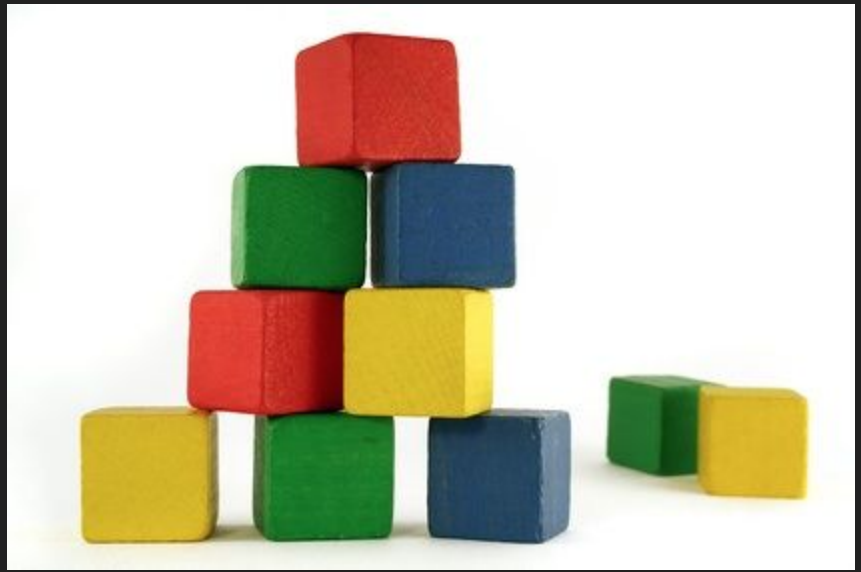
JavaScript

Part 3



Jack the Llama

Keep a log of numbers

- 2, 3, 5, 7, 11
- “2 3 5 7 11”
- Use arrays!

Try it out!

```
console.log(listOfNumbers[3]);


console.log(listOfNumbers[1]);


console.log(listOfNumbers[300-300]);
```

Properties

- Math.max
- myStr.length

something.property vs something[property]

Methods

- We don’t only have properties.

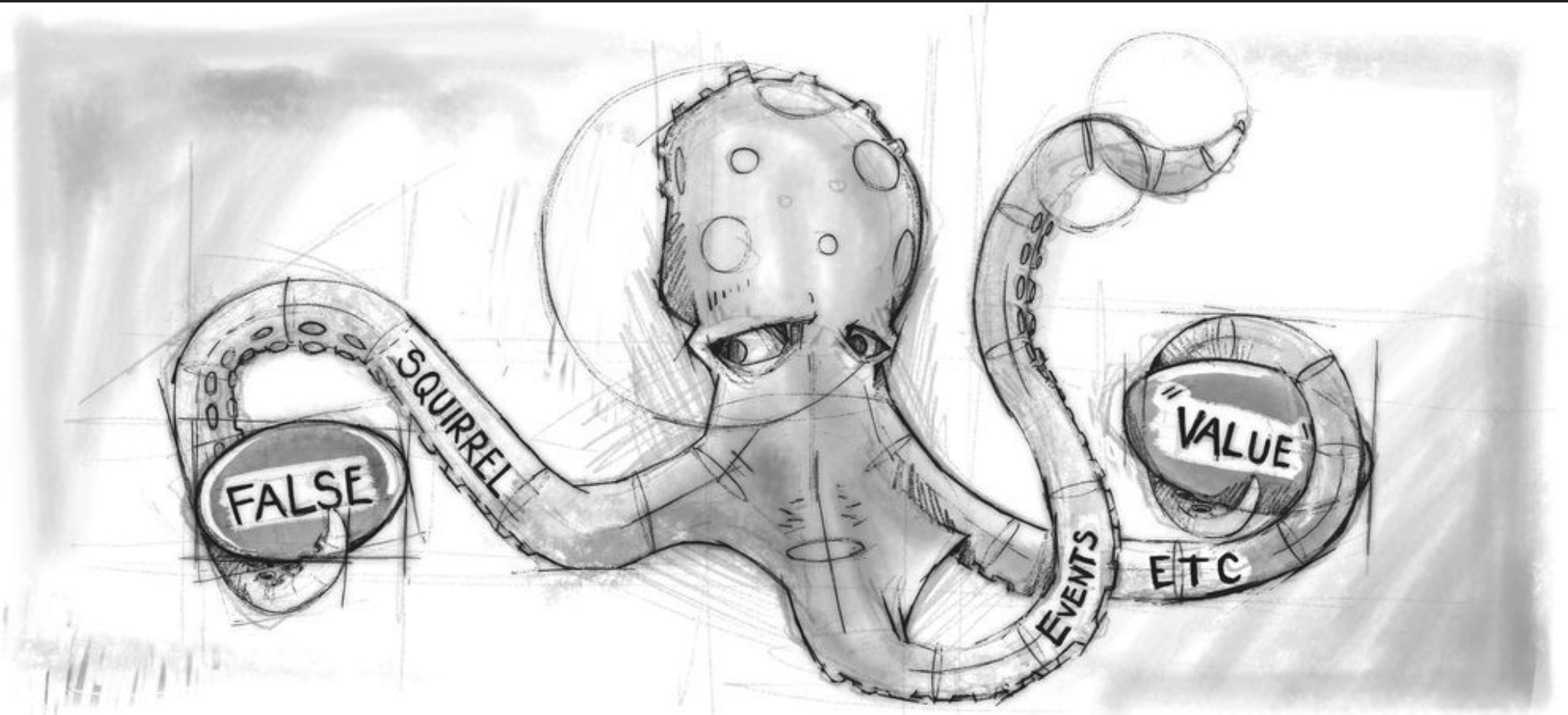
- We have methods!

- myStr.toUpperCase()

```
var pizzas = [];
pizzas.push('Pepperoni');
pizzas.push('Cheese', 'More Cheese');
console.log(pizzas);
console.log(pizzas.join(" "));
console.log(pizzas.pop());
console.log(pizzas);
```

Training Program: https://www.freecodecamp.com

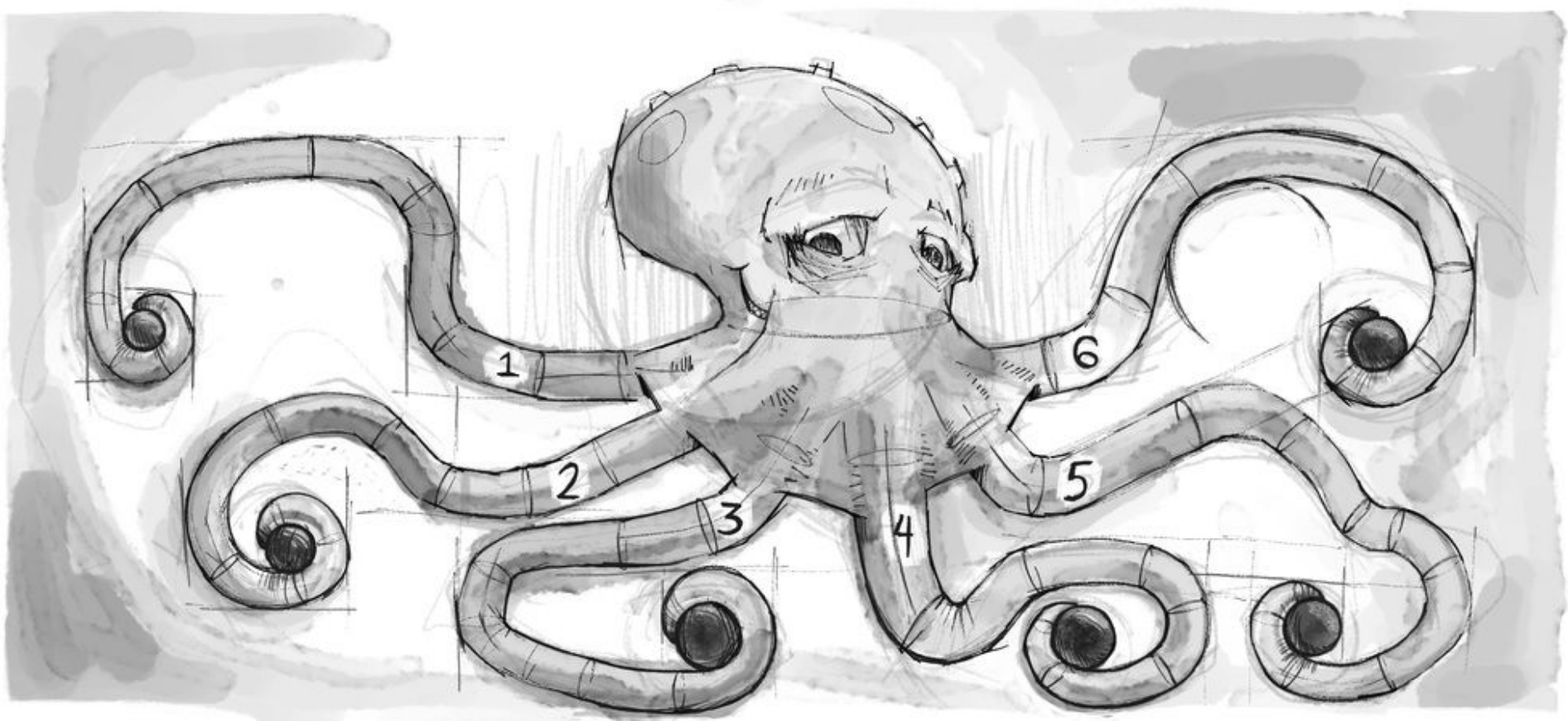
Day 1: Store Multiple Values up to Shopping List.


FALSE
SQUIRREL
EVENTS
"VALUE"
ETC

Deleting properties

```
var anObject = {left: 1, right: 2};
console.log(anObject.left);
delete anObject.left;
console.log(anObject.left);
console.log("left" in anObject);
console.log("right" in anObject);
```

Arrays are objects



```
var journal = [
    {
        events: ['work', 'pizza', 'running', 'magic beans'],
        llama: false
    },
    {
        events: ['work', 'hamburguer', 'eat grass', 'magic potatoes'],
        llama: false
    },
    {
        events: ['weekend', 'mushrooms', 'running', 'Flash'],
        llama: true
    },
]
```

Jack is not happy

Correlation or not?

$$\varphi = \frac{n_{11}n_{00} - n_{10}n_{01}}{\sqrt{n_{1\bullet}n_{0\bullet}n_{\bullet 1}n_{\bullet 0}}}$$

Explaining the formula

n11: llama and pizza

n00: no llama and no pizza

n10: llama but no pizza

n01: no llama but pizza

n1*: How many times Jack was a llama

n0*: How many times Jack was not a llama

$$\varphi = \frac{n_{11}n_{00} - n_{10}n_{01}}{\sqrt{n_{1\bullet}n_{0\bullet}n_{\bullet 1}n_{\bullet 0}}}$$

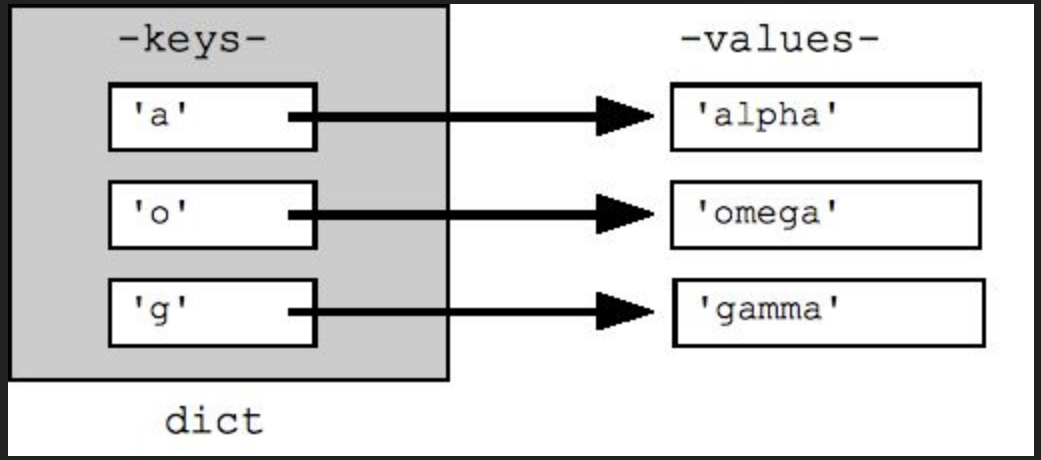
What do we need to program?

- phi

- Has the event?

- Create the table
  - Remember: NN, NY, YN, YY

Objects as maps



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Day 1: Build JavaScript objects up to Record Collection

Day 2: For Loops up to Profile Lookup

Day 3: Generate Random Fractions up to Invert Regular Expression Matches