

# Git Introduction











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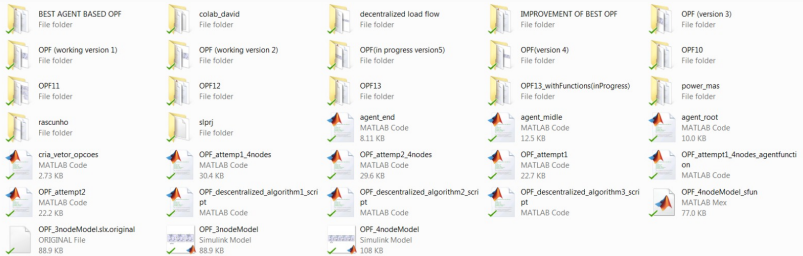
05/12/2017

**Imperial College**  
**London**

Why

Name	
	Press release for approval.doc
	Press release final.doc
	Press release FINAL VERSION.doc
	Press release FINAL FINAL VERSION.doc
	IMPROVED FINAL PRESS RELEASE.doc
	REVISED APPROVED FINAL PRESS RELEASE.doc
	REVISED APPROVED FINAL PRESS RELEASE v. 2.doc
	!! NEW REVISED APPROVED FINAL PRESS RELEASE v. 2.doc
	!!! REVISED NEW REVISED APPROVED FINAL PRESS RELEASE v. 2.doc
	!!!! Press release as sent.doc

# Organisation (closer example)

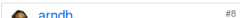
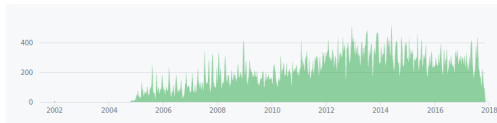


# Team work

Sep 16, 2001 – Feb 21, 2018

Contributions: **Commits** ▾

Contributions to master, excluding merge commits



# Tools

# Git is not Github!

- **Git** = tool
- Github = **a** cloud service
- Alternatives:
  - Gitlab (better, less popular)
  - Bitbucket

- Command line (default)
- Git Gui (default)
- Editor integration (matlab, atom, visual studio code)
- Gui clients:
  - Github desktop
  - Gitg
  - TortoiseGit



## Git basics

## Local Computer

Checkout

File

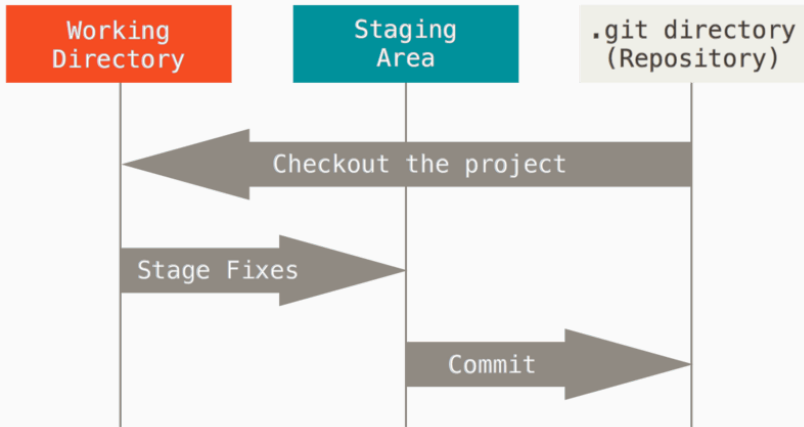
Version Database

Version 3

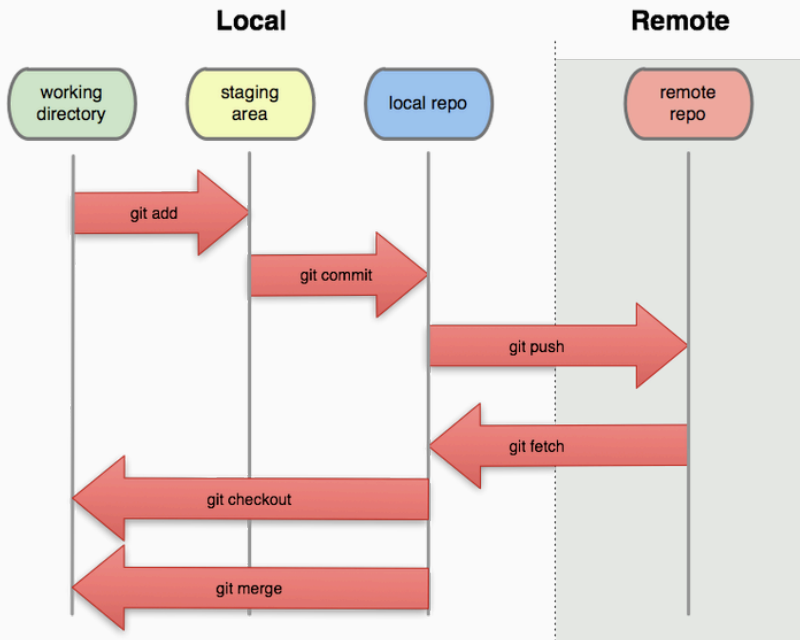
Version 2

Version 1

## Working Tree, Staging Area and Git Directory



# Basic commands



```
git status
```

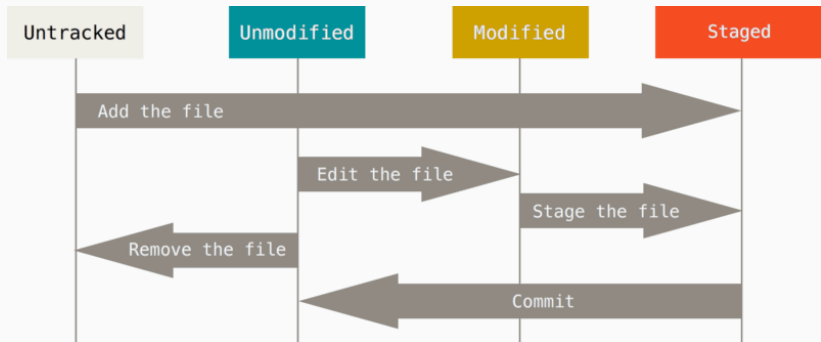
```
git add
```

```
git diff
```

```
git commit
```

```
git log
```

# File Status



```
git clone
```

```
git pull
```

```
git push
```

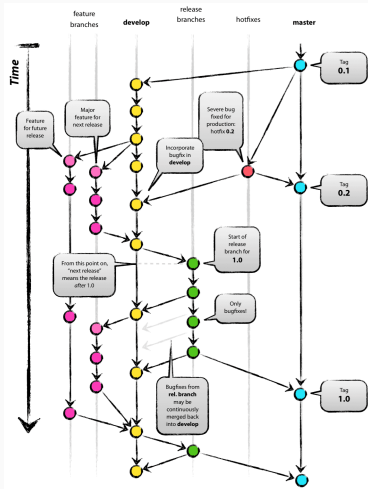
```
git remote add origin https://github.com/try-git/try_git.git  
git push origin master  
git pull origin master
```



- merging
- branching
- forks/pull requests

# Workflows

# Branching workflows - Long-running branches



# Branching workflows - Topic Branches

