

Chapter 7 Building Website with HTML and CSS

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Chapter 7 Outline

- Introduction
- Building the Search website
- Building the Company website
- Exercise 1~4



Introduction (1/2) Website building process

- Requirements analysis
 - Goal
 - Budget and schedule
- Design
 - ▶ Function
 - Menu
 - Navigation structure
- Creating an HTML document
 - Implement function
 - Menu implementation
- Creating CSS styles
 - ► Color, font

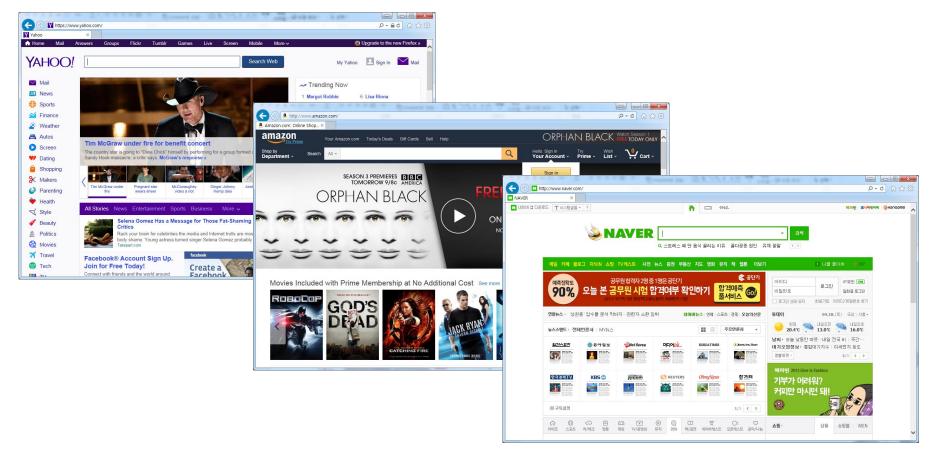


[The 7 Steps to Creating Custom Websites]



Introduction (2/2) Building website

- We are experienced in various websites.
- The layout of many websites has a similar layout overall.

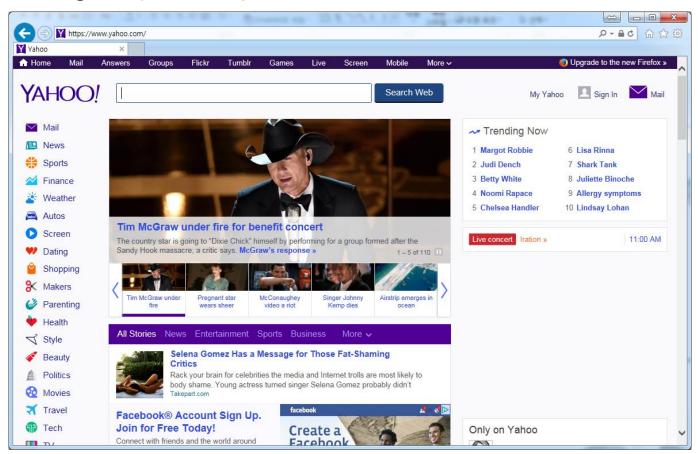


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Building the Search website Introduction (1/3)

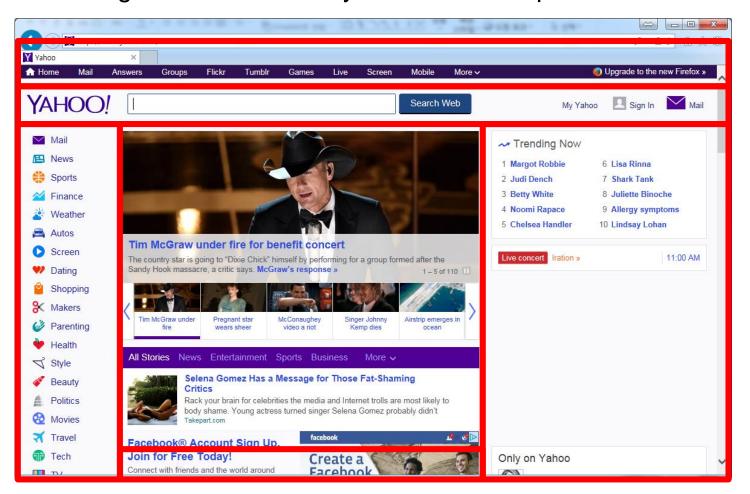
Based on what we have learned previously, we will make a whole layout through http://www.yahoo.com





Building the Search website Introduction (2/3)

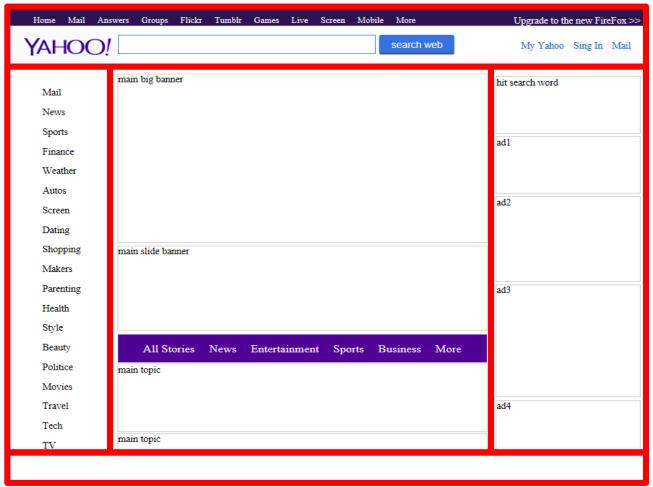
A search engine website usually consists of six parts.





Building the Search website Introduction (3/3)

A search engine website usually consists of six parts.



Source: https://drive.google.com/drive/folders/1eDGp02uDkJdELXfjuPNOzMpEK4gOoBZm



Building the Search website Overall layout (1/10)

```
<!DOCTYPE html>
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
    <title></title>
    <style>
        body {
            font-family: 'Times New Roman', Times, serif;
            margin:0;
        a {text-decoration:none}
        header {
            width:99%;
            margin:0;
            border:1px solid #ccccc;
                                              exercise1.html
```



Building the Search website Overall layout (2/10)



```
#header_nav {
           width:100%;
           overflow:hidden;
           background-color:#2d1152;
       #header nav li{
           font-size:0.9em;
           color:#ffffff;
           margin-right:20px;
           list-style:none;
           float:left;
       #header_nav .firefox {
           float:right;
           margin:0 10px 0 0;
```



Building the Search website Overall layout (3/10)



```
#header_nav .firefox a {
           color:#ffffff;
       #header_info {
           width:1000px;
           margin:0 auto;
       #header info div {
           margin-top:10px;
           float:left;
       #header info .search input {
           width:400px;
           font-size:20px;
           border:1px solid #3488d9;
           margin-top:6px;
           padding:5px;
```

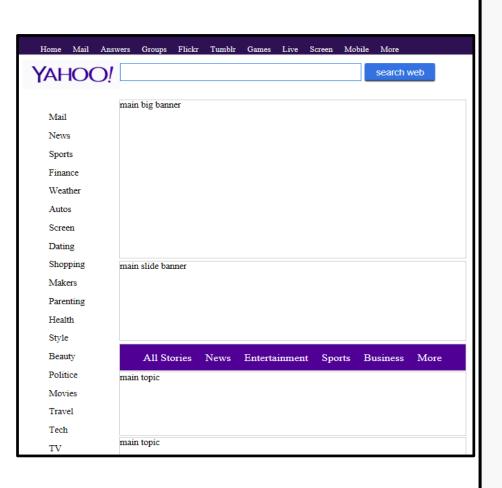


Building the Search website Overall layout (4/10)

```
#header info .btn search {
           width:124px; height:38px;
           background:url(./search_btn.png) no-repeat 0 0;
           border:0;
       #header_info .txt_sw {
           color:#ffffff;
           font-size:1.2em;
       #header info .service {
           float:right;
       #header info .service ul li{
           float:left;
           list-style:none;
           margin-right:15px;
```



Building the Search website Overall layout (5/10)



```
#content {
           width: 1000px;
           margin:0 auto;
           margin-top:85px;
           overflow:hidden;
       #content #main nav {
           width:155px;
           float:left;
       #content ul li {
           list-style:none;
           line-height:35px;
       #content #main {
           width:600px;
           margin-left:5px;
           float:left;
```



Building the Search website Overall layout (6/10)

```
#content #main div {
           border:1px solid #cccccc;
       #content #main div:nth-child(1) {
           width:590px; height:300px;
       #content #main div:nth-child(2) {
           width:590px; height:150px;
           margin-top:5px;
       #content #main div:nth-child(3) {
           width:590px; height:50px;
           margin-top:5px;
           background-color: #500095;
       #content #main div:nth-child(3) ul {
           margin:8px 0 0 0;
```



Building the Search website Overall layout (7/10)

```
#content #main div:nth-child(3) ul li {
            list-style:none;
            float:left;
            margin-right:23px;
            color:#ffffff;
            font-size:1.2em;
        #content #main div:nth-child(4) {
            width:590px; height:120px;
            margin-top:2px;
        #content #main div:nth-child(5) {
            width:590px; height:120px;
            margin-top:2px;
        #content #main div:nth-child(6) {
            width:590px; height:120px;
            margin-top:2px;
```



Building the Search website Overall layout (8/10)

```
#content #main div:nth-child(7) {
           width:590px; height:120px;
           margin-top:2px;
       #content #main banner {
           width:230px;
           margin-left:5px;
           float:left;
       #content #main banner div {
           border:1px solid #cccccc;
       #content #main banner div:nth-child(1) {
           width:230px; height:100px;
           margin-top:5px;
```



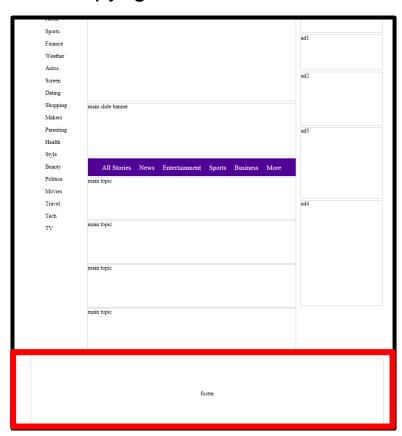
Building the Search website Overall layout (9/10)

```
#content #main_banner div:nth-child(2) {
           width:230px; height:100px;
           margin-top:5px;
       #content #main banner div:nth-child(3) {
           width:230px; height:150px;
           margin-top:5px;
       #content #main banner div:nth-child(4) {
           width:230px; height:200px;
           margin-top:5px;
       #content #main banner div:nth-child(5) {
           width:230px; height:300px;
           margin-top:5px;
```



Building the Search website Overall layout (10/10)

The footer is located at the bottom and displays company information and copyright.





Building the Search website Main header (1/2)

Groups Flickr Tumblr Games Live Screen Mobile More Upgrade to the new FireFox >> <body> <header> <div id="header nav"> <div> Home Mail Answers Groups Flickr Tumblr Games Live Screen Mobile More </div>

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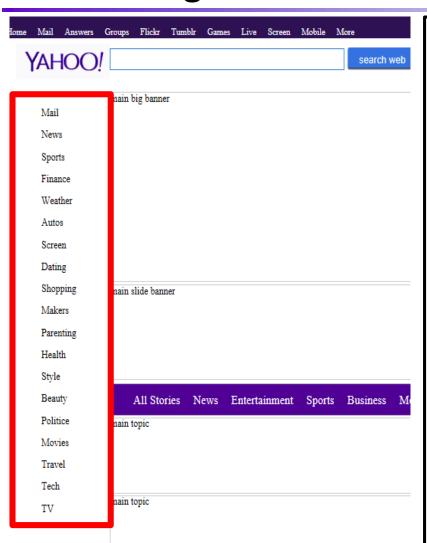
Building the Search website Main header (2/2)

YAHOO! search web My Yahoo Sing In Mail

```
<div class="firefox">
              <a href="#none">Upgrade to the new FireFox >></a>
           </div>
       </div>
       <div id="header info">
           <div class="logo"><img src="yahoo logo.png" alt="yahoo.com"</pre>
logo"/></div>
           <div class="search">
              <input type="text" />
              <button type="submit" class="btn search"><span</pre>
class="txt sw">search web</span></button>
           </div>
           <div class="service">
              <a href="#none">My Yahoo</a>
                  YAHOO!
              </div>
       </div>
   </header>
```



Building the Search website Main navigator



```
<div id="content">
    <div id="main nav">
      <l
        Mail
        News
        Sports
        Finance
        Weather
        Autos
        Screen
        Dating
        Shopping
        Makers
        Parenting
        Health
        Style
        Beauty
        Politice
        Movies
        Travel
        Tech
        TV
      </div>
```



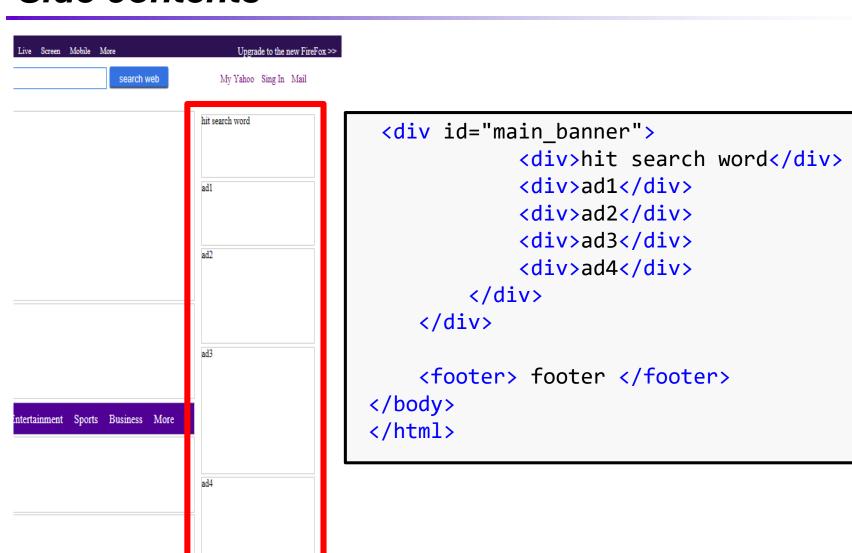
Building the Search website Main banner and topic



```
<div id="main">
         <div>main big banner</div>
         <div>main slide banner</div>
         <div>
            <u1>
               All Stories
               News
               Entertainment
               Sports
               Business
               More
            </div>
         <div>main topic</div>
         <div>main topic</div>
         <div>main topic</div>
         <div>main topic</div>
     </div>
```



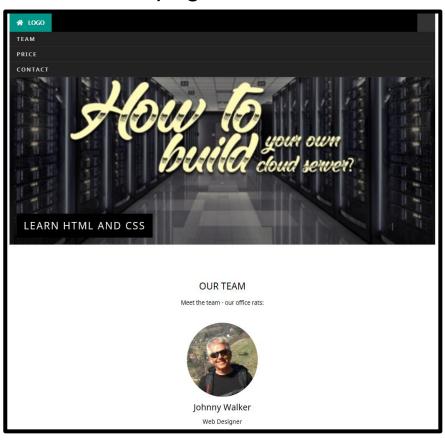
Building the Search website Side contents

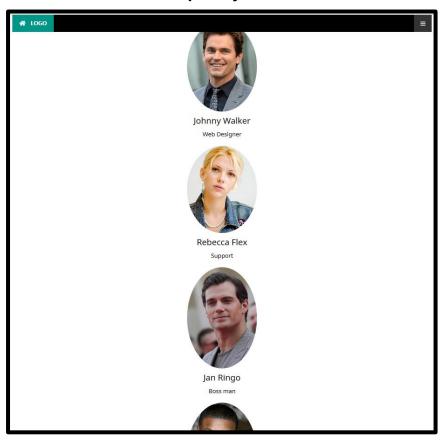




Building the Company website Overall layout (1/3)

- We will create a website that introduces the company.
- This web page includes an introduction of the company and workers.

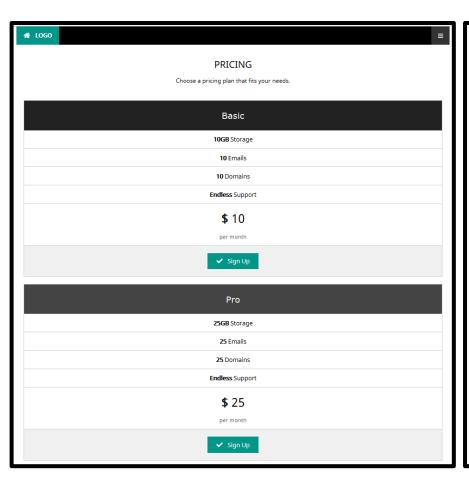


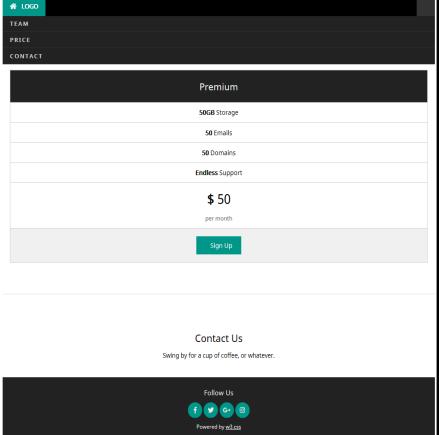




Building the Company website Overall layout (2/3)

It also includes company product and location contacts.

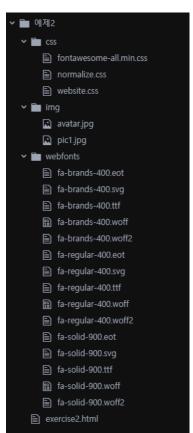






Building the Company website Overall layout (3/3)

- The files needed for implementation are in Google Drive.
- The menu on the homepage is structured as follows.





Source: https://drive.google.com/drive/folders/1eDGp02uDkJdELXfjuPNOzMpEK4gOoBZm



Building the Company website Header and main page (1/3)

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="x-ua-compatible" content="ie=edge">
 <meta name="viewport" content="width=device-width,initial-</pre>
scale=1,shrink-to-fit=no">
 <title>LEARN WEB Template</title>
 <meta name="description" content="">
 <link rel="stylesheet" href="css/fontawesome-all.min.css">
 <link rel="stylesheet" href="css/normalize.css">
 <link rel="stylesheet" href="css/website.css">
</head>
<body>
<dl class="skip">
 <dt class="blind"><strong>skip navigation</strong></dt>
 <dd><a href="#container">skip to Content</a></dd>
</dl>
                                                        Exercise2.html
```



Building the Company website Header and main page (2/3)

```
<hr>>
<div id="wrap">
<!-- header -->
<header id="header" class="clearfix">
<h1 class="logo"><a href="#"><i class="fas fa-home"></i> Logo</a></h1>
<nav>
     <a href="#">Team</a>
            <a href="#">Price</a>
            <a href="#">Contact</a>
     </nav>
</header>
<!-- //header -->
```



Building the Company website Header and main page (3/3)

skip navigation skip to Content

Logo

- Team
- · Price
- Contact

Learn HTML and CSS



[img/pic1.jpg]

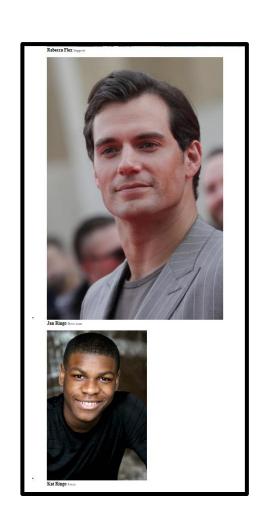


Building the Company website Team content (1/2)

```
<!-- container -->
<div id="container">
<!-- team -->
<section class="team">
     <h3 class="tle">OUR TEAM</h3>
     Meet the team - our office rats:
     class="human">
            <
                   <figure>
                           <img src="img/avatar.jpg" alt="">
                           <figcaption>
                                  <strong>Johnny Walker</strong>
                                  <small>Web Designer</small>
                           </figcaption>
                   </figure>
```



Building the Company website Team content (2/2)



```
<1i>>
      <figure>
              <img src="img/avatar.jpg" alt="">
              <figcaption>
              <strong>Rebecca Flex</strong>
              <small>Support</small>
              </figcaption>
      </figure>
 <
      <figure>
              <img src="img/avatar.jpg" alt="">
              <figcaption>
              <strong>Kai Ringo</strong>
              <small>Fixer</small>
              </figcaption>
      </figure>
 </section>
 <!-- //team -->
```



Building the Company website Pricing content (1/3)

```
<!-- pricing -->
<section class="pricing">
 <h3 class="tle">PRICING</h3>
 Choose a pricing plan that fits your needs.
 <d1>
       <dt><strong>Basic</strong></dt>
       <dd>>
               <strong>10GB</strong> Storage
               <strong>10</strong> Emails
               <strong>10</strong> Domains
               <strong>Endless</strong> Support
               <span class="pay"><strong>$</strong>
<em>10</em></span> <span>per month</span>
               <a href="#"><i class="fas fa-check"></i></i>
Sign Up</a>
                                                           PRICING
       </dd>
 </dl>
                                                           Choose a pricing plan that fits your needs.
                                                           Basic

    10GB Storage

    10 Emails

    10 Domains

    Endless Support

                                                               • $ 10 per month
```

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Sign Up



Building the Company website Pricing content (2/3)

```
<dl class="pro">
   <dt><strong>Pro</strong></dt>
   <dd>
     <l
       <strong>25GB</strong> Storage
       <strong>25</strong> Emails
       <strong>25</strong> Domains
       <strong>Endless</strong> Support
       <span class="pay"><strong>$</strong> <em>25</em></span>
<span>per month</span>
     <a href="#"><i class="fas fa-check"></i> Sign
Up</a>
   </dd>
                                           Pro
  </dl>

    25GB Storage

    25 Emails

    25 Domains

    Endless Support

                                                 • $ 25 per month
                                               Sign Up
```



Building the Company website Pricing content (3/3)

```
<d1>
   <dt><strong>Premium</strong></dt>
   <dd>>
     Zul>
       <strong>50GB</strong> Storage
       <strong>50</strong> Emails
       <strong>50</strong> Domains
       <strong>Endless</strong> Support
       <span class="pay"><strong>$</strong> <em>50</em></span>
<span>per month</span>
     <a href="#"><i class="fas fa-check"></i> Sign
Up</a>
   </dd>
                                      Premium
 </dl>
</section>
<!-- //pricing -->
```

- 50GB Storage
- 50 Emails
- 50 Domains
- Endless Support
- \$ 50 per month

Sign Up



Building the Company website Footer (1/2)

```
<section class="contact">
      <h3 class="tle">Contact Us</h3>
      Swing by for a cup of coffee, or whatever.
</section>
<!-- //contact -->
</div>
<!-- //container -->
                                                         Contact Us
                                                         Swing by for a cup of coffee, or whatever.
                                                         Follow Us
                                                         sns Link
                                                             Go facebook
                                                             Go twitter
                                                             Go google plus
                                                             Go instagram
                                                         Powered by w3.css
```



Building the Company website Footer (2/2)

```
<footer id="footer">
 <strong>Follow Us</strong>
 <d1>
       <dt class="blind"><strong>sns Link</strong></dt>
       <dd><a href="#"><i class="fab fa-facebook-f"></i> <span</pre>
<dd><a href="#"><i class="fab fa-twitter"></i> <span</pre>
class="blind">Go twitter</span></a></dd>
       <dd><a href="#"><i class="fab fa-google-plus-g"></i> <span</pre>
class="blind">Go google plus</span></a></dd>
       <dd><a href="#"><i class="fab fa-instagram"></i> <span</pre>
class="blind">Go instagram</span></a></dd>
 </dl>
                                                          Contact Us
 Powered by <a href="#">w3.css</a>
                                                          Swing by for a cup of coffee, or whatever.
 </footer>
                                                          Follow Us
</div>
                                                          sns Link
                                                            Go facebook
</body>
                                                            Go twitter
                                                            Go google plus
</html>
                                                            Go instagram
                                                          Powered by w3.css
```



Building the Company website Website.css (1/11)

```
@charset "utf-8";
@import url('https://fonts.googleapis.com/css?family=Noto+Sans');
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,
                                                     Google (4 styles)
small, strike, strong, sub, sup, tt, var,
b, u, i, center,
                                                     Almost before we
dl, dt, dd, ol, ul, li,
                                                     knew it, we had left
fieldset, form, label, legend,
                                                     the ground.
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;
                                                         website.css
```



Building the Company website Website.css (2/11)

```
/* 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;
```



Building the Company website Website.css (3/11)

```
/* reset */
body {
 padding-top: 50px;
 font-family: 'Noto Sans', sans-
serif;
 font-size: 14px;
.blind {
 display: block;
 position: absolute;
 left: 0;
 top: -9999em;
 overflow: hidden;
.skip a {
 position: absolute;
 left: 0;
 top: -9999em;
 z-index: 9999;
 display: block;
 width: 100%;
 background-color: navy;
 color: #efefef;
```

```
text-decoration: none;
 text-align: center;
 line-height: 2;
.skip a:focus {
 top: 0;
.clearfix {
 *zoom: 1;
.clearfix:after {
 content: '';
 display: block;
 clear: both;
hr {
 display: none;
/* style */
#wrap {
 max-width: 1200px;
 margin: 0 auto;
```



Building the Company website Website.css (4/11)



```
#header {
 position: fixed;
 top: 0;
 z-index: 30;
 width: 100%;
 max-width: 1200px;
 background-color: #000;
#header .logo {
 float: left;
#header .logo a {
 display: block;
 padding: 0 20px;
 background-color: #009688;
 color: #fff;
 font-size: 16px;
 font-weight: bold;
 text-decoration: none;
 text-transform: uppercase;
 line-height: 50px;
#header .logo a:hover {
 background-color: #ccc;
 color: #000;
```



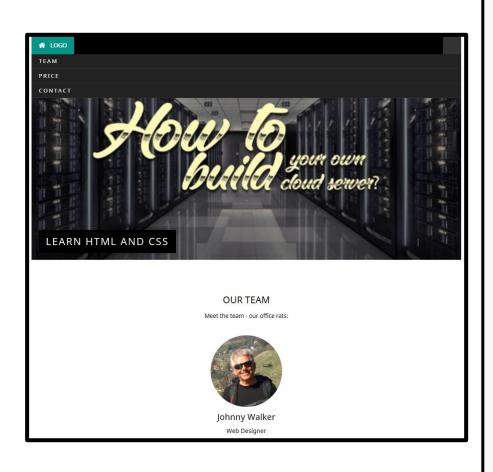
Building the Company website Website.css (5/11)

```
TEAM
PRICE
CONTACT
```

```
#header .logo a i {
 margin-right: 10px;
#header .btn nav {
 float: right;
 width: 50px;
 height: 50px;
 border: 0:
 background-image: none;
 background-color: #333;
 color: #eee;
 font-size: 16px;
 line-height: 50px;
 cursor: pointer;
#header .btn nav:hover {
 background-color: #ccc;
 color: #000;
#header .lnb {
 position: absolute;
 top: 50px;
 width: 100%;
```



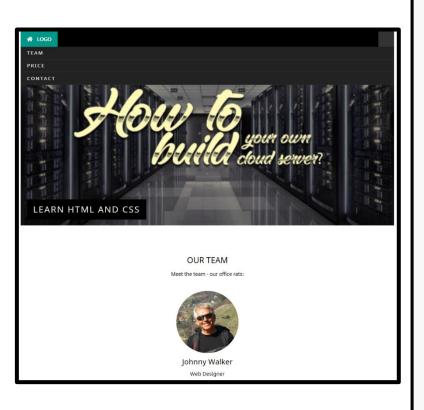
Building the Company website Website.css (6/11)



```
#header .lnb li a {
 display: block;
 padding-left: 20px;
 border-bottom: 1px solid #333;
 background-color: #222;
 color: #ccc;
 font-size: 15px;
 font-weight: bold;
 line-height: 40px;
 text-decoration: none;
 text-transform: uppercase;
 letter-spacing: .2em;
#header .lnb li a:hover {
 background-color: #ddd;
 color: #000;
.visual {
 position: relative;
 z-index: 20;
```



Building the Company website Website.css (7/11)



```
.visual .tle {
 position: absolute;
 bottom: 20px;
 left: 20px;
 z-index: 10;
 padding: 0 20px;
 background-color: #000;
 color: #eee;
 font-size: 2em;
text-transform: uppercase;
 letter-spacing: .1em;
 line-height: 65px;
 cursor: pointer;
.visual .tle:hover {
background-color: #009688;
 color: #fff:
.visual .pic {
position: relative;
 z-index: 5;
.visual .pic img {
width: 100%;
 -webkit-filter: sepia(0.6) grayscale(0.5);
 -o-filter: sepia(0.6) grayscale(0.5);
 filter: sepia(0.6) grayscale(0.5);
```



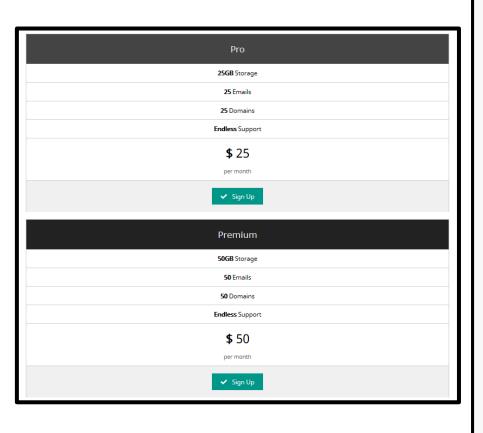
Building the Company website Website.css (8/11)



```
#container {
 text-align: center;
#container .team {
 padding: 80px 0 60px;
 border-bottom: 1px solid #ddd;
#container .team .tle {
 font-size: 26px;
 line-height: 60px;
#container .team .desc {
 margin-bottom: 40px;
 font-size: 16px;
 line-height: 30px;
#container .human figure img {
 width: 200px;
 border-radius: 50%;
#container .human figcaption {
 margin-bottom: 20px;
```



Building the Company website Website.css (9/11)



```
#container .human figcaption strong {
 display: block;
 font-size: 24px;
 line-height: 50px;
#container .human figcaption small {
 display: block;
 font-size: 1.2em;
 line-height: 30px;
#container .pricing {
 padding: 80px 0 60px;
 border-bottom: 1px solid #ddd;
#container .pricing .tle {
 font-size: 26px;
 line-height: 60px;
#container .pricing .desc {
 margin-bottom: 40px;
 font-size: 16px;
 line-height: 30px;
#container .pricing dl {
 margin: 0 20px 20px;
 border: 1px solid #ccc;
```



Building the Company website Website.css (10/11)

```
#container .pricing dt strong {
 display: block;
 background-color: #222;
 color: #eee;
 font: 24px/3.4 'Verdana', sans-serif;
#container .pricing .pro dt strong {
 background-color: #444;
#container .pricing dd li {
 border-bottom: 1px solid #ccc;
 font-size: 1.2em;
 line-height: 50px;
#container .pricing dd li strong {
 font-weight: bold;
 color: #000;
#container .pricing dd li span {
 display: block;
#container .pricing dd li span.pay {
 padding: 15px 0 0;
 font-size: 2em;
```

```
#container .pricing dd li span.pay +
span {
 color: #666;
 font-size: .9em;
#container .pricing dd .sign {
 padding: 20px 0;
 background-color: #f0f0f0;
#container .pricing dd .sign a {
 display: inline-block;
 padding: 0 24px;
 background-color: #009688;
 color: #fff:
 font-size: 1.2em;
 text-decoration: none;
 line-height: 45px;
#container .pricing dd .sign a i {
 margin-right: 10px;
#container .pricing dd .sign a:hover
 background-color: #ccc;
 color: #000;
```



Building the Company website Website.css (11/11)

```
#container .contact {
 padding: 80px 0 0;
#container .contact .tle {
 font-size: 26px;
 line-height: 60px;
#container .contact .desc {
 margin-bottom: 40px;
 font-size: 16px;
 line-height: 30px;
#footer {
 padding: 30px 0 50px;
 background-color: #222;
 color: #eee;
 text-align: center;
#footer a {
 color: #fff;
#footer .desc {
 margin-bottom: 15px;
 font-size: 1.3em;
```

```
#footer d1 {
 margin-bottom: 15px;
#footer dd {
 display: inline;
#footer dd a {
 display: inline-block;
 width: 40px;
 height: 40px;
 border-radius: 50%;
 background-color: #009688;
 color: #eee;
 font-size: 1.2em;
 text-align: center;
 line-height: 40px;
#footer dd a:hover {
 background-color: #ccc;
 color: #000;
```



Building the Company website Nomarlize.css (1/4)

```
html {
  line-height: 1.15;
  -webkit-text-size-adjust: 100%;
body {
  margin: 0;
h1 {
  font-size: 2em;
  margin: 0.67em 0;
hr {
  box-sizing: content-box;
  height: 0;
  overflow: visible;
pre {
  font-family: monospace, monospace;
  font-size: 1em;
```

```
background-color: transparent;
abbr[title] {
  border-bottom: none;
  text-decoration: underline;
  text-decoration: underline dotted;
strong {
  font-weight: bolder;
code.
kbd,
samp {
  font-family: monospace, monospace;
  font-size: 1em;
                        nomarlize.css
```



Building the Company website Nomarlize.css (2/4)

```
small {
  font-size: 80%;
sub,
sup {
  font-size: 75%;
  line-height: 0;
  position: relative;
  vertical-align: baseline;
sub {
  bottom: -0.25em;
sup {
  top: -0.5em;
img {
  border-style: none;
```

```
button,
input,
optgroup,
select.
textarea {
  font-family: inherit;
  font-size: 100%;
  line-height: 1.15;
  margin: 0;
button,
input
  overflow: visible;
button,
select {
  text-transform: none;
button,
[type="button"],
[type="reset"],
[type="submit"] {
  -webkit-appearance: button;
```



Building the Company website Nomarlize.css (3/4)

```
button::-moz-focus-inner,
[type="button"]::-moz-focus-inner,
[type="reset"]::-moz-focus-inner,
[type="submit"]::-moz-focus-inner {
   border-style: none;
    padding: 0;
button:-moz-focusring,
[type="button"]:-moz-focusring,
[type="reset"]:-moz-focusring,
[type="submit"]:-moz-focusring {
   outline: 1px dotted ButtonText;
fieldset {
    padding: 0.35em 0.75em 0.625em;
legend {
    box-sizing: border-box;
    color: inherit;
    display: table;
max-width: 100%;
    padding: 0;
    white-space: normal;
```

```
progress {
  vertical-align: baseline;
}

textarea {
  overflow: auto;
}

[type="checkbox"],
[type="radio"] {
  box-sizing: border-box;
  padding: 0;
}
```



Building the Company website Nomarlize.css (4/4)

```
[type="number"]::-webkit-inner-spin-button,
[type="number"]::-webkit-outer-spin-button {
  height: auto;
[type="search"] {
  -webkit-appearance: textfield;
  outline-offset: -2px;
[type="search"]::-webkit-search-decoration {
  -webkit-appearance: none;
::-webkit-file-upload-button {
  -webkit-appearance: button;
  font: inherit;
```

```
details {
   display: block;
}

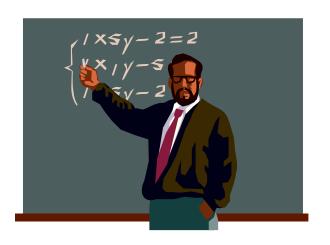
summary {
   display: list-item;
}

template {
   display: none;
}

[hidden] {
   display: none;
}
```



Q & A



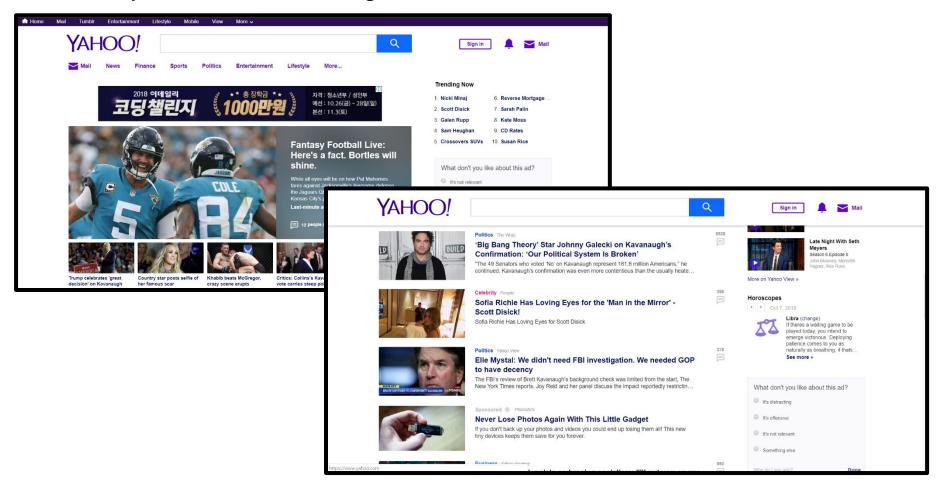


 $\textbf{Source:} \ \underline{\textbf{https://drive.google.com/drive/folders/1eDGp02uDkJdELXfjuPNOzMpEK4gOoBZm}}$



Exercise 1

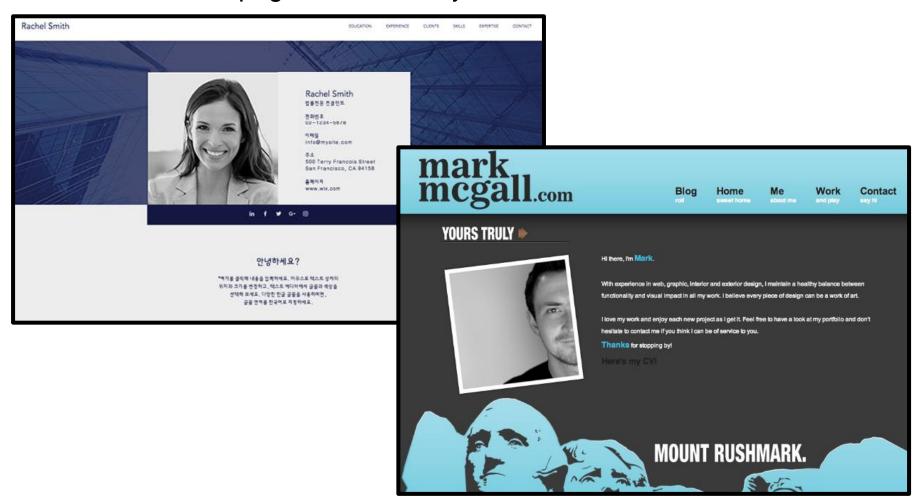
■ Build your own search engine website.





Exercise 2

■ Build the homepage to introduce yourself.





Exercise 3 and Exercise 4

■ Create a variety of websites.

