

Git Essential Commands

Working with Repositories

Creating a Repository

Command: `git init` | **Description:** Initialise (i.e. create) a git repository that can be committed to.

Example	Description
<code>git init</code>	Create a fresh Git repository in the current directory.

Cloning a Repository

Command: `git clone` | **Description:** Copy a remote git repository to the local filesystem, ready for development.

Example	Description
<code>git clone <repo-url></code>	Clone the git repository at <code>repo-url</code> in to the current directory

Working with Branches

Checking out a specific version of code

Command: `git checkout` | **Description:** Checkout a specific branch / version of code.

Example	Description
<code>git checkout <branch></code>	Checkout the specified branch in the current git sandbox

Listing available branches

Command: `git branch` | **Description:** List, create or delete branches

Example	Description
<code>git branch</code>	Show local branches
<code>git branch -a</code>	Show local and remote branches (<i>a=all</i>)
<code>git branch -r</code>	Show remote branches (<i>r=remote</i>)
<code>git branch --sort=-committerdate</code>	Show local branches ordered by most recent commits first

Working with Code

Adding files

Command: `git add <file/pattern>` | **Description:** Add files to the current changeset

Example	Description
<code>git add -A</code>	Add all changes (new + modified + deleted files)

`git add .` Add all changes except deleted files (new + modified files)

`git add -u` Add all changes except new files (modified + deleted files (i.e. stages already tracked files))

Committing changes

Command: `git commit` | **Description:** Commit locally staged changes

Example	Description
<code>git commit -m "<commit comment>"</code>	Commit locally staged changes

Interacting with Remote Repositories

Command: `git push` | **Description:** Push changes to remote upstream repo

Example	Description
<code>git push -u origin master</code>	Push changes in master branch to upstream origin remote branch