JSON (<https://www.w3schools.com/js/js_json_intro.asp>)

JSON stands for **J**ava**S**cript **O**bject **N**otation,

It is commonly used to exchange data to/from a web server

JSON.parse() converts a JSON string to a JavaScript object

JSON.stringify() converts a JavaScript to a JSON string

Is there a difference between a JavaScript object and a JSON string?

Object: let = {name: “John”, age: 30, city = “New York”};

JSON: let = { “name”: “John”, “age”: 30, “city” = “New York”};

Data Types

The values we assign to variables all have different types. Some of the language associated with types has come up in the labs:

* a number: treated just like we expect a number to
* a string: written within quotes “”. Treated ass text
* a boolean: either **true** or **false ->** used in conditions
* an object: multiple attributes together that define data

{ attribute1: value, attribute2: value, … }

* an array:

Important thing to know about types:

We can use different operators, and perform different operations on different types. For example:

* with numbers, we use + - \* / (we know how this work, algebra)
* on a string, the + operator appends strings together

Arrays:

.length: the number of element in the array

.toString(): gets the string representation of the array

.push(element): insert element into the array (at the back)

Example:

JSON Tutorial: (<https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Objects/JSON>)

{

"squadName": "Super hero squad",

"homeTown": "Metro City",

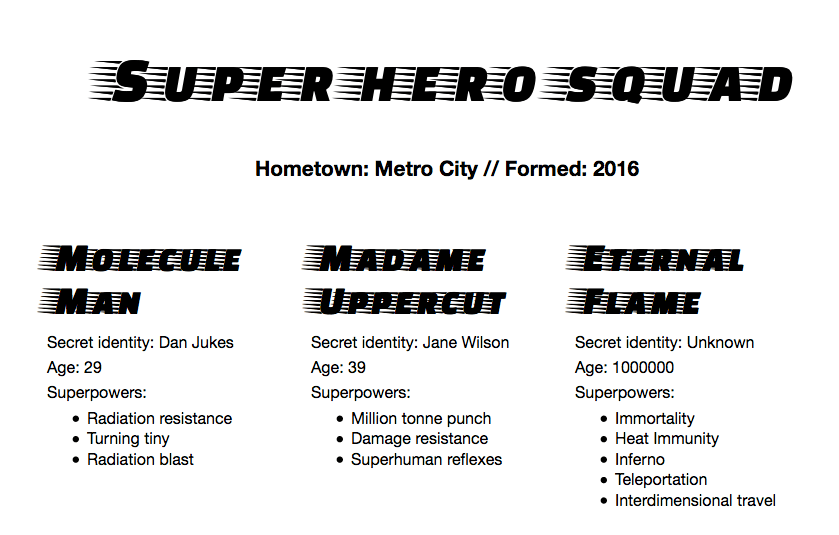
"formed": 2016,

"secretBase": "Super tower",

"active": true,

"members": [

{

 "name": "Molecule Man",

"age": 29,

"secretIdentity": "Dan Jukes",

"powers": [ "Radiation resistance",

"Turning tiny",

"Radiation blast" ]

},

{

"name": "Madame Uppercut",

"age": 39,

"secretIdentity": "Jane Wilson",

"powers": [ "Million tonne punch",

"Damage resistance",

"Superhuman reflexes" ]

},

{

"name": "Eternal Flame",

"age": 1000000,

"secretIdentity": "Unknown",

"powers": [ "Immortality",

"Heat Immunity",

"Inferno",

"Teleportation",

"Interdimensional travel" ]

}

]

}