

Basic Git Commands (Setup to Working with Remote)

1. Setup & Configuration

```
git --version          # check Git version
git config --global user.name "Your Name"      # set your name
git config --global user.email "your@email.com" # set your email
git config --list       # see all configuration
```

2. Start a Repository

```
git init              # create a new repo in current folder
git clone <url>       # copy an existing repo from GitHub
```

3. Check Status

```
git status            # check modified/untracked files
git log               # show commit history
git log --oneline     # short commit history
```

4. Staging & Committing

```
git add <file>        # stage a specific file
git add .              # stage all changes
git commit -m "message" # commit staged changes
git commit -am "message" # add + commit tracked files in one step
```

5. Branching

```
git branch            # list all branches
git branch <name>     # create a new branch
git checkout <name>   # switch to branch
git checkout -b <name> # create + switch to branch
git merge <branch>    # merge branch into current one
git branch -d <name>  # delete branch
```

6. Working with Remote (GitHub)

```
git remote -v          # show remote URLs
git remote add origin <url> # connect local repo to GitHub
git push origin main    # push changes to GitHub (main branch)
git push -u origin main # first push, sets upstream
git pull origin main    # get latest changes from GitHub
git fetch               # download changes without merging
```