Git recap

Initial setup of Git

- Download and install it.

- Configure with name and email:

  git config --global user.name "Your Name Here"

  git config --global user.email "your_email@example.com"

- Set up password caching:

  git config --global credential.helper cache

  git config --global credential.helper "cache —timeout=3600"

Cloning

- "Cloning" is when you download the latest copy of the repository onto your computer.

- This only needs to be done ONCE, when you initially set up the repository on your computer.

- To clone:

```
git clone https://github.com/Danyc0/stumblr.git
```

Pulling

- Before you make changes to anything in the repository, you **MUST** pull any changes

- You do this by changing to the repository directory on your local machine, and execute the command:

```
git pull
```

- This must be done **REGULARLY** – every single time you plan to make a change.

```
➜ stumblr git:(master) ✗ git pull
remote: Counting objects: 217, done.
remote: Compressing objects: 100% (116/116), done.
remote: Total 197 (delta 114), reused 158 (delta 75)
Receiving objects: 100% (197/197), 2.39 MiB | 1.54 MiB/s, done.
Resolving deltas: 100% (114/114), completed with 6 local objects.
From github.com:Danyc0/stumblr
   951f319..1147f86  master     -> origin/master
Updating 951f319..1147f86
Fast-forward
 CONFIG/Minutes/Minutes/2013-11-08_minutes             |   30 +
 DOCS/Controlled/ProjectPlan/Documentation.pdf         | Bin 0 -> 829281 bytes
 DOCS/Controlled/ProjectPlan/Documentation.tex         | 509 ++++++
 .../source/AndroidUserInterface.odt                   | Bin 0 -> 119427 bytes
 .../Diagrams/AndroidUserInterface/source/Blank.odg    | Bin 0 -> 9080 bytes
 .../source/Unfinshedroutes.odg                        | Bin 0 -> 11110 bytes
 .../AndroidUserInterface/source/homeScreen.odg        | Bin 0 -> 10859 bytes
 .../AndroidUserInterface/source/homeScreen.png        | Bin 0 -> 16208 bytes
 .../AndroidUserInterface/source/locationInfo.odg      | Bin 0 -> 11176 bytes
 .../AndroidUserInterface/source/locationInfo.png      | Bin 0 -> 16813 bytes
 .../AndroidUserInterface/source/routeContent.odg      | Bin 0 -> 11640 bytes
 .../AndroidUserInterface/source/routeContent.png      | Bin 0 -> 24882 bytes
 .../AndroidUserInterface/source/routeInfo.odg         | Bin 0 -> 11223 bytes
 .../AndroidUserInterface/source/routeInfo.png         | Bin 0 -> 18465 bytes
 .../source/unfinishedRoutes.png                       | Bin 0 -> 19225 bytes
 DOCS/Drafts/Diagrams/GanttChart/GanttChart.jpg        | Bin 102323 -> 101357 bytes
 DOCS/Drafts/Diagrams/GanttChart/GanttChart.ods        | Bin 47578 -> 37791 bytes
 .../HighLevelArchitecture-eps-converted-to.pdf        | Bin 0 -> 37063 bytes
 .../HighLevelArchitecture.eps                         | 1747 +++++++++++++++++++++
 .../HighLevelArchitecture.png                         | Bin 0 -> 107689 bytes
```

Status

- You can check which files have changed, which files will be committed and which won't.

- Just run:

```
git status
```

```
Last login: Mon Nov 11 20:47:47 on ttys000
➜  ~  cd Git/stumblr
➜  stumblr git:(master) ✗ ls
CONFIG/      DOCS/        README.md  SRC/
➜  stumblr git:(master) ✗ git status
# On branch master
# Changes not staged for commit:
#   (use "git add/rm <file>..." to update what will be committed)
#   (use "git checkout -- <file>..." to discard changes in working directory)
#
#       modified:   DOCS/Drafts/.gitignore
#       deleted:    DOCS/Drafts/web desing group project.odg
#       modified:   DOCS/Templates/LaTeX/.gitignore
#
no changes added to commit (use "git add" and/or "git commit -a")
➜  stumblr git:(master) ✗ 
```

Committing

- When you have made some changes, you need to add them to the change list.

```
git add foo.txt
```

- This tells Git that you want to group the changes you just made together into a "commit" - a group of changes.

Committing continued

- Tell Git to commit the changes:

- `git commit -m "Insert a useful commit message"`

- You **MUST** use a useful commit message, or Daniel (or Charlie) will set fire to your ears.

Pushing

- If all goes well, and you've added and committed your changes...

- **Remember to push them:**

```
git push
```

- It will prompt for your username and password for GitHub, and your changes are pushed.

Summary

Pull

Add

Commit

Push