Getting started

Web development I: Front-end engineering

Where do I start?





What does a front-end engineer do?



Design

Development

Content strategy and creation

Multimedia

Front-end engineers design



Interaction, UX, UI design

User research and testing reports

Wireframe diagrams

Site diagrams

Storyboards and user flow charts

Visual (graphic) design

Image optimization

Front-end engineers develop



Authoring/markup HTML

Styling CSS

Programming JavaScript

Front-end engineers create



Content strategist Writing

Information architect Organization

Front-end engineers animate



Multimedia authoring Interactivity

Games

Videos

Examples: https://godeinteractive.com/magazine/playable-interactive-websites/

What languages should I learn?



HTML for structure

CSS for presentation

JavaScript for behavior

What do I need to buy?



A computer and a mobile device. That's it. Really.

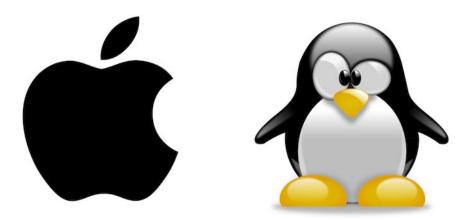
Use **open source** software and follow the **standards**.

Operating system



Please use a Linux-based OS: Ubuntu, Debian, macOS, etc.

(In Windows you can use WSL)



Editors



Visual Studio

Sublime Text

Atom

Vim

Gedit

Notepad++

. . .

Browsers



Chrome

Firefox

Safari

Edge



Graphics manipulation



GIMP

InkScape

Raster images

Vector images





Don't fear the **command line interface**



```
oot@localhost ~]# ping -q fa.wikipedia.org
ING text.pmtpa.wikimedia.org (208.80.152.2) 56(84) bytes of data.
 -- text.pmtpa.wikimedia.org ping statistics ---
 packets transmitted, 1 received, 0% packet loss, time 0ms
tt min/avg/max/mdev = 540.528/540.528/540.528/0.000 ms
root@localhost ~1# pwd
root@localhost ~1# cd /var
root@localhost var]# ls -la
irwxr-xr-x. 18 root root 4096 Jul 30 22:43 .
Irwxr-xr-x. 23 root root 4096 Sep 14 20:42 ...
Irwxr-xr-x. 2 root root 4096 May 14 00:15 account
drwxr-xr-x. 11 root root 4096 Jul 31 22:26 cache
drwxr-xr-x. 3 root root 4096 May 18 16:03 db
irwxr-xr-x. 3 root root 4096 May 18 16:03 empty
drwxr-xr-x. 2 root root 4096 May 18 16:03 games
drwxrwx--T. 2 root gdm 4096 Jun 2 18:39 gdm
drwxr-xr-x. 38 root root 4096 May 18 16:03 lib
drwxr-xr-x. 2 root root 4096 May 18 16:03 local
lrwxrwxrwx. 1 root root 11 May 14 00:12 lock -> ../run/lock
irwxr-xr-x. 14 root root 4096 Sep 14 20:42 log
rwxrwxrwx. 1 root root 10 Jul 30 22:43 mail -> spool/mail
Irwxr-xr-x. 2 root root 4096 May 18 16:03 nis
drwxr-xr-x. 2 root root 4096 May 18 16:03 opt
drwxr-xr-x. 2 root root 4096 May 18 16:03 preserve
drwxr-xr-x. 2 root root 4096 Jul 1 22:11 report
rwxrwxrwx. 1 root root 6 May 14 00:12 run -> ../run
Irwxr-xr-x. 14 root root 4096 May 18 16:03 spool
drwxrwxrwt. 4 root root 4096 Sep 12 23:50 tmp
irwxr-xr-x. 2 root root 4096 May 18 16:03 yp
root@localhost varl# vum search wiki
oaded plugins: langpacks, presto, refresh-packagekit, remove-with-leaves
pmfusion-free-updates
                                                                                                     00:00
                                                                                          206 kB
pmfusion-free-updates/primary db
updates/metalink
                                                                                          5.9 kB
pdates
                                                                                          4.7 kB
pdates/primary db
                                                                                                     00:15 ETA
```