# A crash course in version control with git

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# Overview

# Today's Topics

1. Introduction to `git`
2. Git in the command line

- First steps
- Setting up repositories
- Tracking Changes
- History
- `.gitignore`
- Using Github (and other remotes)
- Collaborating
- Conflicts

3. Git in RStudio

# Introduction to git

# Why should we be using version control?

1. To keep track of changes
   - Avoid the `mypaper_final_final_reallydonethistime.docx` problem.
2. To document reasons for each change.
3. To preserve multiple versions of documents simultaneously.
   - This can be done with "branches".
4. To collaborate with others and not create conflicting versions of the same document.

# What is `git` doing?

- Git keeps track of your changes. It monitors changes as if they were separate from the document itself.

- Git commands take the format `git verb options`

`git` in the command line

# The first time you use git. . .

You will need to tell git who you are so it knows who made the changes in your documents.

```
git config --global user.name "Mickey Mouse"
git config --global user.email "mickey1234@gmail.com"
```