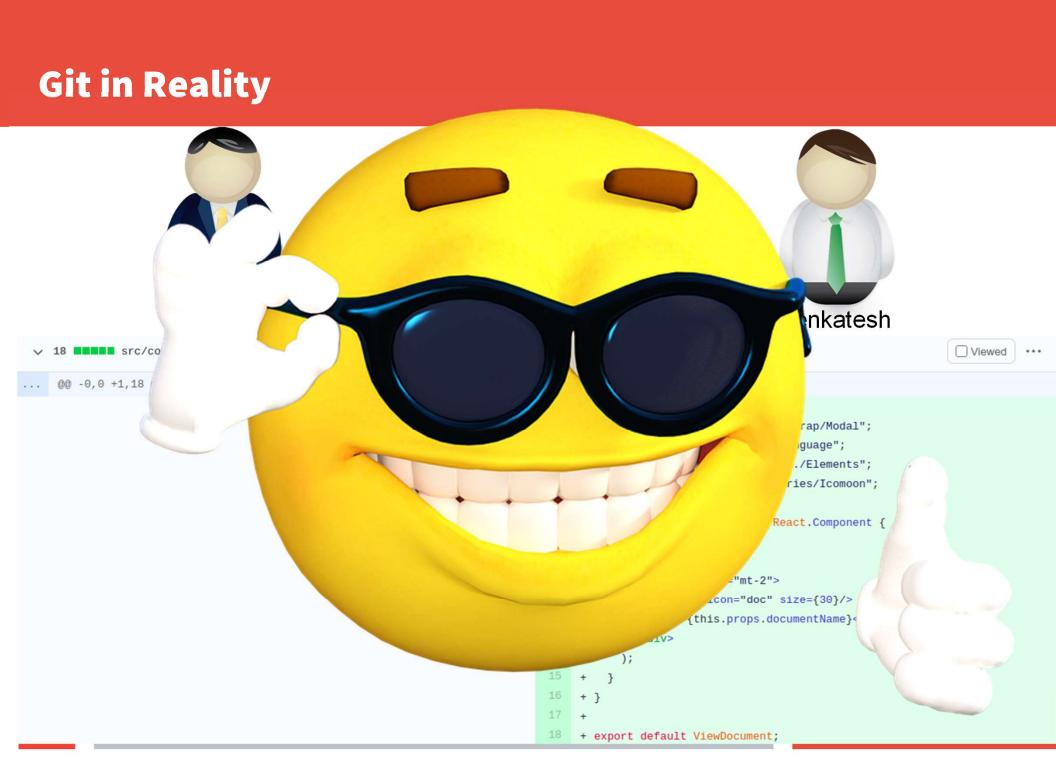




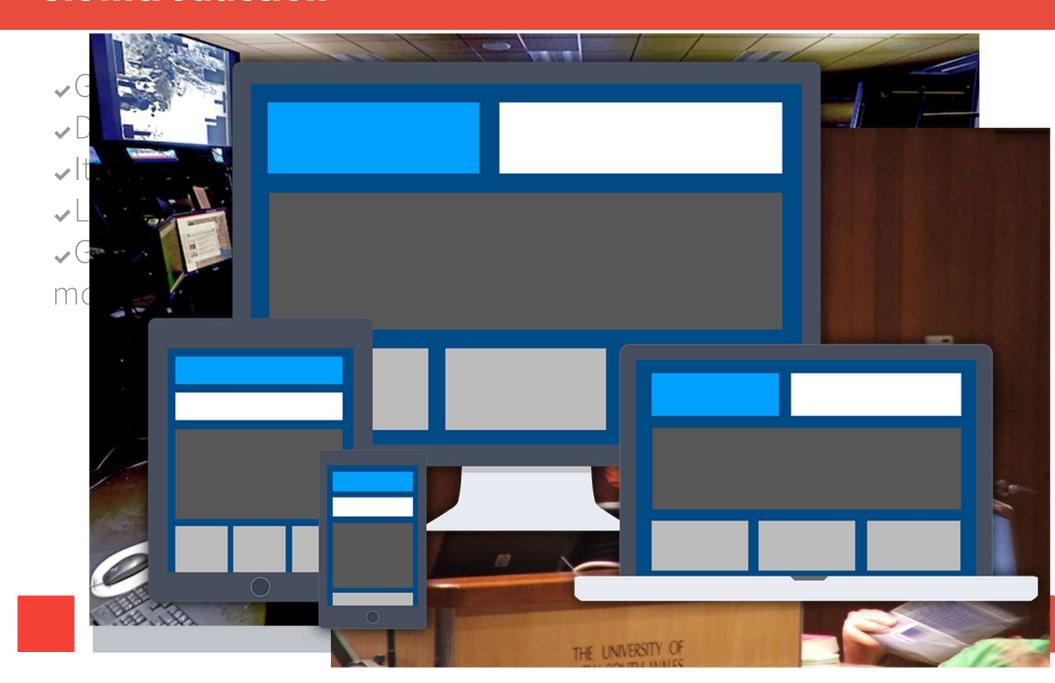
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- Github Pages (Free Hosting in 1 minute)
- Bonus trick
- Summary

If there is no Git?

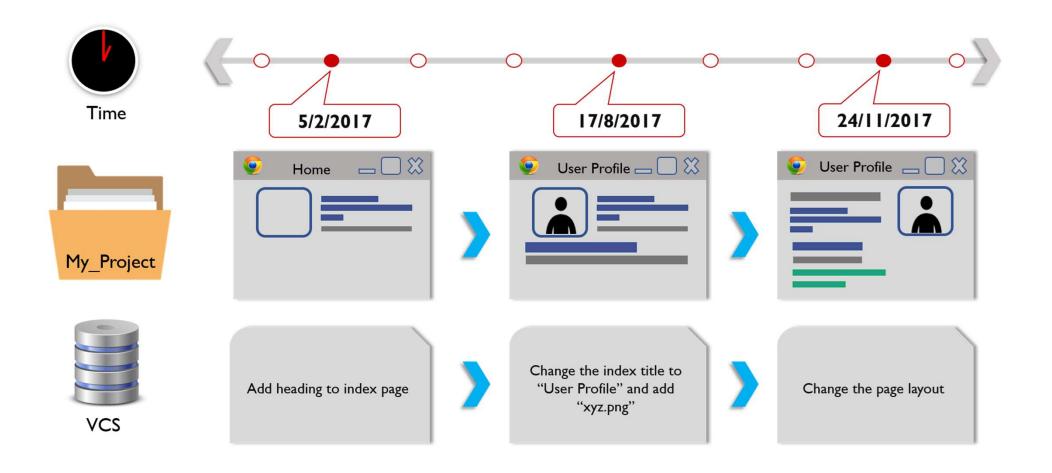




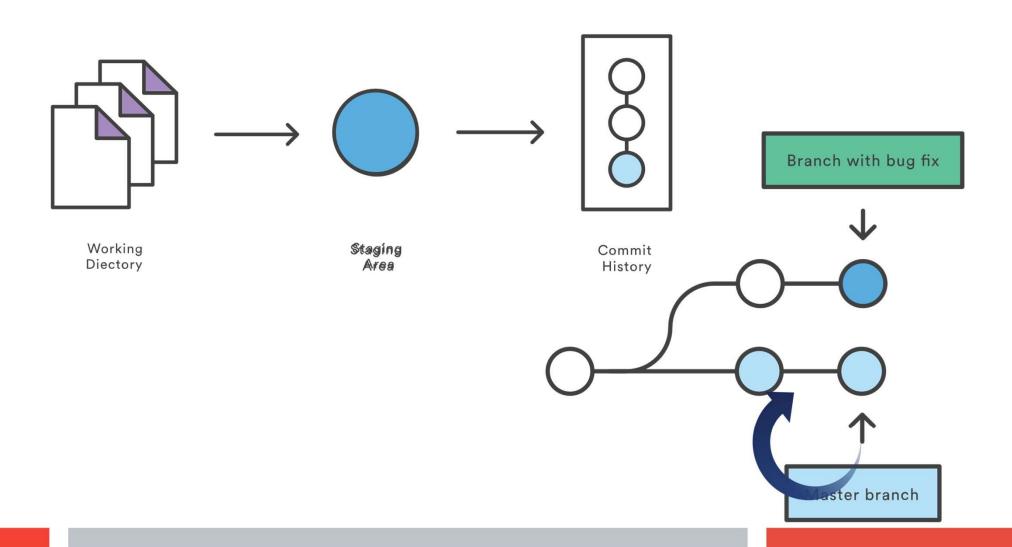
Git Introduction



Version Control System



Example



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Installation

https://git-scm.com/downloads

sudo apt-get install git

git –version (git -v)

Signup into github.com

Signin

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Practical Hands on Basic Commands

- ✓ Create Repository.
- ✓ Two different repositories.
- ✔Public, Private.
- Contributers.
- ✓ Transfer ownership.
- Archived and readonly
- ✓ Delete project.
- ✓ Github pages.

Practical Hands on Basic Commands

- Create new repository
- ✓ Clone
- ✓ Make some changes
- Check the status
- ✓Add the changes (one by one or all at once)
- Commit the changes
- → Push the changes
- ✓ Git init
- Add the remote
- Make some changes

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Detailed Commands

- → What are branches in git?
- Create branch
- Checkout the branch.
- ✓ Shortcuts in vscode for the same.
- Check branches
- Check current branch indication. (git checkout -b bname)
- ✓ Make some changes
- ✓Add ,commit and push to the current branch.
- ✓ Git push origin branch_name.
- Create pull request and merge the code in master branch.

Detailed Commands

- ✓ Pull the latest code using git pull origin master.
- ✔Pull the code if change are not committed?
- ✓ We might get conflicts or it might abort.
- ✓ Git pull get the latest files from remote and merges it.
- ✓ Git fetch will get the latest files but it won't merge.
- ✓ Git merge branch_name.
- ✓Simply, git pull = git fetch+merge.
- ✓ Delete branch git branch -d branch_name.
- Fork take a copy of the original one and we can make changes It won't effect the original repository until we pull the request.

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Alternatives to Git

- ✓SVN (Subversion)
- → BitBucket
- **√**Gitlab
- ✔ Perforce
- ✓ Mercurial
- **✓** Git Flow
- → BitKeeper
- **y** Bazaar
- **~**CVS

Clone a project and push changes

```
$ bk clone bk://bkbits.net/bkdemo/bk_demo
$ cd bkdemo
# edit files using your favorite editor
$ bk -Ux new
$ bk commit -y"Comments"
$ bk push
```

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Bonus trick

- ✓ Save username and password
- ✓ Git config credential.helper store (Enter once, leave from next time
 automatically push or pull the code)
- → Better to avoid this.
- → Better to use cache instead with timeout.
- ✓ git config credential.helper cache
- ✓ Default time is 5 mnts.
- ✓ git config credential.helper 'cache timeout=300'
- \sim 300/60=5 mnts is seconds.
- ✓ If you want to remove the cached credentials in middle before
- timeout then you can use it.

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Summary

- →Git is a version control system also known as scm(source code management).
- ✓ Widely used tool in many companies.
- ✓ Easy to install and Easy to use.
- ✓ Many popular projects hosted till now such as React, Flutter, Vue etc.,
- ✓ Clone, push, pull, merge, branch, checkout
- ✔Fork, fetch, conflicts resolve and Global configurations to store credentials.
- ✓ Github pages to host website in less time.
- →Please comment which feature vou like the most in git and which