

Git Cheat Sheet

Check the version of git. (Test for a working installation)

```
git --version
```

Verify your settings

```
git config --list
```

look for the following 3 settings

```
user.name  
user.email  
init.defaultbranch
```

if the output doesn't include them then setup using:

```
git config --global user.name "Your Name"  
git config --global user.email your_email@example.com  
git config --global init.defaultBranch master
```

Get help for a git command

```
git help <command>
```

Initialize a git repository

```
git init
```

Check the current status of the repository

```
git status
```

Add file to the staging area

```
git add <file>
```

See log of commits and branches

```
git log  
git log --all --graph --decorate
```

checkout different commits or branches

```
git checkout <hash or branch_name>
```

see changes in current branch wrt staging area

```
git diff
```

see changes relative to commits

```
git diff commit_hash commit_hash
```

create new branch

```
git branch name_of branch
```

list all branches

```
git branch
```

create a new branch and checkout to it at the same time

```
git checkout -b name_of_branch
```