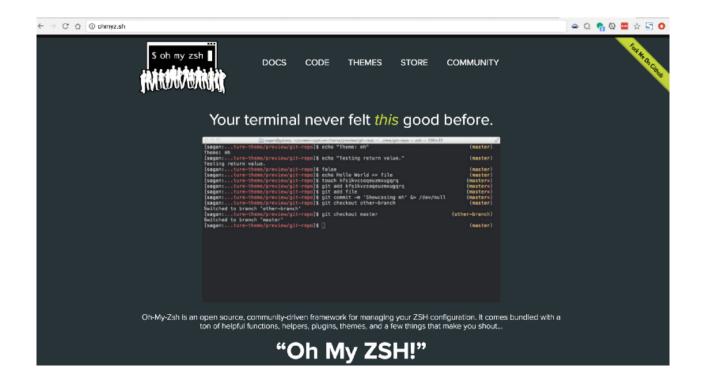
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# Jazz Up Your "ZSH" Terminal In Seven Steps — A Visual Guide



by rajaraodv

In this blog I'll cover installing ITerm2, ZSH shell, "oh my ZSH", Themes, ITerm2 color schemes, "oh my ZSH" plugins and enable "ligature" support to help create a beautiful and powerful Terminal.

If you want to just make your regular Bash Terminal powerful, take a look at my previous blog: "Jazz Up Your Bash Terminal". But ZSH explained in this blog is more powerful stuff.

#### **Summary:**

We'll be covering a lot of things. This may be confusing, so here is the summary of what we will be doing.

- Install ITerm2 This is a better alternative to the default
   Terminal
- Install latest ZSH shell This is more powerful than the regular bash shell. We will switch ITerm2 to use ZSH shell.

- 3. Install "Oh My ZSH"— This is a CLI tool to easily configure ZSH and add themes and plugins to ZSH
- Add two types of Themes using "Oh My ZSH" — some themes need extra steps so we will cover both
- 5. Install different ITerm2 Schemes– These are just color schemesfor the UI
- Add two different Plugins using "Oh My ZSH" to improve productivity
- 7. Enable "ligature" support so when you write an arrow =>;, it appears like a real arrow →



#### Step 1— Install ITerm2

A lot of programmers like <u>ITerm2</u> instead of the default Terminal. It is similar to the Terminal, but has lots of features of its own. It of course can run ZSH, Bash, and other shells inside it.

The following video shows some of the new features of Item 2 (v3).

For this blog we'll use ITerm2. When I mention "Terminal", I mean ITerm2. Although the steps are the same for both Terminal or ITerm2.

#### Step 2— Change Shell To ZSH

The following video shows why ZSH is better than just a bash shell.

Option 1 - Use Mac's own ZSH:

Mac comes with a ZSH out-of-the-box,

so we don't need to install it. However, sometimes it's an older version of ZSH. Typically it's located at /bin/zsh. To use it, all we need to do is to change shell (chsh).

Open the Terminal (or ITerm2)
 and type the following command.

```
$ chsh -s $(which zsh)
```

- 2. Enter the password and it will change the shell, upon logout and login.
- 3. Logout and re-login
- 4. To test, open the Terminal and type the following, and it should say zsh.

```
$ echo $0
zsh //should return zsh
```

### Option 2— Install Homebrew and Install latest ZSH via Homebrew

This option is pretty common among users, because some of the plugins only work with the latest ZSH.

Homebrew, simply said, is a command line installer for all sorts of software. Let's install that first.

1. Install Homebrew by running the following command.

```
ruby -e "$(curl -fsSL https://raw.githubuserc
```

2. If you get Command Line Tools for Xcode error, it means you haven't installed the CLI tools for Xcode. If you don't get the error, you can skip this step, because you already have it installed.

XCode Developer CLI tools are used by various apps that manipulate core OSX features. So make sure to install the Xcode CLI tools by running the following command.

\$ xcode-select --install

Note: The above command opens up Mac's installer and installs the XCode Developer CLI tools. If it doesn't work, try xcode-select - r to reset.

#### 3. Install ZSH via Homebrew

Que the following command to install
Que Search 6,000+ tutorials

zsh PS: Mac's default ZSH is at /bin/zsh

brew install zsh

4. Use the Homebrew version of ZSH

Run the following command. You will be prompted to enter Mac's password.

chsh -s /usr/local/bin/zsh

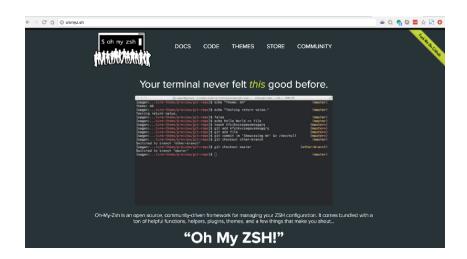
#### 5. Logout and log back in.

### 6. Test if we are using ZSH and the correct ZSH

```
$ echo $0
zsh //correct

$ which zsh
/usr/local/bin/zsh //correct
```

#### Step 3— "Oh My ZSH"



"Oh My ZSH" is a plugin that runs on top of ZSH. It provides default config for ZSH (~/.zhrc file) and also provides themes and more features. From what I know, most power users who use ZSH also use "Oh My ZSH".

#### 1. Install "Oh My ZSH"

Run the following command to install "oh My ZSH".

```
sh -c "$(curl -fsSL https://raw.github.com/rc
```

Oh My ZSH is installed

2. Close and quit ITerm2 and reopen it.

It should look something like below.

Notice that the prompt has changed and the theme is a bit different — That's "Oh My ZSH" in action for you.



Initial Oh My ZSH Theme

### Step 4— Change Themes And Install Fonts

In this step, we'll add two different "Oh My ZSH" Themes. "Oh My ZSH" comes with tons of themes. PS: But some Themes need extra steps like installing specific fonts and so on.

To set a Theme, simply open ~/.zshrc file (created by "Oh My ZSH") and change the theme as shown below.

PS: .zshrc is the config file for ZSH shell. People who don't use "Oh My ZSH" will have to manually

create this file and add any configs themselves. "Oh My ZSH" automatically creates this file if it doesn't exist and then adds its own set of configs into this file.

### Theme 1 — Let's add a Theme called "Avit"

1. Open .zshrc

\$ open ~/.zshrc

#### 2. Change the Theme to "Avit"

You can browse all the "Oh My ZSH"
Themes <u>here</u>. To change the Theme,
simply change the ZSH\_THEME value in
~/.zshrc file from **robbyrussell** to **Avit**.

```
# If you come from bash you might have to change your $PATH.

# export PATH=$HOME/bin:/usr/local/bin:$PATH

# Path to your oh-my-zsh installation.

export ZSH=/Users/rajaraody/.oh-my-zsh

# Set name of the theme to load. Optionally, if you set this to "random"

# it'll load a random theme each time that oh-my-zsh is loaded.

# See https://github.com/robbyrussell/oh-my-zsh/wiki/Themes

ZSH_THEME="avit"

# Set list of themes to load

# Setting this variable when ZSH_THEME=random

# cause zsh load theme from this variable instead of

# looking in ~/.oh-my-zsh/themes/
```

```
# An empty array have no effect

# ZSH_THEME_RANDOM_CANDIDATES=( "robbyrussell" "agnoster" )

# Uncomment the following line to use case-sensitive completion.

# CASE_SENSITIVE="true"

# Uncomment the following line to use hyphen-insensitive completion. Case
# sensitive completion must be off. _ and - will be interchangeable.
# HYPHEM_INSENSITIVE="true"

# Uncomment the following line to disable bi-weekly auto-update checks.
# DISABLE_AUTO_UPDATE="true"

# Uncomment the following line to change how often to auto-update (in days).
# export UPDATE_ZSH_DAYS=13
```

#### 3. Update ZSH config

Run the following command to update the config.

\$ source ~/.zshrc



Your command prompt in Avit Theme

4. Change the background color and font size

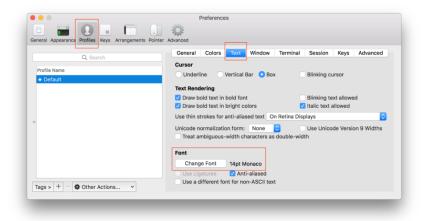
Open ITerm2 > Preferences > Profiles >

### Colors and change the background black color to use 20% gray as shown below.

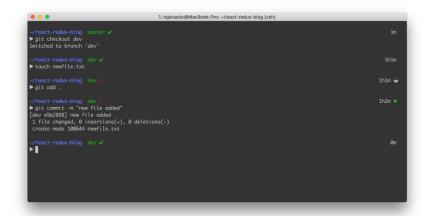


Use 20% Gray background

Then open Text > Change Font and change the size to 14pt.



Change font to 14pt



A clean and beautiful Iterm2 with ZSH!

OK, Let's install a different Theme that needs fonts.

### Theme 2 — Installing "agnoster" Oh My ZSH theme

This is a popular theme because it emulates the <u>Powerline</u> Python app that enhances the terminal. The following picture shows how it looks. But this theme also needs us to install Powerline themes.



```
Opinosity Ecobours of the Community of t
```

agnoster Oh My ZSH theme

#### 1. Install Powerline fonts

```
$ git clone https://github.com/powerline/font
$ cd fonts
$ ./install.sh
```

#### 2. Change the Theme to "agnoster"

```
$ open ~/.zshrc
Set ZSH_THEME="agnoster" and save the file
```

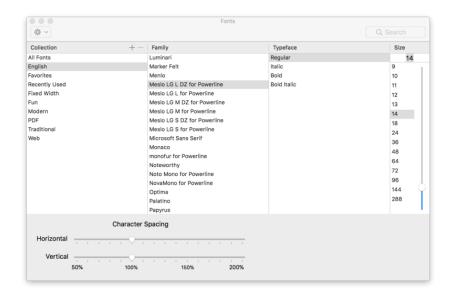
#### 3. Quit ITerm2 and reopen it.

#### 4. Set Powerline font

You can set any Powerline patched font you like. All the fonts end with "for

#### Powerline".

Open ITerm2 > Preferences > Profile s > Text > Change Font and set it to something that has "for Powerline". I'm choosing "Meslo LG DZ for Powerline" font.



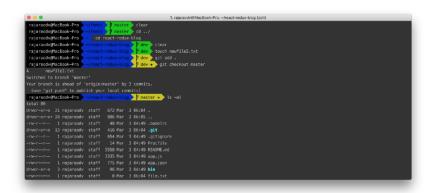
Meslo LG DZ for Powerline Iterm2 font

Note — If you are confused about the fonts and Themes: the Themes are for "Oh My ZSH" and ZSH shell and the fonts are for the Iterm2 itself.

#### 5 All Done

J. All Polic

At this point your Terminal should look like below:



### Step 5 — Install iTerm2 "color schemes" (ITerm2 Themes)

There are plenty of gorgeous color schemes for iTerm2. These schemes change the foreground color, background color, cursor color, and so on. You can find them at <u>iTerm2-color-schemes</u> Github repo.

Note: These are just color schemes of the ITerm2 UI and don't deal with the command prompt's look and feel like "Oh My ZSH"'s themes (other than just changing colors).

Follow these steps to install them.

- Download the <u>iTerm2-color-</u> <u>schemes</u> as a zip file and extract it
- 2. The "Schemes" folder contains all the color scheme files — they end with .itermcolors
- 3. Open iTerm2 > Preferences >
   Profile > Colors > Color
   Presets > Import
- 4. In the import window, navigate to the "Schemes" folder (from step2)
- 5. Select all the files so you can import all the color schemes at once
- 6. Simply select whichever color scheme you like.

My favorites are **Batman** and **Argonaut** 



Batman Iterm2 Theme

The Argonaut color scheme looks like below:



Argonaut color scheme

#### **Step 6— Install Plugins**

Plugins add more functionalities to your workflow. By default "Oh My ZSH" already has the "git" plugin! and that's why you were able to see all those Git statuses in the prompts in earlier

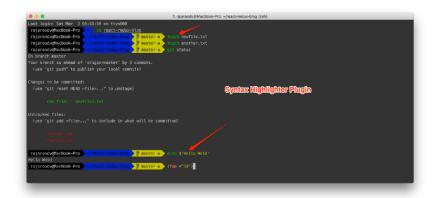
otataooo iir tiro prompto iir carno

screenshots. Let's add another one to see how it works.

Note: In this section, we'll install two different plugins to show how they work.

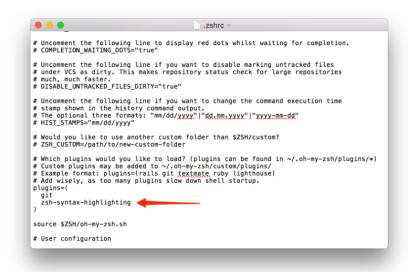
### Plugin 1 — Add Syntax Highlighting Plugin

The Syntax Highlighting plugin adds beautiful colors to the commands you are typing as shown below.



 Clone the zsh-syntax-highlighting plugin's repo and copy it to the "Oh My ZSH" plugins directory. git clone https://github.com/zsh-users/zsh-sy

2. Activate the plugin in ~/.zshrc by adding`zsh-syntax-highlighting to the Plugins section as shown below.



Add a new plugin in a new line inside plugins section

#### 3. Re-read zshrc configuration

source ~/.zshrc

#### Plugin 2 — Add ZSH-AutoSuggestion Plugin

This plugin auto suggests any of the previous commands. Pretty handy! To select the completion, simply press → key.



1. Install the plugin

git clone https://github.com/zsh-users/zsh-a

PS: ZSH\_CUSTOM points to ~/.oh-my-zsh/custom

2. Open ~/.zshrc and add zsh-autosuggestions

### Step 7 — Use Ligature Support

There are various fonts that help make operators like less than, double equals, right arrow, not equals, and so on look beautiful. For example, every time you type: =>, it becomes: →.

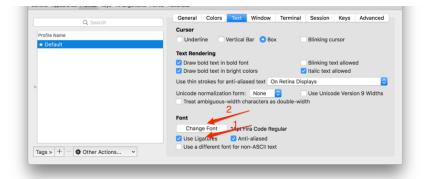




To use this, we need fonts that support ligatures. We also need to enable it in ITerm2. <u>FiraCode</u> is one such font. Follow the steps to install and enable ligatures.

- 1. Download the <u>FiraCode</u> repo and extract the zip file (or clone it)
- Open the dstr > ttf folder and double click on all the \*.ttf files and select the "Install font" button to install each of the font variations.
- 3. Navigate to ITerm2 |
   Preferences | Profiles | Text
- 4. Select Use Ligatures checkbox
- 5. Click on Change Font and select Fira Code Regular font





#### **Summary**

We have covered a lot in this blog starting from installing latest ZSH via Homebrew, Oh My ZSH, Plugins, Themes, enable "ligatures" for FiraCode font.

?? Thank you!

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