DIGH 400 - Introduction to Digital Humanities Research

Fall Semester 2014

Week 2 - GitHub Extra

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