JSON

JavaScript Object Notation

Overview

Sometimes servers (i.e. computers with server software) need to exchange information with each other or pass data back and/or forth to clients (e.g. a browser, a Web app).

It's super useful if that data is in the same general format...

What is JSON?

- An open standard format to transmit data objects
- Uses human-readable text
- Consists of key-value pairs (e.g. "name": "Clarence")

JSON

```
"id": 2,
"firstName": "Maria",
"lastName": "Sharapov",
"photo":"1363603040.jpg"
```

XML

Remember: JSON is just a string

- JSON strings can be parsed to JavaScript objects
- JSON objects can be stringified to JSON strings

JSON to JavaScript Object

```
var json = '{"firstName":"Antoinette","lastName":"Smith"}';

// convert to object
var obj = JSON.parse(json);

// convert back to json
var backToJson = JSON.stringify(obj);
```

Quick Assignment

- Create a file named <yourFirstName>.json (e.g. my file would be antoinette. json)
- 2. Inside of that file create a JSON string that describes yourself. Include
 - a. firstName
 - b. lastName
 - c. favoriteFoods (an array)
 - d. hotLineBling (a boolean)
 - e. favoriteMovies (an array of objects, each object contains (i) movieName, (ii) releaseYear)
- 3. Run it through a JSON validator (e.g. http://jsonlint.com/) to ensure it is well-formed
- 4. Email the file to antoinette@primeacademy.io