

FEWD - JAVASCRIPT KARA YU

MIT, Meteor

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AGENDA

- Review
- JavaScript Object Literals Array exercises

- Image carousel Card matching game (if we have time)

JS FUNCTIONS

Named function without arguments

```
function hello() {
    console.log('world');
}
hello();
```

Named function with one argument

```
function sayHi(person) {
   console.log('hello ' + person);
}
sayHi("bob");
```

For both of these, what's the environment?

JS FUNCTIONS

Unnamed function assigned to variable

```
var anon = function() {
    console.log('I am anonymous');
};
anon();
```

Defining and executing anonymous function

```
(function() {
   console.log('I am anonymous');
})()
```

JS FUNCTION ENVIRONMENTS

What is a function's environment? When does it get set?

```
function init() {
    var name = "Mozilla";
    function displayName() {
        alert (name);
    }
    displayName();
}
init();
```

- name is a local variable created by init
- displayName is a function declared and used inside a function init
- why does the inner function have access to name?
- can other functions use displayName()?

WHY WOULD YOU STORE THE FUNCTION IN A VARIABLE?

```
function makeAdder(x) {
  return function(y) {
    return x + y;
  };
}

var add5 = makeAdder(5);
var add10 = makeAdder(10);

console.log(add5(2));
console.log(add10(7));
```

- Same code. Different environments.
- The environment gets created when function is applied

- Everything in JavaScript is an object What's an object? It's a container for properties
- They're a little like a dictionary
- A JS object literal is a list of pairs of property names and associated values of an object, enclosed in curly braces ({})

- How do you create an object literal? How do you set properties?

```
var student = {};
student.attendance = "good";
student.grades = "bad"
student.likeCandy = "false";
> student //what does this print?
> delete student.grades;
```

- You can also set all the properties at once
- "First_name", "last_name" and "address" are called properties of mickey_mouse
- How do you get Mickey's first name?

• You can also get multiple levels of nesting

How would you use these? * You can store multiple components in a variable

• How can you get all the properties/keys for an object?

```
Object.keys(student);
//what does this do?
for (var key in student) {
   var prop = student[key];
   console.log(prop);
}
```

Takeaways:

- Everything in JavaScript is an object (a list of properties and values)
 You can set properties of anything and then retrieve them later
 Object literals are an easy way to store multiple properties in the same variable



- create an index.html file and link it to a main.js file
 create a new object called dog with 4 properties (age, fur, color, height)
 change the fur property of the dog to "fluffy" ```
 if the age <10 print "woof" to the console