



Web Developer Bootcamp

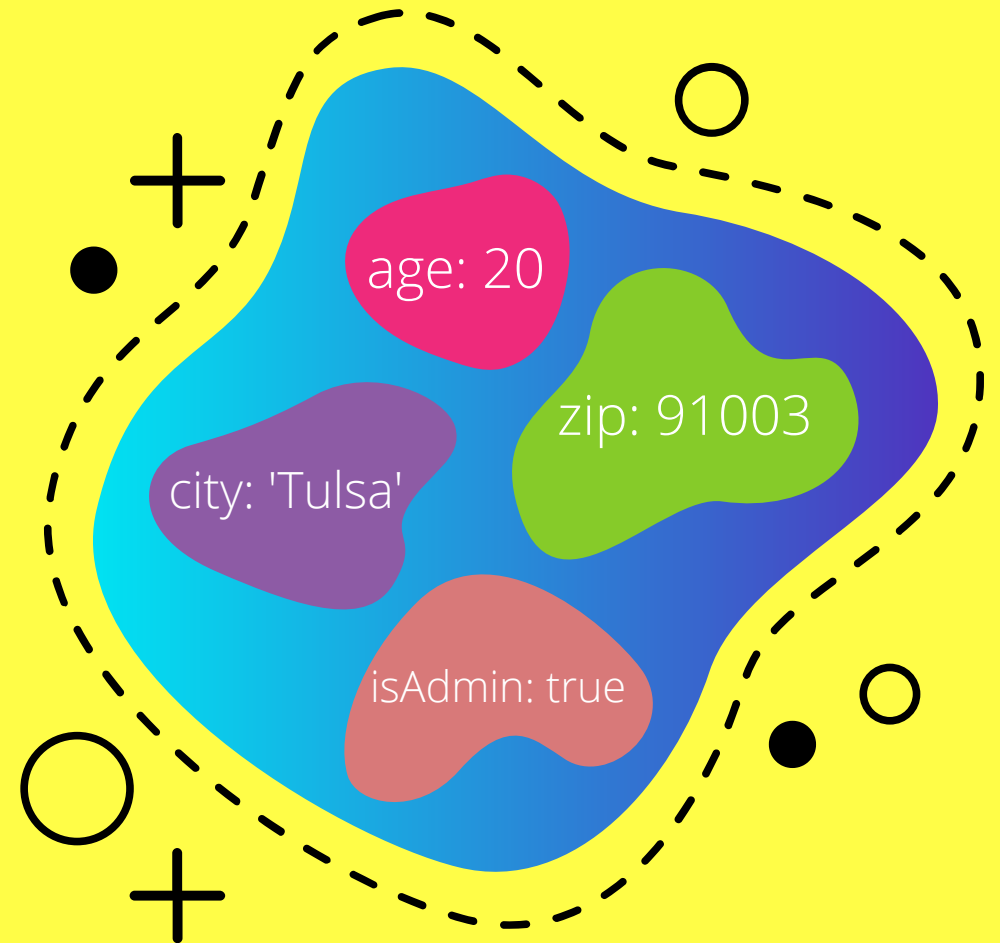
JS Objects

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?



Using an Object!

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

PROPERTY =
KEY
+
VALUE



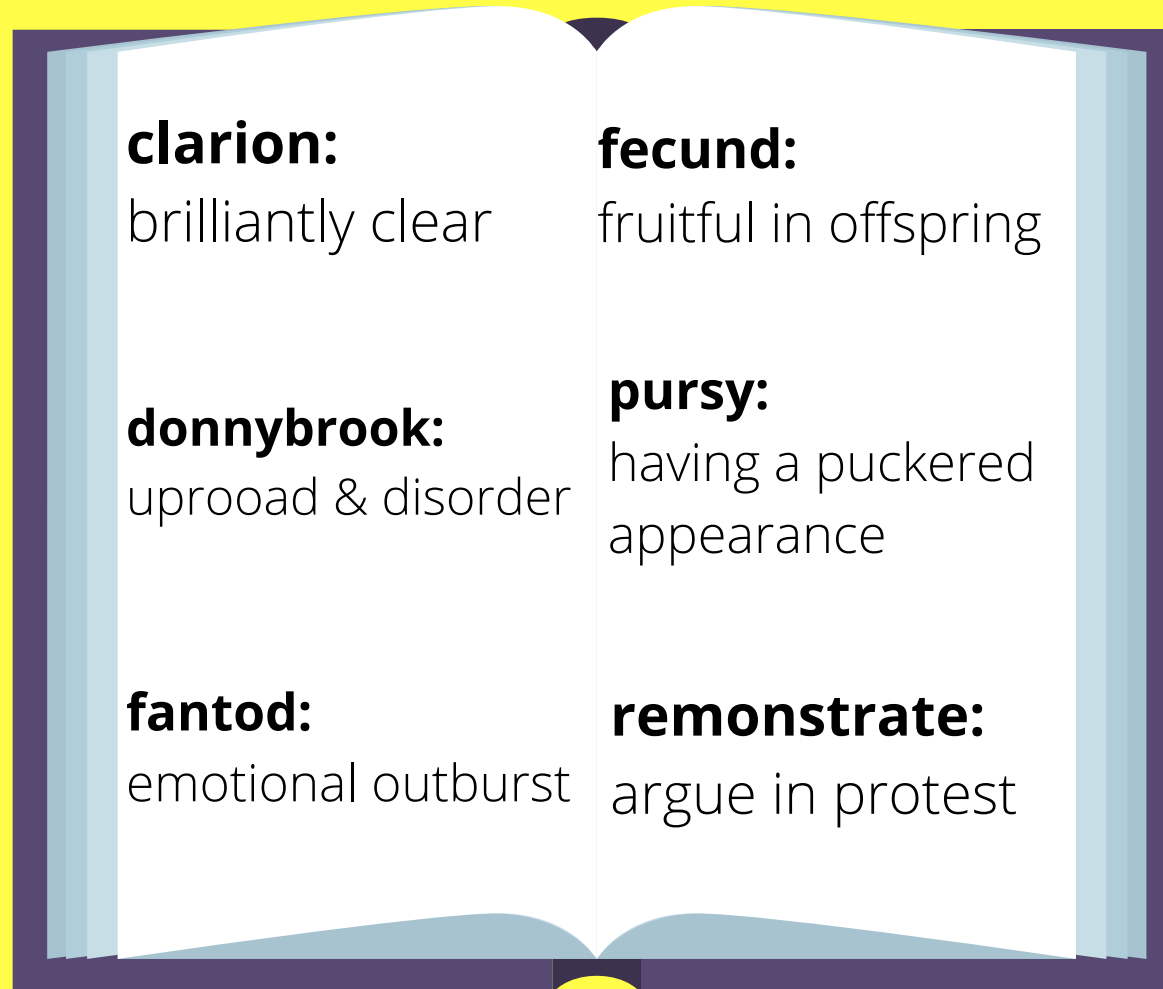
KEY-VALUE PAIRS

username: —————→ 'crazyCatLady'

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



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



```
palette.red //"#eb4d4b"
```

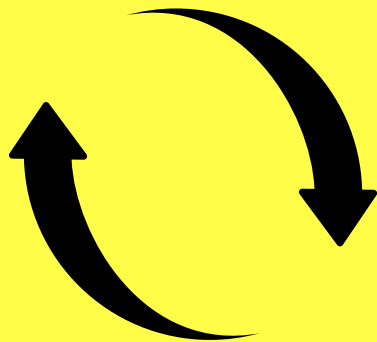


```
palette['blue'] //"#30336b"
```



```
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'
};

//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  
  }  
}
```