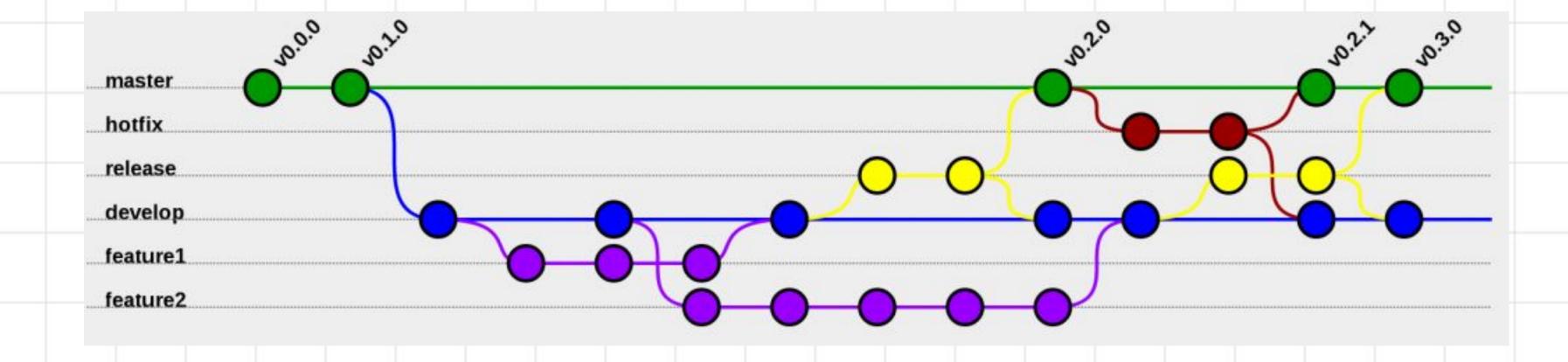


### What is source control?

Source control (or version control) is the practice of tracking and managing changes to code.

## What is Git?

- Git is a free and open source distributed Version Control System(VCS) designed to handle everything from small to very large projects with speed and efficiency.
- 2. Git tracks the changes you make to files, so you have a record of what has been done, and you can revert to specific versions should you ever need to.
- 3. Git also makes collaboration easier, allowing changes by multiple people to all be merged into one source
- 4. Git itself is open source and there are many web-based Git repository hosting service such as GitHub, Gitlab, Bitbucket, SourceForge, Git Kraken and many more.



- 1. Master branch: The branch that syncs to production server
- 2. Staging branch: The branch that syncs to a test server with same configurations as production server
- 3. Develop branch: The branch for all developers to sync to remote and locally
- 4. Feature branches: You should create and work in new branches named after the feature you are working on and merge them to develop branch after you have tested them.

#### Pre-requisites

- 1. Create a Github account at <a href="https://www.github.com">https://www.github.com</a>
- 2. Create SSH key
  - SSH Key is your unique identifier key for your PC.
  - SSH Key is used to connect with other machines via SSH Connection
  - Also used to identify and authenticate your PC seamlessly with online services such as Git Hub.
  - For Windows (Extra steps)
    - Open the Settings panel, then click Apps.
    - Under the Apps and Features heading, click Optional Features.
    - Scroll down the list to see if OpenSSH Client is listed
    - If it's not, click the plus-sign next to Add a feature.
    - Scroll through the list to find and select OpenSSH Client.
    - Finally, click Install.



### Pre-requisites

- For Windows/Linux/Mac
  - Open up the Command Prompt as Administrator(For Windows) and Terminal (For Linux/Mac)
  - Type in the following command: ssh-keygen -t rsa
  - Next, you will have to type in the location of the file where you would like to save the private key.
    Enter file in which to save the key (/home/youruser/.ssh/id\_rsa):
  - The public key will be saved in the same location, under the same file name, but with the .pub extension. Type in nothing to use the default location, which is /home/youruser/.ssh/id\_rsa.
  - Finally, you will have to type in a password. This will be the password required to load the private key and use it to connect via SSH later on:

```
Enter passphrase (empty for no passphrase):
```

- 4. Add SSH key to Github account
  - Settings > SSH and GPG Keys > New SSH key
  - Title = Name of your PC
  - Key = Content of rsa\_pub



# TLDR;

- 1. git checkout -b select\_booking\_date // Create and switch to new feature branch <make your changes to the files>
- 2. git add. // Add all files
- 3. git commit -m "Added select booking date feature for for booking step "
- 4. git checkout staging // Switch to staging branch / or main/master branch
- 5. git pull // Always pull first. Pull any recent changes by other developers before you merge.
- 6. git merge select\_booking\_date --no-ff // --no-ff flag is to keep the commit messages in the dev branch
- 7. git push
- 8. git branch -d select\_booking\_date // Delete branch after merging



For all other Git related commands, can refer to this Cheat Sheet:

https://training.github.com/downloads/github-git-cheat-sheet.pdf

