

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

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://qodeinteractive.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.



Editors

Gedit

Sublime Text

Atom

Vim

Notepad++

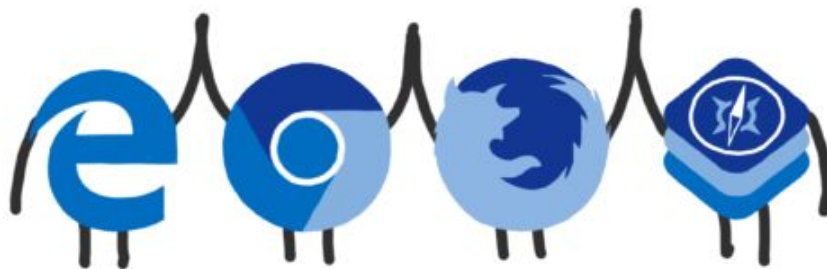
Browsers

Chrome

Firefox

Safari

Edge



Graphics manipulation

GIMP

Raster images

InkScape

Vector images



Don't fear the command line interface

```
[root@localhost ~]# ping -q fa.wikipedia.org
PING text.pmtpa.wikimedia.org (208.80.152.2) 56(84) bytes of data.
^C
--- text.pmtpa.wikimedia.org ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 540.528/540.528/540.528/0.000 ms
[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /var
[root@localhost var]# ls -la
total 72
drwxr-xr-x. 18 root root 4096 Jul 30 22:43 .
drwxr-xr-x. 23 root root 4096 Sep 14 20:42 ..
drwxr-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
drwxr-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
drwxr-xr-x. 14 root root 4096 Sep 14 20:42 log
lrwxrwxrwx.  1 root root   10 Jul 30 22:43 mail -> spool/mail
drwxr-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
lrwxrwxrwx.  1 root root   6 May 14 00:12 run -> ../run
drwxr-xr-x. 14 root root 4096 May 18 16:03 spool
drwxrwxrwt.  4 root root 4096 Sep 12 23:50 tmp
drwxr-xr-x.  2 root root 4096 May 18 16:03 yp
[root@localhost var]# yum search wiki
Loaded plugins: langpacks, presto, refresh-packagekit, remove-with-leaves
rpmfusion-free-updates                               | 2.7 kB    00:00
rpmfusion-free-updates/primary_db                     | 206 kB    00:04
rpmfusion-nonfree-updates                             | 2.7 kB    00:00
updates/metalink                                       | 5.9 kB    00:00
updates                                                 | 4.7 kB    00:00
updates/primary_db                                     73% [=====] | 62 kB/s | 2.6 MB    00:15 ETA
```