

# Customising Vim

## Links

Vim-Plug: <https://github.com/junegunn/vim-plug>

Vim Awesome: <https://vimawesome.com/>

vim-airline-themes: <https://github.com/vim-airline/vim-airline-themes>

Norminette-Vim: <https://github.com/alexandregv/norminette-vim>

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## Step One

# *vim-plug*

First things first, we download vim-plug - vim-plug is a minimalist Vim plugin manager.

To make things a bit easier we've copied the commands you need and put it in this document.

To install vim-plug, run the following command in your terminal/iTerm window.

```
curl -fLo ~/.vim/autoload/plug.vim --create-dirs \
  https://raw.githubusercontent.com/junegunn/vim-plug/master/plug.vim
```

Now we add a vim-plug section to our `.vimrc` - Type `vim .vimrc` to open it.

Your vim-plug section will begin with `call plug#begin()` and end with `call plug#end()`.  
Any time you are adding another plugin you'll put it between these lines.

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## Step Two

# *Themes*

We are going to use the website Vim Awesome to add our themes. You can go through the website yourself to try some of their other plugins later!

We chose the airline theme. We also used a plug from vim-airline-themes git (this is the official theme repository for vim-airline) to get the theme a bit nicer. We also use the one-dark theme from a separate github repository.

Add all these plugins between your `call plug#begin()` and `call plug#end()`:

```
Plug 'vim-airline/vim-airline'
Plug 'vim-airline/vim-airline-themes'
Plug 'joshdick/onedark.vim'
```

... then Press `esc` to get out of insert mode. Run the following commands in Vim the same way you'd use `:w` to save a file:

```
:source %
:PlugInstall
```

This will open up a second window in Vim. You can use the usual quit command (`:q`) to close it once it is done installing things.

We are then going to turn on syntax (text colours) and set the color schemes we just installed. If you want line numbers to show on your vim you can also set numbers.

It should look something like this:

```
call plug#begin()
Plug 'vim-airline/vim-airline'
Plug 'joshdick/onedark.vim'
Plug 'vim-airline/vim-airline-themes'
call plug#end()
syntax on
colorscheme onedark
let g:airline_theme='deus'
set number!
```

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## Step Three

# *Norminette Highlighter*

To get the norminette error highlighter you will need to install syntastic and norminette-vim with your plugin manager. To do this add the following in your .vimrc page somewhere between the plug#begin and plug#end lines. Then restart vim (or run `:source %`) and run `:PlugInstall`

```
Plug 'vim-syntastic/syntastic'  
Plug 'alexandregv/norminette-vim'
```

We then add in some configurations. This is the only mandatory line, outside of that you're welcome to have a look at some of the other options later (for example ignoring the 42 header, etc).

The following enables norminette-vim. Put it at the end of your .vimrc and save.

```
let g:syntastic_c_checkers = ['norminette', 'gcc']  
let g:syntastic_aggregate_errors = 1
```

It should look something like this:

```
call plug#begin()  
Plug 'vim-airline/vim-airline'  
Plug 'joshdick/onedark.vim'  
Plug 'vim-airline/vim-airline-themes'  
call plug#end()  
syntax on  
colorscheme onedark  
let g:airline_theme='deus'  
set number!  
let g:syntastic_c_checkers = ['norminette', 'gcc']  
let g:syntastic_aggregate_errors = 1
```

The `let g:airline_theme='deus'` line is where you declare the theme you want to use. Deus is a simple theme that looks quite nice, though if it isn't to your taste you can have a look through <https://github.com/vim-airline/vim-airline/wiki/Screenshots> to see if there are any other themes you'd rather use.

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## Step Four

# *Have Fun!*

Remember you can have a look around, find more plugins and do some research on other options for vim.

# Customizing iTerm

## Links

Oh-My-Zsh: <https://ohmyz.sh/#install>

Pure Theme: <https://github.com/sindresorhus/pure>

## Step One

# Oh-My-Zsh!

In a terminal page run the code:

```
sh -c "$(curl -fsSL
https://raw.githubusercontent.com/ohmyzsh/ohmyzsh/master/tools/install.sh)"
```

This will install “Oh My Zsh”, an open-source tool that comes bundled with plugins and themes for the terminal.

Once it has installed run the following in terminal (copy both lines together):

```
mkdir -p "$HOME/.zsh"
git clone https://github.com/sindresorhus/pure.git "$HOME/.zsh/pure"
```

This will install the “pure” theme, which looks nice and is fast too.

Now we open our `.zshrc` to do this, type `vim ~/.zshrc` .

This will open the `.zshrc` file in vim, which is what we’ll use to edit our preferences and enable our theme.

Firstly find the line that says `ZSH_THEME="robbyrussell"` and put a `#` in front of it to disable it/comment it out. It should now look like this:

```
# ZSH_THEME="robbyrussell"
```

Below that line add the following lines:

```
# .zshrc
fpath+=($HOME/.zsh/pure)
autoload -U promptinit; promptinit
prompt pure
```

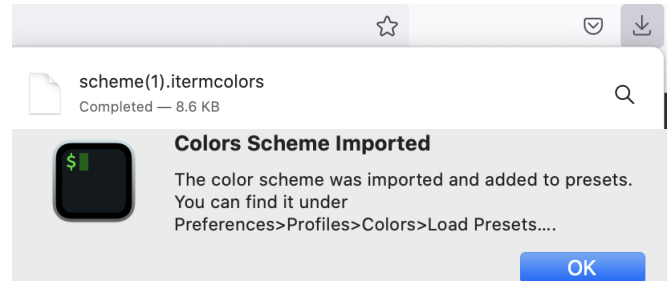
Next find the line that says `export ZSH="$HOME/.oh-my-zsh"`, and in a new line below it add `ZSH_DISABLE_COMPFUX="true"`. If this is not added, ZSH will spit out a bunch of errors when you open the terminal.

Save and Quit with `:wq`.

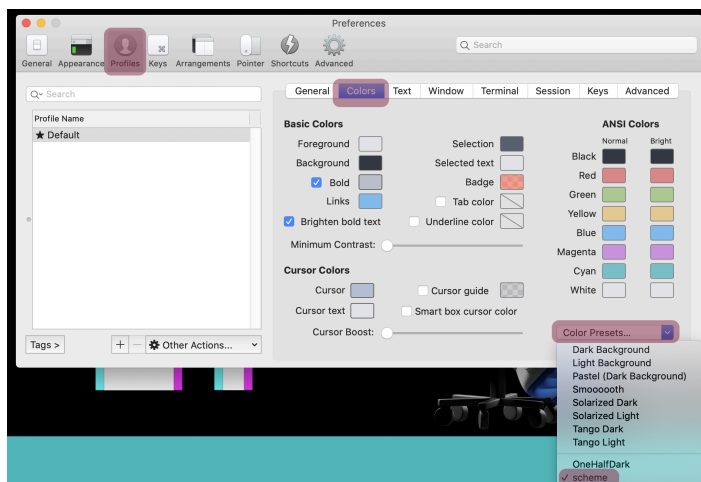
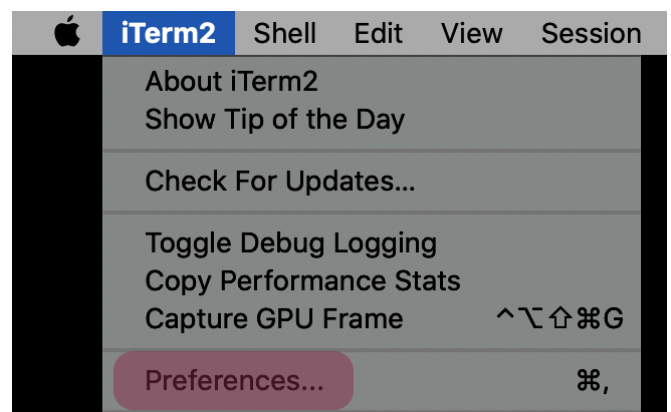
## Step Two

# Theme

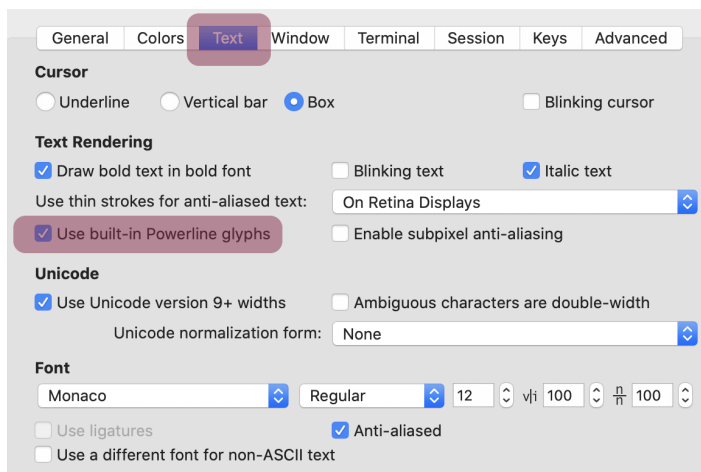
First you'll need to download a theme. I will be sending the file in the discord for you to download. Once you download, click on the file that has just appeared at the top of the screen, then if it is successful you should see a popup that indicates the colour scheme was imported.



Now go to the top left of your screen and click "**iTerm2**" then "**Preferences**" (you will need to click into a terminal window first)



-> In the **profiles** section select the **colour** tab and from the **colour presets** select '**scheme**'.



-> Then select the **text** tab and tick the box '**Use built-in Powerline glyphs**'. If you don't enable this the airline theme you used, as well as some Vim components will be broken.

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## Step Three (Optional)

# *Making an Alias*

Making an alias allows you to create a command that includes several flags so you don't have to type them all out manually when compiling.

These are the two that I use:

```
alias comp="cc -Wall -Werror -Wextra -DDO_MAIN"  
alias defnorm="Norminette -R CheckDefine"
```

And you can make as many as you like.

To explain the above example that includes the flag `-DDO_MAIN`

Something you can do to avoid having to comment out your main functions is instead of commenting out your mains, put them between `#ifdef` and `#endif`

```
#ifdef DO_MAIN  
  
int main(void)  
{  
    [insert your main function here]  
}  
#endif
```

Then if you run `cc -Wall -Werror -Wextra -DDO_MAIN ft_yourfile` it will run with the main function, but since moulinette doesn't use `-DDO_Main` as one of the flags, it will ignore your main function when it checks your work.

This is great for both testing and when you have evals because they don't need to edit your files to run any tests.

However, this won't avoid norminette's prying eyes and your main functions will still need to be norminette compliant in order to pass. If you ever have mains you can't make norminette compliant then you can comment it out instead as per usual.

To avoid having to type all that out all the time, you can make an alias "comp" so instead all you have to do is type `comp ft_yourfile` and it will run with all the flags.

You can make as many as you like. These are the two that I use:

```
alias comp="cc -Wall -Werror -Wextra -DDO_MAIN"  
alias defnorm="Norminette -R CheckDefine"
```

Be aware that these will only work on your machine. Evaluators will have to add `-DDO_MAIN` manually.

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## Step Four

# *Double Check*

If you are running into any trouble and want to compare, the top of my .zshrc file looks like this:

```
1 # If you come from bash you might have to change your $PATH.
2 # export PATH=$HOME/bin:/usr/local/bin:$PATH
3
4 # Path to your oh-my-zsh installation.
5 export ZSH="$HOME/.oh-my-zsh"
6 ZSH_DISABLE_COMPFIX="true"
7 # Set name of the theme to load --- if set to "random", it will
8 # load a random theme each time oh-my-zsh is loaded, in which case,
9 # to know which specific one was loaded, run: echo $RANDOM_THEME
10 # See https://github.com/ohmyzsh/ohmyzsh/wiki/Themes
11 #ZSH_THEME="robbyrussell"
12
13 # .zshrc
14 fpath+=($HOME/.zsh/pure)
15 autoload -U promptinit; promptinit
16 prompt pure
17
18 alias comp="cc -Wall -Werror -Wextra -DDO_MAIN"
19 alias defnorm="Norminette -R CheckDefine"
20
21 # Set list of themes to pick from when loading at random
```

Also make sure that elsewhere in the file you have the following:

```
80 # Add wisely, as too many plugins slow down shell startup.
81 plugins=(git)
82
83 source $ZSH/oh-my-zsh.sh
84
85 # User configuration
```

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## Step Five

# *Enjoy!*

Remember you can have a look around, find more themes and do some research on other options for terminal. Hope this helped!