



FEBRUARY 21, 2023

DevOps Classroomnotes 21/Feb/2023

Git Contd..

Git Branch

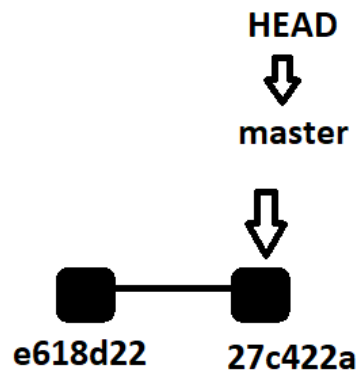
- Branch allows us to have parallel development in the same repository
- Create a new local repo (git init) and make first commit

```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git add .

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git commit -m "added basic skeleton"
[master (root-commit) e618d22] added basic skeleton
4 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 deploy/Readme.md
create mode 100644 docs/Readme.md
create mode 100644 src/Readme.md
create mode 100644 tests/Readme.md

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git branch
* master
```

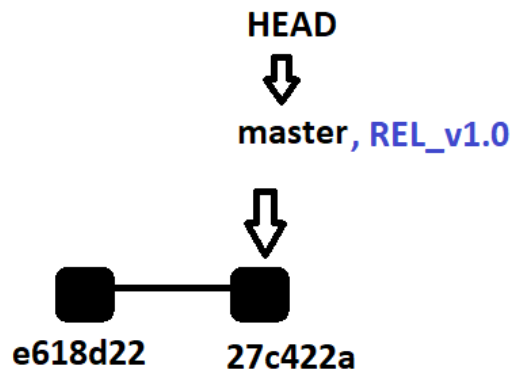
- Branch to a git is a pointer to a commit id which is latest commit on the branch



- Lets create a new branch REL_v1.0 (Release for v1.0)

```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git branch REL_v1.0

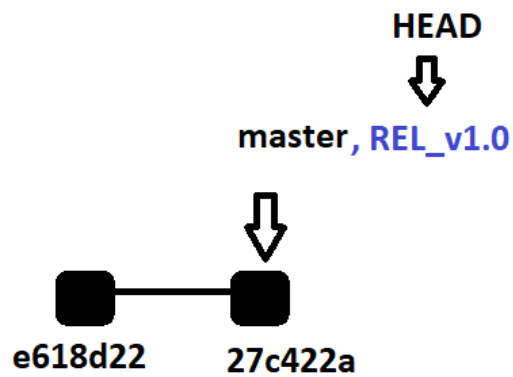
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git branch
REL_v1.0
* master
```



- Lets move to REL_v1.0 branch

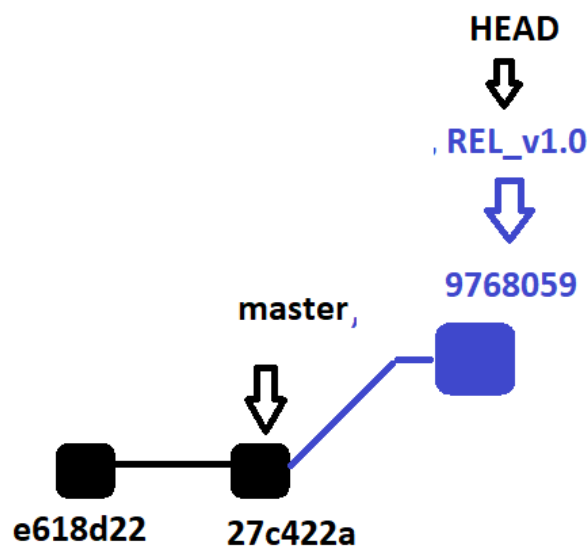
```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git checkout REL_v1.0
Switched to branch 'REL_v1.0'

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (REL_v1.0)
$ git branch
* REL_v1.0
  master
```



- Now lets add a commit to REL_v1.0 branch

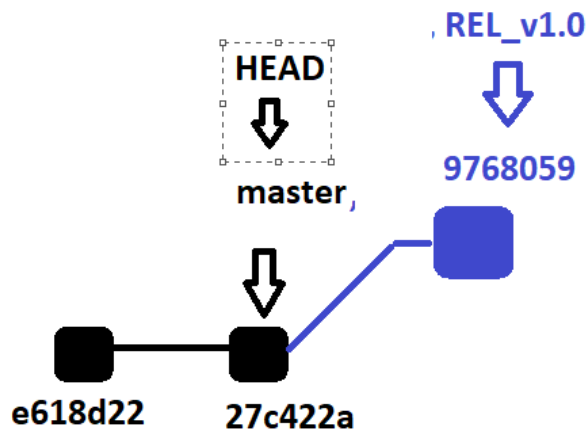
```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (REL_v1.0)
$ git log --oneline
9768059 (HEAD -> REL_v1.0) Added tests
27c422a (master) Added main.py
e618d22 added basic skeleton
```



- Now lets move to master and look at history

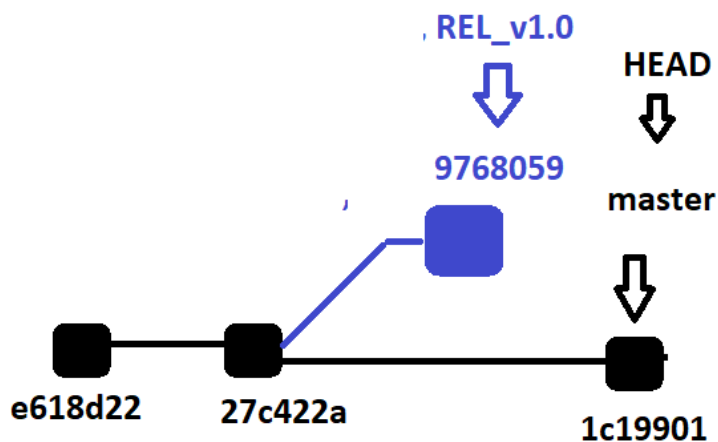
```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (REL_v1.0)
$ git checkout master
Switched to branch 'master'

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git log --oneline
27c422a (HEAD -> master) Added main.py
e618d22 added basic skeleton
```



- Now lets add a commit to master branch

```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/branches_demo (master)
$ git log --oneline
1c19901 (HEAD -> master) Added docs
27c422a Added main.py
e618d22 added basic skeleton
```



- Once we have these branches there will be needs to bring changes from one branch to another. To acheive this we need to work with
 - merge
 - Three way merge
 - no fast forward merge
 - Rebase
 - cherry pick
- When we do any of the above, there might be cases leading to conflicts (merge conflicts)

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