CS 22A JavaScript for Programmers

Today (Day05)

- Announcement
- JS validators
- "use strict";
- Conditional Statements
- Loops
- Assignment 1: Guesser
- Pseudocode

Do you have JavaScript code validation working?

- The **JS Hint** validator is already part of Nodeclipse and the Nodeclipse plug-in for Eclipse, but it is by default not activated when you make a new project!
  - To activate it follow the instructions on the **Resources** page (under Pages in our Canvas course site)
  - You can also install js**l**int to run on the command line
  - You can also install js**h**int for use with other IDEs like Notepad++

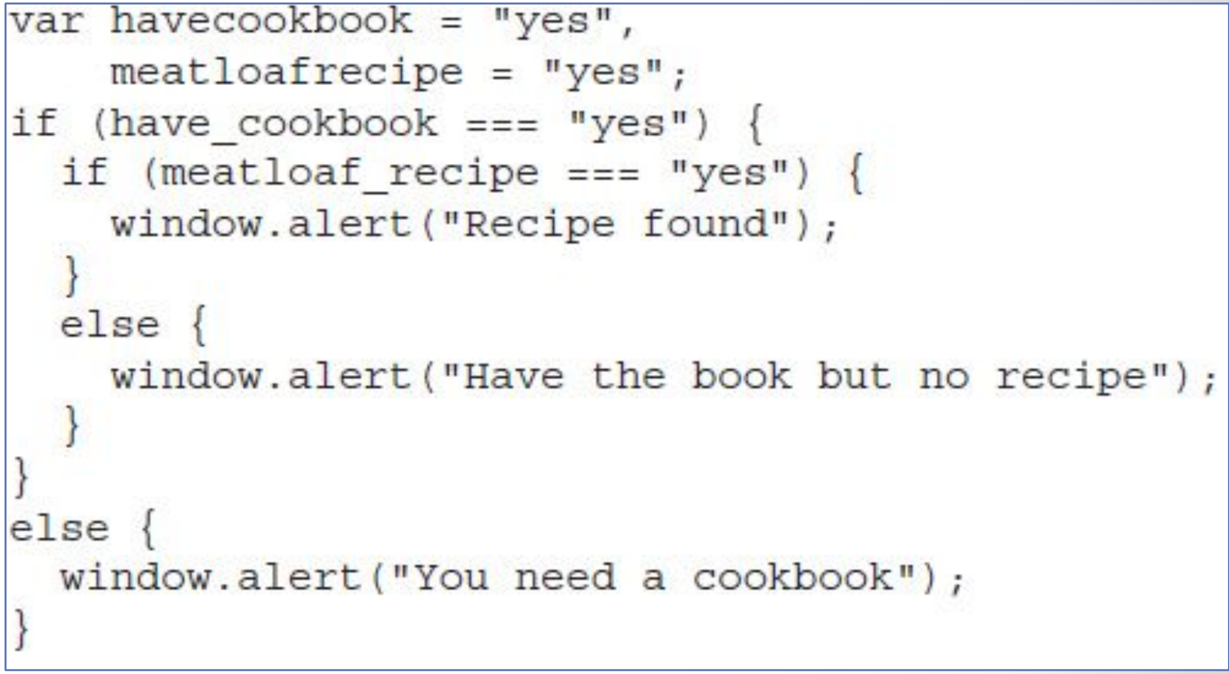
“use strict”;

```
function sum(a, a, c){ // this error won't be detected in some ICEs & browsers without strict mode
 "use strict";
 return a + b + c; // wrong if this code ran
}
```

- The major browsers now implement strict mode. However, don't blindly depend on it since there still are numerous Browser versions used in the wild that only have partial support for strict mode or do not support it at all (e.g. Internet Explorer below version 10!).
- See https://developer.mozilla.org/en-US/docs/Web/
- JavaScript/Reference/Strict_mode for reference

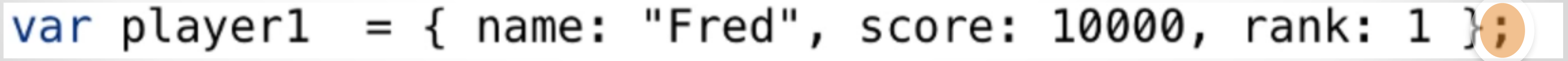
Conditional Statements

- If-else statement
  - **No** semicolon at the end



```
var havecookbook = "yes",
    meatloafrecipe = "yes";
if (have_cookbook === "yes") {
  if (meatloaf_recipe === "yes") {
    window.alert("Recipe found");
  }
  else {
    window.alert("Have the book but no recipe");
  }
}
else {
  window.alert("You need a cookbook");
}
```

- Literal object creation statement
  - Semicolon at the end



```
var player1  = { name: "Fred", score: 10000, rank: 1 };
```

Loops

- for, while, and do-while loops
  - Avoid making infinite loops
  - Avoid using `break` and `continue` if you can, they tend to lead to hard to understand code
    - `break` stops the loop & completely exits the loop, moving on to the next JavaScript statement after the loop
    - `continue` stops the loop from executing any statements after it during the current trip through the loop & will go back to the beginning of the loop & pick up where it left off

To Do

- Catch-up/Continue the Modules
  - If you haven’t yet, finish ICE01
- Then start working on Assignment 1: Guesser