DEV ACADEMY
TE KURA HANGARAU
O AOTEAROA

Data Structures

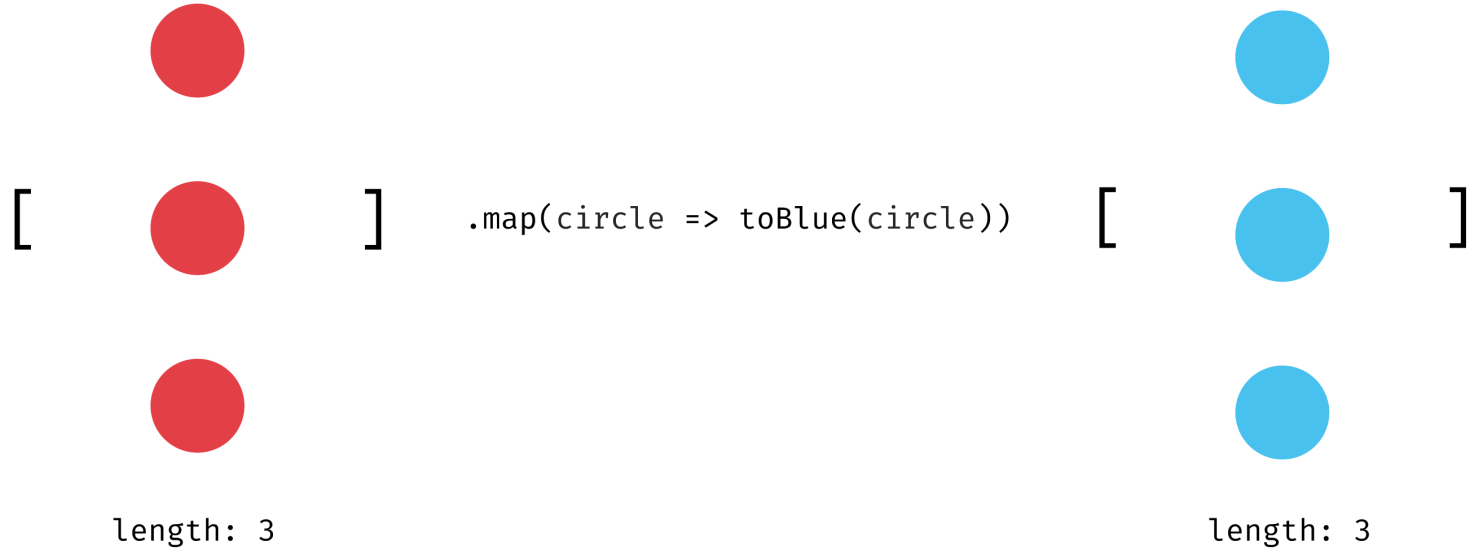
Week 1, Day 3

Agenda

- Emoji version of Array Methods
- Nested objects
- Nested arrays
- Navigating nested data structures

Array Methods - Emoji Styles

.map()



.map()

[ ]

length: 2

```
.map(animal => cook(animal / 🔥))
```

[ ]

length: 2

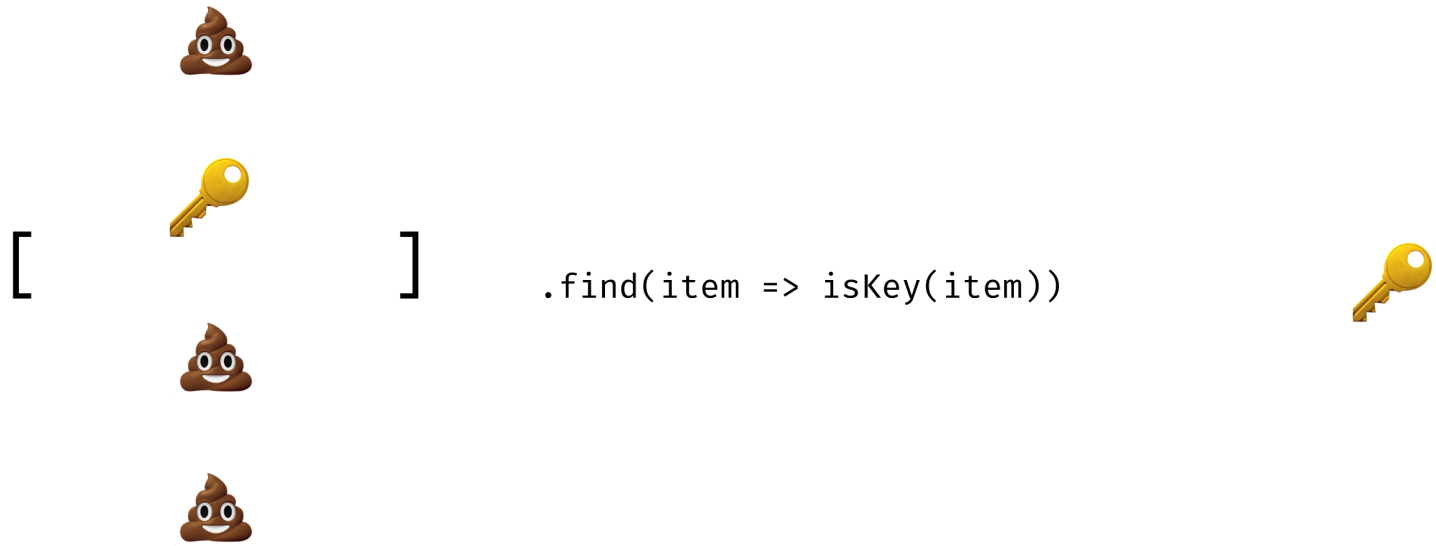
.forEach()

```
const  numbers = [1, 2, 3, 4]

numbers.forEach(num => {
   console.log(num)
})

// 1
// 2
// 3
// 4
```

.find()

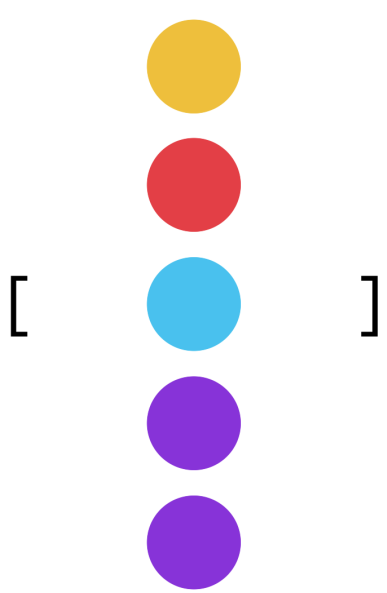


.find()

[] `.find(item => isKey(item))` **undefined**

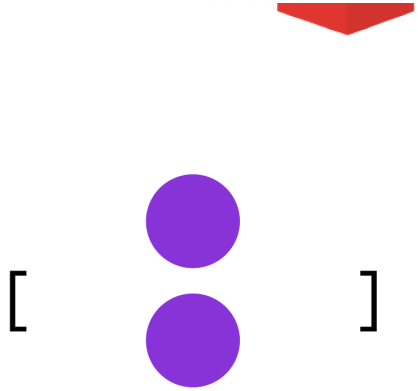
`length: 3`

.filter()



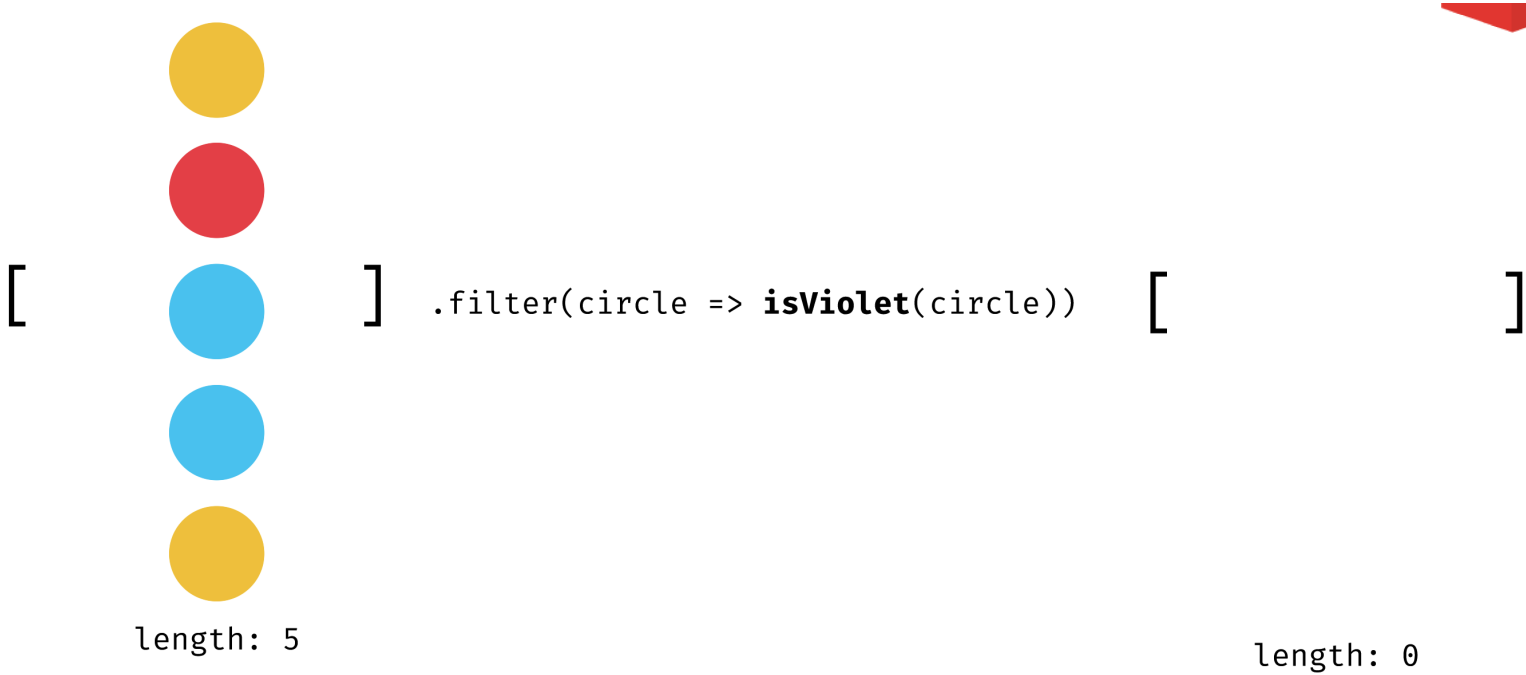
length: 5

```
.filter(input => isVioletet(input))
```



length: 2

.filter()



.filter()

`[ ]` `.filter(animal => canFly(animal))` `[ ]`

`length: 3`

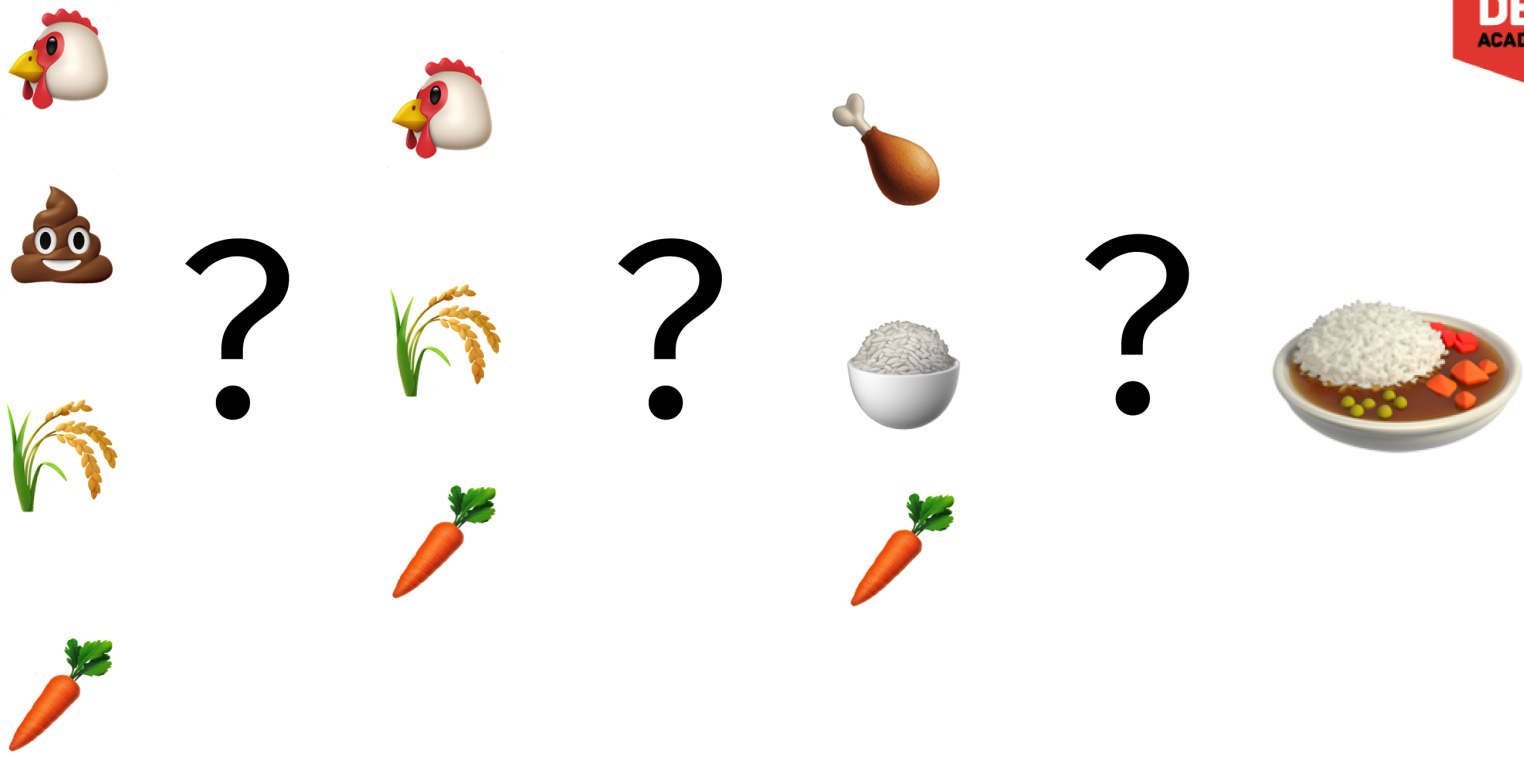
`length: 2`

.reduce()

[🧂 🧅 🍗 🥕 🍋].reduce((dish, ingred) => dish + ingred)

length: 5

mystery chaining!



Nested data structures

- Objects inside objects
  - `{ a: { b: 'c' } }`
- Objects inside arrays
  - `[ { a: 'b' }, { a: 'c' } ]`
- Arrays inside objects
  - `{ a: [ 1, 2, 3, 4 ] }`
- Arrays inside arrays (matrices)
  - `[ [1, 2], [3, 4] ]`

Model data: Cars

Demo

```
[
  {
    vehicle: 'Chevrolet Civic',
    vin: 'JCL5AWJB9PEY60889',
    fuel: 'Diesel',
    color: 'plum',
    price: 39772,
    owner: {
      name: 'Verner',
      phone: '96-574198-447145-0',
    },
  },
]
```