RUTGERS | CODING BOOTCAMP

Session 4.2 - Javascript Scope + jQuery Review

Javascript Scope + jQuery Review

Objectives

- students will demonstrate their knowledge of scope in JavaScript by solving hard scoping problems (through functions and objects)

- students will use click events with jQuery

- students will create virtual elements with jQuery and add them to the html

- students will see and explain to each other how to build a simple crystal game

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

Lexical Scope in Javascript

lex·i·cal
/ˈleksək(ə)l/

adjective

of or relating to the words or vocabulary of a language.
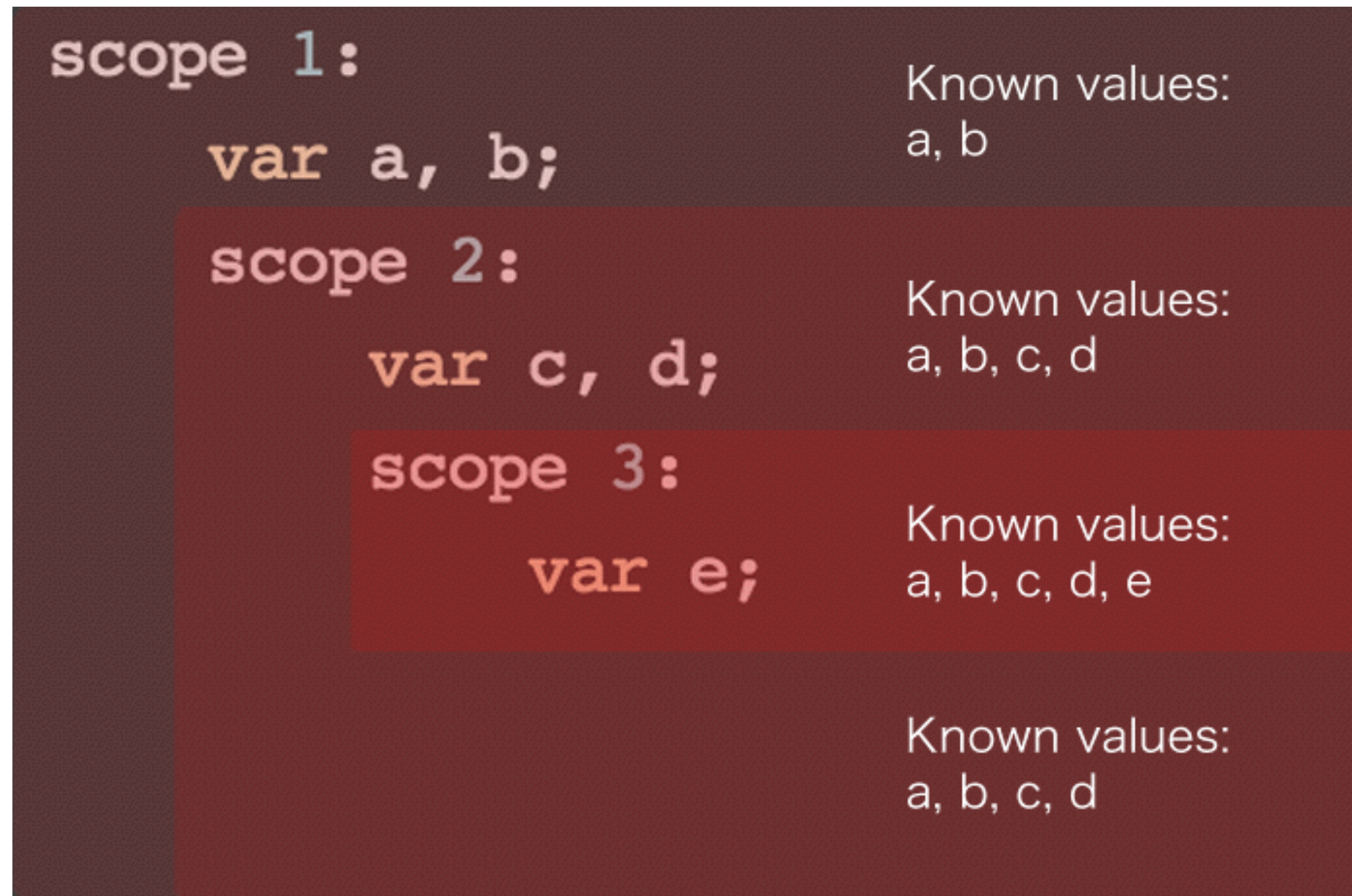"lexical analysis"

- relating to or of the nature of a lexicon or dictionary.
"a lexical entry"

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.

Lexical Scope in Javascript

Variable Scope in Javascript

```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/