

Web Developer Bootcamp

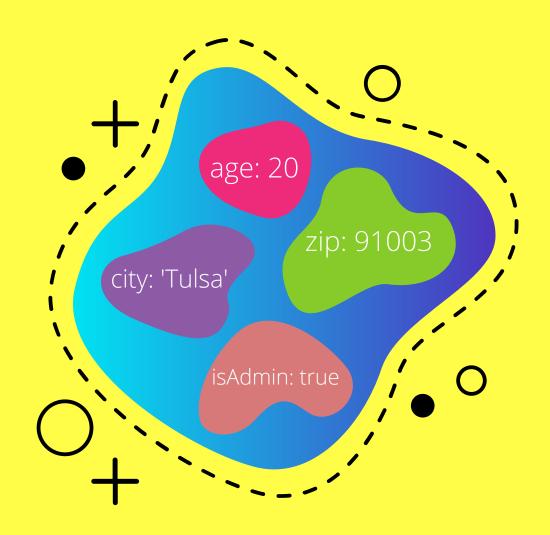
JS Objects

OUR SECOND DATA STRUCTURE!



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?





1,826

total floors

1.364 floors over last week 150.72 miles over last week



211.70

total miles



5,755

avg. daily calorie burn

1,618 cals, over last week



2312

total active minutes

1 842 min from last week



 $7_{\text{of}} 5_{\text{days}}$

exercising this week

same as previous week



2 hrs 13 min

avg. restful sleep

1 2 hrs 1 min lower than last week



Using an Object!

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

PROPERTY KEY VALUE



KEY-VALUE PAIRS

```
username: → 'crazyCatLady'
upvotes: → 7
text → 'great post!'
```

DICTIONARY

clarion:

brilliantly clear

donnybrook:

uprooad & disorder

fantod:

fecund:

fruitful in offspring

pursy:

having a puckered appearance

remonstrate:

emotional outburst argue in protest

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

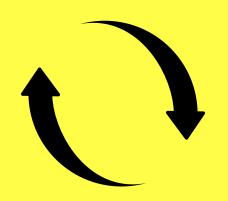


ACCESSING DATA

```
const palette = {
  red: '#eb4d4b',
  yellow: '#f9ca24',
  blue: '#30336b'
```

```
palette.red //"#eb4d4b"
palette['blue'] //"#30336b"
let color = 'yellow';
palette[color] //"#f9ca24"
```

UPDATING & ADDING PROPERTIES



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