

Variables, Variable Scope

ITP 301
Spring 2021

Variables

“Containers” used to store data.

Variables can store different **data types**.

- Text, numbers, objects, code, etc.

Syntax:

```
var variableName;
```

Naming variables:

- Must start with a letter, \$, or _ (underscore),
- Can contain letters, \$, _, and numbers,
- Case sensitive.

```
var name = 'Tommy';
```

```
var age = 18;
```

```
var knowsWebDev = true;
```

Operators

Used to perform arithmetic operations, concatenate strings, or assign values.

+	Addition (numbers) or Concatenation (strings)
-	Subtraction
*	Multiplication
/	Division
%	Modulus
++ / --	Increment / Decrement by 1

Examples: https://www.w3schools.com/js/js_operators.asp

Variable Scope

Sections of code where certain variables are accessible.

Two types:

Global	Declared outside functions. Accessible from anywhere on the page.
Local	Declared within a function. Accessible only within that function.

Error

Local variable only accessible within function block it was created.

```
var globalVar = 1;
```

```
document.querySelector('#idName').onclick = function(){  
    var localVar = 2;  
  
    console.log(localVar);  
    console.log(globalVar);  
}
```

```
console.log(localVar);  
console.log(globalVar);
```

Global variable accessible from anywhere.

Accessing CSS

`style` nested object is typically used to **set** CSS for an element.

Syntax:

```
object.style.cssProperty = CSS Value;
```

`getComputedStyle()` method is used to **get** the effective CSS of an element (inline, internal, or external).

Syntax:

```
getComputedStyle(object).getPropertyValue(CSS Property)
```

```
document.body.style.backgroundColor = "#900";
```

```
document.querySelector("#header").style.fontSize = "1.5em";
```

```
getComputedStyle(document.body).getPropertyValue('background-color')
```

```
getComputedStyle(document.querySelector("#header")).getPropertyValue('font-size');
```