



# Set Up Your Dev Setup

{srinu, sayan}

Three Chief Virtues of a Programmer:

**Laziness**

**Impatience**

**Hubris**

Three Focus Areas for Today:

**Package Management**

**Writing and Executing Code**

**Common Frameworks**



sayan — sayan: bash — bash — 72x24

```
bash-3.2$ ls
```

```
[Applications      Google Drive      Pictures           andrew             ]
Desktop            Library           Postman           scripts            ]
Documents          Movies            Public
Downloads          Music             anaconda3
```

```
bash-3.2$ cd Documents/git/wdw
```

```
[bash-3.2$ ls
```

```
[Gemfile           chrome extension   ]
Gemfile.lock       css                ]
LICENSE            deployment         ]
README.md          design            ]
_config.yml        html+css          ]
_includes          index.md          ]
_layouts           javascript        ]
_sass              p5                ]
_site              postman           ]
angular            prototyping       ]
assets             react             ]
attendance          register          ]
backend            rest              ]
basics             tensorflow         ]
```

```
bash-3.2$ git branch
```

```
[bash-3.2$ █
```

```
~
> ls
Applications Downloads Movies Postman andrew
Desktop Google Drive Music Public scripts
Documents Library Pictures anaconda3

~
> z wdw

~/Documents/git/wdw gh-pages
> ls
Gemfile _sass chrome extension p5
Gemfile.lock _site css postman
LICENSE angular deployment prototyping
README.md assets design react
_config.yml attendance html+css register
_includes backend index.md rest
_layouts basics javascript tensorflow

~/Documents/git/wdw gh-pages
> git branch

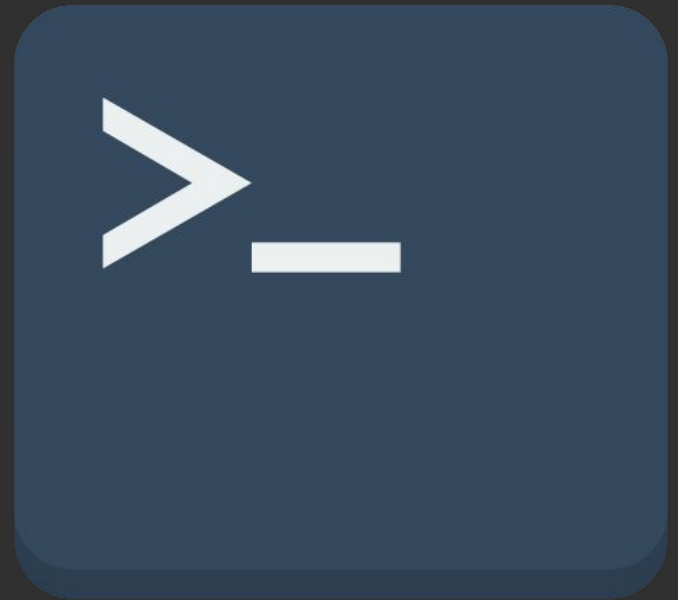
~/Documents/git/wdw gh-pages
> |
```

This is very subjective!

[scottylabs.org/wdw/setup](http://scottylabs.org/wdw/setup)

# Terminal

Gateway to your Shell





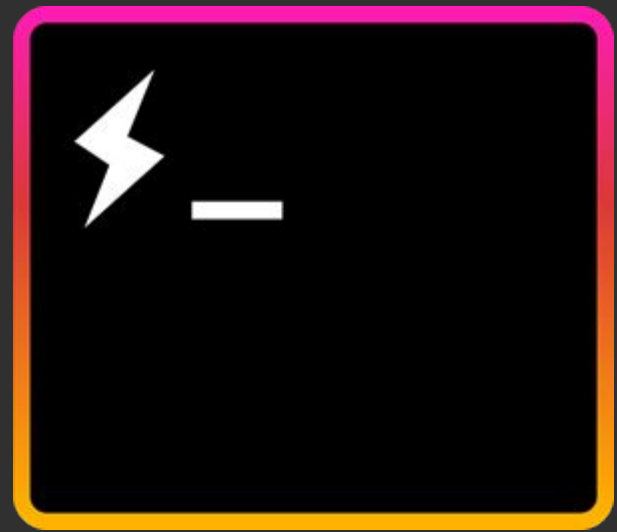
# iTerm

A Better Terminal  
Emulator



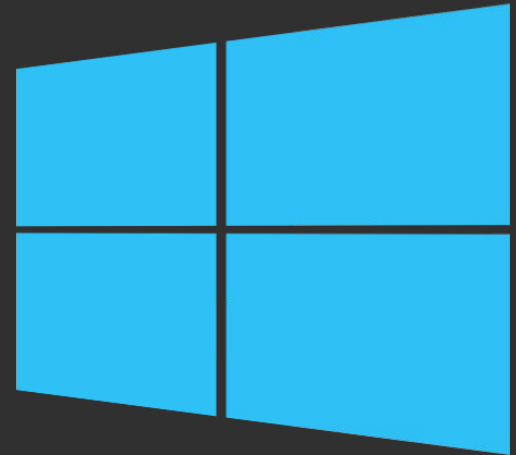
# Hyper

A More Hackable Terminal  
Emulator



# Windows Subsystem for Linux

All your favorite  
tools on your  
not-so-favorite  
platform.



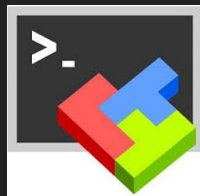
# Historically, Programming on Windows **Sucked!**



Cheap Knockoffs



Bad Ports of Beloved Tools



Unnecessary Complications

If You Can't Beat 'Em,

**Join 'Em**

Microsoft  Linux

Windows Subsystem for Linux  
provides the ability for  
developers to:

- 1) Use the best development tools  
from Linux
- 2) Maintain the ease-of-use that  
Windows provides
- 3) Seamlessly switch between  
platforms

# Homebrew

The Missing Package  
Manager for MacOS



# Cool Packages to Check Out!

archey

cmatrix

htop

nnn

git

wget

tree



# Z Shell {Zsh}

Ultimate Control to  
Your System at Your  
Convenience



# VSCode

Code Editing  
Redefined

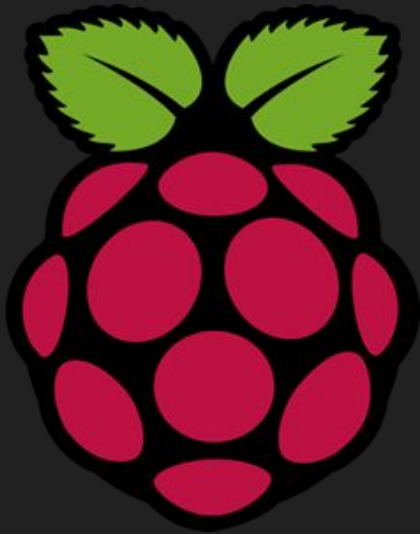


# Python

Jack of All Trades of  
Programming Languages



**Python** is used in nearly all domains of CS!



Scripting  
Embedded or Game  
Development



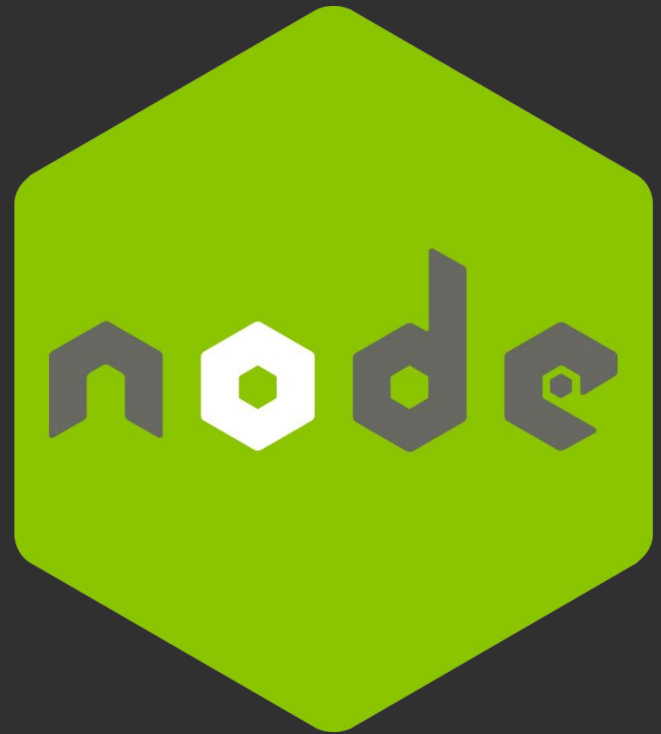
Backend Web  
Development



Data Science  
Machine Learning  
Computer Vision

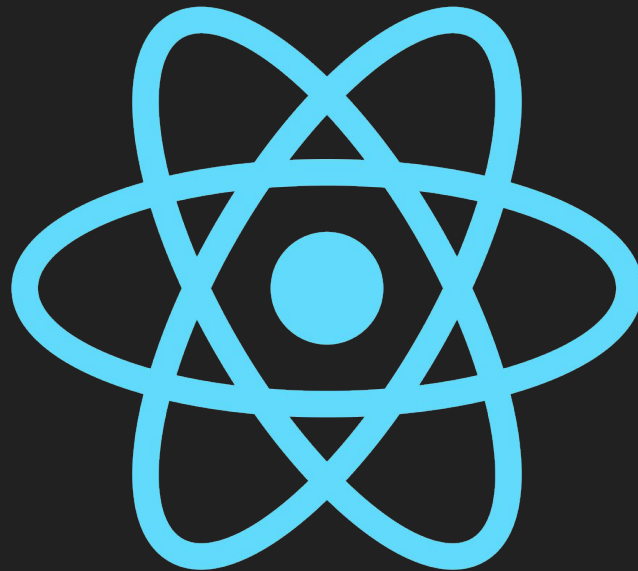
# Node.js

Must-Have for Web  
Development  
{ A.K.A. The Rest }



**Node** brings JavaScript to  
desktop!

Install if interested in the **React** Talk!



NPM is the default  
package manager, but

**IT REALLY SUCKS**

{slow, hard-to-read output}

