JAVASCRIPT DATA TYPES
Declared Variables

- Like Excel cells
  - Hold values
  - Refer to the location, not the value
  - Different behavior depending on content
  - Need to give them values (assignment)
- Explicitly define them
  - Can give them starting values
- Figures out type
- Case sensitive

```javascript
var x = 5;  // (note: this is the ONLY use of =)
```
Data Types

- Different types of data -> different actions
  - We can add numbers; we can’t add words

- Excel data types
  - Number
  - Text (String)
  - True/False (Boolean)
  - Array
  - Error
  - Date

- JavaScript data types
  - Number
  - Text (String)
  - True/False (Boolean)
  - Array
  - Null
  - Object
WRONG TYPE: ERROR OR BAD ANSWER

Examples of Error

Excel:

=ROUND("two",2)

#VALUE!

JavaScript

=Math.round("two")

Nan (Not a Number)

Bad Answer

JavaScript

Add Strings

"3" + "5"

35

Add Numbers

3 + 5

8
Overload:
- different meanings for numbers and strings

A common action: add or concatenate to a variable

+= operator
- a += b
- a = a + b