

MACOS FUNDAMENTALS CHEAT SHEET

macOS Fundamentals

File & Directory Commands

Command	Description
<code>defaults write com.apple.Finder AppleShowAllFiles true && killall Finder</code>	Enable the setting to view hidden files in finder from CLI
<code>ls</code>	Lists directory contents.
<code>ls -l</code>	list directory contents and their attributes
<code>ls -la</code>	list directory contents to include hidden files & their attributes
<code>cd <path></code>	Changes the directory.
<code>clear</code>	Clears the terminal.
<code>touch <file></code>	Creates an empty file in your current working directory.
<code>mkdir <directory></code>	Creates a new directory in your current working directory

Command	Description
<code>mv /Users/htb-student/Documents/Test /Users/htb-student/Desktop/Test</code>	Move a file from one directory to another
<code>chmod -vv <octal value> <file></code>	Modify permissions of a file and show the results
<code>sudo chown <userOwn>:<groupOwn> <file></code>	Change the user and group owner of a file

Networking Commands

Command	Description
<code>ifconfig</code>	View basic networking configurations
<code>ifconfig <interface></code>	View specific networking configurations of an interface
<code>ifconfig en0 inet <192.168.1.1> netmask < 255.255.255.0 ></code>	Manually set an interfaces IP address and subnet mask
<code>lsof -n -i4TCP -P</code>	View TCP ports that are bound while displaying the application that has it bound
<code>hostname</code>	Check the hostname of the computer
<code>networksetup - listallnetworkservices</code>	Displays a list of all the network services (devices) on the computer's hardware. This will print out the logical name of the device. (ex. Wi-Fi)
<code>networksetup - listnetworkserviceorder</code>	This will print out the network services running and the order in which they are queried for connection. A service at the beginning of the list is checked first.
<code>networksetup -getinfo <devicename></code>	Get basic info about a networkservice (device), such as the IP address assigned, subnet mask, gateway, and Mac-Address.
<code>networksetup -getcurrentlocation</code>	Prints out the currently set network location.

Command	Description
<code>networksetup -setmanual <networkservice> <ip> <netmask> <Gateway></code>	This will manually configure the IP address, network mask, and gateway for the device specified.
<code>networkQuality -I <interface></code>	Check network speeds of a specific interface
<code>security find-generic-password -wa <SSID></code>	Pull the password associated with a specific SSID from the security keychain
<code>nc</code>	Can be used to bind ports to connect with or listen from

Application Management

Command	Description
<code>/bin/bash -c "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"</code>	Install Homebrew
<code>brew -v</code>	Display the version/package information for Homebrew
<code>brew install <package></code>	Install a package using Homebrew
<code>brew search firefox</code>	Have Homebrew search its repository for a package named "firefox"
<code>brew install <package> --cask</code>	Install a cask application
<code>brew uninstall <package></code>	Remove a package from the host

Command	Description
<code>brew upgrade</code>	Upgrade Homebrew and all packages installed with it
<code>brew cleanup</code>	Cleanup old & unused files and applications with Homebrew

Shell Management Commands

Command	Description
<code>.bashrc</code>	Configuration file for Bash
<code>.zshrc</code>	Configuration file for Zsh
<code>chsh -s /bin/bash</code>	Change our env shell to Bash
<code>brew install zsh</code>	Install zsh with Homebrew
<code>chsh -s /bin/zsh</code>	Change our env shell to Zsh
<code>alias ll='ls -l'</code>	Set an alias for ll in the .zshrc file
<code>sh -c "\$(curl -fsSL https://raw.githubusercontent.com/ohmyzsh/ohmyzsh/master/tools/install.sh)"</code>	Install Oh My Zsh
<code>git clone https://github.com/zsh-users/zsh-syntax-highlighting.git \${ZSH_CUSTOM:-~/.oh-my-zsh/custom}/plugins/zsh-syntax-highlighting</code>	Install Zsh-syntax-highlighting

Command

```
git clone --depth=1 https://github.com/romkatv/powerlevel10k.git  
${ZSH_CUSTOM:-$HOME/.oh-my-zsh/custom}/themes/powerlevel10k
```

Description

Install the Powerlevel-10k theme to Zsh

```
brew install romkatv/powerlevel10k/powerlevel10k
```

Install the Powerlevel-10k theme to Zsh using Homebrew

```
echo "source $(brew --prefix)/opt/powerlevel10k/powerlevel10k.zsh-theme" >> ~/.zshrc
```

Set the theme of our shell in the .zshrc file