JavaScript Output

Interactivity

- HTML5 and CSS3 are not really interactive

- New elements and pseudo-classes can only go so far

What Can JavaScript do?

- Read and write HTML elements
- Reacts to events (mouse events, keyboard events, etc.)
- Validate data
- Detect the visitor's browser
- Create cookies

JavaScript Output

- JavaScript doesn't have a built-in print function

- Data is displayed via
  - an alert box using *window.alert()*
  - *a prompt using window.prompt()*
  - HTML output using *document.write()*
  - HTML element using *innerHTML()*
  - the browser console using *console.log()*

alert()

- In JS, an alert is a pop-up window that displays information

alert("My Message Here");

- The parentheses mean that this is a function

prompt()

- Very similar to alert, but wants input.

```
prompt("Enter your name: ");
```

document.write()

- What if we want something permanent?
- document.write() writes directly to the page

```
document.write(“Time to learn JavaScript ”);
```

- Here we have combined a function with an object that will add to page

document.write()

- Not usually recommended since it can easily be misused

innerHTML

- To change the contents of the DOM, use innerHTML combined with the element you want to change

no parentheses!!

element.innerHTML = "Time to learn JavaScript ";

- The element will come from the API

console.log()

- This option write the data to the browser console

```
console.log("Leave a secret message");
```

- The console is a place to see what is going on during the execution of your program

The console

- You should be utilizing the console by now

- Does more than take "print" statements, also provides debugging information for JavaScript, HTML and CSS

Debugging

- **Safari**: Preferences → Advanced Check the Show development menu in menu box"

- **Google Chrome**: Developer → JavaScript Console

- **Firefox**: Tools→ Console

- Edge: F12

Review

- Right now, we are doing simple things with output

- As you learn more, the power grows

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