# Github – Version Control

# Version Control and its importanc

- A way to track file changes over time

- A way to allow collaboration on a large project / se files

- Not exclusive to software development, but it is m commonly used in Software Development

- Allows changes to be rolled back, code reviews, sh and backing up with ease.

# Git – Linus Torvalds

- Git is the most popular implementation of a versio[...]
control system
- Developed by Linus, the same man that created L[...]
(sees git as his greatest creation)
- The git.exe is used by our dev environment to "co[...]
our files to github

# Github

- Github is one implement of a "repository" for peop
  run version control.

- Not the same as git, more a file and folder store w
  some git tools built in, other you need to have loc

- MS product… sorry

- Most popular versioning repository system

# Key terms you will use

- Main – One truth / main / most important code base
- Branch – makes a "copy" of the code allows you to try without affecting main
- Commit – uploads the current set of files to version co as the latest version
- Push – sends the files to the central repository
- Update / Pull – Pulls down the latest version of the pro files from the repo
- Conflict – When the files you have locally are conflicti when you are trying to upload to the main branch of c

# In industry

- Pull Request – You ask for your code to be checked
  then denied or committed to the main
- Merge – Used when a branch is merged into the m
- Fix – When code is added that fixes an issue, but d
  increment the version overall

- Plus many more

# Why github

- There are alternatives

- Hub is the most popular, gives you a lot of storage
  freedom

- Everyone loves the commit graph