Git: handling files

File created

You create a new file inside a git repo

file.py

This file is detected but ignored by git unless you add

File created

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This file is detected but ignored by git unless you add

File added

Git is now monitoring if the file is changed.

If you change it further, just add it again.

file.py

When you're happy, you add the file to the staging area by doing a **commit**

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file.py

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File commited

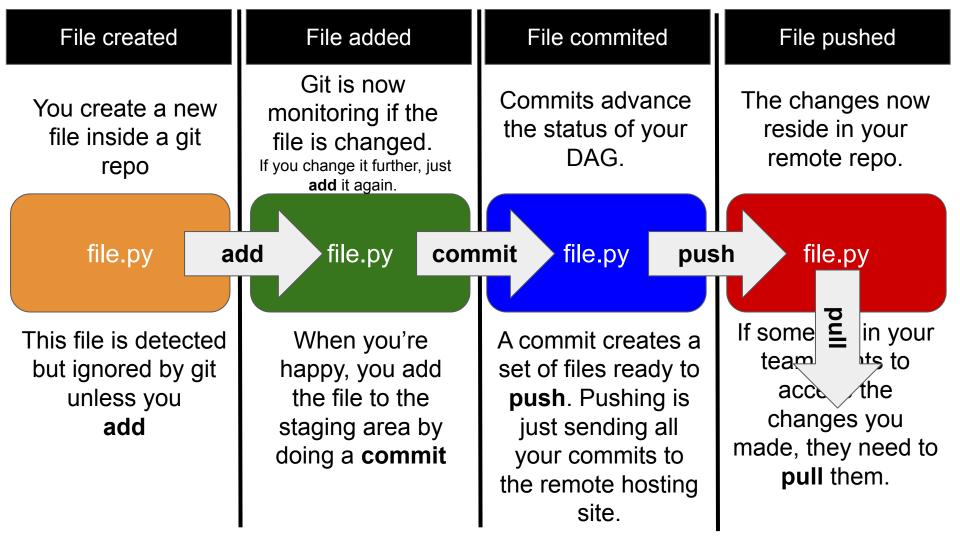
Commits advance the status of your DAG.

file.py

A commit creates a set of files ready to **push**. Pushing is just sending all your commits to the remote hosting site.

File created	File added	File commited	File pushed
You create a new file inside a git repo	Git is now monitoring if the file is changed. If you change it further, just add it again.	Commits advance the status of your DAG.	The changes now reside in your remote repo.
file.py	file.py	file.py	file.py
This file is detected but ignored by git unless you add	When you're happy, you add the file to the staging area by doing a commit	A commit creates a set of files ready to push . Pushing is just sending all your commits to the remote hosting site.	If someone in your team wants to access the changes you made, they need to pull them.

П

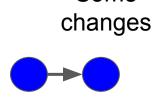


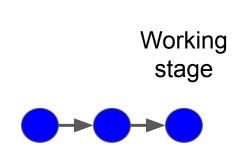
Branches

Initial commit

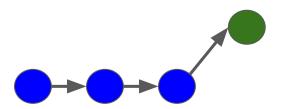


Some

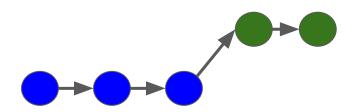




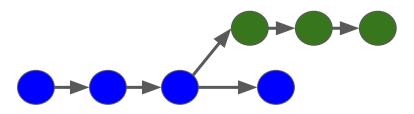
Feature branch



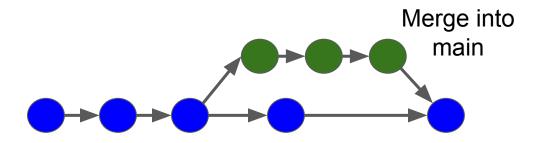
Develop feature



Keep developing feature

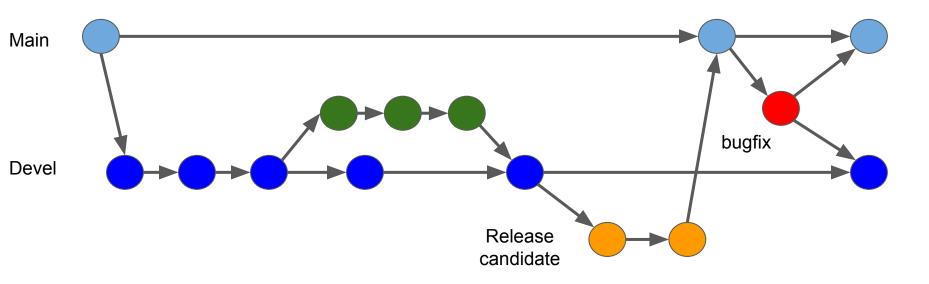


Keep developing main branch



Main now has feature

Complex development DAG



SourceTree: free git helper
Auxiliary tool to manage git flows

Working rationale

Local version of the git repository

Working directory

Directory where you are working on your project

Staging area

Area where you prepare your code to be committed

Working directory

Auxiliary location:
Where you save your
current progress if you
want to return to the
beginning of the last
commit: we will not cover it
in the demo due to time
restrictions. You might
need to use it at some
point.

Staging area

Working directory

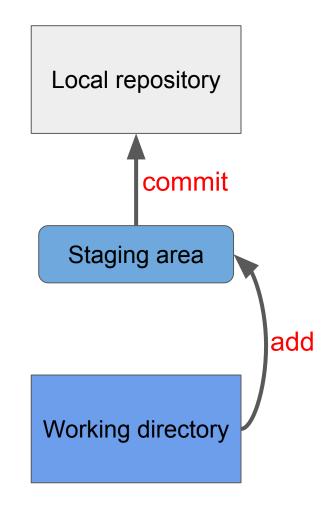
Stash

Staging area

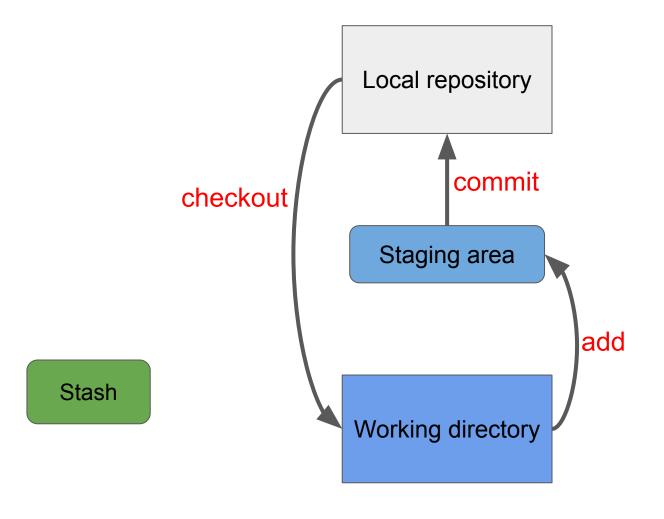
Working directory

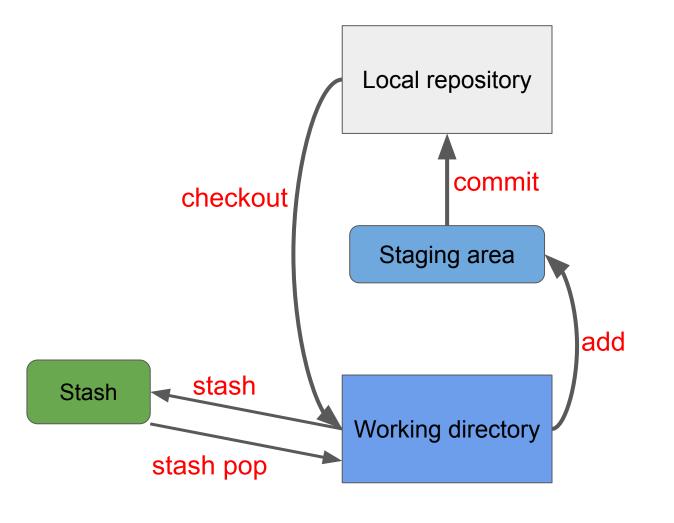
add

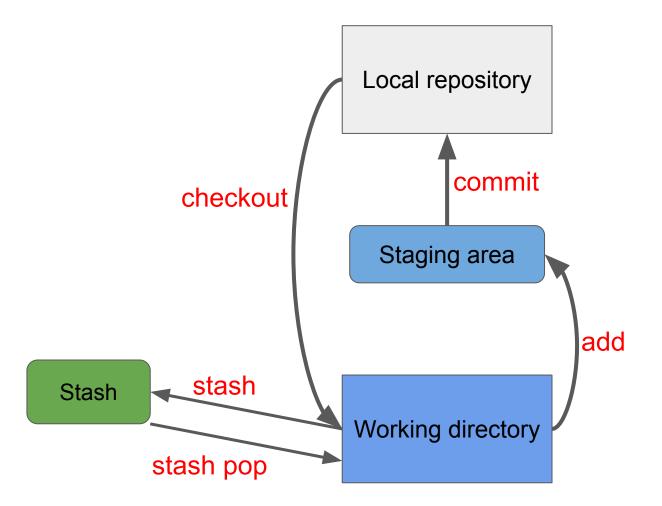
Stash



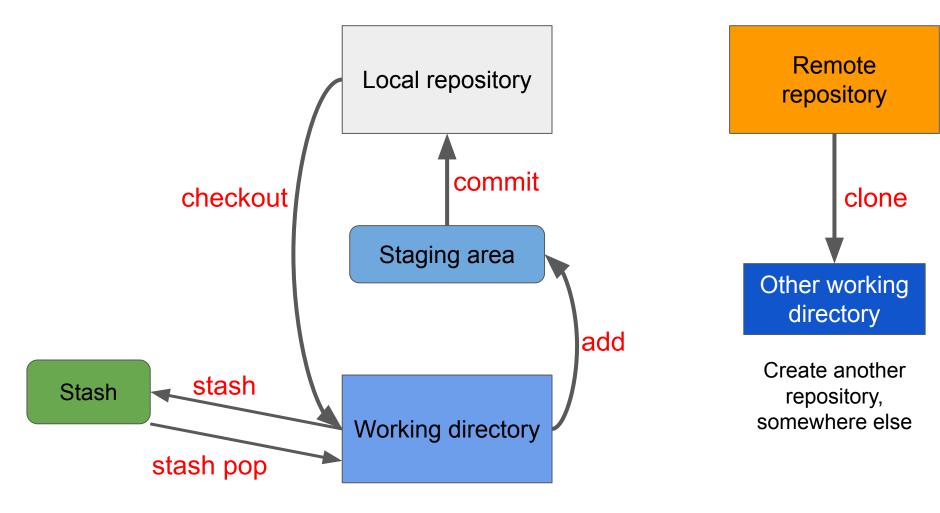
Stash

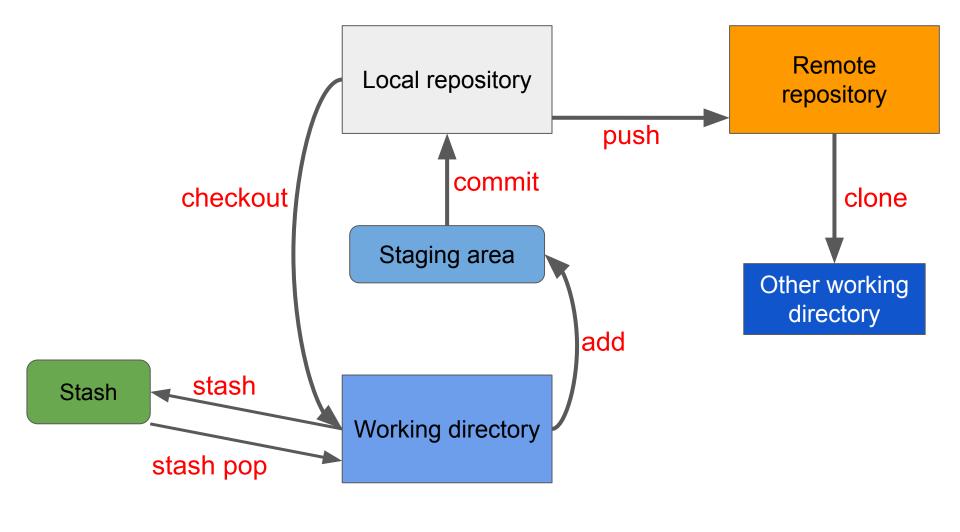


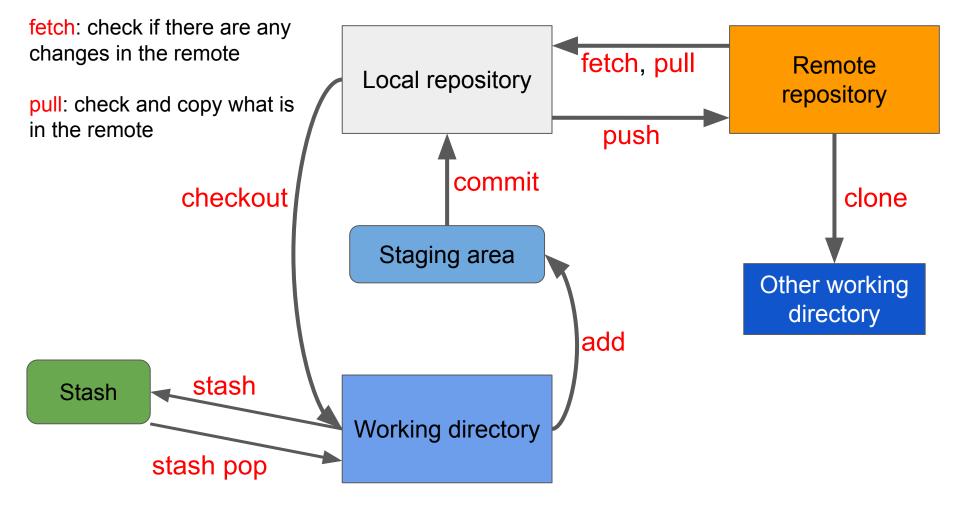




Remote repository

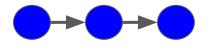




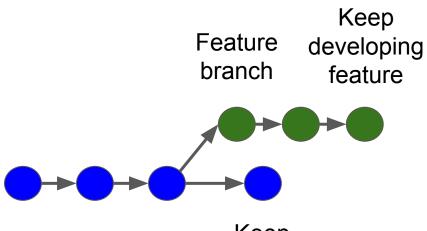


Demo images

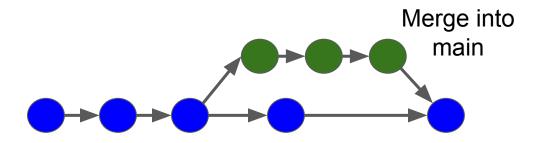
Initial Working commit stage



Some changes



Keep developing main branch



Main now has feature