

Functions }

Client Side Scripting

Functions

— { Functions

— { Arguments

Functions



Functions

- { What are they?
- { What are they used for?
- { Create a function
- { Calling a function

Functions: What are they?

- { A function is a group of code
- { Functions can contain multiple lines of code
- { Think of it as a few lines of code that you want to do all the time. Instead of always writing out that code, you create a function which is like a shortcut to that code.

Functions:

What are they used for?

- { They are used as a way to hold your code until you're ready to use it.
- { They are used to make code more efficient.
- { They are used to save time when modifying, manipulating, or testing your code.

Functions: Create a Function

```
function showMyName(){  
}
```

Functions: Create a Function

```
function showMyName(){  
}
```

Reserved Name to declare the function

Functions:

Create a Function

```
function showMyName(){  
}
```

Custom name that defines the function.
Function names follow variable naming rules

Functions: Create a Function

```
function showMyName(){  
}
```

Syntax for declaring an argument, we will talk more about this later.

Functions: Create a Function

```
function showMyName(){  
}
```

Syntax for starting and ending the function

Functions: Create a Function

```
function showMyName(){  
    var name = "josh";  
    alert(name);  
}
```

Code inside your function

Functions: Calling a function

```
function showMyName(){  
    var name = "josh";  
    alert(name);  
}
```

```
showMyName();
```

This calls, or executes the function

Functions: Calling a function

```
function showMyName(){  
    var name = "josh";  
    alert(name);  
}
```

```
showMyName();  
showMyName();  
showMyName();
```

You can call a function as many times as you want

Functions:

Calling a function

- { Functions can be called just about anywhere
- { They are great for delaying functionality for things like button clicks and other user interactivity.

Arguments



Arguments

- { What is an argument?
- { What are they used for?
- { Create an argument
- { Call a function with the argument
- { What's really happening?
- { Call multiple functions
- { Create multiple arguments
- { Call multiple arguments

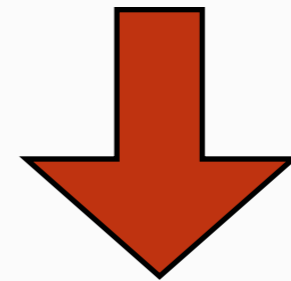
Arguments: What is an argument?

- { It's a way to make a function unique
- { To repeat similar tasks but get slightly different results

```
showMyName();  
showMyName();  
showMyName();  
showMyName();  
showMyName();  
showMyName();  
showMyName();  
showMyName();  
showMyName();  
showMyName();
```

This runs the exact same function (code) 10 times

Argument



```
showMyName("John");
```

This allows for the function to operate differently

```
showMyName("Josh");  
showMyName("Sam");  
showMyName("Bob");  
showMyName("John");  
showMyName("Ringo");  
showMyName("Paul");  
showMyName("George");  
showMyName("James");  
showMyName("Greg");  
showMyName("Mike");
```

These function calls using arguments will yield different results



Think of it as a way to answer
a question

```
gotoAndPlay(30)}
```

Does this look familiar?

This is actually a function using an argument to determine where to play

```
gotoAndPlay(30)}
```

Where do you want to play?

```
gotoAndPlay(30)}
```

Where do you want to play?

30

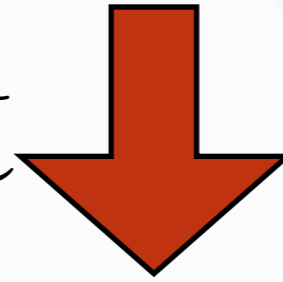
Arguments:

What are they used for?

- { Clarify parts of a function
- { Allow for flexibility in your code
- { Save Time / Typing
- { Save file space

Arguments:

Create an argument

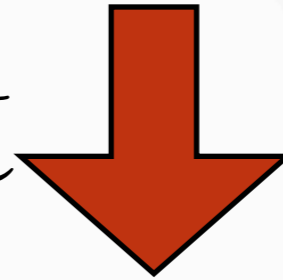


Define the
argument

```
function showMyName(newName){  
  
    var name = "josh";  
    alert(newName);  
  
}
```

Arguments:

Create an argument



Define the
argument

```
function showMyName(newName){  
  
    var name = "josh";  
    alert(newName);  
  
}
```

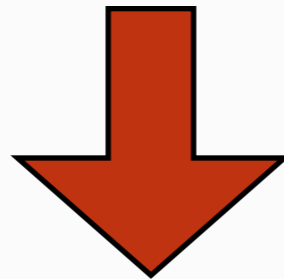


Use the
argument

Arguments:

Call a function with an argument

```
function showMyName(newName){  
    var name = "josh";  
    alert(newName);  
}
```



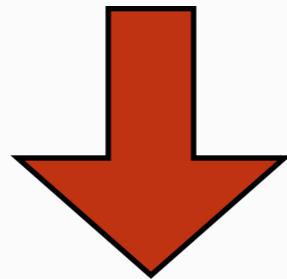
argument

```
showMyName("Bob");
```

Arguments:

Call a function with an argument

```
function showMyName(newName){  
    var name = "josh";  
    alert(newName);  
}
```



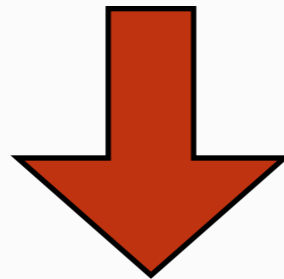
```
showMyName("Bob");
```

This gets stored as a
variable called **newName**

Arguments:

Call a function with an argument

```
function showMyName(newName){  
    var name = "josh";  
    alert(newName);  
}
```



```
showMyName("Bob");
```

newName = "Bob"

Arguments:

Call a function with an argument

```
function showMyName(newName){  
    var name = "josh";  
    alert(newName);  
}
```



```
showMyName("Bob");
```

Since `newName = "Bob"`
This will output Bob on
the screen

Arguments:

Call multiple functions

```
showMyName("Josh");  
showMyName("Sam");  
showMyName("Bob");  
showMyName("John");
```

It's the same **function** but you get **different** results

Arguments:

Create Multiple Arguments

- { Functions can support an infinite number of arguments
- { This can make functions more flexible

Arguments: Create Multiple Arguments

```
function showMyName(name, age, loc){  
    message = "My name is " + name + " I am " + age +  
    " I live in " + loc;  
    alert(message);  
}
```

Arguments: Create Multiple Arguments

```
function showMyName(name, age, loc){  
  
    message = "My name is " + name + " I am " + age +  
    " I live in " + loc;  
    alert(message);  
  
}
```

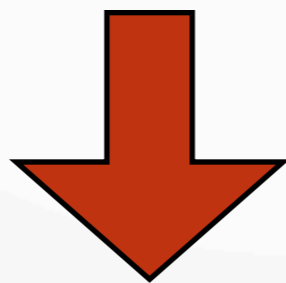
Arguments: Create Multiple Arguments

```
function showMyName(name, age, loc){  
    message = "My name is " + name + " I am " + age +  
    " I live in " + loc;  
    alert(message);  
}
```

Each new argument is
separated by commas

Arguments: Create Multiple Arguments

```
function showMyName(name, age, loc){  
  
    message = "My name is " + name + " I am " + age +  
    " I live in " + loc;  
    alert(message);  
  
}
```



```
showMyName("Josh", 29, "Greentree")
```

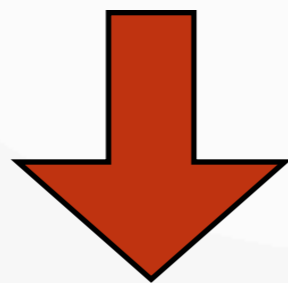
Also separated by commas

WAIT!!!!!!



Arguments: Create Multiple Arguments

```
function showMyName(name, age, loc){  
  
    message = "My name is " + name + " I am " + age +  
    " I live in " + loc;  
    alert(message);  
  
}
```



```
showMyName("Josh", 31, "Greentree")
```

Whys is 31 missing quotes



It's a number

Functions: Summary

- { Functions
- { Arguments