



# Common Errors

# Debugging Your JavaScript Code

- Browsers try to hide your JavaScript errors, so you need to seek them out
- Two classes of errors:
  - Syntactic
  - Logic

# Syntactic Errors

- These errors break the “rules” of JavaScript
  - Typed something wrong: `getElementsByld()`
  - Forgot to close a curly bracket: `{....`
  - Using an undefined variable
- Will appear in the browser console if you are on a laptop/desktop
  - Unfortunately not available on mobile devices

## Logical Errors

- Your code is valid, but there is something wrong with your thought process
  - In the Array Average example you didn't check for zero or you used the length of the array instead of a count
- Some “logic” errors really are typos...they are just typos that run

## Issues with Comparisons...

- Don't forget
  - `5 == '5'` is true
  - `if (name = "Colleen")` wants to assign a value, not check for equality
  - `(age > 65) && (18 > age)` will NEVER BE TRUE...
  - `(age > 65) || (age > 18)` is silly, you only need to check the second condition

## Concatenation vs Addition

- The **+** operator performs different actions based on the type...
  - $5 + 5 \rightarrow 10$
  - $'5' + '5' \rightarrow '55'$
  - $'5' + 5 \rightarrow '55'$
- This isn't always bad!! Sometimes you want to concatenate a string and a variable

```
src = "url(" + img.src + ")";
```

## Issues With Nesting

- Make sure that your else statements match with the appropriate if
- Make sure you don't end your flow of control by misplacing semicolons ;

```
if (age < 18);  
    alert("Too young!");
```

```
for (c= 0; c<5; c++);  
    document.write(c);
```

## Review

- Whenever possible, use the console
- Think about your code before you write it.
- Code and test, code and test. Saving often!
- Ask for help. Someone else can often see your errors more quickly.



# Acknowledgements/Contributions

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