Git & GitHub

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What is Git?

- Git is a version control system (VCS)

- Gives much more control in managing versions of code

- Runs locally on your machine

- Accessed through a command line interface (CLI) or through IDEs (e.g. IntelliJ or VSCode)

Some Terminology

- **Repository:**
  - A directory that contains the project's files and the entire history of changes.

- **Commit:**
  - A snapshot of changes made to files at a specific point in time.

- **Branch:**
  - A parallel version of the code, allowing for independent development.

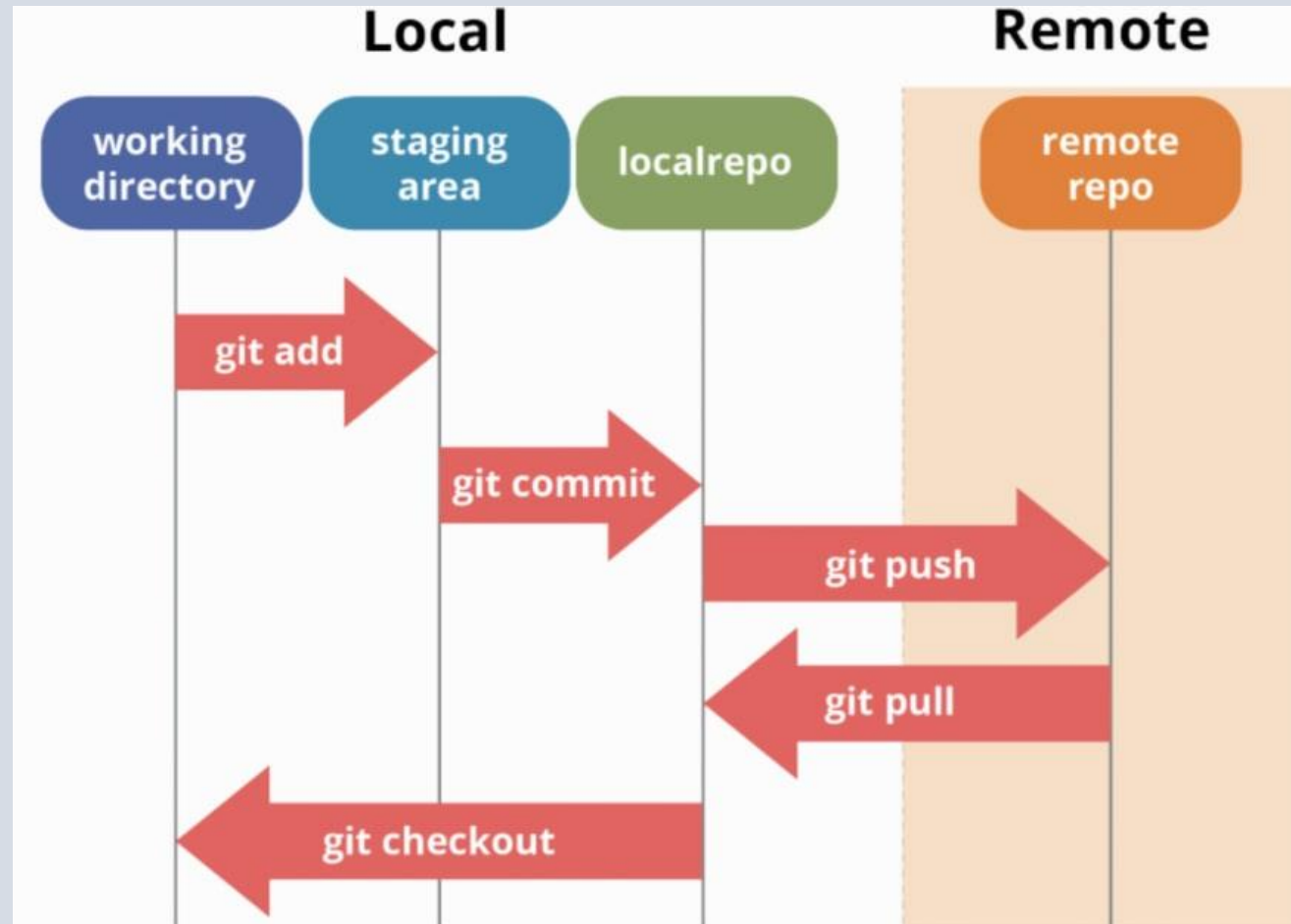- **Merge:**
  - Combining changes from different branches.

What is GitHub?

- Managing remote code repositories
- Web-based
- Good for collaboration
- Project management tools
- An external backup
- There are alternatives out there (GitLab, Bitbucket…)

How does Git (local) interact with GitHub (remote)?

Source: https://dev.to/mollynem/git-github--workflow-fundamentals-5496

What's Next...

- Complete the activity: github.com/UoB-COMSM0166/github-intro

- Overview of Software Tools should mean you're already au fait with git etc.