

deliverable_01_03_2018_v21_final2_final.docx

"Hey who inserted these pages here? That threw off my entire plan!"

"Are you using the *right* numbers?"

Version Control is hard

or How to use git

Zac Conelly & Lukas Rambold

`git` : software tool (command line) (open source)

`gitHub` : Commercial Service that runs a git server owned by Microsoft
(also GitLab, self hosted)

`gitHub` : Desktop: Graphical User Interface for git the tool

Facts

- Invented by Linus Torvalds (maintained by Junio Hamano) to handle the kernel

I am an egotistical bastard, and I name all my projects after myself.
First "Linux", now "Git".

- Inherently Distributed
- Open Source

The Terminal

How to use the Terminal?

- Don't be scared! (Just different type of interaction)
- Google is your friend! (GIYF)
- Type 'Terminal' or 'Windows PowerShell'
- `ls` list
- `cd` change directory
- `mkdir` make directory

Clone existing Repo

- `git clone`
- `git log`
- `git pull`

Set up your own repo

- `git init` : Make this folder a repo (creates .git folder)
- `git status` : Where am I?

Make a Commit

- `git add .`
- `git commit -m "I added more awesomeness"`

Upload to GitHub

- (copy and paste section on GitHub)
- `git push --set-upstream origin master`

Emergency Commands

- `git reset --hard` : Delete all local changes away
- `git clean -fdx` : Delete everything that is not tracked by the repo

Branching & Merging

- `git checkout -b some_new_branch_name` : make a new branch
- GitHub forking
- `git pull`
- GitHub Pull Request (PR)

Further Reading

- "Oh shit, git" Julia Evans (<https://ohshitgit.com/>)
- Changing Laws with git (<https://arstechnica.com/tech-policy/2018/11/how-i-changed-the-law-with-a-github-pull-request/>)