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FUNCTIONS, METHODS & OBJECTS

- Complex scripts can run to hundreds (even thousands) of lines.
- Programmers use functions, methods, and objects to organize their code.



	FUNCTION
What is a function?	Calling a function
<pre>FUNCTION KEYWORD FUNCTION NAME function sayHello() { document.write('Hello!'); }</pre>	sayHello();











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IIFE

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• When to use anonymous functions and IIFEs?

- As an argument when a function is called (to calculate a value for that function).
- To assign the value of a property to an object.

Local Variables

• Global Variables

- In event handlers and listeners to perform a task when an event occurs.
- To prevent conflicts between two scripts that might use the same variable names.

VARIABLE SCOPE

function getArea(width, height) {
 var area = width * height;
 return area;

var wallSize = getArea(3, 2); document.write(wallSize);

LOCAL (OR FUNCTION-LEVEL) SCOPE

GLOBAL SCOPE

}

OBJECT

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- What is an object?
- Objects group together a set of variables and functions to create a model of a something you would recognize from the real world.





REAL LIFE OBJECT

Object	Properties	Methods
	car.name = Fiat	car.start()
	car.model = 500	car.drive()
	car.weight = 850kg	car.brake()
	car.color = white	car.stop()

	OBJECT					
 var person = "John"; var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"}; Key/value pair 						
Property	Property Value					
firstName	John					
lastName	Doe					
age	50					
eyeColor	blue					

...

OBJECT

- Methods are **actions** that can be performed on objects.
- Methods are stored in properties as function definitions.

Property	Property Value
firstName	John
lastName	Doe
age	50
eyeColor	blue
	function() { return this.firstName + " " + this.lastName; }



OBJECT

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		OB	JECT
 Hotel object contains the following key/value pairs: Variables have a name and can assign them a value of a string, number, or Boolean. Arrays have a name and a group of values. (Each item in an array is a name/value pair because it has an index number and a value.) Named functions have a name and value that is a set of statements to run if the function is called. 	PROPERTIES:	KEY name rooms booked gym roomTypes	VALUE string number number Boolean array
 Objects consist of a set of name/value pairs (but the names are referred to as keys). 	METHODS:	checkAvailability	function

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