



Shopping List Lab

Document manipulation and events.

Project

- ▶ Let's create a **web shopping list**.
 - ▶ Fork & Clone or Download the source code available here:
<https://github.com/CodingTemple/javascript-shopping-list/>
 - ▶ Refreshing the page will clear our list.

The Project

- ▶ The project consists of an **index.html** and **script.js** file
- ▶ In addition, the site references **jQuery** and **Foundation**, though we won't use these in the project.

To serve your site

- ▶ Serve your site! Open a command prompt (PC) or terminal (Mac)
 - ▶ **http-server [path to your ShoppingList folder here]**
- ▶ Using **Chrome**, open your index.html site
 - ▶ **http://localhost:8080/index.html**
- ▶ Verify that your site contents appear

Don't forget how to debug

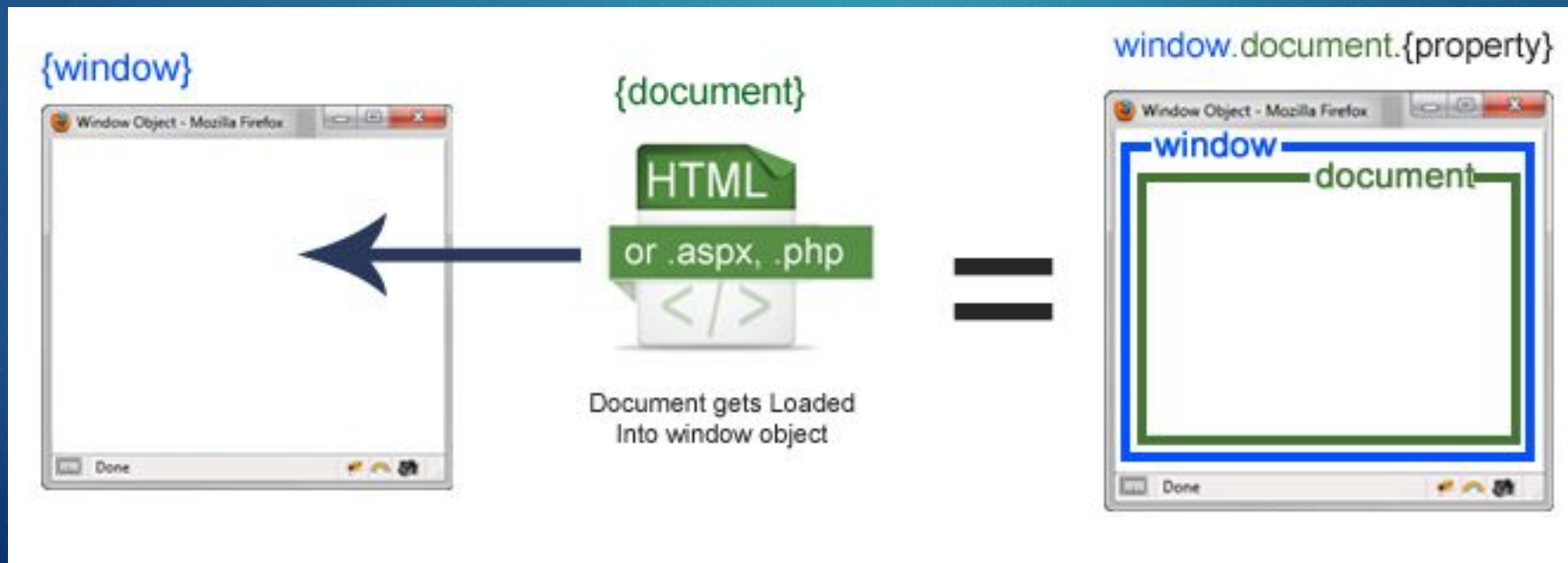
- ▶ Open your page in Chrome
- ▶ Open the Chrome Developer Tools
 - ▶ **F12 or Ctrl+Shift+J on PC**
 - ▶ **Option + Command +J on Mac**
- ▶ Click on the **Sources** tab to view your JavaScript!

Add a JavaScript method which fires when the 'Add' button is clicked

- ▶ Use DOM traversal to select your HTML button in your **JavaScript** file.
 - ▶ Remember, we are writing everything inside of the **window.onload** function.
 - ▶ Use the **document global object**.
 - ▶ **var button = document.getElementById('btn');**
- ▶ Using the reference to your button, **add an event listener** to the click event.
 - ▶ **button.addEventListener('click', AddRow);**
 - ▶ Define the AddRow() function in your JavaScript. Add an alert method for now to verify your setup.

HTML Window and Document objects

- ▶ The **window object** points to the browser context, and contains all global variables. (This includes the global document variable).
- ▶ The **document object** represents the DOM tree. It contains all elements in the DOM tree and all of their attributes, including event references like 'onClick'.



AddRow functionality

- ▶ **Add code to get the values of both Inputs.**
 - ▶ Use the `document.getElementById` to get the input element.
 - ▶ The `value` property will give you what the user typed into the box.
- ▶ **Build HTML and append it to your list (Reference Code Below)**

```
var list = document.getElementById("list");
var row = document.createElement("tr");
var cell = document.createElement("td");
var text = document.createTextNode("some text");
cell.appendChild(text);
row.appendChild(cell);
list.appendChild(row);
```


Abstract out the CreateInnerHTML functionality

- ▶ Can you abstract the functionality to create the new Divs in our ShoppingList to a reusable, **CreateInnerHTML** function which takes the price and item names as parameters?

Challenge: Total the Price column

- ▶ Add code to **total up the Price column. Use the internet when you need it!**
- ▶ 1. Use the table cell with id **totalPrice**.
- ▶ 2. Add a JavaScript function, **UpdateTotal**, which gets the current Total **Text**, parses it to a number, adds the new Price to it, and updates the **Text**.
- ▶ 3. **Call** the UpdateTotal function during the AddRow function execution.
- ▶ 4. Add some **validation** to your function, so that only numbers get added. (use the internet here!)