

Conditionals }

Client Side Web

Conditionals

- { Conditionals
- { Conditional Operators
- { Returning Values

Conditionals



Conditionals

The comparison of at least two values resulting in either true or false.



Conditionals are everywhere!

If the gas pedal is
pressed go faster.

If the gas pedal is

```
1 if(peadal=="pressed"){  
    goFaster()  
}
```

Types of Conditionals

- { if
- { else
- { else if
- { switch

If Statement

```
if(condition) {  
    doSomething  
}
```

If Statement

```
if (condition) {  
    doSomething  
}
```

**The condition is
evaluated as
true or false.**

If Statement

```
if(condition) {  
    doSomething  
}
```

**If condition is met,
the code block
will execute.**

Operators



Operators

A function that modifies an object, method, property, or variable.

Operators

- { Mathematical operators
- { String operators
- { Comparison operators

Operators

- { Mathematical operators
- { String operators
- { Comparison operators

Basic

+ - / * %

$$5 + 4 = 9$$

Operators

- { Mathematical operators
- { String operators
- { Comparison operators

Shorthand

`++ -- += -= /= *= %=`

```
var num =5
```

```
num+=4
```

```
// result is 9
```

What is...
var num= 5
num++

6



Operators

- { Mathematical operators
- { String operators
- { Comparison operators

Basic

+ +=

red + dawg

// result is reddawg

Operators

- { Mathematical operators
- { String operators
- { Comparison operators

Basic

== != > >= < <=



Comparison Operators

Comparison Operators

Used to compare the value of at least two values.

Comparison Operators

`{ ==`

`{ !=`

`{ >`

`{ >=`

`{ <`

`{ <=`

`{ !`

Comparison Operators

{ ==

{ !=

{ >

{ >=

{ <

{ <=

**Learn more about
each operator via
the link below.**

http://www.w3schools.com/JS/js_comparisons.asp

Comparison Operators in Action

```
var name="josh"
```

```
if (name=="josh") {
```

```
    alert("hello Josh!");
```

```
}
```

Comparison Operators in Action

```
var name="josh"
```

```
if (name=="josh") {
```

```
    alert("hello Josh!");
```

```
}
```

== compares the two values. It's asking if the values are equal.

Comparison Operators in Action

```
var name="josh"
```

```
if (name=="josh") {  
    alert("hello Josh!");  
}
```

is name...

Comparison Operators in Action

```
var name="josh"
```

```
if (name=="josh") {
```

```
    alert("hello Josh!");
```

```
}
```

...the same as "josh"?

Comparison Operators in Action

```
var name="josh"
```

```
if (name=="josh") {
```

```
    alert("hello Josh!");
```

```
}
```

Yes!

Comparison Operators in Action

```
var name="josh"
```

```
if (name=="josh") {  
    alert("hello Josh!");  
}
```

**Because
name="josh".**

Returning Values



Returning Values

A way of sending a “receipt” of what it has executed inside of a function.

Typical Function

```
function addMe(){  
  var result  
  result = 2 + 3;  
}
```

Typical Function

```
function addMe() {  
  var result  
  result = 2 + 3;  
}
```

**We know by looking
at the code the
answer is 5.**

Returning Values

```
function addMe(){  
  var result  
  result = 2 + 3;  
  return result;  
}
```

Returning Values

```
function addMe(){  
  var result  
  result = 2 + 3;  
  return result;  
}
```

**Now we can send
the answer when
the function
has executed.**

Returning Values

```
function addMe(){  
  var result  
  result = 2 + 3;  
  return result;  
}
```

```
alert(addMe());  
// alerts 5
```

Returning Values

```
function addMe(){  
  var result  
  result = 2 + 3;  
  return result;  
}
```

```
alert(addMe());  
// alerts 5
```

This would alert 5

Neat... but why?

It's a cleaner way to get information from a calculation, and it's often used for comparison with conditionals.

Conditionals: Summary

- { Conditionals
- { Conditional Operators
- { Returning Values