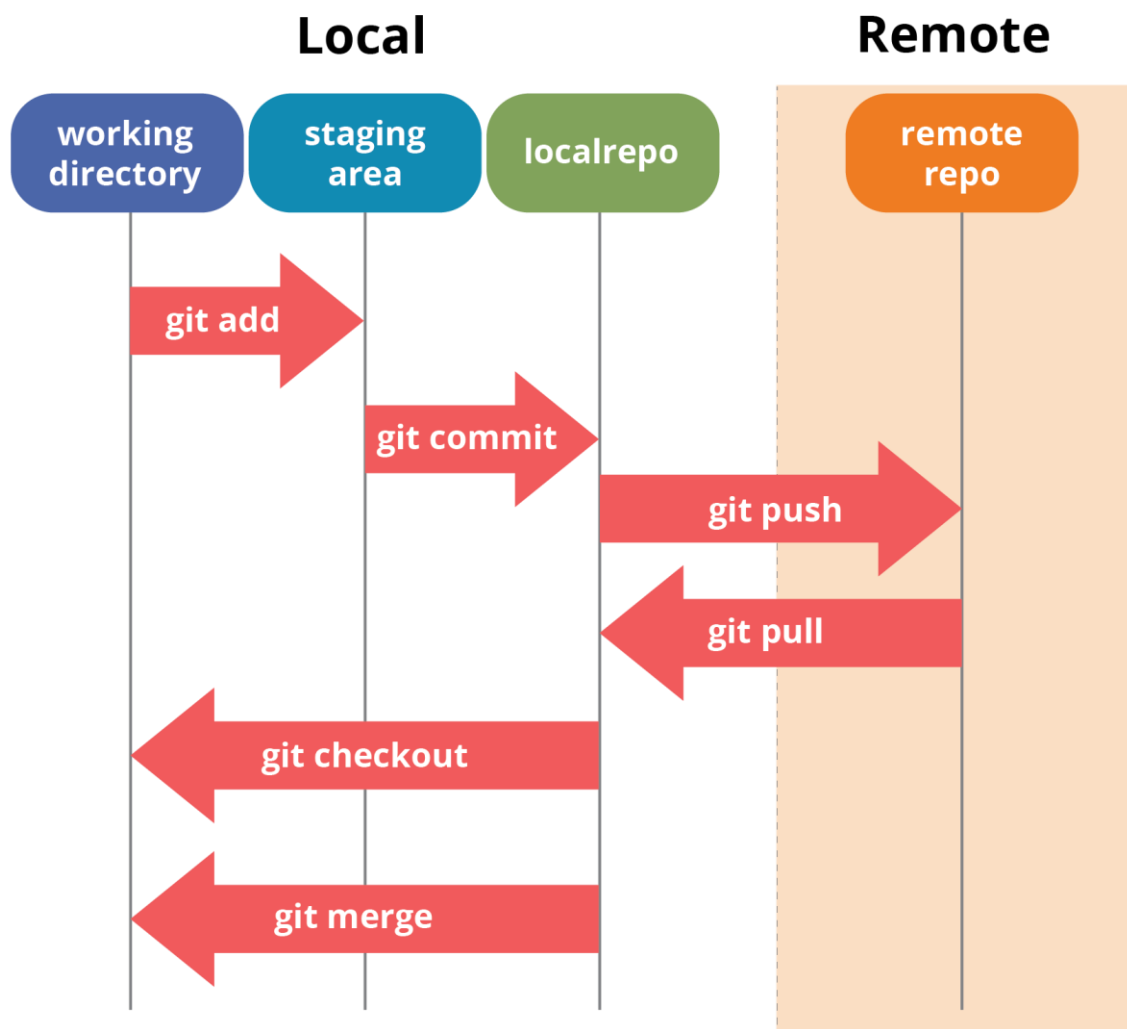# Git And GitHub

What is Git?

Git is a version control system used for tracking changes in computer files. It is generally used for source code management in software development

What is GitHub?

GitHub is a platform to host the code online based on Git. It is a place where you can host your code and maintain its history. For beginner it is very important to know the working of Git and usage of GitHub.

Git, on other hand, is an open source version control system tool which is useful to track the constant changes in your code.

GitHub also allows collaborative working between different programmers from anywhere.

Install Git cli using 'git-scm.com'

 Installation is super eassy.

Now,

```
$ git config --global user.name "your_name"

$ git config --global user.email your_email

$ git init

$ copy con names.txt

$ git status

$ git add names.txt

$ git status

$git commit -m "names.txt file updated"

$ git log          [ for history ]

$ git commit

$ git reset ffd4c60e44ded5d8f2385bb1a2f6b6daa21e1883

$touch surnames.txt

$ touch houses.txt

$ git add .
```

$ git status

Now, I want my files that I make in on back of stage not in the commit history, basically whole idea is that when I that file I just simple call this file from back stage.

Let's work that, I use stash

stash -- stash away changes to dirty working directory

$ git stash

$ git status

That how to go back to your work.

Now it's time to call back all file from back stage

I simple use "stash pop"

$ git stash pop

$ git stash clear

FROM GITHUB

Create a new repo name it "On-Git"

And Use CLI as below:

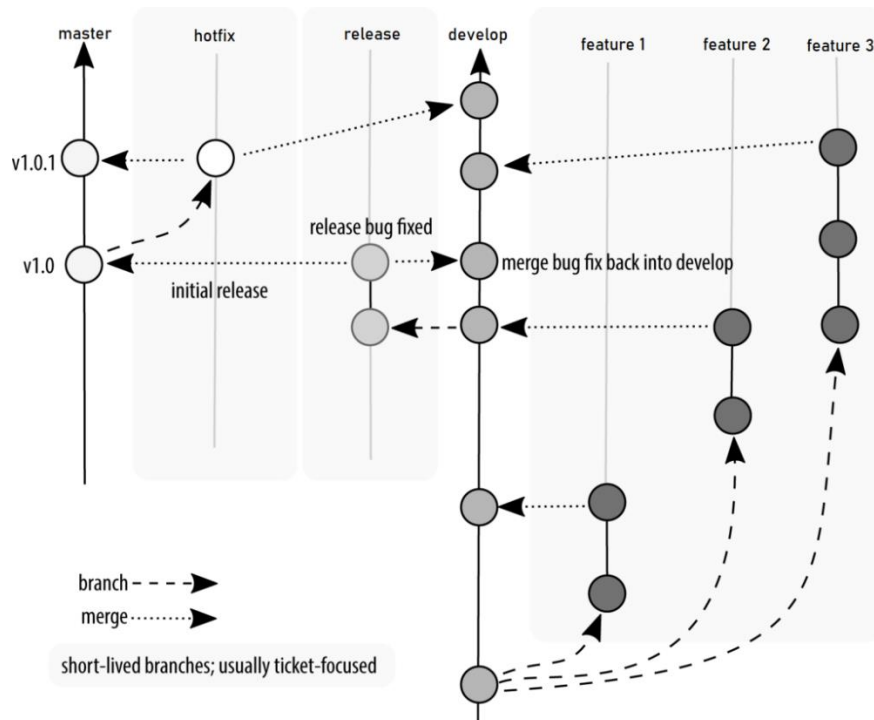$ git remote add origin https://github.com/rishavmehra/On-Git.git

$ git remote -v

$ git push origin master

GIT BRANCHING:

Branch in Git is similar to the branch of a tree. Analogically, a tree branch is attached to the central part of the tree called the trunk. While branches can generate and fall off, the trunk remains compact and is the only part by which we can say the tree is alive and standing. Similarly, a branch in Git is a way to keep developing and coding a new feature or modification to the software and still not affecting the main part of the project. We can also say that branches create another line of development in the project. ***The primary or default***

branch in Git is the master branch (similar to a trunk of the tree). As soon as the repository creates, so does the main branch (*or the default branch*).

- You can't do direct changes in somone project. So, there is trick to this use **Frok** method to collab with any project. You do this it on your account.

- Other Git techniques is clone, merge etc