

A Nicer Prompt

How about something a little more friendly?

```
PS1='How may I help you? '
```

How about something a personalized?

```
PS1='How may I help you \u? '
```

How about something more informative?

```
PS1='\d \t \u@\h \w \> '
```

Now let's make this permanent:

Mac:

```
atom ~/.bash_profile
```

Linux:

```
atom ~/.bashrc
```

Notes:

- ~ means your home directory
- - everything you do on the command line is in relation the path you specify

For example:

```
cd ~/Desktop
```

will bring you into your Desktop from anywhere

History

```
history
```

Clear your screen

```
clear
```

Mac short-cut: cmd+k

A better ls

Where am I?

```
pwd (print working directory)
```

What's in here?

```
ls
```

If you don't see the full details:

Use the following to see hidden (-a) and as a list with details (-l)

```
ls -al
```

Create an alias

```
alias ls='ls -al'
```

Note:

This will only be temporary for your current terminal session. Put it in your `bashrc` or `bash_profile` to make it permanent.

Grep

What was that config file called again?

```
ls
```

That's way too much information, how can I just see files with bash in it?

```
ls | grep bash
```

What are the files I worked on this month?

```
ls | grep Jan
```

Inverting Grep

```
ls | grep -v Jan
```

Case Insensitive Grep

```
ls | grep -i jan
```

More Help

```
man ls  
man cp  
man alias
```

Permissions

How can I see my files permissions?

```
ls
```

-rwxrwxrwx

- file type:
 - - = file
 - d = directory
 - l = link
- User Read
- User Write
- User Execute
- Group Read
- Group Write
- Group Execute
- World Read
- World Write
- World Execute

Note:

`chmod` is used to alter permissions

`chown` is used to alter ownership

Let's create a tiny ruby program

```
touch hello.rb  
atom hello.rb
```

hello.rb:

```
#!/usr/bin/ruby  
puts 'Hello There'
```

```
./hello.rb
```

```
chmod u+x hello.rb
```

```
ls -al | grep hello
```

```
./hello.rb
```

Path

```
echo $PATH
```

Which

```
which ls  
which ruby
```

Env

```
env
```

```
env | grep PATH
```

```
env | grep PROMPT
```

Moving around the command line quickly

- Arrow-up: previous command (can be used multiple times)
- ctrl-a: go to beginning of line
- ctrl-e: go to end of line
- alt-arrows: go back and forth between words

Homework

Lookup how to setup and use the `locate` and `updatedb` commands

Any Questions?

Just for Sean: Switching shells:

```
chsh -s /bin/zsh chsh -s /bin/bash
```