

Basic Git and Github - essentials

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1 Foundations

1.1 Introduction: Why do we need Git?

- Git is a state of the art version control system that is used in the vast majority of projects.
- Git: A system that is used to track changes in your files.
- It allows you to see changes over time, undo and redo changes and make sure that all versions of file is saved so nothing is ever lost.
- Github is an online service that allows you to store your saved files and all their versions.

1.2 Git and Github

Case: Your boss asks you to remove a page from their website but regrets and asks you to put it back exactly how it was.

- Git maintains a copy of every file in your project at anytime.
- Every time you modify any file in any way and commit your changes, Git will track it. Both versions are never lost.
- Revert back to V1, instead of V2.

1.3 Create a GitHub Repository

- A github repository is a folder where we want to track file changes and file versioning.

Key Definitions

Git A system that is used to track changes in your files.

Github An online service that allows you to store your saved file and all their versions.