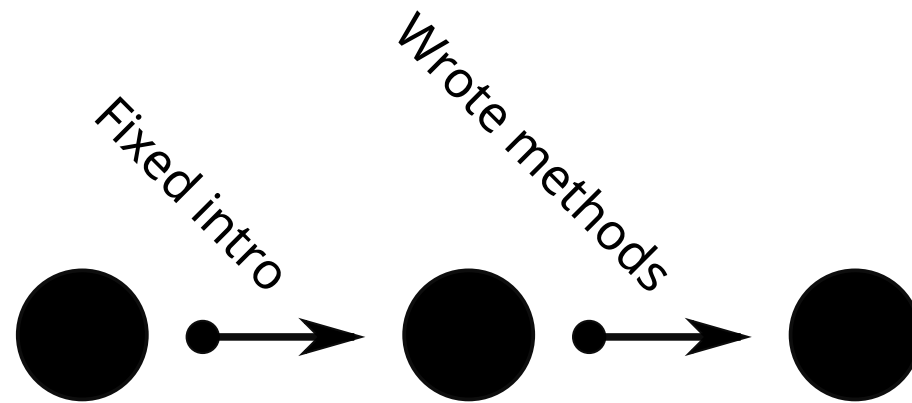
your local
repo

some other
repo
(aka upstream)



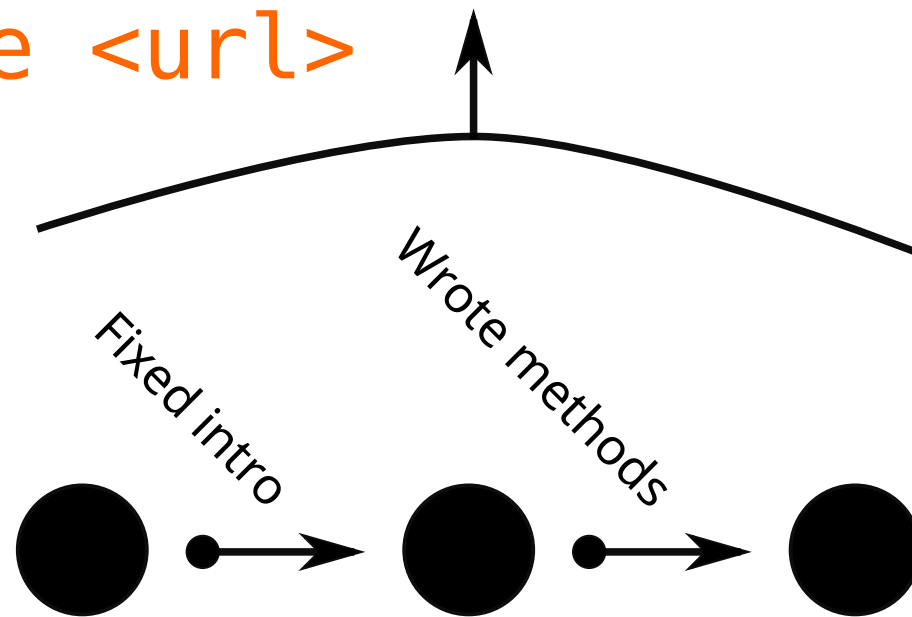
tracking changes across repos

your local
repo

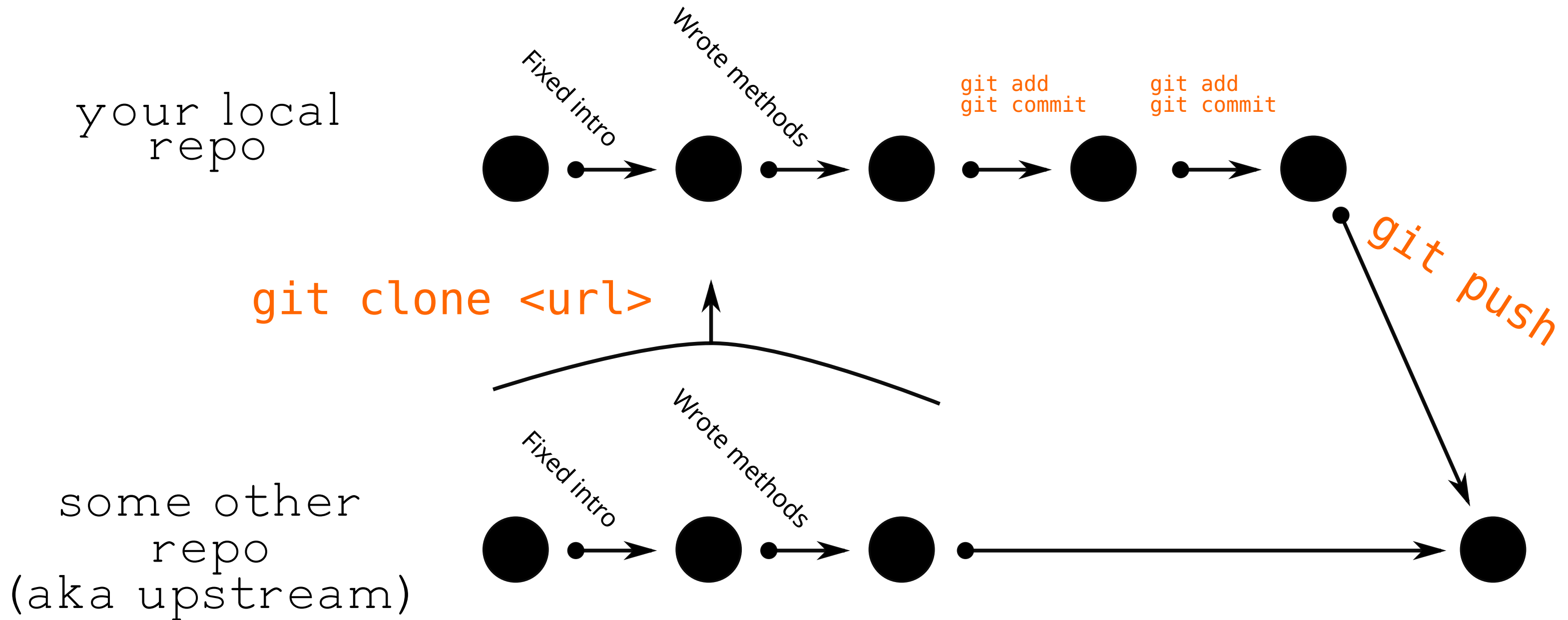


git clone <url>

some other
repo
(aka upstream)

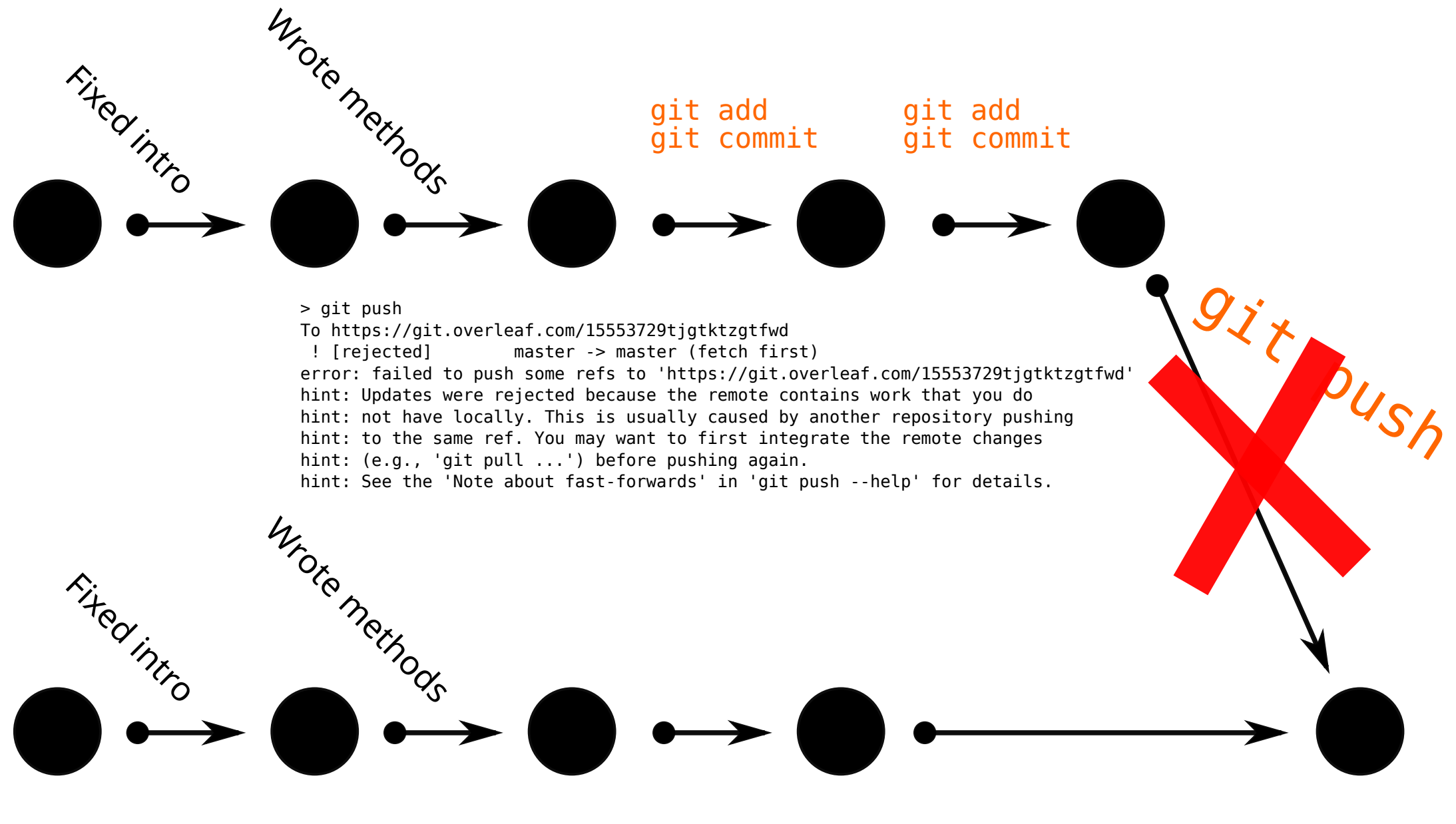


tracking changes across repos



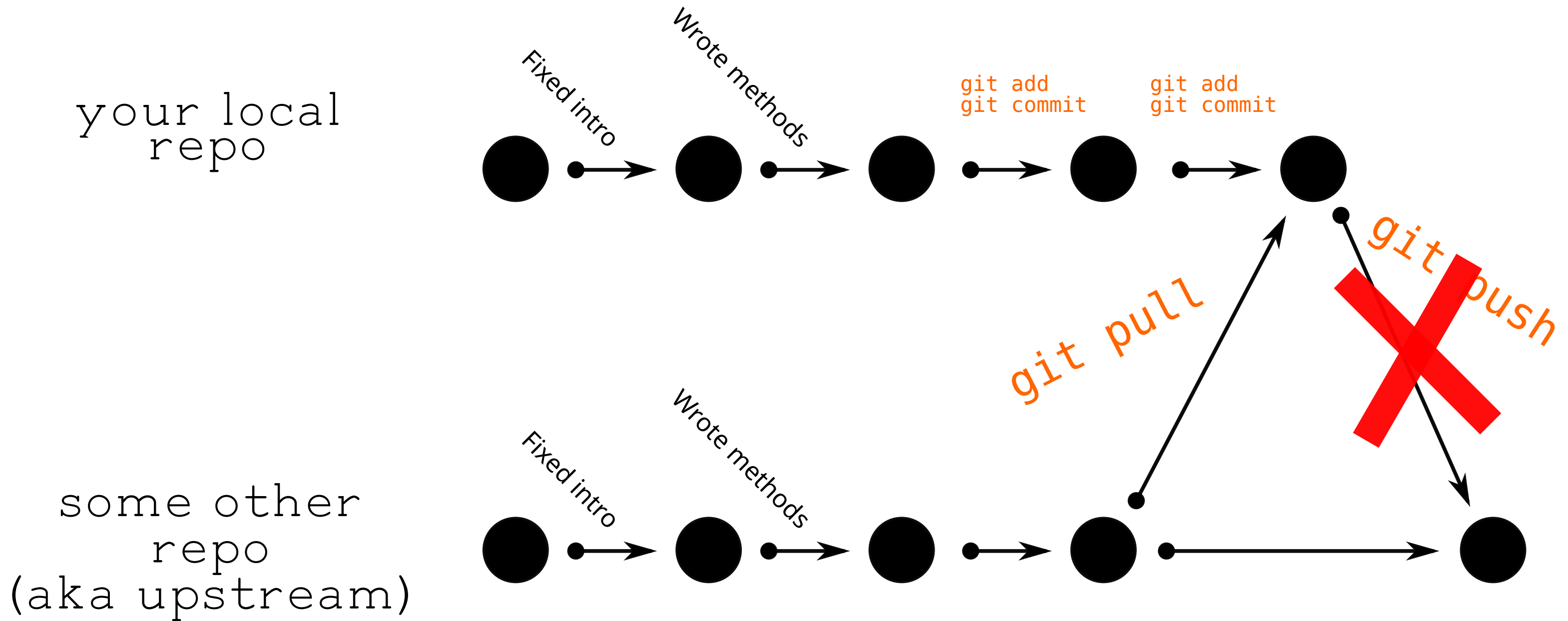
tracking changes across repos

your local
repo

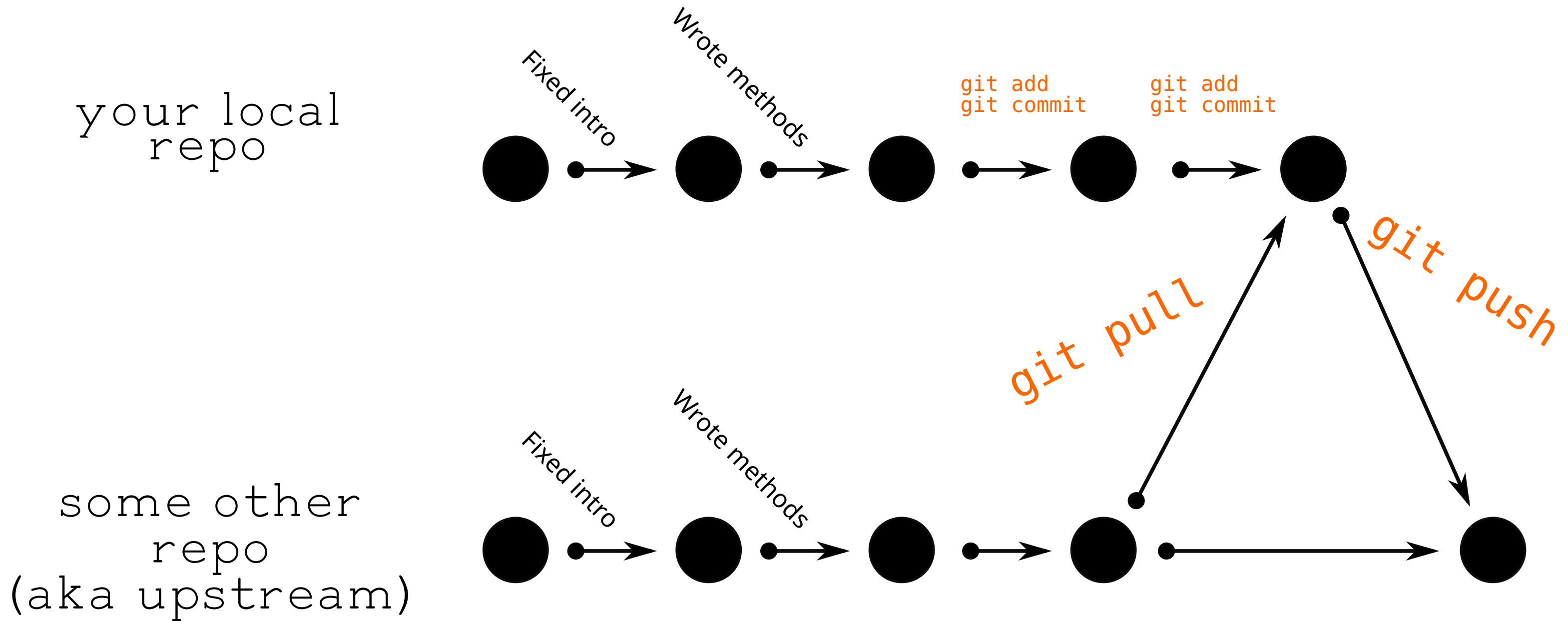


some other
repo
(aka upstream)

tracking changes across repos

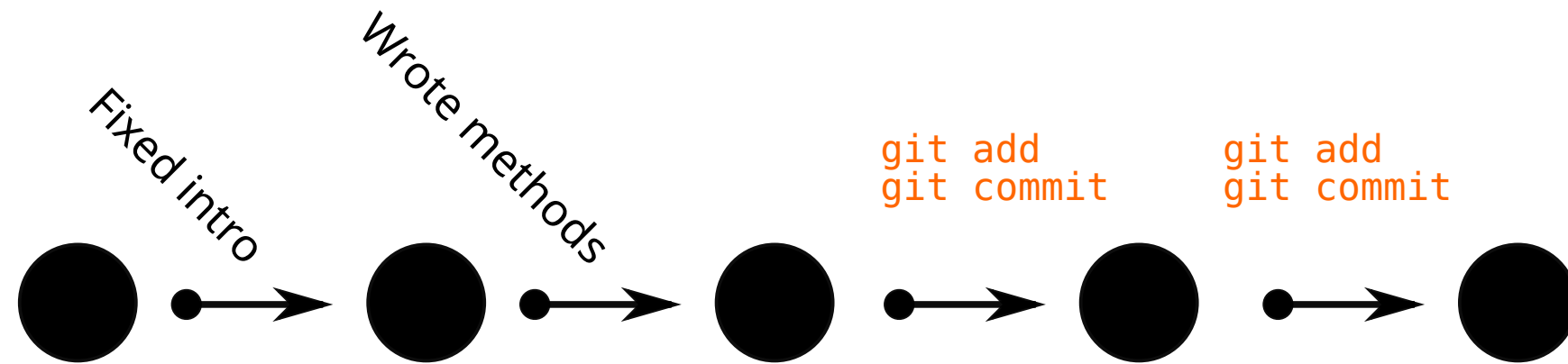


tracking changes across repos



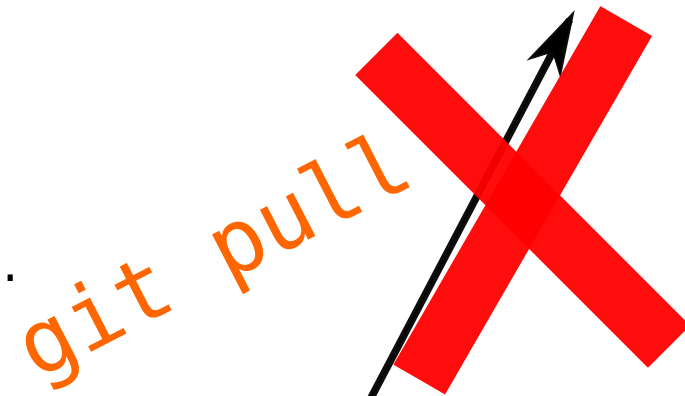
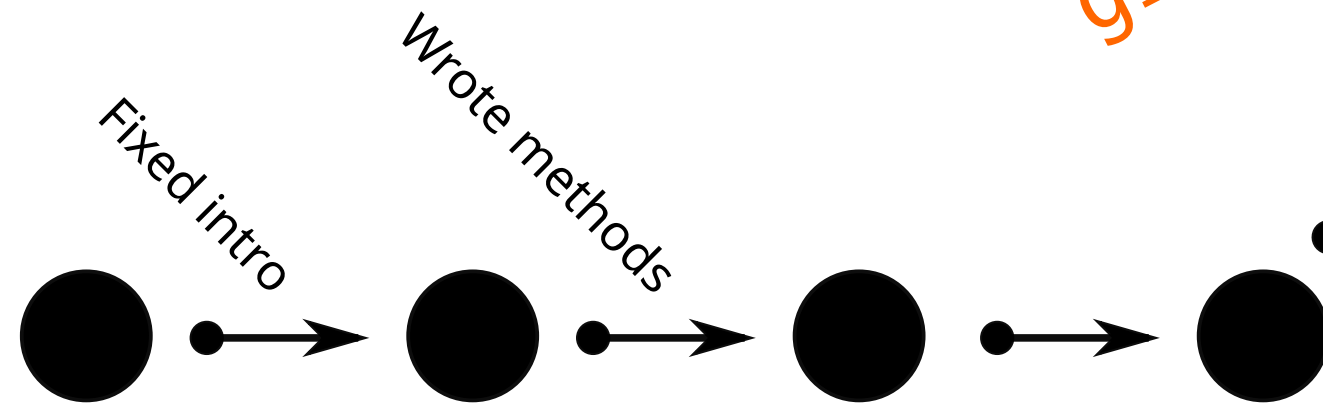
tracking changes across repos

your local
repo



```
From https://git.overleaf.com/15553729tjgkztzgtfwd
 caefe81..599757b  master    -> origin/master
Auto-merging main.tex
CONFLICT (content): Merge conflict in main.tex
Automatic merge failed; fix conflicts and then commit the result.
```

some other
repo
(aka upstream)



tracking changes across repos

[...]

<<<<<<< HEAD

% Add the actual text below


=====

% Add the actual text below (use your imagination)


>>>>>>> 599757bbe3dd97df3ee210c8da56322cc531f119

[...]

What you have



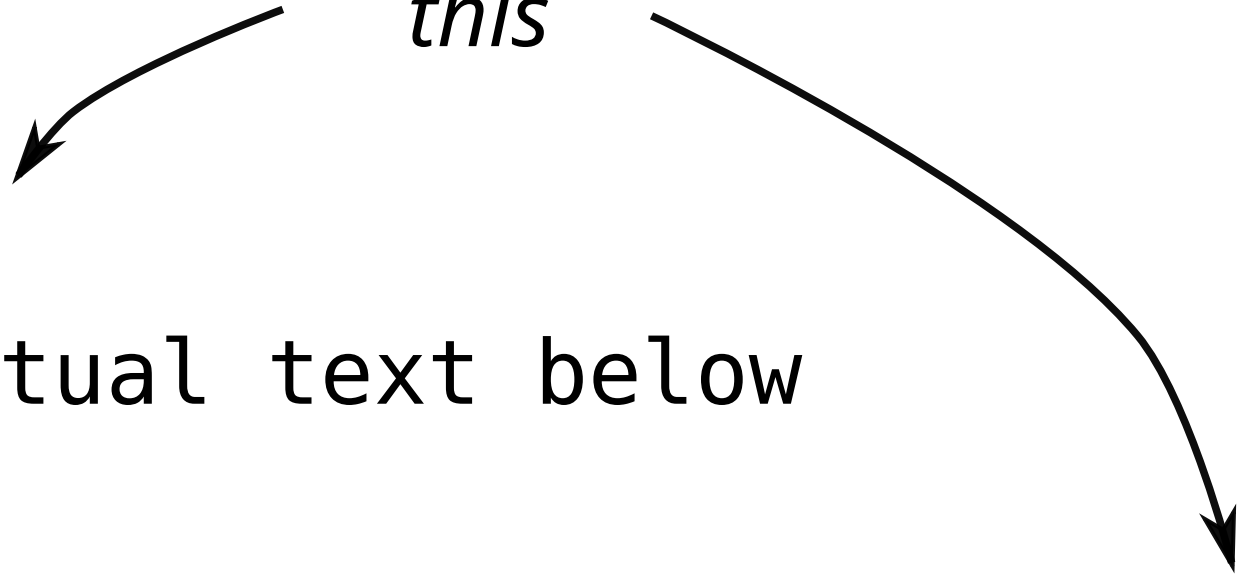
What they have



tracking changes across repos

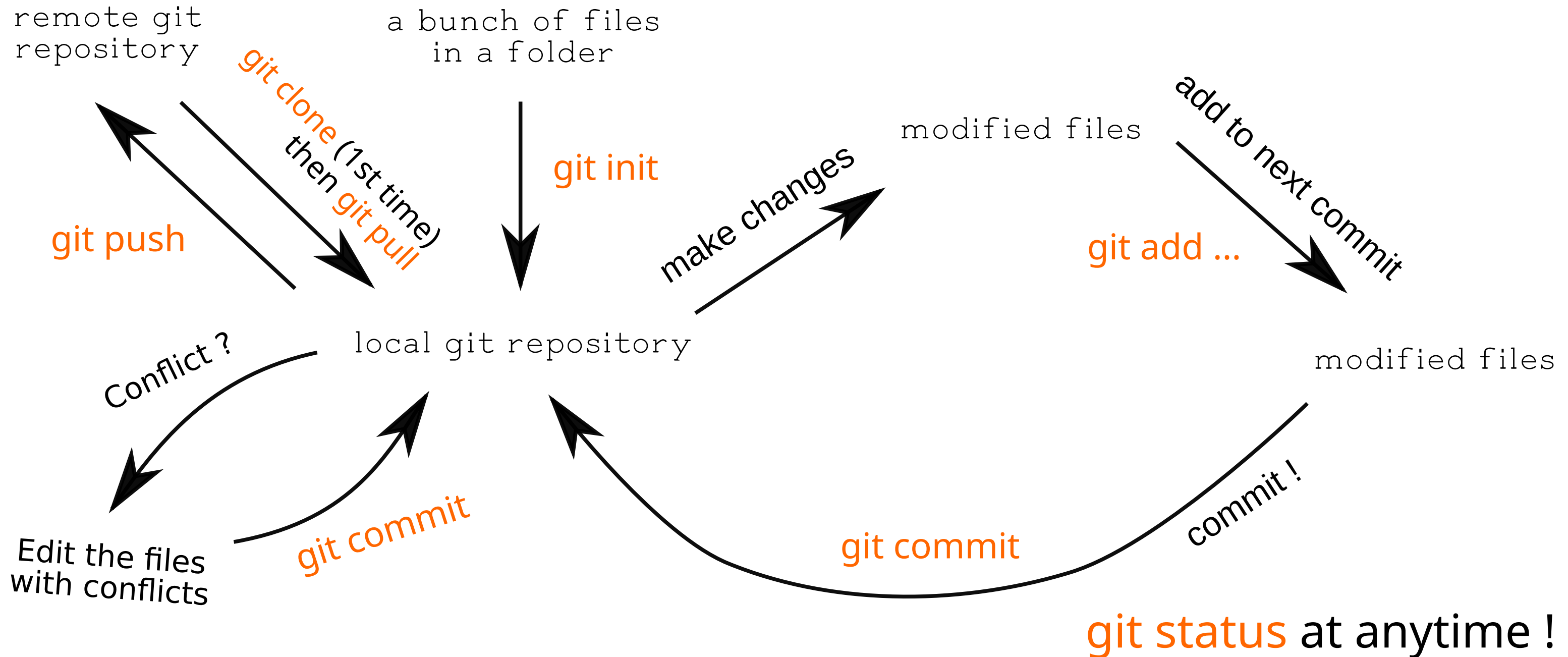
*remove
this*

```
[...]  
<<<<<<< HEAD  
% Add the actual text below  
=====  
% Add the actual text below (use your imagination)  
>>>>>>> 599757bbe3dd97df3ee210c8da56322cc531f119  
[...]
```



then **git commit** !

tracking changes everywhere



Graphical interfaces

git instaweb (view only, all)

Rstudio (all)

gitg (linux)

github client (all ?)

...