

Building a Simple Web Component

Activity Instructions

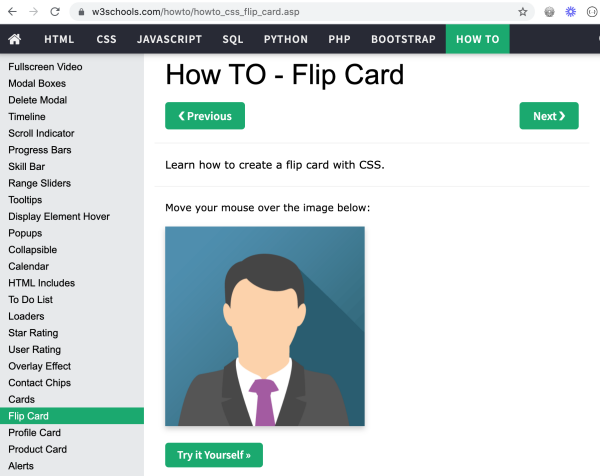
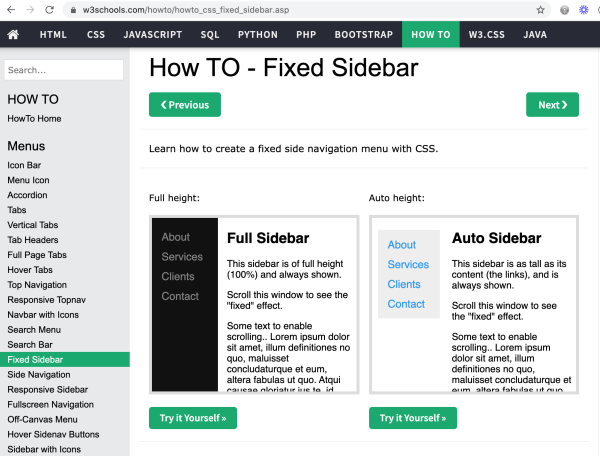
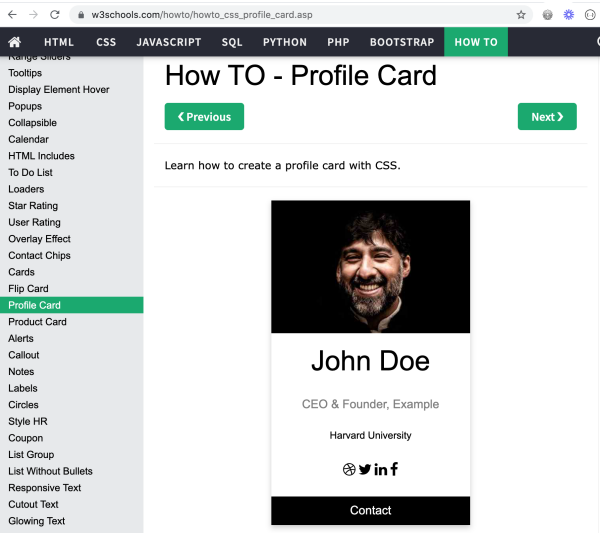
Estimated Time: 60 minutes

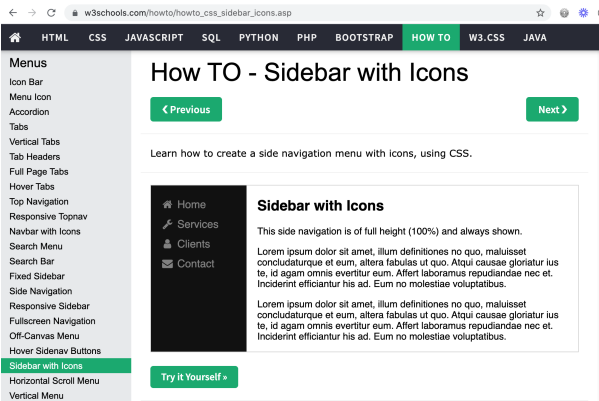
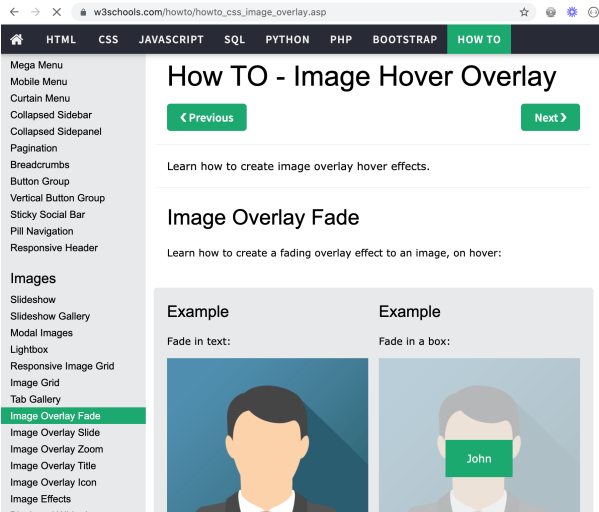
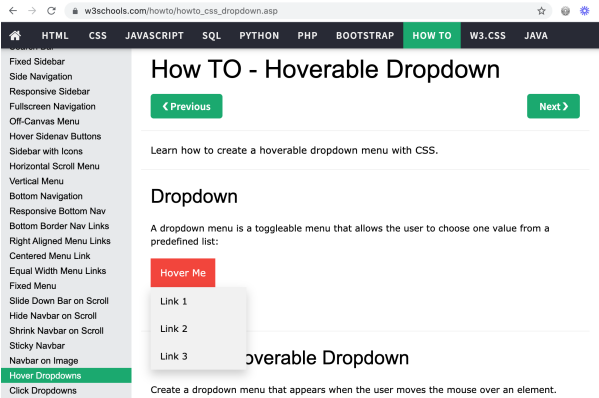
This activity is an opportunity to pull together many of the things you have learned this semester by using HTML and CSS to build a simple web component. (A component is just a part of a webpage that is commonly used more than once.)

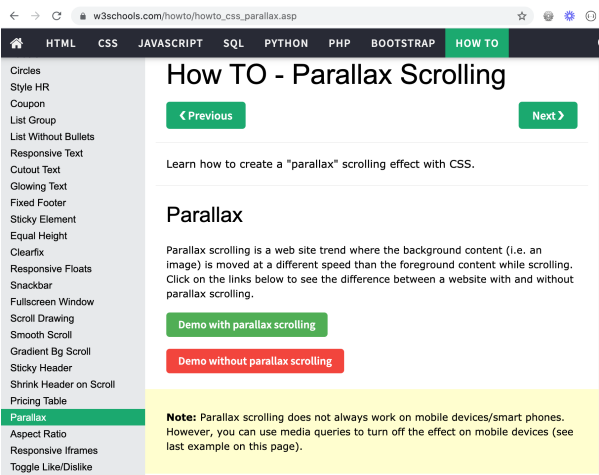
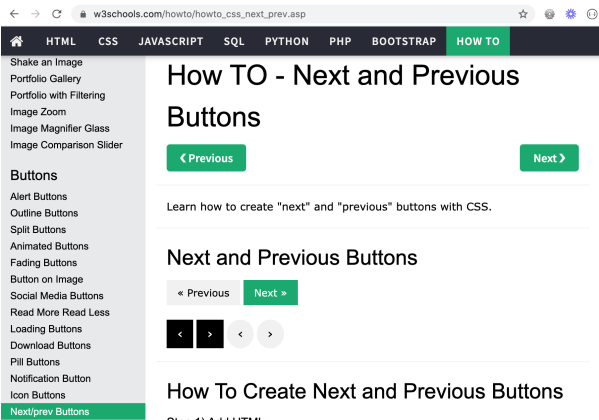
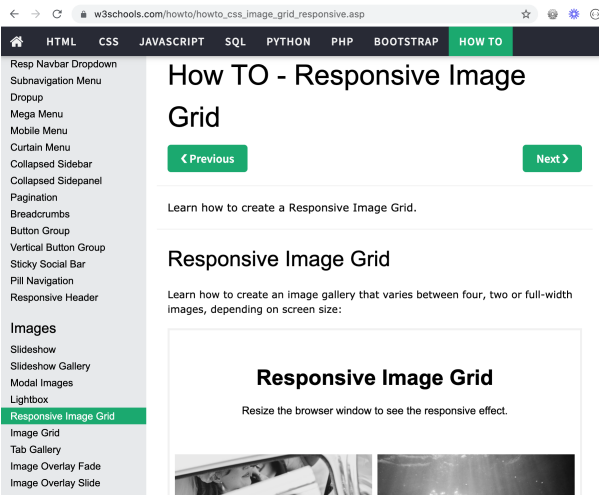
W3schools.com has a 'How To' section that has a large list of lots of different components you can add to your webpage. Some are simple and some more complex, but all the code is given. You just have to fit it to your page and add your own content. Some use JavaScript, which is fine, as long as you copy it over exactly as they have it. But there are plenty of components that don't use JS, using only HTML and CSS.

Below are some examples of components you can create from the website at:

<https://www.w3schools.com/howto/>







01 Understand the Code

Choose any component you'd like. It doesn't have to be one of the ones listed above. **You will be creating it with your own content, not the content they use in the examples.** It is OK if it is the only thing in the body portion of your page or you can add it to one of your personal site pages if you want to use the component there.

I would suggest leaving the **class** and **id** names the same as they have it in the example code so the CSS and JS match up properly with the HTML, but everything between tags (the content) should be your own.

Find the HTML example and copy and paste it. Don't miss any of the code. Look through it carefully to understand how it was coded. Add your own content to the code.

Step 1) Add HTML:

Example

```
<!-- Side navigation -->
<div class="sidenav">
  <a href="#">About</a>
  <a href="#">Services</a>
  <a href="#">Clients</a>
  <a href="#">Contact</a>
</div>

<!-- Page content -->
<div class="main">
  ...
</div>
```

Next, find the CSS example and copy and paste it into a CSS file. Again, make sure you copy and paste all the code. Also, make sure the CSS and HTML are linked together. You can even add it to the existing CSS you might already have on your page.

Step 2) Add CSS:

Example

```
/* The sidebar menu */
.sidenav {
  height: 100%; /* Full-height: remove this if you want "auto"
  height */
  width: 160px; /* Set the width of the sidebar */
  position: fixed; /* Fixed Sidebar (stay in place on scroll) */
  z-index: 1; /* Stay on top */
  top: 0; /* Stay at the top */
  left: 0;
  background-color: #111; /* Black */
  overflow-x: hidden; /* Disable horizontal scroll */
  padding-top: 20px;
}

/* The navigation menu links */
.sidenav a {
  padding: 6px 8px 6px 16px;
  text-decoration: none;
  font-size: 25px;
  color: #818181;
  display: block;
}

/* When you mouse over the navigation links, change their color
*/
```

Review the CSS rule sets and make sure you understand them. There may be many new properties and values that you don't understand. Research them on W3Schools.com if you want to learn more about them. If you left the classes and id names the same, the CSS should match up well with the HTML. Make sure any **class** or **id** name is not already used in your file to avoid changing other elements that are not part of the component.

If your component has JavaScript, add that to the file, like we did with our form activity earlier. If you are uncomfortable with JavaScript, just use a component that does not use it. You don't have to understand the JS completely to use it with these examples.

02 Customize it for your page

There may be more tweaking to do to your code to get it to fit well with your content and your page. This is completely normal. Take some time to make it work well. Double-check the code and ask for help if it is not working for you.

03 Upload to I-Learn

Upload your URL of the page that contains the component to I-Learn. Also, place in the submission comments what component you used on your page.