WEBDEVTEACHER.COM

JS Objects

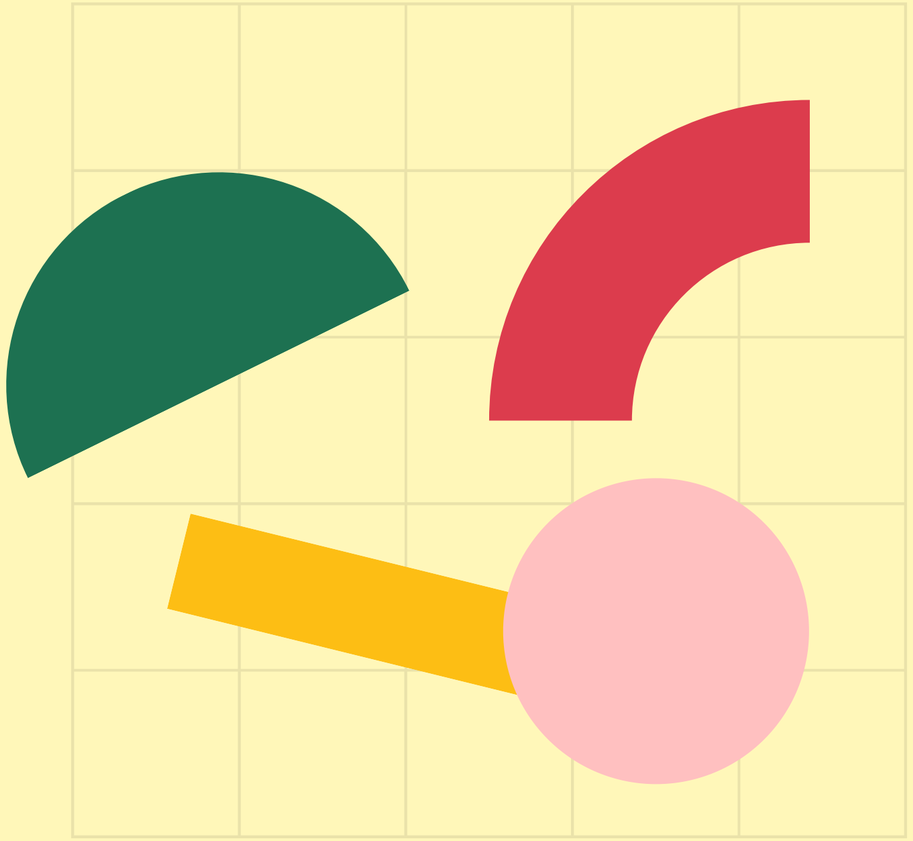
Our Second Data Structure

WEB DEVELOPMENT

Unit Goals

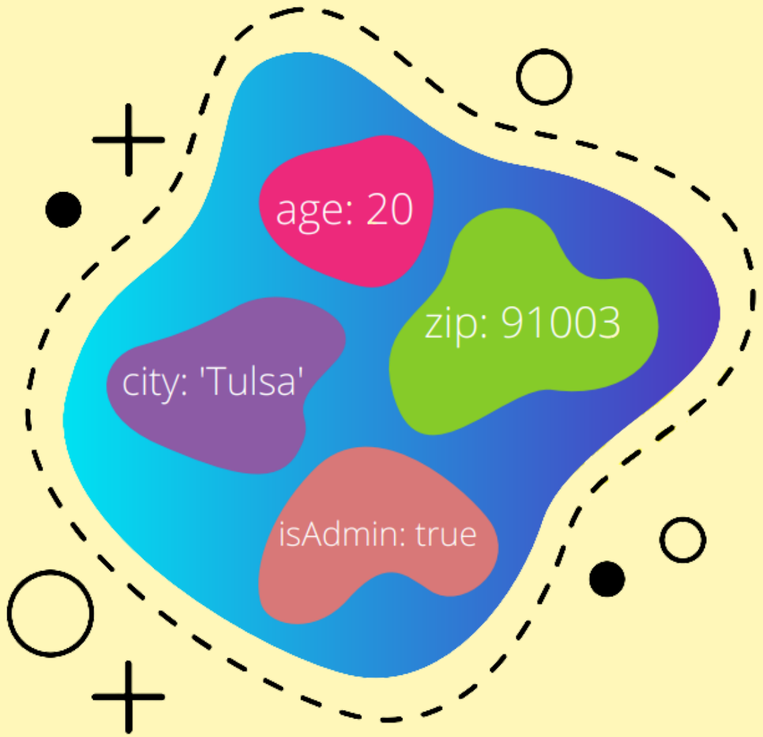
what we'll cover

- what objects are
- accessing object data
- updating and adding properties

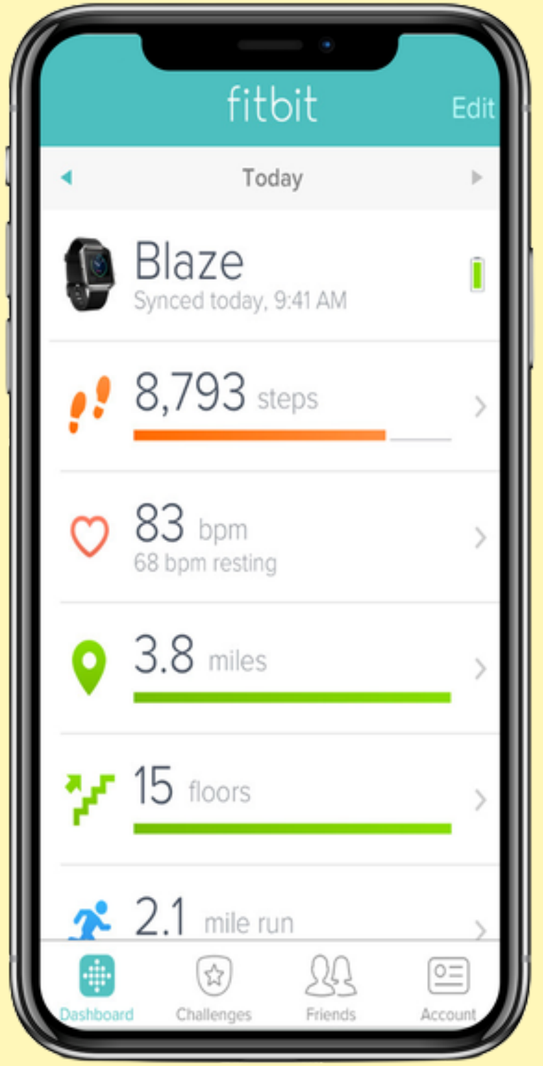


OBJECTS

- Objects are collections of **properties**.
- Properties are a key-value pair.
- Rather than accessing data using an index, we use custom keys



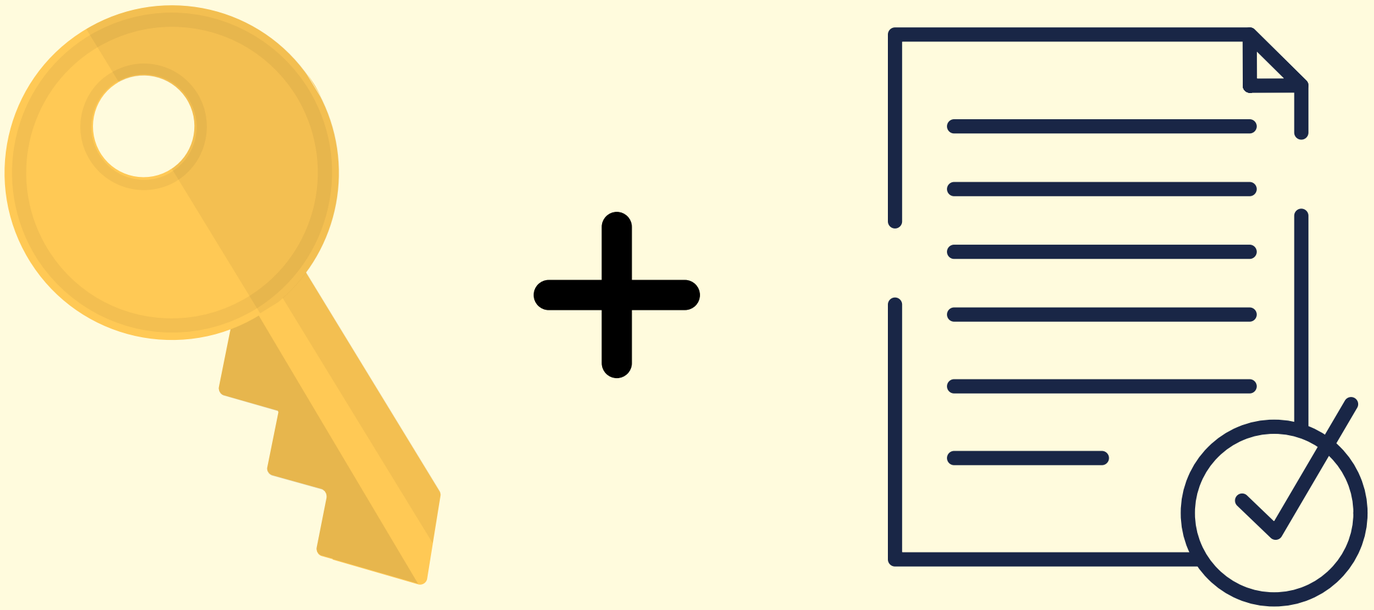
HOW WOULD YOU STORE THIS?



USING AN OBJECT

```
const fitBitData = {
    totalSteps          : 308727,
    totalMiles          : 211.7,
    avgCalorieBurn      : 5755,
    workoutsThisWeek    : '5 of 7',
    avgGoodSleep        : '2:13'
};
```

PROPERTY = KEY + VALUE



KEY - VALUE PAIRS

```
username:   "TomCat"
upvotes:    7
text:       "great post!"
```

DICTIONARY

ALL TYPES WELCOME

```
let comment = {
    username    : 'sillyGoose420',
    downVotes   : 19,
    upVotes     : 214,
    netScore    : 195,
    commentText : 'Tastes like chicken lol',
    tags: ['#hilarious', '#funny', '#silly'],
    isGilded: false
};
```

VALID KEYS

ALL KEYS ARE CONVERTED TO STRINGS*

*Except for symbols, which we haven't covered yet.

ACCESSING DATA

UPDATING AND ADDING PROPERTIES

```
const fitBitData = {
    totalSteps        : 308727,
    totalMiles        : 211.7,
    avgCalorieBurn    : 5755,
    workoutsThisWeek : '5 of 7',
    avgGoodSleep      : '2:13'
};
//Updating properties:
fitBitData.workoutsThisWeek = '6 of 7';
fitBitData.totalMiles += 7.5;

//Adding a new property
fitBitData.heartStillBeating = true;
```

ARRAYS + OBJECTS

```
const shoppingCart = [
  {
    product: 'Jenga Classic',
    price: 6.88,
    quantity: 1,
  },
  {
    product: 'Echo Dot',
    price: 29.99,
    quantity: 3
  },
  {
    product: 'Fire Stick',
    price: 39.99,
    quantity: 2
  }
]
```

```
const student = {
  firstName: 'David',
  lastName: 'Jones',
  strengths: ['Music', 'Art'],
  exams: {
    midterm: 92,
    final: 88
  }
}
```