## Mac OS X keymap:

| | |
|---|---|
| ⌘ | Command |
| ^ | Control |
| ⌥ | Option |
| ⇧ | Shift |
| ↩ | Return |
| ␣ | Space |
| ⇥ | Tab |

## Linux/PC keymap:

| | |
|---|---|
| ^ | Control |
| ⌥ | Alt |
| ⇧ | Shift |
| ↩ | Return |
| ␣ | Space |
| ⇥ | Tab |

## Edit mode shortcuts

| | |
|---|---|
| Esc | switch to command mode |
| ⇥ | code completion or indent |
| ⇧⇥ | tooltip |
| ⌘] | indent |
| ⌘[ | dedent |
| ⌘A | select all |
| ⌘Z | undo |
| ⌘⇧Z | redo |
| ⌘Y | redo |
| ^M | command mode |
| Esc | command mode |
| ⌘⇧P | open the command palette |
| ⇧↩ | run cell, select below |
| ^↩ | run selected cells |
| ⌥↩ | run cell, insert below |
| ^⇧Minus | split cell |
| ⌘S | Save and Checkpoint |
| ↓ | move cursor down |
| ↑ | move cursor up |

## Edit mode: OSX only

| | |
|---|---|
| ⌘↑ | go to cell start |
| ⌘↓ | go to cell end |
| ⌥← | go one word left |
| ⌥→ | go one word right |
| ⌥⌫ | delete word before |
| ⌥⌦ | delete word after |

## Edit mode: Linux/PC

| | |
|---|---|
| ^Home | got to cell start |
| ^↑ | go to cell start |
| ^End | go to cell end |
| ^↓ | go to cell end |
| ^← | go one word left |
| ^→ | go one word right |
| ^⌫ | delete word before |
| ^⌦ | delete word after |

## Command mode shortcuts

| | |
|---|---|
| ↩ | enter edit mode |
| F | find and replace |
| ⌘⇧P | open the command palette |
| ⇧↩ | run cell, select below |
| ^↩ | run selected cells |
| ⌥↩ | run cell, insert below |
| Y | to code |
| M | to markdown |
| R | to raw |
| 1 | to heading 1 |
| 2 | to heading 2 |
| 3 | to heading 3 |
| 4 | to heading 4 |
| 5 | to heading 5 |
| 6 | to heading 6 |
| K | select cell above |
| ↑ | select cell above |
| ↓ | select cell below |
| J | select cell below |
| ⇧K | extend selected cells above |
| ⇧↑ | extend selected cells above |
| ⇧↓ | extend selected cells below |
| ⇧J | extend selected cells below |
| A | insert cell above |
| B | insert cell below |
| X | cut selected cells |
| C | copy selected cells |
| ⇧V | paste cells above |
| V | paste cells below |
| Z | undo cell deletion |
| D,D | delete selected cells |
| ⇧M | merge selected cells, or current cell with cell below if only one cell selected |
| ⌘S | Save and Checkpoint |
| S | Save and Checkpoint |
| L | toggle line numbers |
| O | toggle output of selected cells |
| ⇧O | toggle output scrolling of selected cells |
| H | show keyboard shortcuts |
| I,I | interrupt kernel |
| 0,0 | restart the kernel (with dialog) |
| Esc | close the pager |
| Q | close the pager |
| ⇧␣ | scroll notebook up |
| ␣ | scroll notebook down |

## Create a Repository

From scratch -- Create a new local repository

```
$ git init [project name]
```

Download from an existing repository

```
$ git clone my_url
```

## Observe your Repository

List new or modified files not yet committed

```
$ git status
```

Show the changes to files not yet staged

```
$ git diff
```

Show the changes to staged files

```
$ git diff --cached
```

Show all staged and unstaged file changes

```
$ git diff HEAD
```

Show the changes between two commit ids

```
$ git diff commit1 commit2
```

List the change dates and authors for a file

```
$ git blame [file]
```

Show the file changes for a commit id and/or file

```
$ git show [commit]:[file]
```

Show full change history

```
$ git log
```

Show change history for file/directory including diffs

```
$ git log -p [file/directory]
```

## Working with Branches

List all local branches

```
$ git branch
```

List all branches, local and remote

```
$ git branch -av
```

Switch to a branch, my_branch, and update working directory

```
$ git checkout my_branch
```

Create a new branch called new_branch

```
$ git branch new_branch
```

Delete the branch called my_branch

```
$ git branch -d my_branch
```

Merge branch_a into branch_b

```
$ git checkout branch_b
$ git merge branch_a
```

Tag the current commit

```
$ git tag my_tag
```

## Make a change

Stages the file, ready for commit

```
$ git add [file]
```

Stage all changed files, ready for commit

```
$ git add .
```

Commit all staged files to versioned history

```
$ git commit -m "commit message"
```

Commit all your tracked files to versioned history

```
$ git commit -am "commit message"
```

Unstages file, keeping the file changes

```
$ git reset [file]
```

Revert everything to the last commit

```
$ git reset --hard
```

## Synchronize

Get the latest changes from origin (no merge)

```
$ git fetch
```

Fetch the latest changes from origin and merge

```
$ git pull
```

Fetch the latest changes from origin and rebase

```
$ git pull --rebase
```

Push local changes to the origin

```
$ git push
```

## Finally!

When in doubt, use git help

```
$ git command --help
```

Or visit https://training.github.com/ for official GitHub training.