



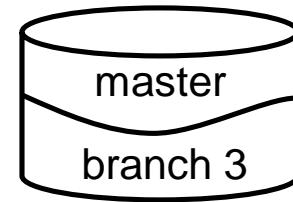
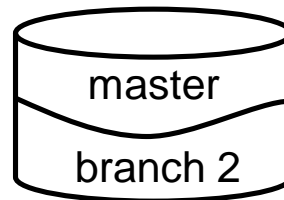
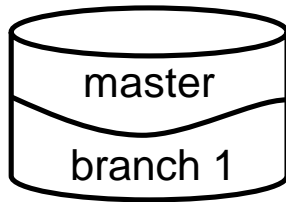
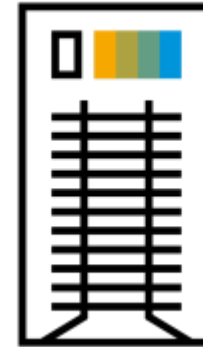
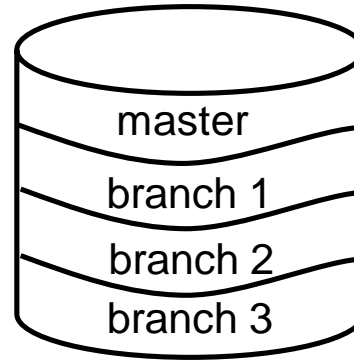
Git

Petar Ivanov
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PUBLIC

Decentralized

remote –
origin



Configurations

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

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

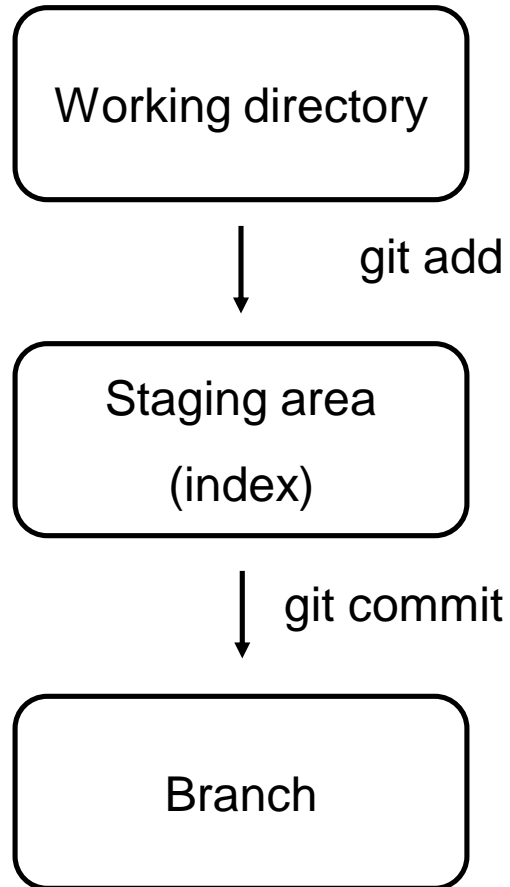
```
git config --global user.name "John Doe"
```

```
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 (uses Windows Credential Store), installed separately
 - osxkeychain mode (also secure)
- Using SSH
 - With or without passphrase
 - Requires additional setup

File states



Creating empty repo in GitHub

Repository name

repo-1



- ☐ Initialize this repository with a README
This will let you immediately clone the repository to your c

Add .gitignore: None ▼

Add a license: None ▼

Create repository

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
```

git remote -vv

...or push an existing repository from

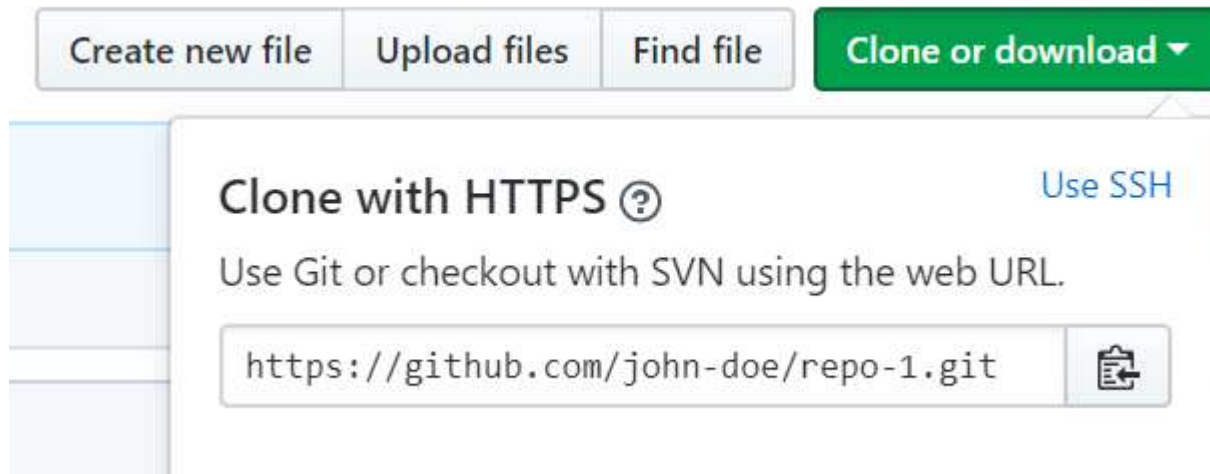
```
git remote add origin https://github.com/
git push -u origin master
```

Making changes

- `git branch -vv`
- `git status`
- `git log (--oneline)`
- `git commit -m ""`
- `git commit --amend`
- `git revert`
- Creating new files (untracked files)
- Modifying existing files
- Renaming files
- Deleting existing files
- Adding to staging area (`git add`)
- Removing from staging area (`git reset HEAD`)
- Discarding changes on a file (`git checkout --`)

Cloning existing repo from GitHub

No git init necessary,
Just git clone



Branching

- `git branch (-vv)`
- `git pull`
- `git checkout`
- `git checkout -b`
- `git branch -d`

Multiple users

- Pull requests
- git merge
- conflicts

.gitignore