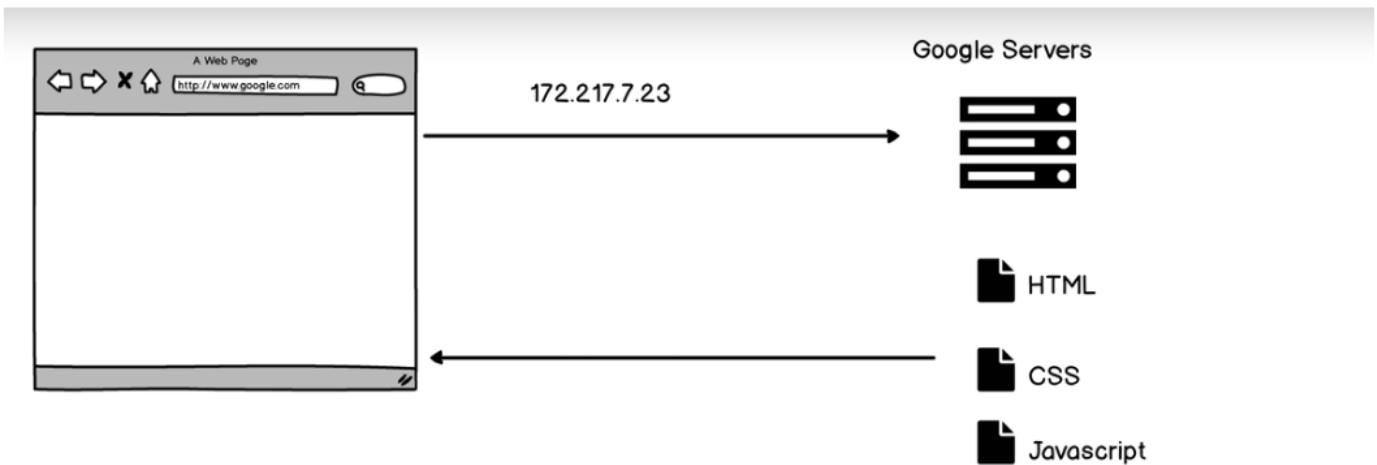
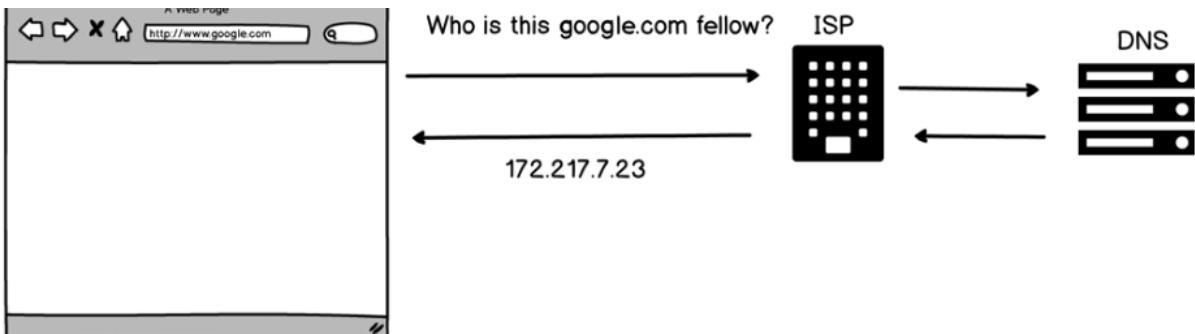


# How the Internet Works

## The Complete Web Developer in 2018

The Complete Web Developer in 2018  
Zero to Mastery  
Andrei Neagoie  
Udemy

## How the Internet Works



## Google Chrome > Developer Tools

Select element (ctrl shift c)

Can rewrite code to see it display live in the browser.

**Elements** tab is for the HTML

**Style** tab is for the CSS - can also see box model

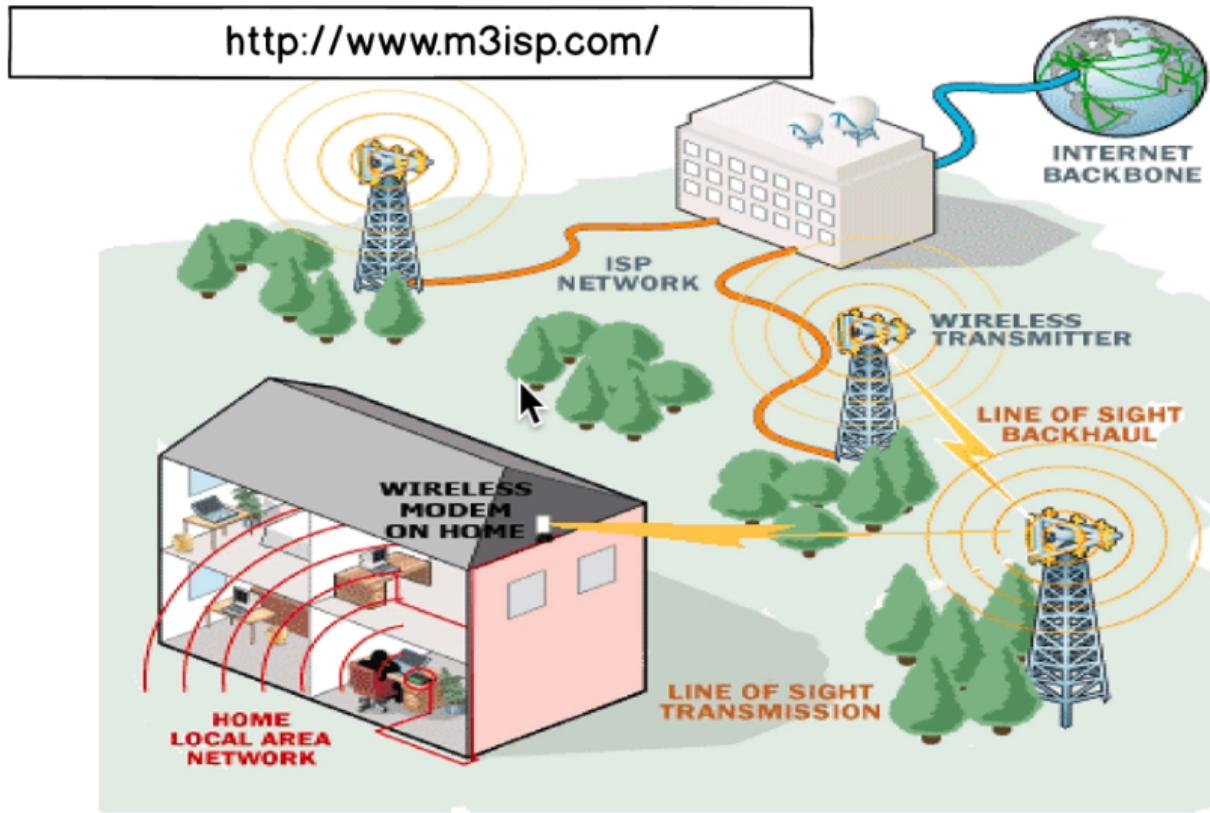
**Console** tab is to enter javascript.

Also:

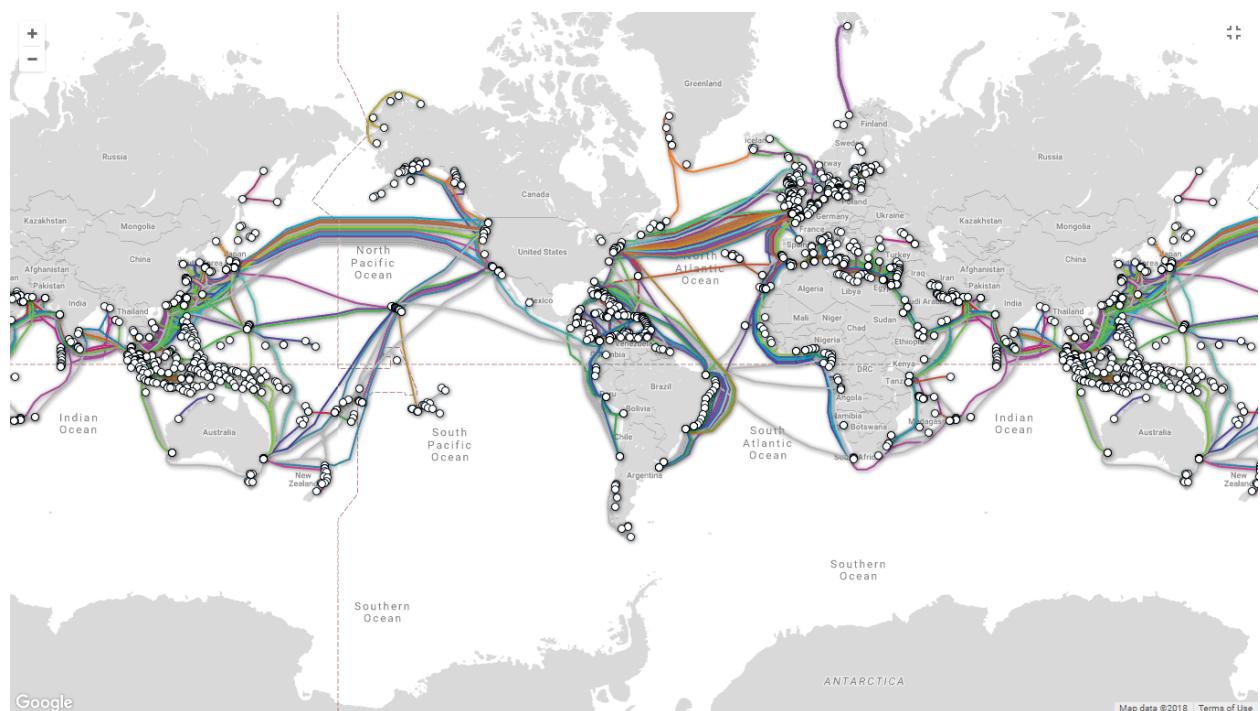
View Source (right click)

Inspect (right click) - to see code for highlighted element of webpage

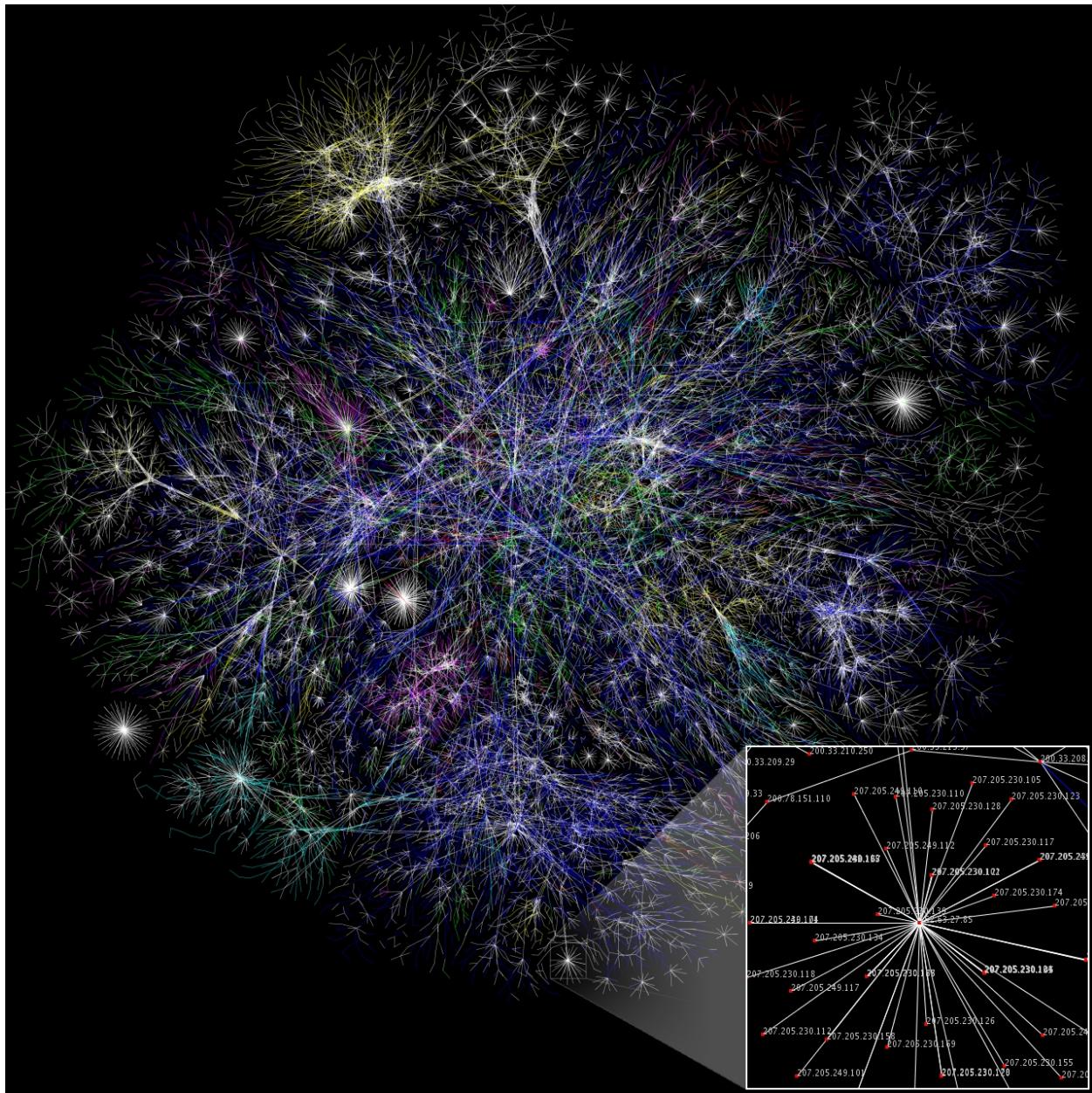
# Internet Backbone



## Internet Backbone - Physical Submarine Cables



## Map of 30 Percent of Network



# TraceRoute Exercise

*Traceroute is a command which can show you the path a packet of information takes from your computer to one you specify. It will list all the routers it passes through until it reaches its destination, or fails to and is discarded. In addition to this, it will tell you how long each 'hop' from router to router takes.*

- tracert in Windows will often return IPv6 addresses (like 2607:f8b0:4000:813::200e for instance).
- We can use tracert -4 to return IPv4 results instead
- IPv4 addresses can take us to website when put directly into a browser instead of a URL, but IPv6 addresses do not.

Exercise: Running traceroute command yourself

Section 2, Lecture 12

Open up the Terminal (Mac), or Command Prompt (Windows) and run traceroute on any website you want. Keep in mind that on windows you will have to run tracert instead of traceroute

For Mac users you can open the terminal this way: Instructions

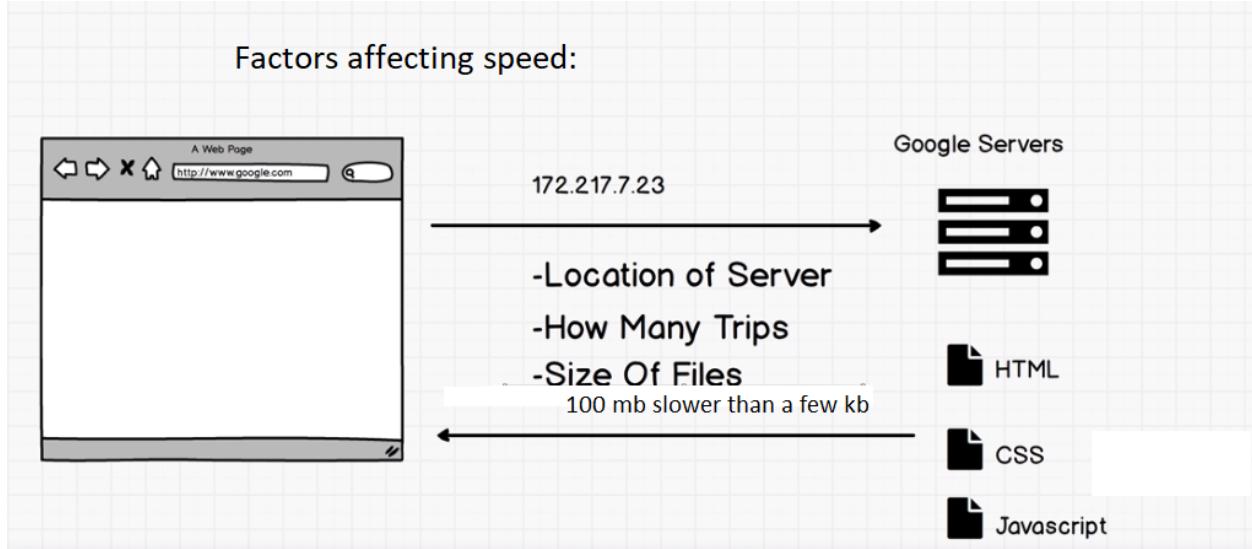
For Windows users you can open the command prompt this way: Instructions

For Windows users, to interpret tracert, check out this: <https://www.inmotionhosting.com/support/website/how-to/read-traceroute>.

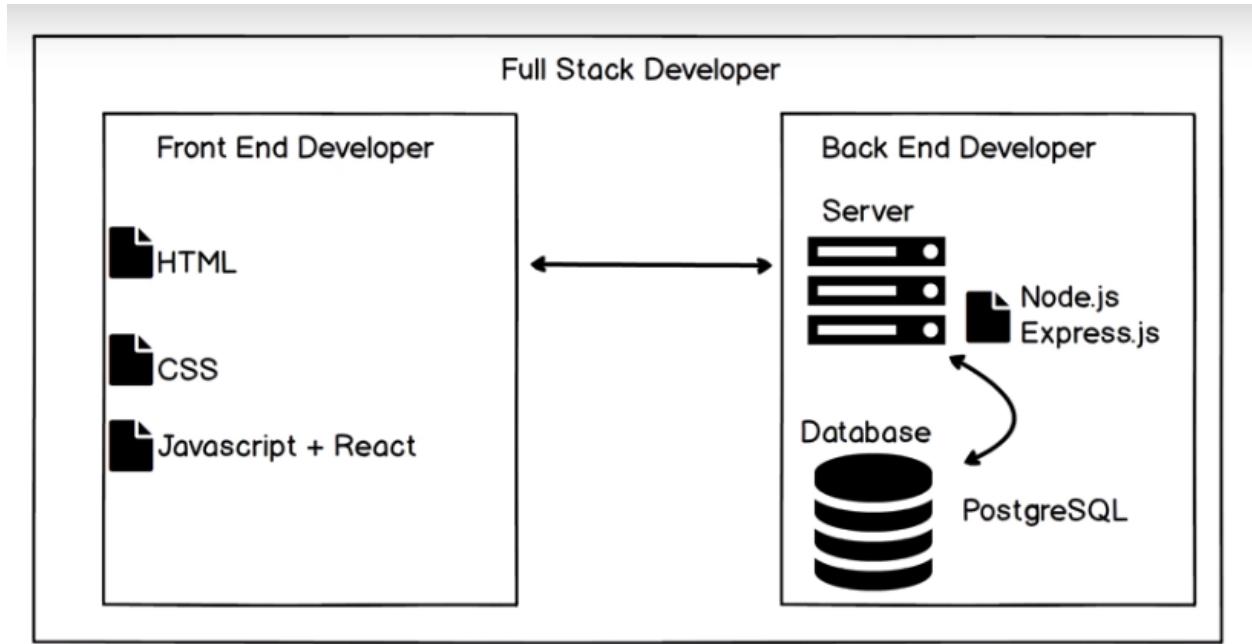
If you see the IP addresses a little bit different than in my videos or the links above: The IP addresses you see may be IPv6. In this case, you will have to run: tracert -4 google.com which forces IPv4 hops

If you see \*\*\*\*\* (asterisk) in your output: If a packet is not acknowledged within the expected timeout (5seconds), an asterisk is displayed. Sometimes this can be due to your internet connection or traceroute may show \*\*\*\* because of widespread use of firewalls and other security practices by the company that owns that server.

## Factors Affecting Speed



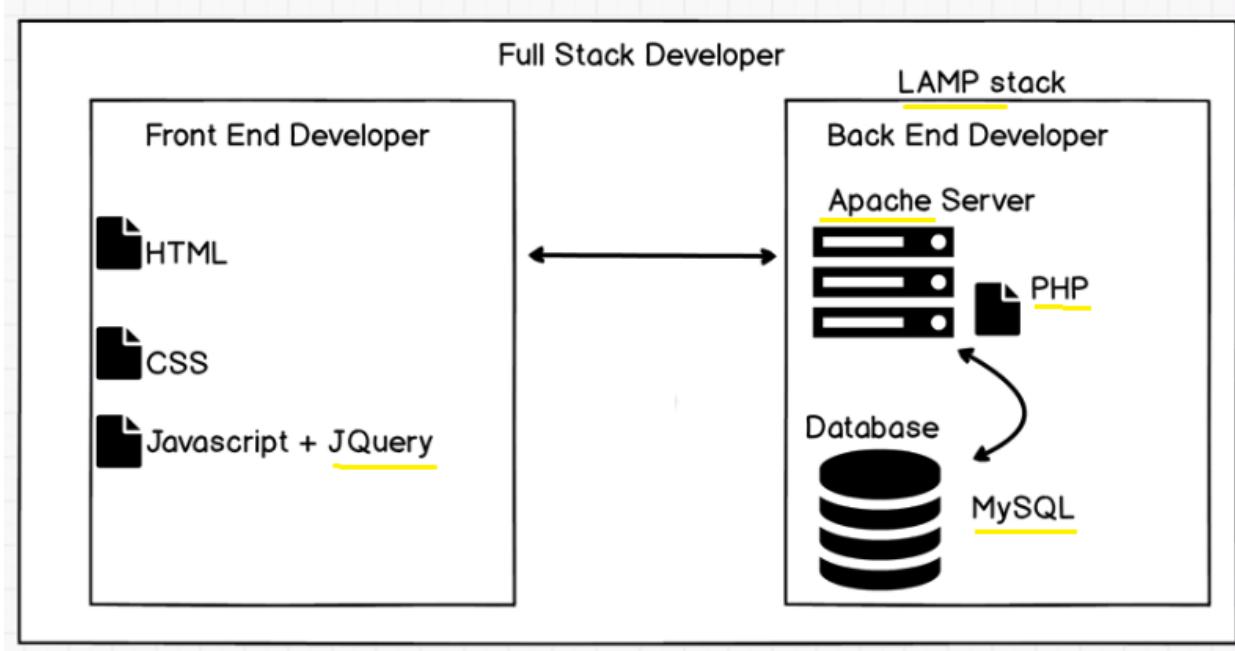
## Full Stack Developer



---

**History of the Internet:** <https://www.vox.com/a/internet-maps>

## Full Stack Dev - Old Tech



## JQuery

A library that allowed javascript to be written in a simple, clean way,

Allows to not worry about how it would work across multiple browsers

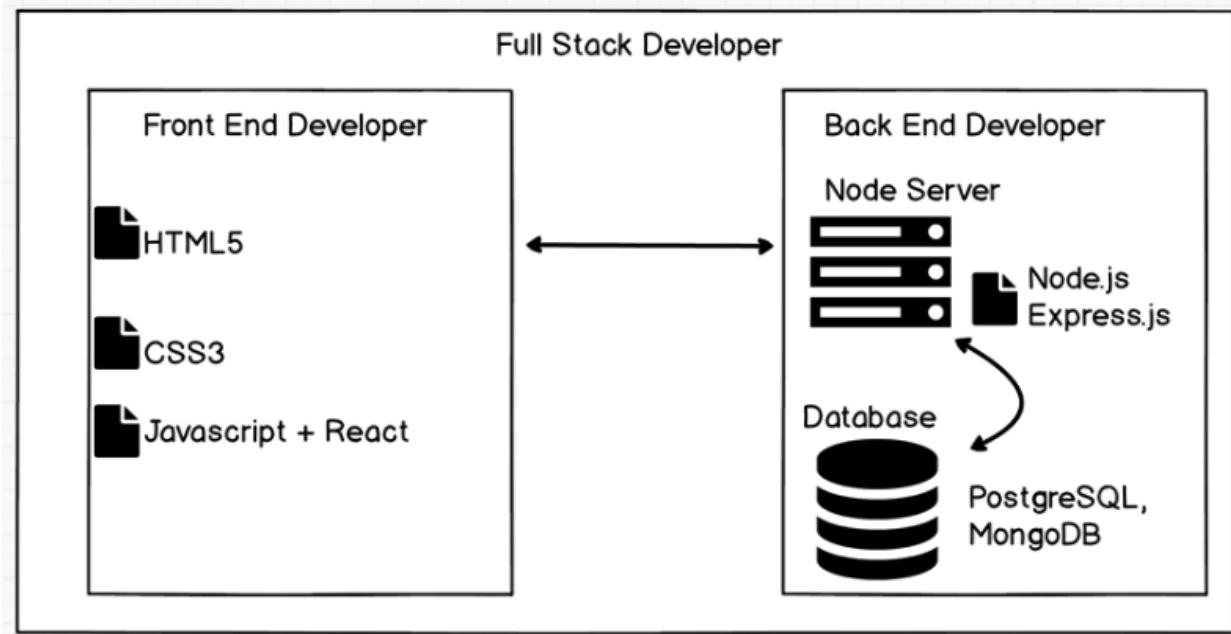
A bit outdated

## LAMP - Linux, Apache, MySQL, PHP

PHP - language to write files that have logic on the servers, used for facebook because it was built in early 2000s, unpopular now in terms of job growth

MySQL - still used

## Full Stack Dev - Current, 2018



HTML5

CSS3

Javascript

React - probably biggest and fastest growing library for javascript

Node server

Node.js

Express.js

PostgreSQL

MongoDB

# **Exercise: Adding CSS and javascript to Tim's website**

Section 3, Lecture 19

Open up Google Chrome's Developer Tools and add some CSS and javascript you learned in the previous video "HTML, CSS and Javascript" into Tim's website here: <http://info.cern.ch/hypertext/WWW/TheProject.html>

Remember:

**Elements** tab is for the HTML

**Style** tab is for the CSS

**Console** tab is to enter javascript.

- **Sublime Text 3**
- **HTML5**
- **Format of webpage:**

```
<!DOCTYPE html>

<html>
  <head>
    <title></title>
  </head>

  <body>
    </body>
</html>
```

- w3 schools is a great resource for html tags

# google-fu resources

w3schools.com

<https://developer.mozilla.org/en-US/>

<https://rubberduckdebugging.com/>

<https://stackoverflow.com/>

**Sublime Text shortcuts:** <https://www.shortcutfoo.com/app/dojos/sublime-text-3-win/cheatsheet>

**Favicon:** <https://www.favicon.cc/>

**Free Images:** <https://unsplash.com/>

**CSS:**

<https://css-tricks.com/almanac/>

+ **CSS Specificity Calculator**

<https://specificity.keegan.st/>

+ **More on cascading and inheritance**

[https://developer.mozilla.org/en-US/docs/Learn/CSS/Introduction\\_to\\_CSS/Cascade\\_and\\_inheritance](https://developer.mozilla.org/en-US/docs/Learn/CSS/Introduction_to_CSS/Cascade_and_inheritance)

+ **CSS Selector Reference**

[https://www.w3schools.com/cssref/css\\_selectors.asp](https://www.w3schools.com/cssref/css_selectors.asp)

<https://css-tricks.com/almanac/>

+ **CSS Reset code**

<https://meyerweb.com/eric/tools/css/reset/>

+ **A Full-Width Centered Navigation Bar**

<https://cssnewbie.com/full-width-centered-navigation-bar/#.Wz8ikNJKjIU>

**color picker**

<http://paletton.com/>

**Google Fonts**

<https://fonts.google.com/>

**Modular Programming Versus Object Oriented Programming**

<http://petesqbsite.com/sections/express/issue17/modularversusoop.html>

**MY GITHUB PAGE**

<https://steph-bot.github.io/>

**Great overview of everything (Vince Vacanti)**

<http://viniciusvacanti.com/2010/11/01/6-things-you-need-to-learn-to-build-your-own-prototype/>

## HTML 5 common html tags

tags = elements

by default, servers return file titled "index.html" as homepage

\*\*semantic tags for search engine crawlers: <header> <nav> <footer> etc.

<h1> heading 1

<h2> heading 2

...

<h6>

<p> paragraph

<div></div> for sections css

<span></span> for in-line css

<strong> replaces old <b> bold tag

<em> emphasis replaces old <i> italics tag

<ol> ordered list (numbered) or <ul> unordered list (bullets)

<li> list item

\*\*can nest lists

<br> line break

<hr> horizontal rule (line)

<img src="" width="40" height="40">

- this is a self closing tag: no </img> required

- attributes (add special properties to tag): src, alt(screenreaders), width, height (pixels)

<a href="">

- anchor tag for links, href=hypertext reference

<form method="GET"> \*\*\*\* default attr, shows submitted vals in url after submit (no privacy on query parameters) (can use for testing form)

vs.

<form method="POST"> \*\*\* submitted vals in body of request sent to server, not URL (use to for privacy during form submission)

<input type="text" name="textname">

<input type="email" name="email" required> \*\*can add "required" attribute like this\*\*\*

<input type="password" name="password" minlength="5">

<input type="date" name="birthday">

<input type="radio" name="gender" value="male">Male<br> \*\*can only select one gender  
radio bc same name attr\*\* \*\*might be errors here\*\*

<input type="radio" name="gender" value="female">Female<br>

<input type="radio" name="gender" value="other">Other<br>

<input type="checkbox" name="cat">Cat<br>

<input type="checkbox" name="dog">Dog<br> \*\*can select multiple checkboxes\*\*

```
<select name="cars> *** something in this section erroneous
    <option value="volvo">volvo</option>
    <option value="Audi">audi</option>
    <option value="Honda">honda</option> **can select one from
dropdown**
</select>

<select multiple></select> **can select multiple from list using ctrl** **something in this section
erroneous***
```

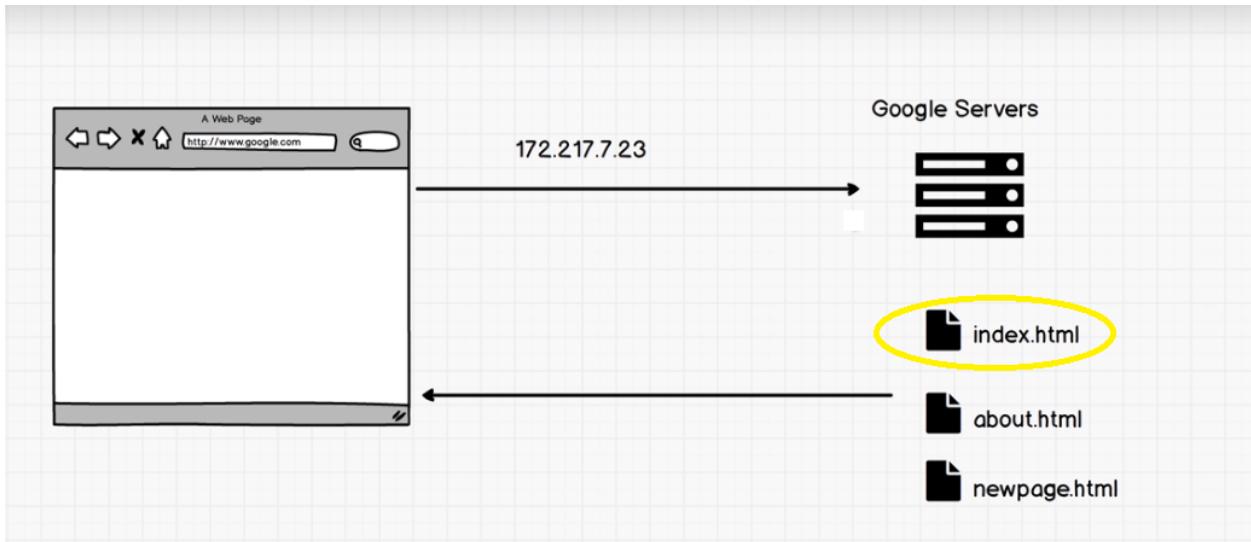
```
<input type="submit" value="Custom-Submit-Text">
<input type="reset">
</form>
```

## SUBLIME TEXT 3 SHORTCUTS

<https://generalassembly.ly/blog/sublime-text-3-tips-tricks-shortcuts/>

- shortcut to get basic html website structure in sublime text 3:
    - change doc type from plain text to html
    - type html and press tab
    - should generate above code
  - to get Lorem ipsum filler words
    - type lorem and press tab
  - can collapse tags on left side (line number)
  - link css to html file: head section of html file, type "<link" and press tab to autofill
  - ctrl+/ to comment
  - ctrl+D repeatedly to select all instances of a word
  - ctrl+click to create multiple cursors
  - ctrl+shift+A select everything inside the current HTML tag
  - ctrl+L to select line
  -

## - Index Page HTML



## Absolute vs. Relative Path

file:///  
file protocol  
"**relative**" path  
how we are viewing the sample html page we created

http://  
http protocol  
"**absolute**" path

## HTML Form - Code

```
<!DOCTYPE html>
<html>
<head>
    <title>Registration Form</title>
</head>
<body>
<h1>Registration Form</h1>
<a href="17 html website with common tags.html">home</a>

<form method="POST">
    <!-- Use GET to see form input vals in URL -->
    <!-- Use POST to have it in body (not visible in URL for privacy) -->
    First Name: <input type="text" name="firstname"><br>
    Last Name: <input type="text" name="lastname"><br>
    Email*: <input type="email" name="email" required><br>
    password: <input type="password" name="password" minlength="5">
    Birthday: <input type="date" name="birthday"><br>
    Gender:<br>
    <input type="radio" name="gender" value="male">Male<br>
    <input type="radio" name="gender" value="female">Female<br>
    <input type="radio" name="gender" value="Other">Other<br>
    Pets:<br>
    <input type="checkbox" name="cat">Cat<br>
    <input type="checkbox" name="dog">Dog<br>

    Car: <br>
    <select name="cars">
        <option value="volvo">Volvo</option>
        <option value="Audi">Audi</option>
        <option value="Honda">Honda</option>
    </select><br><br>

    Lipstick: <br>
    <select name="lipstick" multiple>
        <option value="red">Red</option>
        <option value="pink">Pink</option>
        <option value="nude">Nude</option>
    </select><br><br>

    <input type="submit" value="Register!!!">
    <input type="reset">
</form>
</body>
</html>
```

## HTML Form - Result

### Registration Form

[home](#)

First Name:

Last Name:

Email\*:

password:  Birthday:

Gender:

Male  
 Female  
 Other

Pets:

Cat  
 Dog

Car:

Lipstick:

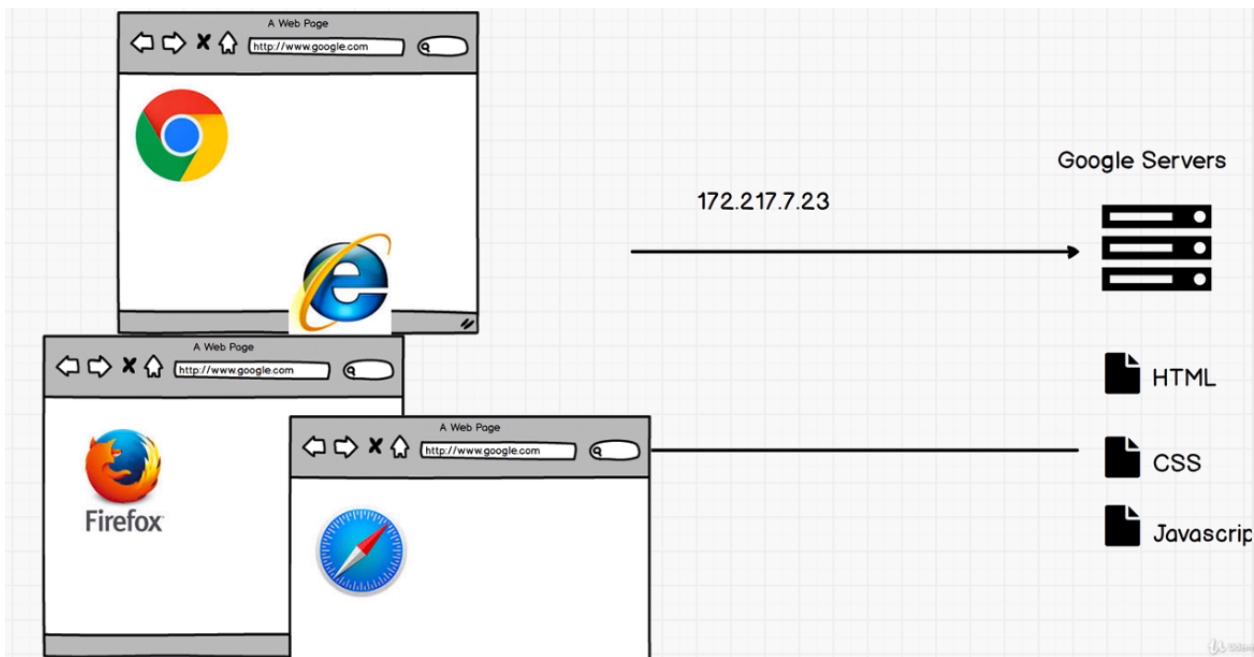
Red  
 Pink  
 Nude

### query strings returned form method GET

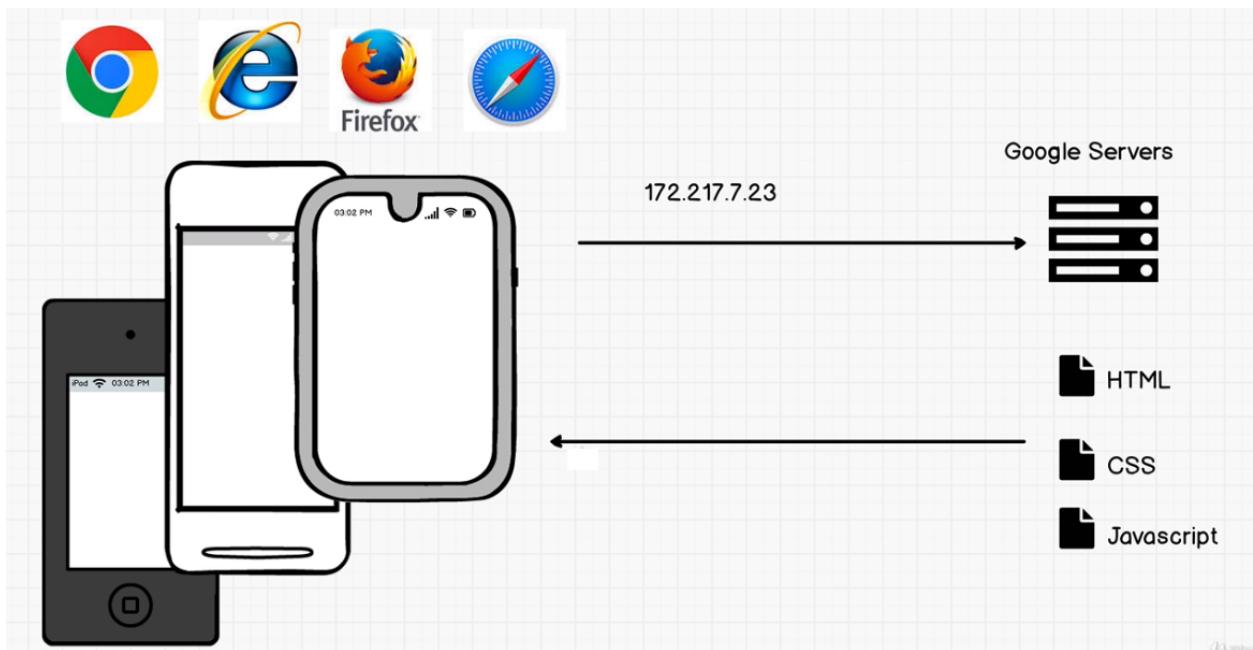
Query strings

file:///C:/Users/stephanie/Documents/  
Udemy%20course%20Complete%20Web%20Dev%202018%20Zero%20to%20Mastery%20  
with%20Andrei/23%20form.html  
? **\*\*\*means data coming up\*\*\***  
firstname=stephanie **\*\*firstname = name/property, stephanie = value\*\***  
&lastname=mathew  
&email=stephanie.mathew%40hotmail.com **\*\*URL encoding changes @ to %40\*\***  
&password=password1234  
&birthday=1990-06-11  
&gender=female  
&cat=on  
&cars=Honda  
&lipstick=red  
&lipstick=pink

## browsers and html



## phones and html



Default  
Home  
About  
Login

Home

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea

← → C file:///Users/stepha/Documents/Classes/5%20Web%20Dev%20Zero%20to%20Mastery%20Andrei%20Udemy%20-%20Summer%202018/27.2%20about.html

Apps python class hcc lo... art/design programmer

Home About Login

About: Let's Look at Different Text!

p {  
color: pink;  
text-decoration: underline;  
text-decoration: line-through;  
text-transform: uppercase;  
text-transform: lowercase;  
line-height: 50px;  
font-style: italic;  
font-weight: bold;  
font-size: 180%;  
font-family: "georgia", "times new roman", ~~font-family: 'poiret one', cursive, /\*google font\*/~~  
}

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

(5) M × The C × uhoo: × AWS × New Tab × 6 Thi × Intro × Google use tr × Regis × My fir ×

← → C file:///Users/stepha/Documents/Classes/5%20Web%20Dev%20Zero%20to%20Mastery%20Andrei%20Udemy%20-%20Summer%202018/27.3%20login.html

Apps python class hcc lo... art/design programmer

- Home
- About
- Login

## Login

A	B	C
---	---	---

## 27.1 index.html

```
<!DOCTYPE html>
<html>
<head>
    <title>My first website!</title>
    <link rel="stylesheet" type="text/css" href="27.4 style.css"> <!-- 1: links to css file -->

    <!-- <style>
        p{background-color: purple}
    </style> -->
    <!-- 2: css via style tag -->
</head>
<body>
    <button class="btn btn-primary">Default</button>
    <header>
        <!-- <header style="background-color: green; color:red"> -->
            <!-- 3: in-line css styling -->
        <nav>
            <ul>
                <li>Home</li>
                <li><a href="27.2 about.html">About</a></li>
                <li><a href="27.3 login.html">Login</a></li>
            </ul>
        </nav>
    </header>
    <section>
        <h2>Home</h2>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod
tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non
proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem
ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod
tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod
tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non
proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem
ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod
tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>
    </section>
</body>
</html>
```

## 27.4 style.css

```
/*
Selector {
    Property: value;
}

/*-----RESET CSS-----*/
/* http://meyerweb.com/eric/tools/css/reset/
v2.0 | 20110126
License: none (public domain)
*/

html, body, div, span, applet, object, iframe,
h1, h2, h3, h4, h5, h6, p, blockquote, pre,
a, abbr, acronym, address, big, cite, code,
del, dfn, em, img, ins, kbd, q, s, samp,
small, strike, strong, sub, sup, tt, var,
b, u, i, center,
dl, dt, dd, ol, ul, li,
fieldset, form, label, legend,
table, caption, tbody, tfoot, thead, tr, th, td,
article, aside, canvas, details, embed,
figure, figcaption, footer, header, hgroup,
menu, nav, output, ruby, section, summary,
time, mark, audio, video {
    margin: 0;
    padding: 0;
    border: 0;
    font-size: 100%;
    font: inherit;
    vertical-align: baseline;
}
/* HTML5 display-role reset for older browsers */
article, aside, details, figcaption, figure,
footer, header, hgroup, menu, nav, section {
    display: block;
}
body { line-height: 1; }

ol, ul { list-style: none; }

blockquote, q { quotes: none; }

blockquote:before, blockquote:after,
q:before, q:after {
    content: "";
    content: none;
}

table {
```

```
border-collapse: collapse;
border-spacing: 0;
}

/*-----END RESET CSS-----*/



.primary-nav{
background-color:rgba(255, 176, 170, 0.5);
margin: auto;
max-width: 200%;
/*width: 90%;*/
/*border: 3px solid white;*/
padding: 0px;
text-align: center;
font-size: 25px;
}

.primary-nav__item{
display: inline-block;
padding: 18px;
}

.primary-nav__item:hover{
color:white;
background-color:rgba(255, 176, 0, 0.5);
background: linear-gradient(rgba(255, 176, 0, 0), rgba(255, 176, 0, 0.8));
border-bottom-left-radius: 25px
}

.primary-nav__link{
color: yellow;
text-decoration: none;
background-color: rgba(0, 176, 0, 0.5);
padding: 118px;
border-bottom-left-radius: 25px
}

.primary-nav__link:hover{
color: yellow;
text-decoration: none;
background-color: rgba(0, 80, 0, 0.5);
background: linear-gradient(rgba(255, 176, 0, 0.5), rgba(255, 176, 0, 0));
padding: 118px;
}

/*li{
display: inline;
}*/



body {
background-image: url(27.5background-munnar.jpg);
background-size: cover;
}
```

```
h2 {  
    color: #FFB0AA;  
    text-align: center;  
    border: 5px solid rgba(255, 176, 170, 0.5);  
    cursor: pointer;  
}  
  
p {  
    color:pink;  
    text-decoration: underline;  
    text-decoration: line-through;  
    text-transform: uppercase;  
    text-transform: lowercase;  
    line-height: 50px;  
    font-style: italic;  
    font-weight: bold;  
    font-size: 180%;  
    font-family: "Georgia", "Times New Roman";  
    font-family: 'Poiret One', cursive; /*GOOGLE*/  
}  
  
img{  
    float: left; /*use for imgs, not other elements*/  
}  
  
footer{  
    clear: both; /*clears float from footer*/  
  
    color:pink;  
    text-align: center;  
    text-decoration: underline;  
    text-decoration: line-through;  
    text-transform: uppercase;  
    text-transform: lowercase;  
    line-height: 5px;  
    font-style: italic;  
    font-weight: bold;  
    font-size: 180%;  
}  
.list {  
    background-color:rgba(255, 176, 170, 0.5);  
}
```

## 27.2 about.html

```
<!DOCTYPE html>
<html>

<head>
    <link rel="icon" type="image/png" href="27.6-favicon.ico?v=2">
    <title>My first website!</title>
    <link rel="stylesheet" type="text/css" href="27.4 style.css">

    <!-- ADD GOOGLE FONT -->
    <link href="https://fonts.googleapis.com/css?family=Poiret+One" rel="stylesheet">
    <!-- END ADD GOOGLE FONT -->

</head>

<body>
    <header>
        <nav>
            <ul>
                <li><a href="index.html">Home</a></li>
                <li>About</li>
                <li><a href="27.3 login.html">Login</a></li>
            </ul>
        </nav>
    </header>
    <section>
        <h2>About: Let's Look at Different Text!</h2>
        <p>
            p {<BR>
                color: pink; <BR>
                text-decoration: underline; <BR>
                text-decoration: line-through; <BR>
                text-transform: uppercase; <BR>
                text-transform: lowercase; <BR>
                line-height: 50px; <BR>
                font-style: italic; <BR>
                font-weight: bold; <BR>
                font-size: 180%; <BR>
                font-family: "Georgia", "Times New Roman"; <<PRIMARY FONT,
                BACKUP FONT><BR>
                font-family: 'Poiret One', cursive; /*GOOGLE FONT*/ <BR>
            }<BR>
            Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod
            tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
            quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
            consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
            cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non
            proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>
        </p>
    </section>
</body>
</html>
```

## 27.3 login.html

```
<!DOCTYPE html>
<html>
<head>
    <link rel="icon" type="image/png" href="27.6-favicon.ico?v=2">
    <title>My first website!</title>
    <link rel="stylesheet" type="text/css" href="27.4 style-login.css">
</head>
<body>
    <header>
        <nav>
            <ul>
                <li><a href="index.html">Home</a></li>
                <li><a href="27.2 about.html">About</a></li>
                <li>Login</li>
            </ul>
        </nav>
    </header>
    <section>
        <h2>Login</h2>
        <div class="boxmodel">A</div>
        <div class="boxmodel">B</div>
        <div class="boxmodel">C</div>
    </section>
</body>
</html>
```

## 27.4 style-login.css

```
h2{
    color: blue;
}

.boxmodel {
    border: 5px solid red;
    display: inline-block;

    padding: 20px;
    /*all around*/

    padding: 5px 20px 5px 30px;
    /*top, right, bottom, left*/
}

padding: 5px 20px;
/*top/bottom, left/right*/

margin: 2px 20px 2px 20px;
/*top, right, bottom, left*/

margin: 2px 20px;
/*top/bottom, left/right*/

width: 33px; /*content width*/
height: 55px; /*content height*/
}
```

# Website with Common HTML Tags



**Header 1**

**Header 2**

**Header 3**

**Header 4**

**Header 5**

**Header 6**

[Form](#)

[SampleLink](#)

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- 1. banana
- 2. orange
- 3. apple

- banana
- orange
- apple
  - fuji
  - honey crisp

- kiwi

```
<!DOCTYPE html>
  <html>
    <head>
      <title>Sample Website</title>
    </head>

    <body>
      <header> <!-- this tag For search engine crawlers -->
        <h1>Header 1</h1>
        <h2>Header 2</h2>
        <h3>Header 3</h3>
        <h4>Header 4</h4>
        <h5>Header 5</h5>
        <h6>Header 6</h6>
      </header>

      <a href="23 form.html">Form</a>
      <br><br>

      <a href="20 linked page.html">SampleLink</a>

      <hr>
```

```
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<ol>  
    <li>banana</li>  
    <li>orange</li>  
    <li>apple</li>  
</ol>  
  
<ul>  
    <li>banana</li>  
    <li>orange</li>  
    <li>apple</li>  
    <ul>  
        <li>fuji</li>  
          
        <li>honey crisp</li>  
          
    </ul>  
    <li>kiwi</li>  
</ul>  
  
</body>  
</html>
```