



CENTER FOR TEXTUAL STUDIES AND DIGITAL HUMANITIES

402 - Introduction to Digital Humanities Design and Programming

Spring Semester 2016

GitHub Basics & Setup

GitHub Setup & Usage

General Setup - Part 1

- [Setup Guide](#)
- [Create a new repository on GitHub](#)
- [GitHub on Mac](#)

GitHub Setup & Usage

General Setup - Part 2

- register for an account on [GitHub](#)
- install [Git](#) on your local machine
- configure git on local machine using the terminal (command line)

```
git config --global user.name "Your name here"  
(**change to your preferred name for GitHub**)  
git config --global user.email "your_email@youremail.com"  
(**add the same email used to register at GitHub**)
```

- create a repository on GitHub (use an obvious project name)
- create a local repository for your Git projects

```
mkdir ~/MyProject  
(**use the same project name as the above new GitHub repository**)  
cd ~/MyProject  
(**change to the new directory**)
```

GitHub Setup & Usage

General Setup - Part 3

- in the same directory, MyProject, create a Readme file

```
touch Readme.txt
```

(**basically creates a blank file called Readme.txt - you can also use markdown etc**)

```
git init
```

(**this tells Git to recognise this directory as a local Git repository**)

```
git status
```

(**shows status at current master branch - 'untracked' = Git currently ignoring file(s)**)

```
git add Readme.txt
```

(**added file**)

```
git commit -m "Add Readme.txt"
```

(**commit files in directory with -m associated commit comment**)

- connect local repository to GitHub repository

```
git remote add origin https://github.com/username/myproject.git
```

(**add a new place where files originate - remote indicates origin**)

```
git remote -v
```

(**shows all remote origins for your current repository**)

GitHub Setup & Usage

General Setup - Part 4

- push initial changes to remote repository

```
git push -u origin master  
(**push changes for master branch of repository**)
```

- push changes made to files in local repository to remote repo

```
git add Readme.txt  
(**propose a single file change**)  
git add *  
(**propose all files in the current directory for change**)  
git commit -m "Update Readme.txt"  
(**commit file/file for local repo**)  
git push origin master  
(**push commit files to master branch of remote repo**)
```

GitHub Setup & Usage

General Setup - Part 5

- clone a remote repository

- cd to local directory for storing remote files eg: ~/github

- ```
git clone https://github.com/ancientlives/digh402.git
```

- (\*\*downloads a complete copy of the remote repository and sets it up as a local directory ready for use with Git\*\*)

- check and update local repository to match cloned remote repository

- cd to local directory for repository eg: ~/github/digh402

- ```
git pull
```

- (**downloads changes from remote repository and merges with local directory**)

[Further information](#)