



# SY110

## Client-Side Scripting

### Event Driven

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Fall AY 2018



## 1 Review



## What we talked about last time

- Static vs. Dynamic Web pages
- Client-side vs. Server-Side scripts
- Non-Event-Driven vs. Event-Driven



*Event-driven scripts* – scripts in webpages that react to events (in this class, usually mouse events) by changing the appearance of the page.

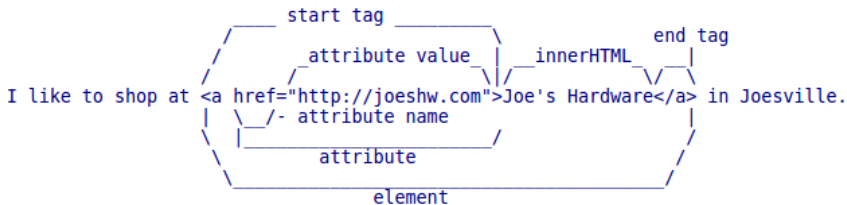
## Today we'll:

- understand the structure of *elements* and their associated *attributes*,
- understand how to use the `id` attribute to fetch and modify the attributes of an element in a page, and
- understand how to associate script-code to user actions with attributes like `onclick`.



## Elements & Attributes

- Anything wrapped between start and end tags in an HTML document is an *element*.
- An *attribute* further refines an element's contents – normally within opening tag. Uses `name = value` syntax





If we want to refer to a particular element in a JavaScript script, we need to give it an id attribute so that JavaScript can locate it.

## Examples

```
<B id="foo">Element foo</B> <B id="bar">Element bar</B>
```

## Referencing elements w/JavaScript

- We can refer to these elements using the JavaScript function `document.getElementById([id])`:

```
document.getElementById("foo")
```

which returns the content of the element with `id="foo"`.



## Some modifiable fields

- `document.getElementById("foo").innerHTML`
  - ▶ Stores the string between start and end tags
- `document.getElementById("foo").style.color`
  - ▶ Stores the color of the string in six hex characters (RGB)
- `document.getElementById("foo").style.background`
  - ▶ Stores the color of the background in six hex characters (RGB)
- `document.getElementById("foo").style.fontFamily`
  - ▶ Stores the specific font or font family for the text, e.g. serif, monospace, etc
- `document.getElementById("foo").style.fontSize`
  - ▶ Stores the size of the font in pixels (px), points (pt), or em (multiple of current font-size)

**Note:** We're not changing the HTML file itself – we're changing the browser's internal representation of the file (how it's rendered).



Let's look at the DOM worksheet from the lecture notes

[http://rona.academy.usna.edu/~sy110/lec/wwwClntEvent/  
worksheet.html](http://rona.academy.usna.edu/~sy110/lec/wwwClntEvent/worksheet.html)





Demos



Questions?