

Client Side Scripting }

Variables

Variables

- { Variables
- { Data Types
- { Naming Conventions
- { Concatenation
- { Operators

Variables



Variables

Variables are storage containers used for capturing or storing information.

What Can You Store?

- { Strings
- { Numbers
- { Expressions
- { Arrays
- { References

Create a Variable

```
<script language="javascript">  
    var name="josh";  
</script>
```

Create a Variable

```
<script language="javascript">  
    var name="josh";  
</script>
```

“josh” is now stored inside as a reference called name.

Use the Variable

```
<script language="javascript">  
    var name="josh";  
    alert(name);  
</script>
```

Use the Variable

```
<script language="javascript">  
    var name="josh";  
    alert(name);  
</script>
```

Use the Variable

```
<script language="javascript">  
    var name="josh";  
    alert(name);  
</script>
```

alert() will prompt the user with a message.

Use the Variable

```
<script language="javascript">  
    var name="josh";  
    alert(name);  
</script>
```

**This message is name
aka "josh".**

Data Types



Data Type

Set of values.

Data Types

- { Numbers - 89897
- { Strings - “hello world”
- { Hexadecimal - 0xff0000
- { Floating Point - 58.4667
- { Booleans - true or false

Data Type Syntax

```
<script language="javascript">  
  
    var name="josh"; // string gets quotes  
    var age = 29; // number gets no quotes  
    var color = 0xFF0000; // hex no quotes  
    var price = 29.99; // floating point no quotes  
    var loggedIn = false; // boolean no quotes  
  
</script>
```

Data Type Syntax

```
<script language="javascript">  
  
    var name="josh"; // string gets quotes  
    var age = 29; // number gets no quotes  
    var color = 0xFF0000; // hex no quotes  
    var price = 29.99; // floating point no quotes  
    var loggedIn = false; // boolean no quotes  
  
</script>
```



Naming Conventions

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

The first letter of the next word is upper case

For Example: printOutVariable

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

Variable names can not be the name of something that javascript already uses.

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

Variable names cannot contain special characters such as *, +, %, / etc.

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

Naming Conventions

- { camelCase
- { No reserved words
- { No special characters (some exceptions)
- { Can't start with a number

24Hours -- invalid variable name

Concatenation



Concatenation

Union in a linked series; the linking together of a consecutive series

Concatenation

```
<script language="javascript">  
var name="josh";  
var team= "Steelers";  
var message = name + team;  
</script>
```

Concatenation

```
<script language="javascript">  
var name="josh";  
var team= "Steelers";  
var message = name + team;  
</script>
```

`alert(message)`

What would this output as?



joshSteelers



Output

Output

To output variables in the browser it's best to target a div. The only catch is that you have to wait for the page to load.

Target Div

```
onload = init;  
var myVariable = "Josh";  
function init(){  
    document.getElementById('content').innerHTML = myVariable;  
    // This will output Josh inside the div called content  
}
```

Variables: Summary

- { Variables
- { Data Types
- { Naming Conventions
- { Concatenation
- { Operators