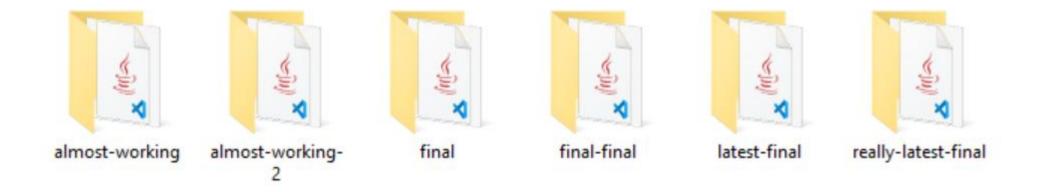


Petar Ivanov, SAP September, 2019

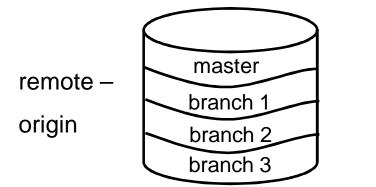
PUBLIC

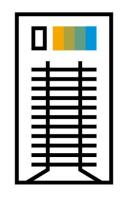


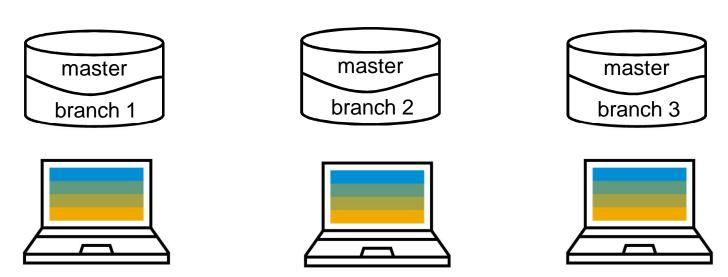
## Where to store our code?



# **Git** Decentralized







## Configurations

- § System (all users)
- § Global (current user)
- § Local (per repository)

git config --list (--system | --global | --local)

git config --global user.name "John Doe"

git config --global user.email "john.doe@example.com"

#### Credentials

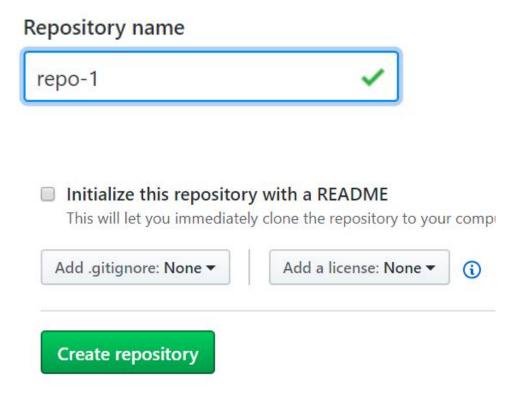
Using HTTPS – git will ask you for your credentials from time to time

- § Cache mode storing credentials into memory for a certain period of time
- § Store mode storing credentials as plain text on disk
- § Git Credential Manager for Windows (installed separately, uses Windows Credential Store)
- § osxkeykeychain mode (also secure)

### Using SSH

- § With or without passphrase
- § Requires additional setup

#### Creating uninitialized repo in GitHub



git remote -vv

### Performing git init locally

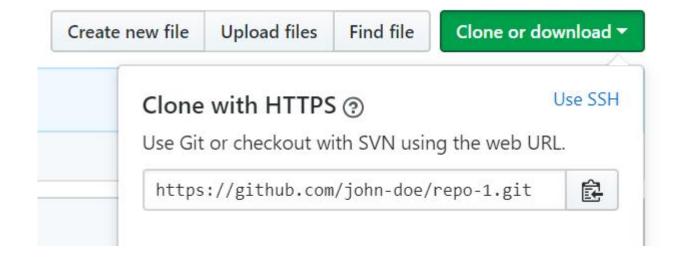
## ...or create a new repository on the

```
echo "# repo-1" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/
git push -u origin master
```

## ...or push an existing repository from

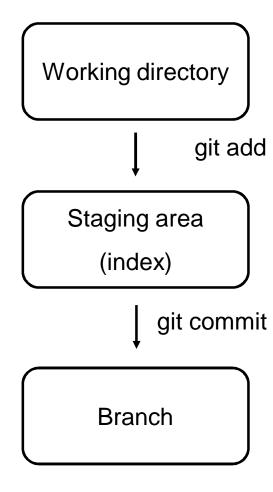
```
git remote add origin https://github.com/
git push -u origin master
```

## Cloning existing repository



No git init necessary,
Just git clone

# **Git** File states



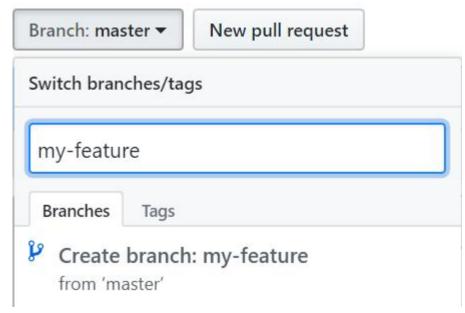
## Making changes

- § git branch
- § git branch -vv
- § git log
- § git log --online
- § git status
- § git commit –m ""
- § git commit --amend
  - Creating new files (untracked files)
  - Modifying existing files git diff
  - Renaming files
  - Deleting files

- Adding to staging area (git add)
- Removing from staging area (git reset HEAD)
- Discarding changes in a file (git checkout --)
- § git revert

### Branching (multiple users)

## Creating branch in GitHub:



- § git branch
- § git pull (git fetch)
- § git checkout
- § git push

Creating branch locally:

- § git checkout -b <br/>branch-name>
- § git push -u origin <br/>branch-name>

Pull requests

git merge

Conflicts

.gitignore