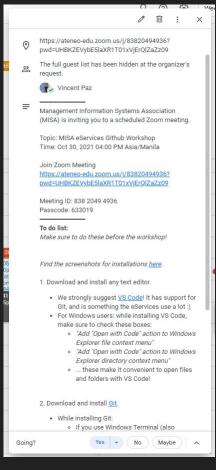
eServices@workshop MISA ~/intro (main)

\$ git and github workshop

Before we start, please make sure you've installed all needed programs!

Instructions are listed in the Google Calendar event details, and have also been emailed to you!





MISA eServices

eServices@workshop MISA ~/intro (main)

\$ git and github workshop



```
eServices@workshop MISA ~/intro (main)
```

\$ before we start ...

- Do not be afraid to ask any questions :)
- We may or may not be able to answer all questions
 - o But we'll try our best to answer everything!
 - or messenger fb.com/paz10s or messenger fb.com/paz10s
- No need to take notes!
 - We'll provide resources, even a cheat sheet!
 - https://tinyurl.com/GitHubWorkshopCheatSheet2021
 - All you need to do is listen and follow along:)

```
eServices@workshop MISA ~/intro (main)
```

\$ why Git and Github?

- Why learn this?
 - Version control checkpoints / save points
 - Collaboration with other programmers



eServices@workshop MISA ~/intro/git (main)

\$ what's Git?

- Free and open source software
- Tracks changes in any set of files and allows the user to choose between specific versions if need be



eServices@workshop MISA ~/intro/github (main)

\$ what's Github?

- A repository service for Git
- Used for collaboration through actions such as pull requests
- People are also able to share their projects with others through Github



eServices@workshop MISA ~/terminal-commands (main)

\$ terminal commands

Command	Explanation
ls	lists items in current directory
cd <path></path>	go to path
cd	go back one directory
touch <filename></filename>	create file, only works in git bash

```
eServices@workshop MISA ~/git-tut (main)
$ git tutorial
```



eServices@workshop MISA ~/git-tut/commands (main)

\$ basic commands

Command	Explanation
git init	create a local git repo
git add <filename></filename>	add files to staging area
git add .	add all files in current directory
git add *.html	add all files with .html extension
git reset <filename></filename>	remove file from staging area
git commit -m " <message>"</message>	make commit
git commit -am " <message>"</message>	add modified files and make commit
git log	view history of commits

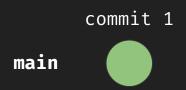
```
eServices@workshop MISA ~/git-tut/commands (main)
```

\$ basic commands

main



```
eServices@workshop MISA ~/git-tut/commands/committing (main)
```











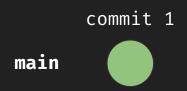


Command	Explanation
git reset	unstage files
git reset HEAD~1	go back 1 commit • HEAD refers to the current commit
git reset <commit hash=""></commit>	go back to commit corresponding to hash
git resethard <commit hash=""></commit>	unstage changes and remove all changes since that commit





```
eServices@workshop MISA ~/git-tut/commands/committing (main)
```





```
eServices@workshop MISA ~/git-tut/gitignore (main)
```

- \$.gitignore file
 - Create this through touch .gitignore
 - Type in filenames you wish for Git to ignore
 - For folders: /<foldername>



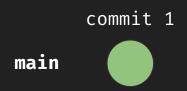
eServices@workshop MISA ~/git-tut/branches (main)

Command	Explanation
git branch	list branches
git branch <branchname></branchname>	create branch
git tag <tagname></tagname>	name current commit
git checkout <branchname></branchname>	check out to branch
git checkout -b <branchname></branchname>	create branch and check out to it
git merge <branchname></branchname>	apply all commits from to current branch

eServices@workshop MISA ~/git-tut/branches (main)

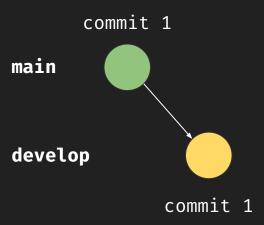
Command	Explanation
git branch	list branches
git branch <branchname></branchname>	create branch
git tag <tagname></tagname>	name current commit
git checkout <branchname></branchname>	check out to branch
git checkout -b <branchname></branchname>	create branch and check out to it
git merge <branchname></branchname>	apply all commits from to current branch

```
eServices@workshop MISA ~/git-tut/commands/committing (main)
```



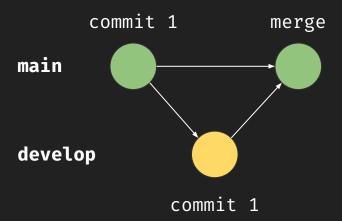


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eServices@workshop MISA ~/git-tut/branches (main)
```



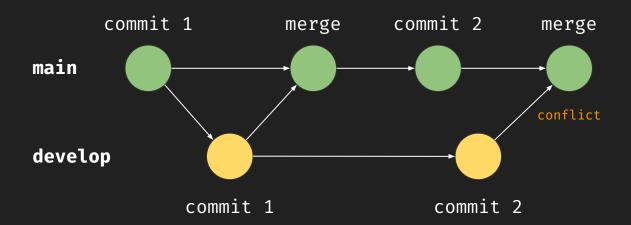


eServices@workshop MISA ~/git-tut/branches (main)





eServices@workshop MISA ~/git-tut/branches (main)





```
eServices@workshop MISA ~/github-tut (main)
$ github tutorial
```



eServices@workshop MISA ~/github-tut/linking-repos (main)

\$ linking your local repo to Github

- 1. Create a remote repo in github.com
- 2. Use the following commands:

Command	Explanation
git remote add origin <link/>	link your local repo to the remote repo
git push -u origin <branchname></branchname>	set an upstream branch to <branchname></branchname>
git push	push your local branch to the remote branch

```
eServices@workshop MISA ~/github-tut/cloning-repos (main)
```

\$ cloning a remote repository

- Create a remote repo in github.com
- 2. Use the following command:

Command	Explanation
git clone <link/>	clone remote repo to your system



```
$ github exercise (main)
```



```
eServices@workshop MISA ~/github-exercise (main)
```

\$ pushing your commits to Github

- 1. Fork and clone the repo
- Make your own branch. You can name it anything you want!
- 3. Create a <pour-name-here>.txt file:
- 4. You can write anything in it!
- 5. git add, git commit, git push
- 6. Create a pull request
- 7. Wait for me to accept your request!

