

Shell

bash basics

default text editor

- for inline shell call: `sudo EDITOR=nano crontab -e`
- add to `~/.bashrc` or `~/.zshrc`:
 - `export EDITOR=nano`
- for default root editor, edit also `/root/.bashrc` or `/root/.zshrc`

```
echo "export VISUAL=nano\nexport EDITOR=nano" >> ~/.bashrc
```

```
echo "export VISUAL=nano\nexport EDITOR=nano" >> ~/.zshrc
```

```
sudo sh -c "echo -e \"export VISUAL=nano\nexport EDITOR=nano\" >> ~/.bashrc"
```

```
sudo sh -c "echo -e \"export VISUAL=nano\nexport EDITOR=nano\" >> ~/.zshrc"
```

login message:

- for local user edit: `nano ~/.profile`
- for global: `/etc/profile` or `/etc/bashrc` (only for bash shell)

add for example:

```
#shell login message
```

```
echo -e "\n\n You are working on: \t\e[41m>>> subdomain.my-server.com <<<\e[49m\n\n"
```

custom shell prompt:

- for local user edit: `nano ~/.profile`
- for global: `/etc/profile` or `/etc/bashrc` (only for bash shell)

add for example:

```
#shell login message
alias PS1="\e[0;32m[\u@\h \w]\$ \e[0m"
```

- `\u` - user
- `\h` - host
- `\w` - current path

```
[test@ubuntu1 ~]$ <- in green
```

PS3 for select prompt

https://www.thegeekstuff.com/2008/09/bash-shell-take-control-of-ps1-ps2-ps3-ps4-and-prompt_command/

Terminal colors

- `\e[0;32m`
- `\e[` - Begin color changes
- `0;32m` - Specify the color code
- `[\u@\h \w]\$` - This is the code for your normal BASH prompt (username@hostname Workingdirectory \$)
- `\e[0m` - Exit color-change mode

The first number in the color code specifies the typeface:

- `0` - Normal
- `1` - Bold (bright)
- `2` - Dim
- `4` - Underlined

The second number indicates the color you want:

color	background	text
black	<code>\e[0;40m</code>	<code>\e[0;30m</code>
Red	<code>\e[0;41m</code>	<code>\e[0;31m</code>
Green	<code>\e[0;42m</code>	<code>\e[0;32m</code>
Brown	<code>\e[0;43m</code>	<code>\e[0;33m</code>
Blue	<code>\e[0;44m</code>	<code>\e[0;34m</code>
Purple	<code>\e[0;45m</code>	<code>\e[0;35m</code>
Cyan	<code>\e[0;46m</code>	<code>\e[0;36m</code>

color	background	text
Light gray	\e[0;47m	\e[0;37m

output redirection

- `2>&1` redirect StdErr to StdOut
- `2>&1 |` redirect and Pipe, same as `|&` (not in sh)

Syntax	visible in terminal		visible in file		existing	
	StdOut	StdErr	StdOut	StdErr	file	
<code>></code>	no	yes	yes	no	overwrite	
<code>>></code>	no	yes	yes	no	append	
<code>2></code>	yes	no	no	yes	overwrite	
<code>2>></code>	yes	no	no	yes	append	
<code>&></code>	no	no	yes	yes	overwrite	
<code>&>></code>	no	no	yes	yes	append	
<code> tee</code>	yes	yes	yes	no	overwrite	
<code> tee -a</code>	yes	yes	yes	no	append	
<code> & tee</code>	yes	yes	yes	yes	overwrite	
<code> & tee -a</code>	yes	yes	yes	yes	append	

zsh

all in one script

```
if test -f ~/.zshrc; then
  echo "Installing zsh with oh my zsh and powerlevel10kTheme"

  sudo apt update && sudo apt install curl git zsh
  sh -c "$(curl -fsSL
https://raw.githubusercontent.com/ohmyzsh/ohmyzsh/master/tools/install.sh)" "" --unattended
  git clone --depth=1 https://github.com/romkatv/powerlevel10k.git ${ZSH_CUSTOM:-$HOME/.oh-my-
zsh/custom}/themes/powerlevel10k
```

```
sed -i '/ZSH_THEME="/c\ZSH_THEME="powerlevel10k/powerlevel10k"' ~/.zshrc
fi
```

To customize prompt, run `p10k configure` or edit `~/.p10k.zsh`.

install zsh

- ZSH (shell with more features)
 - `sudo apt install zsh` or `sudo dnf install zsh` (on Fedora)
- Oh-My-ZSH
 - `sh -c "$(curl -fsSL https://raw.githubusercontent.com/ohmyzsh/ohmyzsh/master/tools/install.sh)"`

Oh My Zsh [Cheatsheet](#)

install powerlevel 10k theme

- install font for "powerlevel10k" <https://github.com/romkatv/powerlevel10k#meslo-nerd-font-patched-for-powerlevel10k>
- **choose font Meslo Nerd in preferences of the terminal or editor**
- install "powerlevel10k"-theme for ohmyzsh <https://github.com/romkatv/powerlevel10k>
`git clone --depth=1 https://github.com/romkatv/powerlevel10k.git ${ZSH_CUSTOM:-$HOME/.oh-my-zsh/custom}/themes/powerlevel10k`
- Set `ZSH_THEME="powerlevel10k/powerlevel10k"` in `~/.zshrc`.
 - `sed -i '/ZSH_THEME="/c\ZSH_THEME="powerlevel10k/powerlevel10k"' ~/.zshrc`
- Type `p10k configure` if the configuration wizard doesn't start automatically.

edit for visual studio code

- Press `command + shift + P` in your VSCode window.
- type `settings.json` and click "Open User Settings (JSON)" it.
- insert or add:

```
{
  "terminal.integrated.fontFamily": "MesloLGS NF",
  "terminal.integrated.fontSize": 12,
  "terminal.integrated.defaultProfile.linux": "zsh"
}
```

terminal emulator

terminator

- install: `sudo apt install terminator`

documentation

- Create more terminals by:
 - horizontal split: `Ctrl-Shift-o`
 - vertical split: `Ctrl-Shift-e`
 - Shift focus to:
 - next terminal: `Ctrl-Shift-n`
 - previous terminal: `Ctrl-Shift-p`
 - New tab: `Ctrl-Shift-t`
 - New window: `Ctrl-Shift-i`
 - Close terminal or tab:
 - `Ctrl-Shift-w`
 - or right mouse click -> Close
 - Close window with all it's terminals and tabs: `Ctrl-Shift-q`
 - Reset zoom: `Ctrl-0`
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