



RUTGERS | CODING BOOTCAMP

Session 4.3 - Making Elements Dynamically Using Arrays and Objects

Making Elements Dynamically Using Arrays and Objects

Objectives

- students will use jQuery to render HTML
- students will practice using objects with jQuery

Scope in Javascript

```
var a=1; // I am equivalent to window.a=1;
var b=2; // I am equivalent to window.b=1;

function a(){

    /// I know about variables d, c, b, a
    var c=1;
    var d=2;

    function b(){

        /// I can call function a()
        /// I know about variables f, e, d, c, b, a
        var e=1;
        var f=12;

        function c(){

            /// I can call functions b() and a()
            /// I know about variables g, f, e, d, c, b, a
            var g=1;

        }

    }

}
```

Functions in Javascript

This is an example of a function:

```
function helloWorld() {  
    alert('Hello World');  
}
```

This is an example of an anonymous function:

```
var helloWorld = function() {  
    alert('Hello World');  
}
```

```
helloWorld();
```

Lexical Scope in Javascript

Whenever you see a function within another function, the inner function has access to the scope in the outer function, this is called Lexical Scope or Closure - also referred to as Static Scope.

Variable Scope in Javascript

```
var name = 'Todd';  
var scope1 = function () {  
    // name is available here  
    var scope2 = function () {  
        // name is available here too  
        var scope3 = function () {  
            // name is also available here!  
        };  
    };  
};
```

Coding Tips

- Create a Real Programming Environment
- Make Programs From Scratch
- Start Small
- Write Lots of Code
- Ask for Help
- Ask for Help the Right Way



http://www.programmingforbeginnersbook.com/blog/when_you_know_the_basics_but_you_still_cant_code/