Values and Datatypes

What sort of data is it?

WEB PROGRAMMING FUNDAMENTALS web design and development full sail university





Variables





Variables

- Variables are the storage containers of the programming world. Store & retrieve data.
- Variables are "nick names" for objects
- Variables have
 - Name
 - Datatype
- If they are defined they also have a
 - Value



Variables

- Variables MUST be declared before you use them.
 - Reads right to left
- You are basically saying "I am using this name to represent an object" and the machine needs to know this BEFORE you do anything with that object.



Instantiation

AKA How We Use It.



- The var keyword:
 - Declares a variable
 - Named container that refers to a specific piece of data
 - Can be recalled for later use
 - You SHOULD only declare the variable once



Instantiation

AKA How We Use It

var courseName = "Web Programming Fundamentals";

- Variable Name :
 - Unique Identifier Can be anything, but make it descriptive!
 - Cannot start with a number
 - No spaces
 - Uses camelCase or underscores
 - By rule, should start with a lowercase



Instantiation

AKA How We Use It.

var courseName = "Web Programming Fundamentals";

- Value
 - If a value is not specified its default value is null which is an empty container



- Type (class) of data to be stored in a variable
- Many types available
- Each Type Has Different Properties



- Numbers
- Strings
- Boolean



- Numbers
 - Stores numeric values, Positive,
 Neg, Decimal, Integer



- String
 - Holds any text value
 - Must have matching quotes
 - "text" or 'text'



- Boolean
 - Holds either True or False
 - Not the text, the value