

# Exercise

CSC359 Applications for the Web

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## About the language...

- JavaScript is the lingua franca of the Web. What does that mean?
- JavaScript is the assembly language of the Web. What does that mean?
- Is React a framework or a library? What's the difference?
- Identify some other JavaScript frameworks or libraries.
- In Chapter 1, Stoyan Stefanov shows us two ways to to put content into our page. What are these two ways?
- What does “transpile” mean?
- Why do we need to transpile?
- Which software are we using to transpile?

## Learn more about people

Look online to learn something about these alumni of our college. Then share what you learn in discussion.

- Leo Beranek directed a laboratory at Harvard University during the Second World War. (([See here.](#)) He and his team looked for ways to reduce noise in aircraft. By doing so, they hoped to increase comfort and reduce stress for the crews of military aircraft.

He was very young. The great responsibility made him anxious. He had never before managed a budget or hired and directed the work of other people.

He wanted advice from someone with experience and found it at MIT, just a mile from Harvard University.

[Lee DuBridge](#) gave Leo the advice he sought. Who was Lee DuBridge? Where did he earn his undergraduate degree?

- [George Strawn](#), Cornell College class of 1962, directed NITRD. What is NITRD? .
- Harper Reed, Cornell College class of 2001, was the Chief Technology Officer for President Obama's re-election campaign. Look for articles about Harper on the Internet. Share what you learn with our class.
- Scott Ruttencutter, Cornell College class of 2001, created a digital media company called IQ Foundry. What can you learn about this company?
- Brian McMillin, Cornell College class of 2006, founded Neopolitan Labs. What can you learn about Brian's company?
- Jackie Baldwin, Cornell College class of 2007, possesses some skills and experience that might interest you. What do you see on her LinkedIn page?
- Where did Sarah Korth, Cornell College class of 2011, begin her career?

## Experiment with code.

- Use any text editor to produce your own copy of this code.
  - Save the code in a file with the extension “.html.”
  - Open a terminal window (like PowerShell in Windows or Terminal in Applications/Utilities on a Macintosh).
  - Put yourself in the same folder that holds your file.
  - Type “python -m http.server.”
  - Open a browser. Type “localhost:8000” in the address field.
- Change the colors, padding, margins to suit your taste.
  - Learn the difference between padding and margins.

- Learn how to specify sizes and distances in HTML.
  - Learn how to specify colors in HTML. Find a list of HTML colors online.
  - Learn how to specify font weights and styles.
  - Can you find other font families?
- What does CSS enable us to do with borders? Experiment with borders.
  - Learn more about the CSS Flexbox (Flexible Box) layout module. Try changing the flex-direction.
  - You will see a few words taken from a poem when you view the page that this code produces.
- Expand this text or replace it with words (maybe lyrics from a favorite song) that suits your taste.

```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Stylish </title>
5     <meta charset="utf-8">
6     <style>
7       .poem {
8         background-color: LightSalmon;
9         display: flex;
10        flex-direction: row;
11        flex-wrap: wrap;
12      }
13      .verse {
14        background-color: SeaGreen;
15        color: LemonChiffon;
16        font-family: Arial;
17        font-size: 42px;
18        margin-top: 8px;
19        margin-bottom: 10px;
20        margin-left: 12px;
21        margin-right: 12px;
22
23        padding-top: 6px;
24        padding-bottom: 6px;
25        padding-left: 8px;
26        padding-right: 8px;
27      }
28    </style>
29  </head>

```

```
30
31 <body>
32   <div id="app">
33     </div>
34
35     <script src="react/react.js"></script>
36     <script src="react/react-dom.js"></script>
37     <script src="react/babel.js"></script>
38
39     <script type="text/babel">
40       ReactDOM.render(
41         <div class="poem">
42           <p class="verse">I must go</p>
43           <p class="verse">lonely sea and sky</p>
44           <p class="verse">a tall ship</p>
45           <p class="verse">a star to steer</p>
46         </div>,
47         document.getElementById( 'app' )
48       );
49     </script>
50
51   </body>
52 </html>
```