



# Controle de Versões

# SCM

Gerenciamento de código fonte  
“Source Control Management”



Curriculum vitae.doc



Curriculum vitae.doc



Curriculum vitae-v1.doc



Curriculum vitae-v2.doc



Curriculum vitae-v3.doc



Curriculum vitae.doc



Curriculum vitae-v1-2021-jan.doc



Curriculum vitae-v2-2021-mai.doc



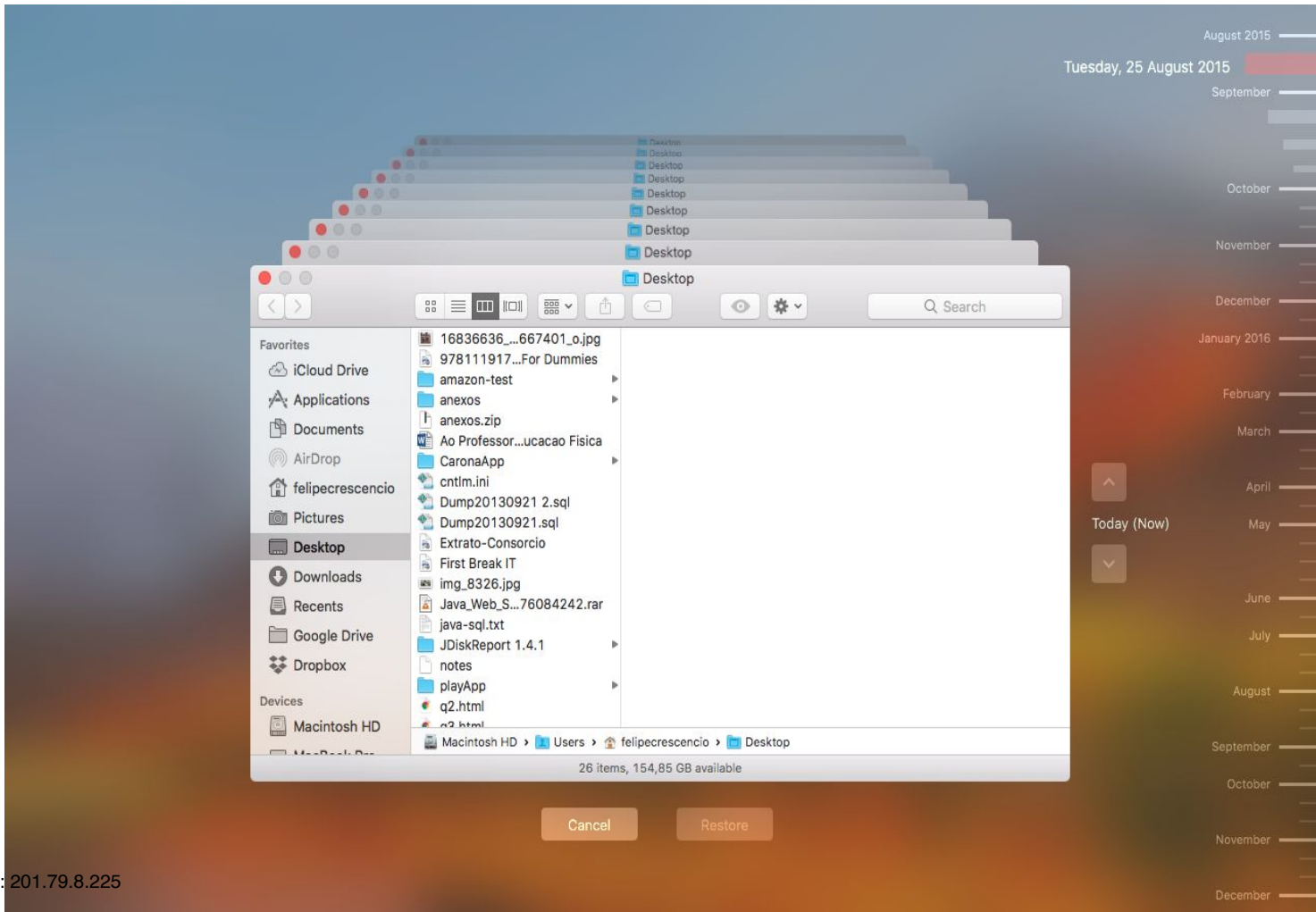
Curriculum vitae-v3-2022-jan.doc

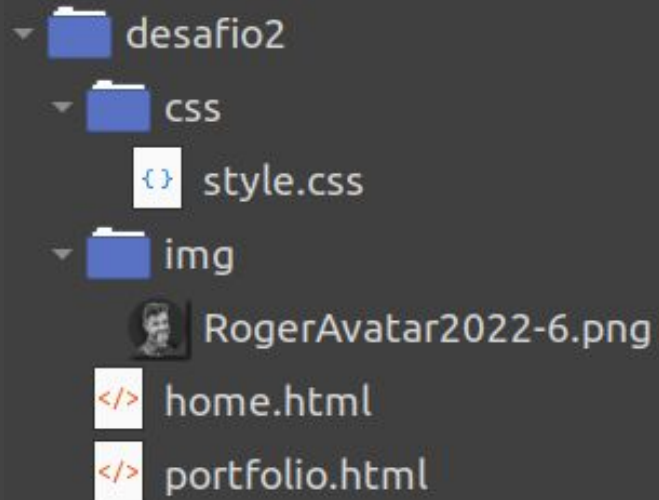


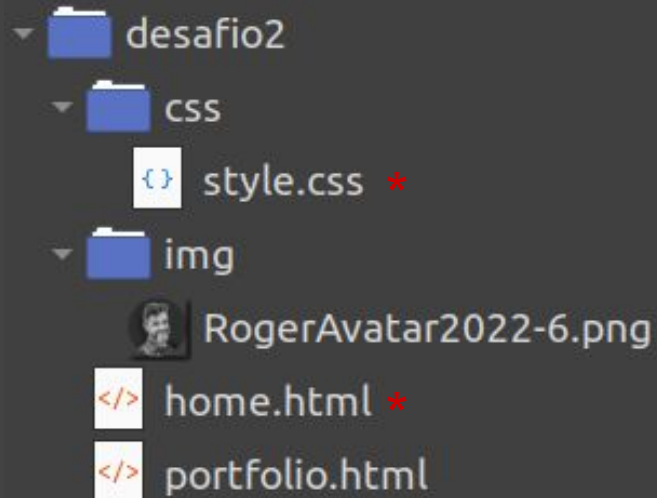
Curriculum vitae-v4-2022-jan-revisado.doc



# Time Machine







desafio2-v1-inicial.zip

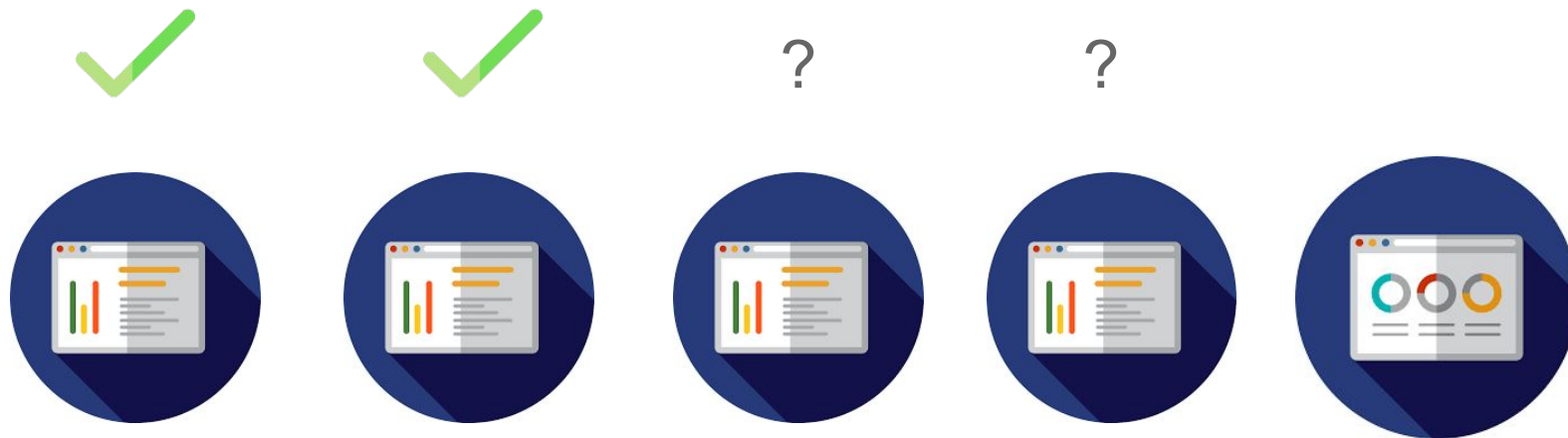


desafio2-v2-com-css.zip



desafio2-v3-versao-dahora.zip





Versões do projeto ao longo do tempo...

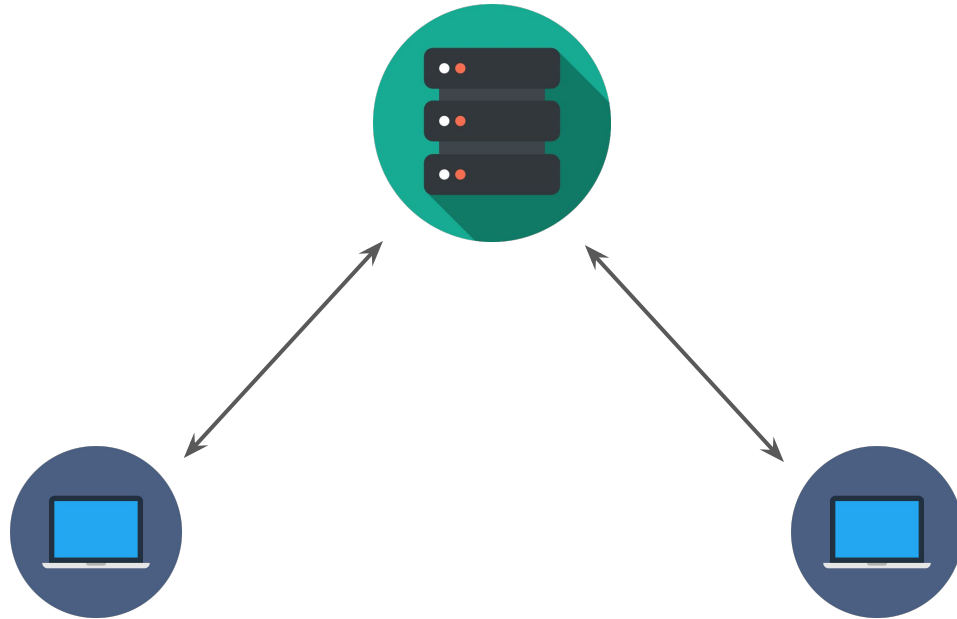


Versões do projeto ao longo do tempo...

# Centralizado VS Distribuído

# Centralizado

Servidor

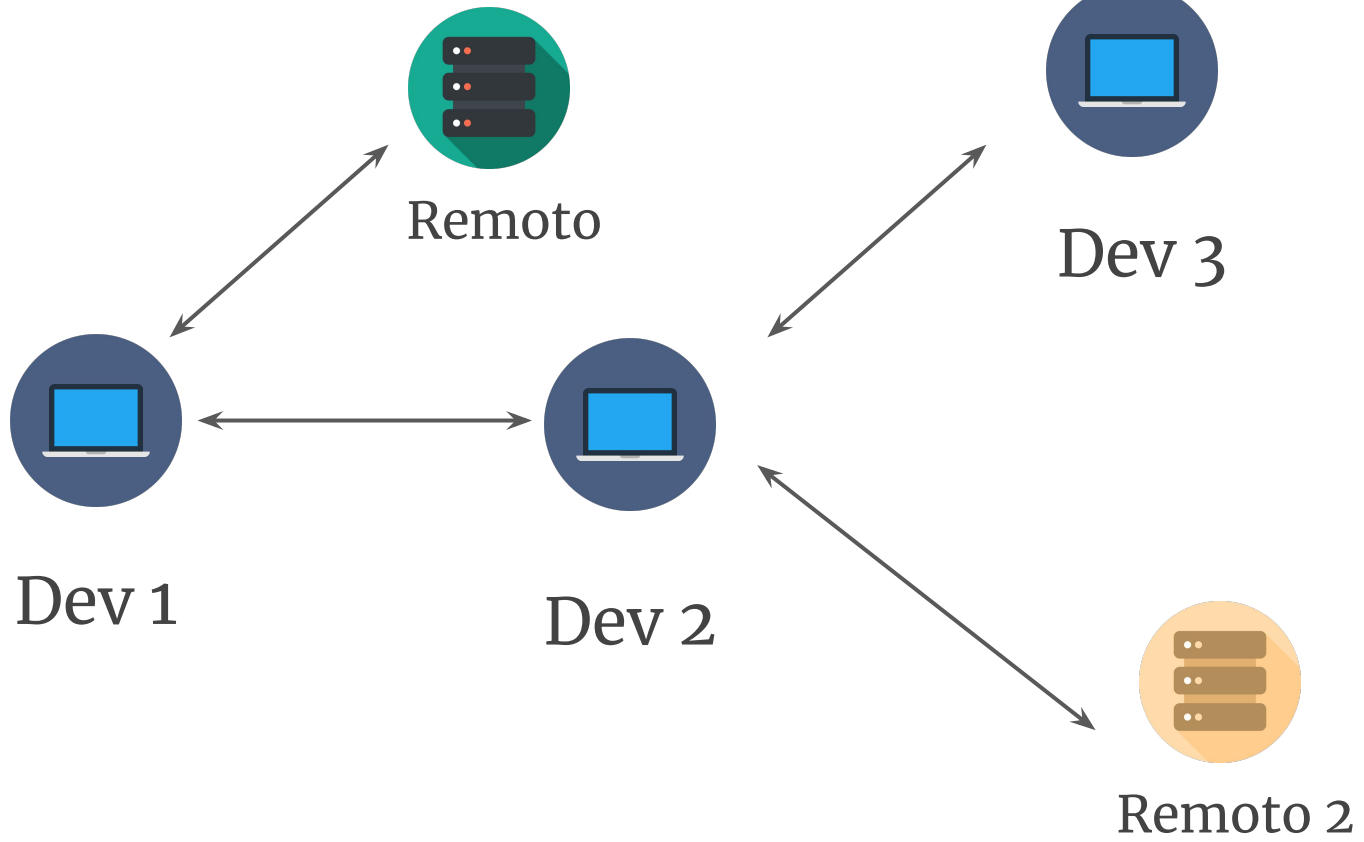


Dev 1

Dev 2

# Distribuído

Off line  
Branches

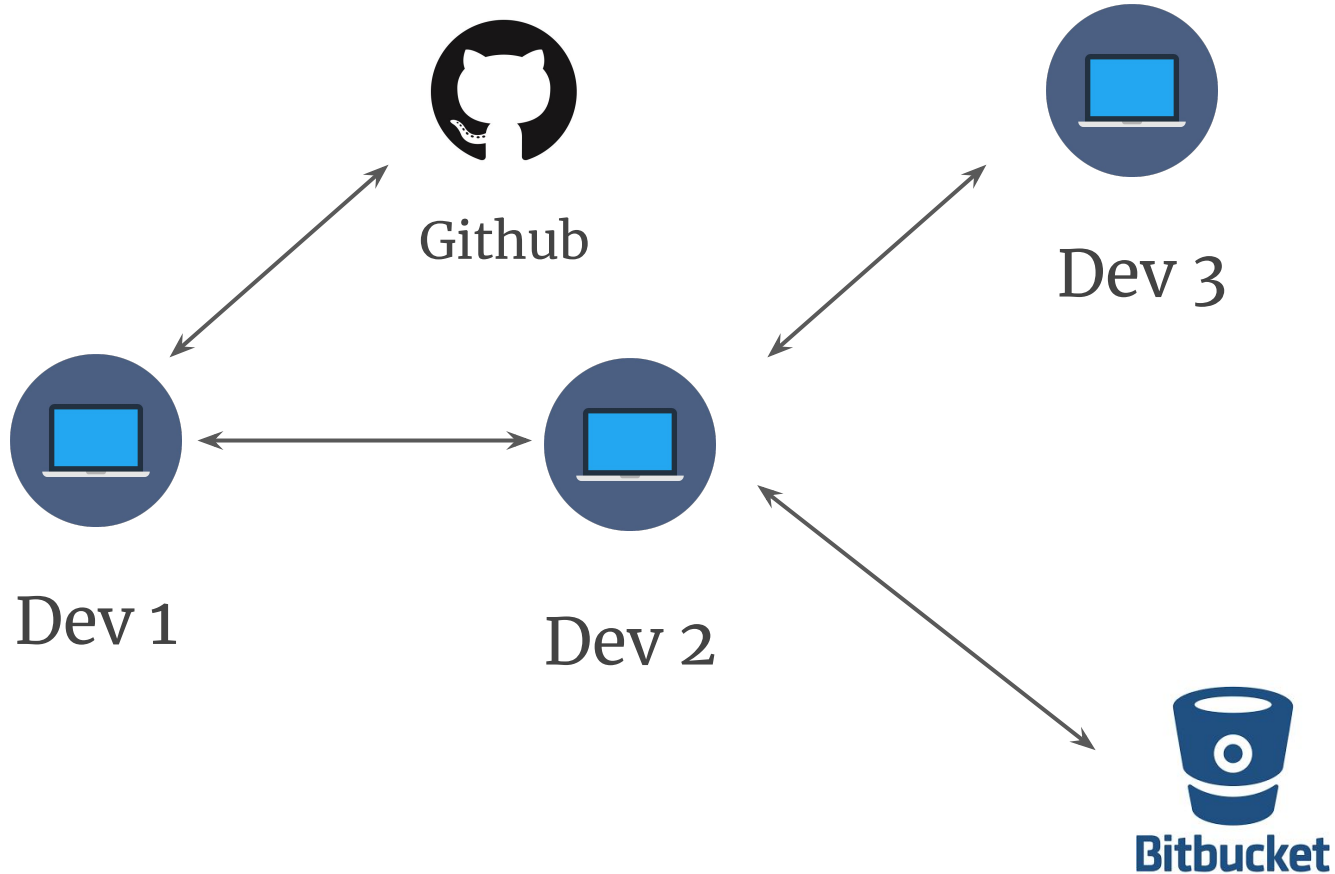


# Git VS Github



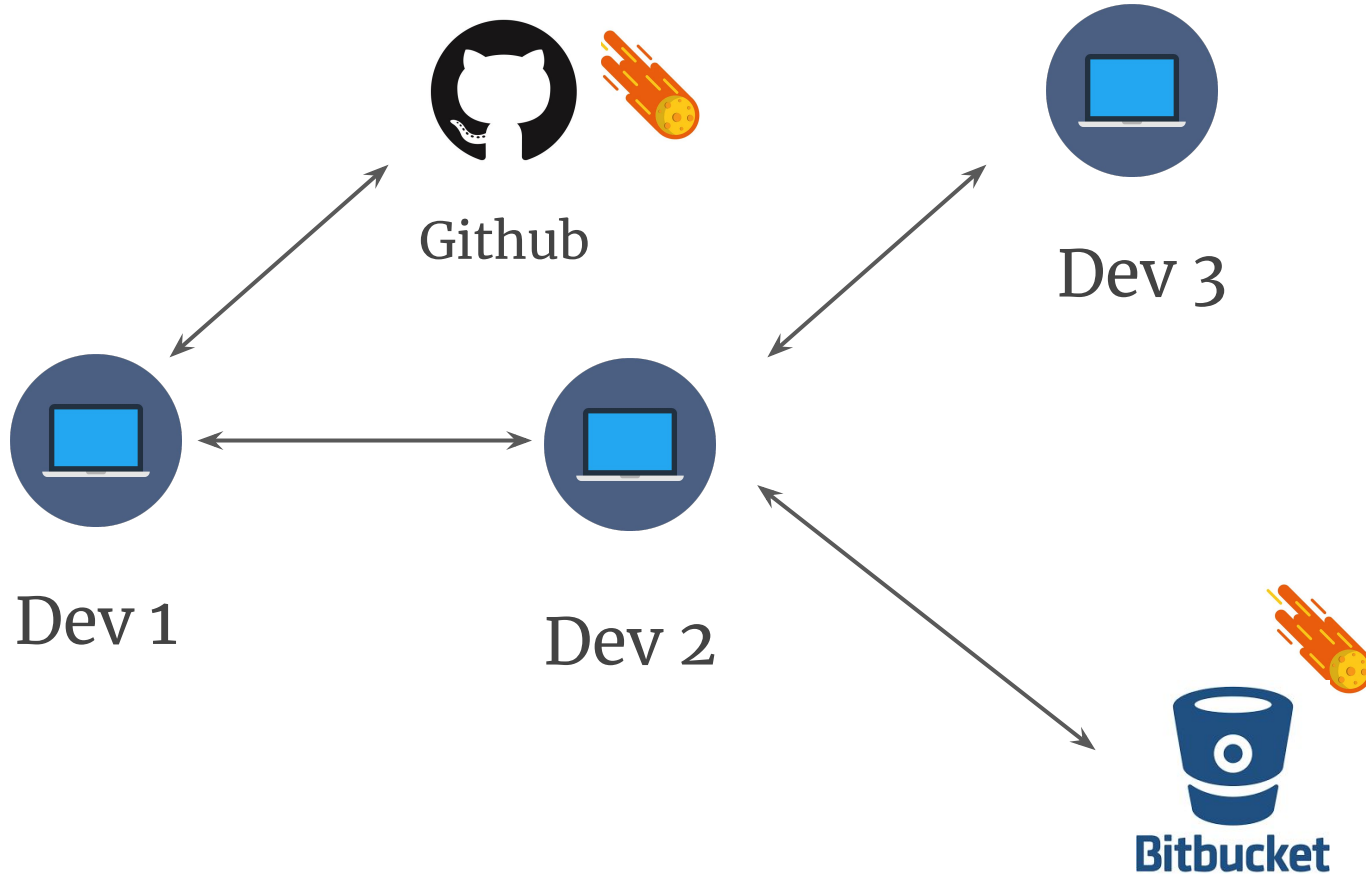
2005  
Linus Torvalds

# Distribuído





# Plataforma para ajudar desenvolvedor







# Motivação & IDE



# Repositório

# Commits

# Branch



HEAD

local  
repository

3a23dd9

2022-01-10 15:31 por Maria

`index.html`  
`css/estilo.css`

Adicionou dois arquivos novos



HEAD

local  
repository

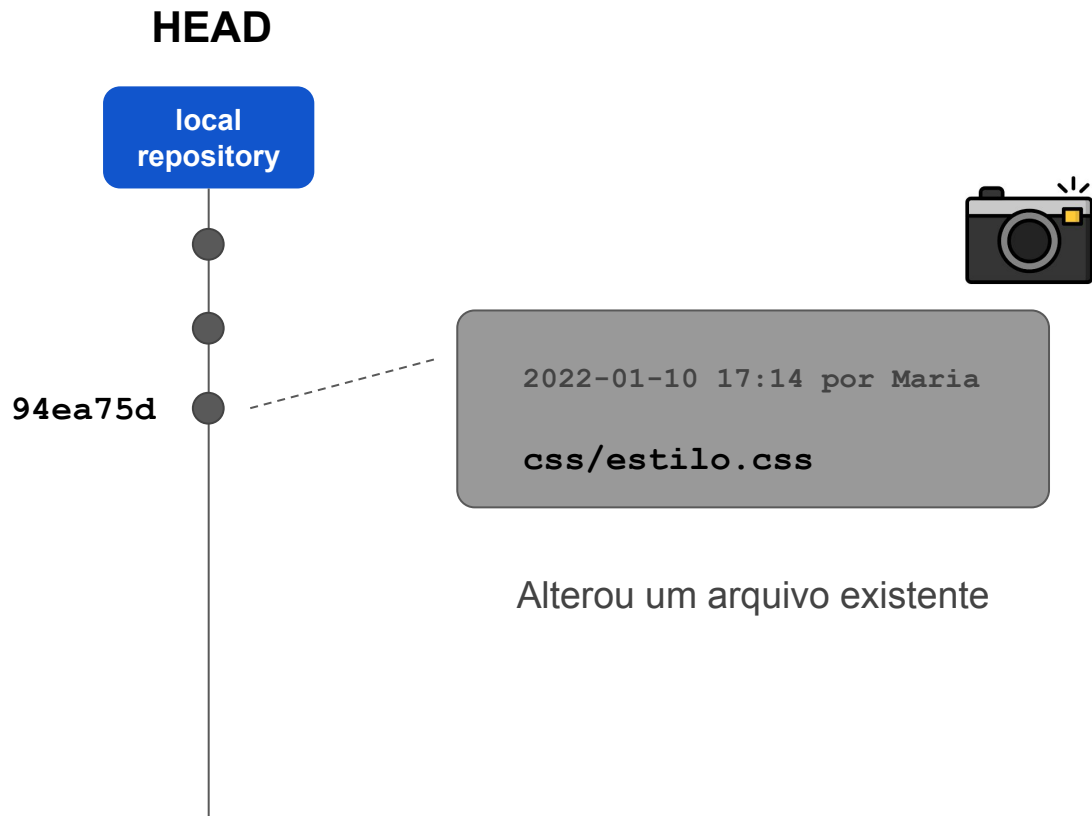
f18feae



2022-01-10 16:40 por Maria

img/foto1.png

Adicionou uma nova foto





**HEAD**

local  
repository

2022-01-10 15:31



3a23dd9



2022-01-10 16:40



f18feae



2022-01-10 17:14



94ea75d



**master**








Repositório  
.git

HEAD

local  
repository

2022-01-10 15:31	●	3a23dd9	
2022-01-10 16:40	●	f18feae	
2022-01-10 17:14	●	94ea75d	

versões  
(COMMITs)

Frentes  
de  
trabalho  
(BRANCH)

master



HEAD

local  
repository

3a23dd9

f18feae

94ea75d

jf4a7a1

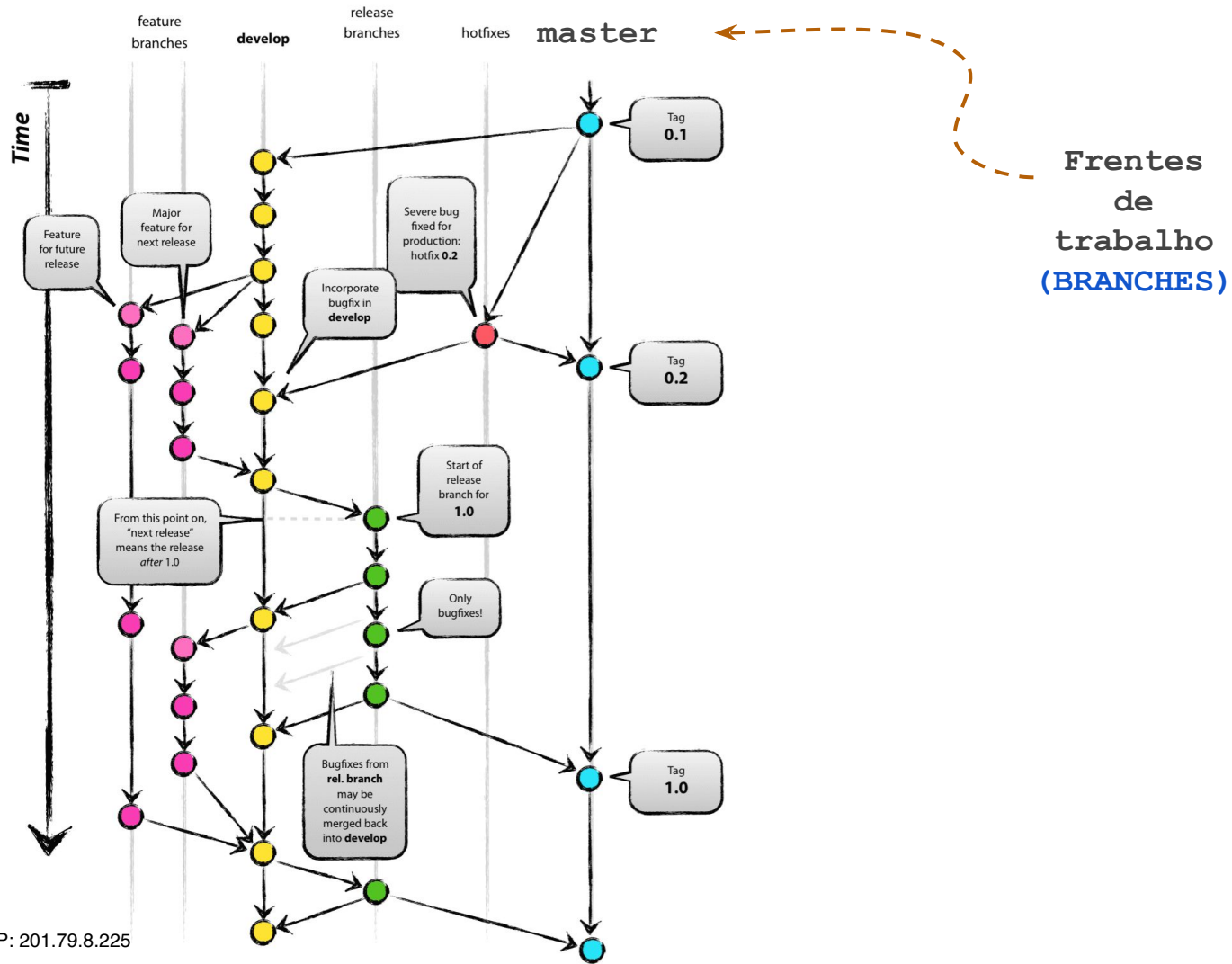
a79ae54

e5z79a4

BRANCHES

bugfix-1

master





# 3 áreas de trabalho (stages)

WD | Index | HEAD

1

2

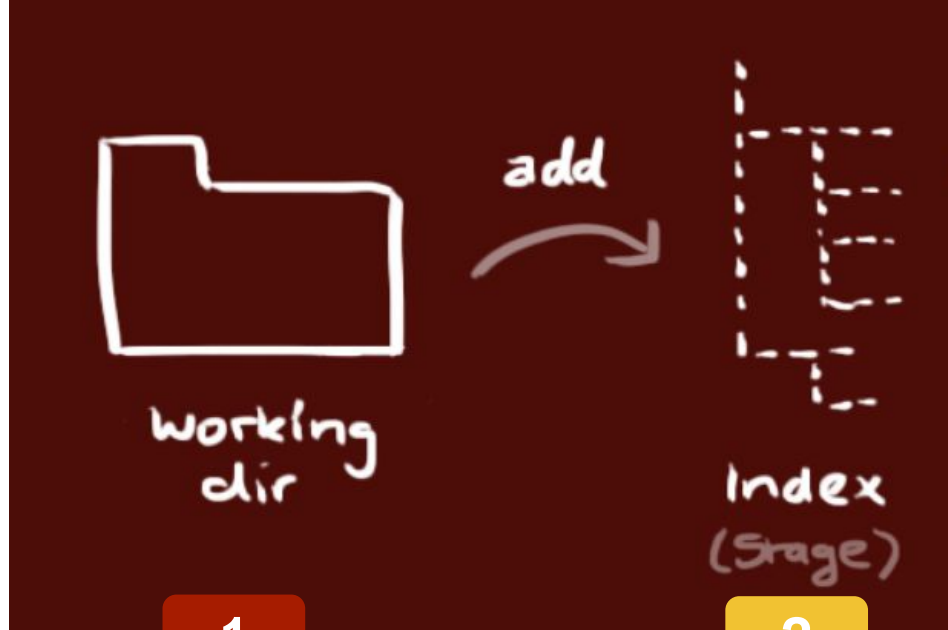
3



1

Estado atual dos  
arquivos  
no sistema de arquivos.

tracked / untracked



1

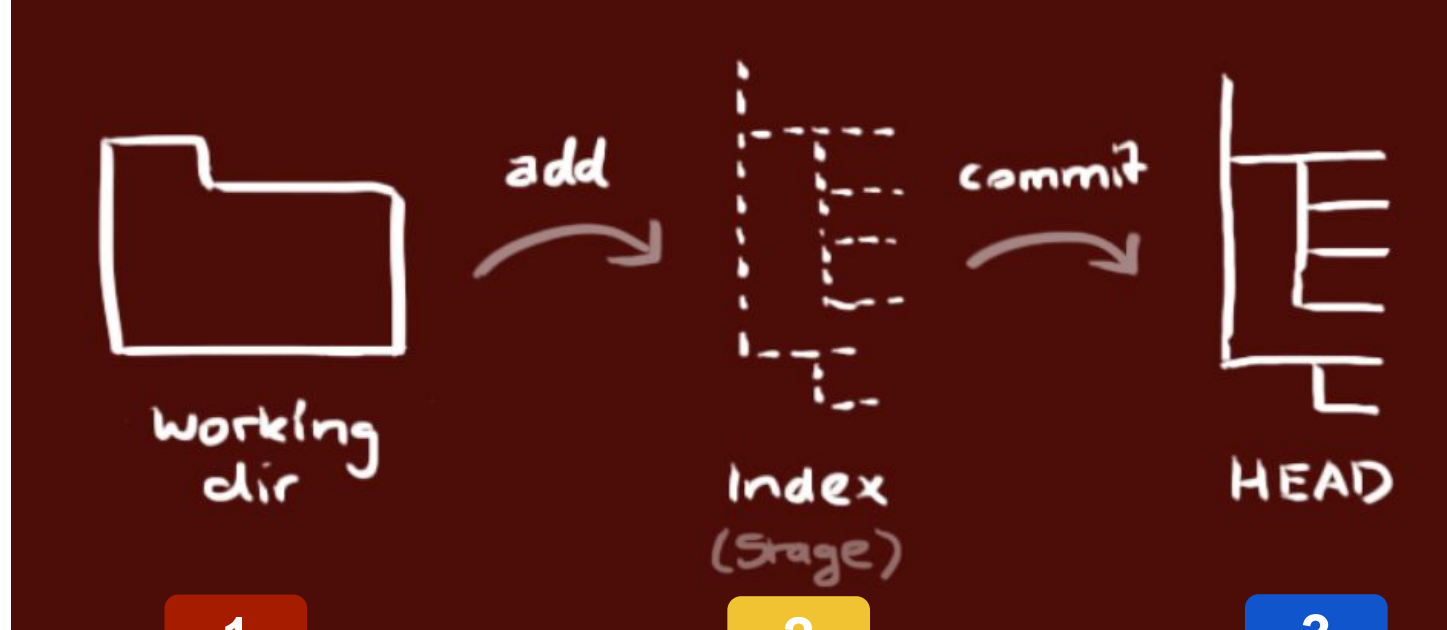
Estado atual dos  
arquivos  
no sistema de arquivos.

tracked / untracked

2

Área para preparação  
com os arquivos  
novos/modificados para  
gerar uma nova versão  
(commit)

save points



1

Estado atual dos arquivos no sistema de arquivos.

tracked / untracked

2

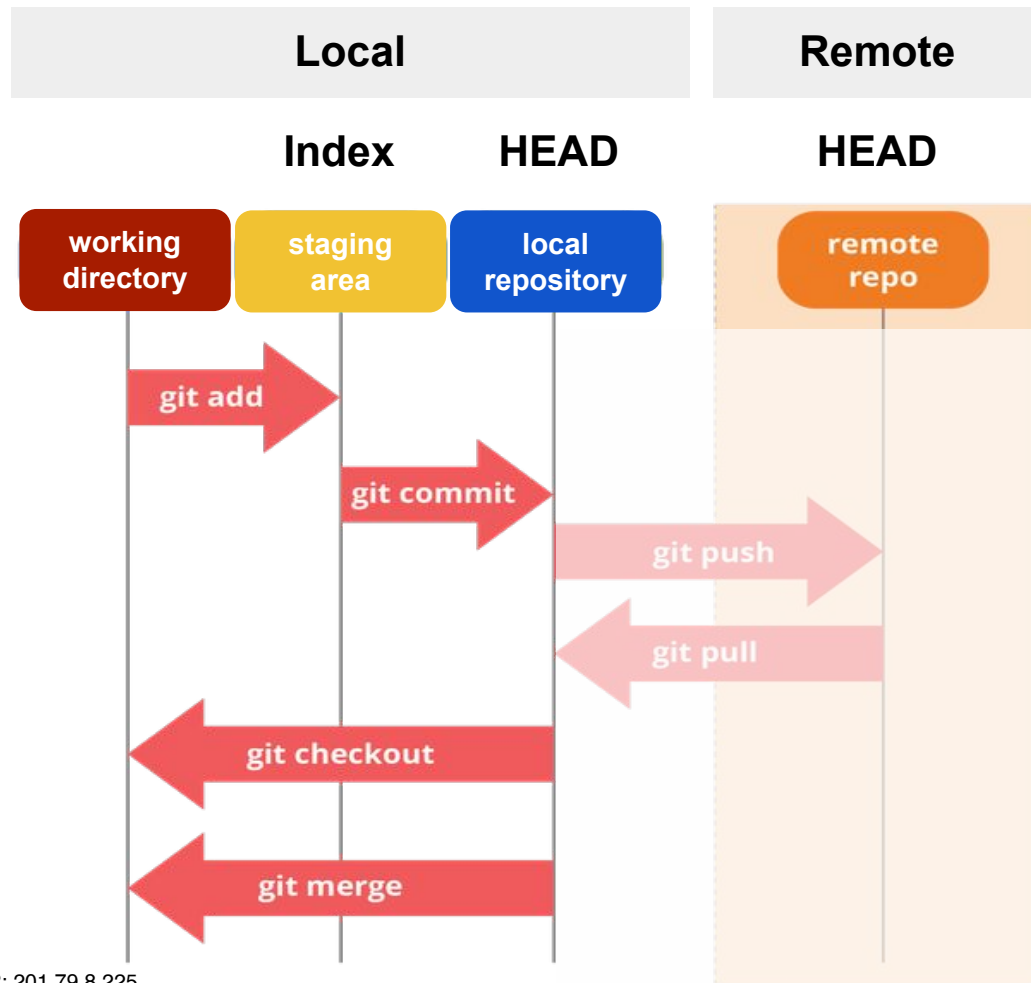
Área para preparação com os arquivos novos/modificados para gerar uma nova versão (commit)

save points

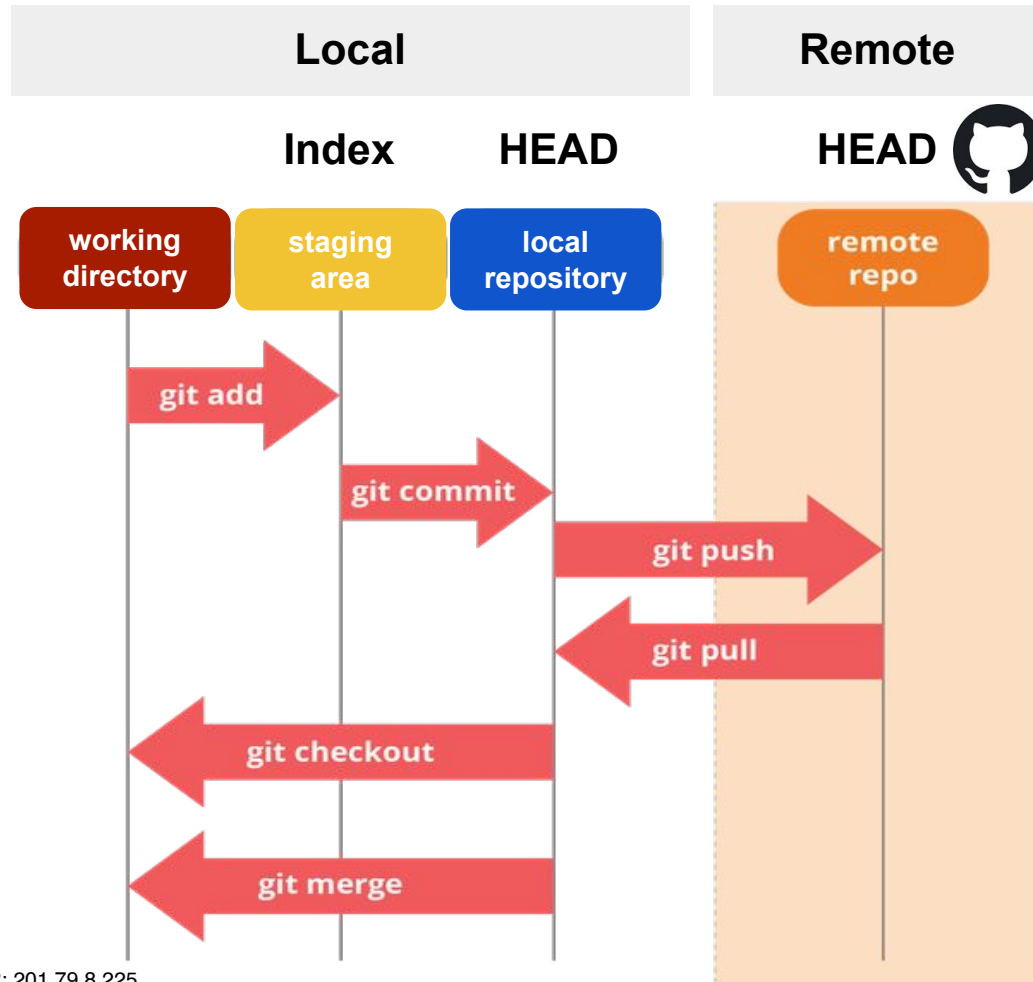
3

Ponteiro de qual a versão/branch atual (todas versões disponíveis)

history

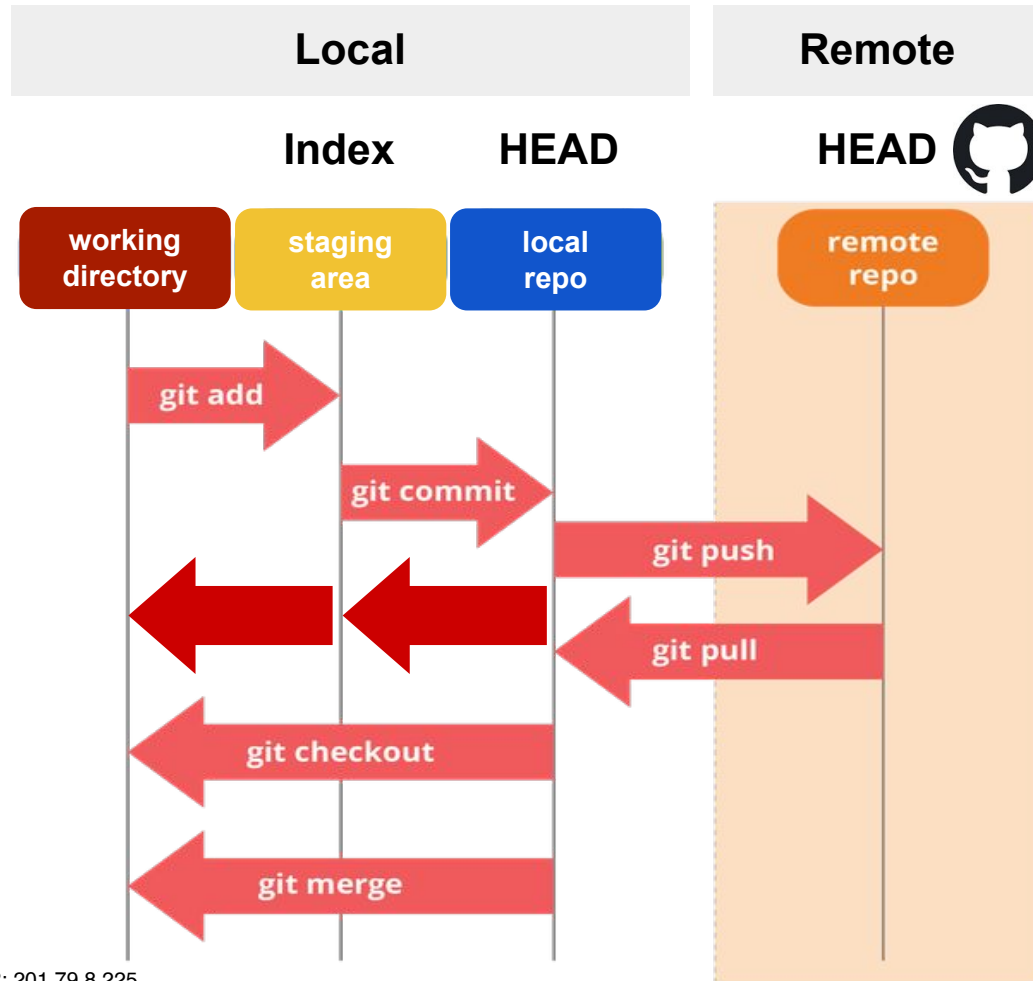






Github  
Bitbucket  
Gitlab





Github  
Bitbucket  
Gitlab





# Comandos Git

1

2

3



1

Working Dir

2

Staged

3

HEAD

?



1

Working Dir

2

Staged

3

HEAD

Local

4

HEAD

Remoto





1

Working Dir

```
git init
git add
git status
git clean
git stash
```

2

Staged

```
git commit
git reset
git checkout
```

3

HEAD

```
git show
git log
git push
git pull
git remote
git branch
```



Remoto

4

HEAD

```
git clone
```



# Caso de Uso 1



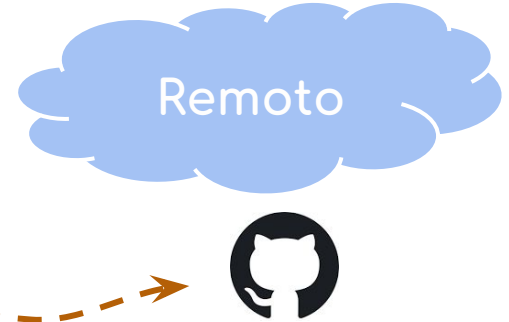
Local

1

```
git init  
git add + commit  
...
```

2

```
git remote add  
git push
```







# Caso de Uso 2



Local

Remoto

1

```
git clone  
git pull
```

```
git add + commit  
...
```

2

```
git push
```



[https://rogerdudler.github.io/git-guide/index.pt\\_BR.html](https://rogerdudler.github.io/git-guide/index.pt_BR.html)

<https://itnext.io/git-concepts-for-newcomers-part-2-git-repository-working-tree-and-staging-area-a2e720bf3528>

<https://www.youtube.com/watch?v=4XpnKHJAok8>