

## **Basic Git Commands (Setup to Working with Remote)**

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### **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
```