

WEB ADVANCED

JSON & HANDLEBARS

JS OBJECTS

In JavaScript, almost "everything" is an object.

- Booleans can be objects (if defined with the **new** keyword)
- Numbers can be objects (if defined with the **new** keyword)
- Strings can be objects (if defined with the **new** keyword)
- Dates are always objects
- Maths are always objects
- Regular expressions are always objects
- Arrays are always objects
- Functions are always objects
- Objects are always objects

All JavaScript values, except primitives, are objects.

https://www.w3schools.com/js/js_object_definition.asp

JavaScript defines 5 types of primitive data types:

- string**
- number**
- boolean**
- null**
- undefined**

JS OBJECT

Name: Bart

Last Name: Simpson

Age: 10



JS OBJECT

Name: Bart

Last Name: Simpson

Age: 10

```
var person = {  
  "name": "Bart",  
  "lastName": "Simpson",  
  "age": 10  
}
```



JS OBJECTS

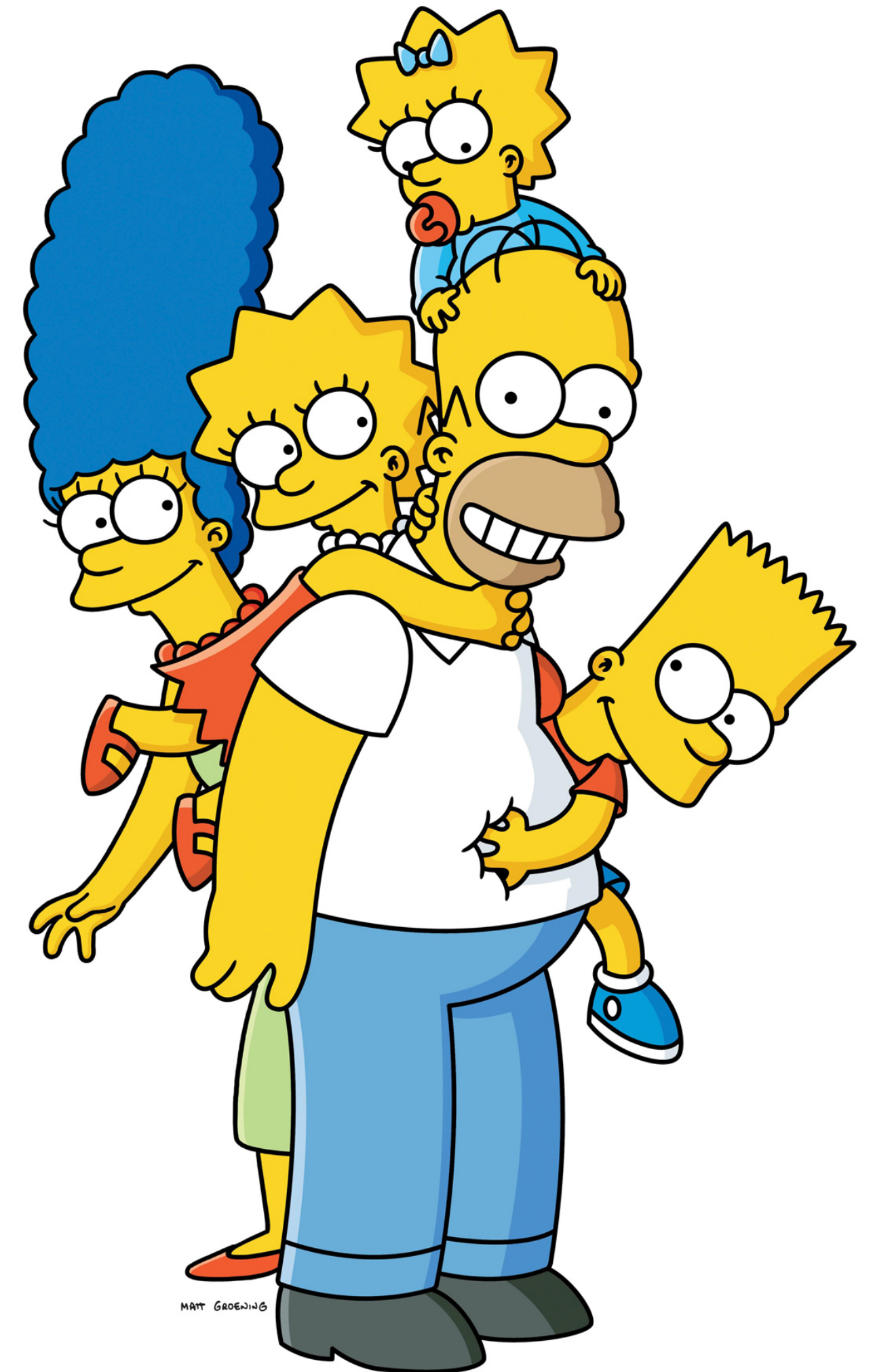
Name: Homer
Last Name: Simpson
Age: 39

Name: Marge
Last Name: Simpson
Age: 36

Name: Bart
Last Name: Simpson
Age: 10

Name: Lisa
Last Name: Simpson
Age: 8

Name: Maggie
Last Name: Simpson
Age: 1



JS OBJECTS

Name: Homer
Last Name: Simpson
Age: 39

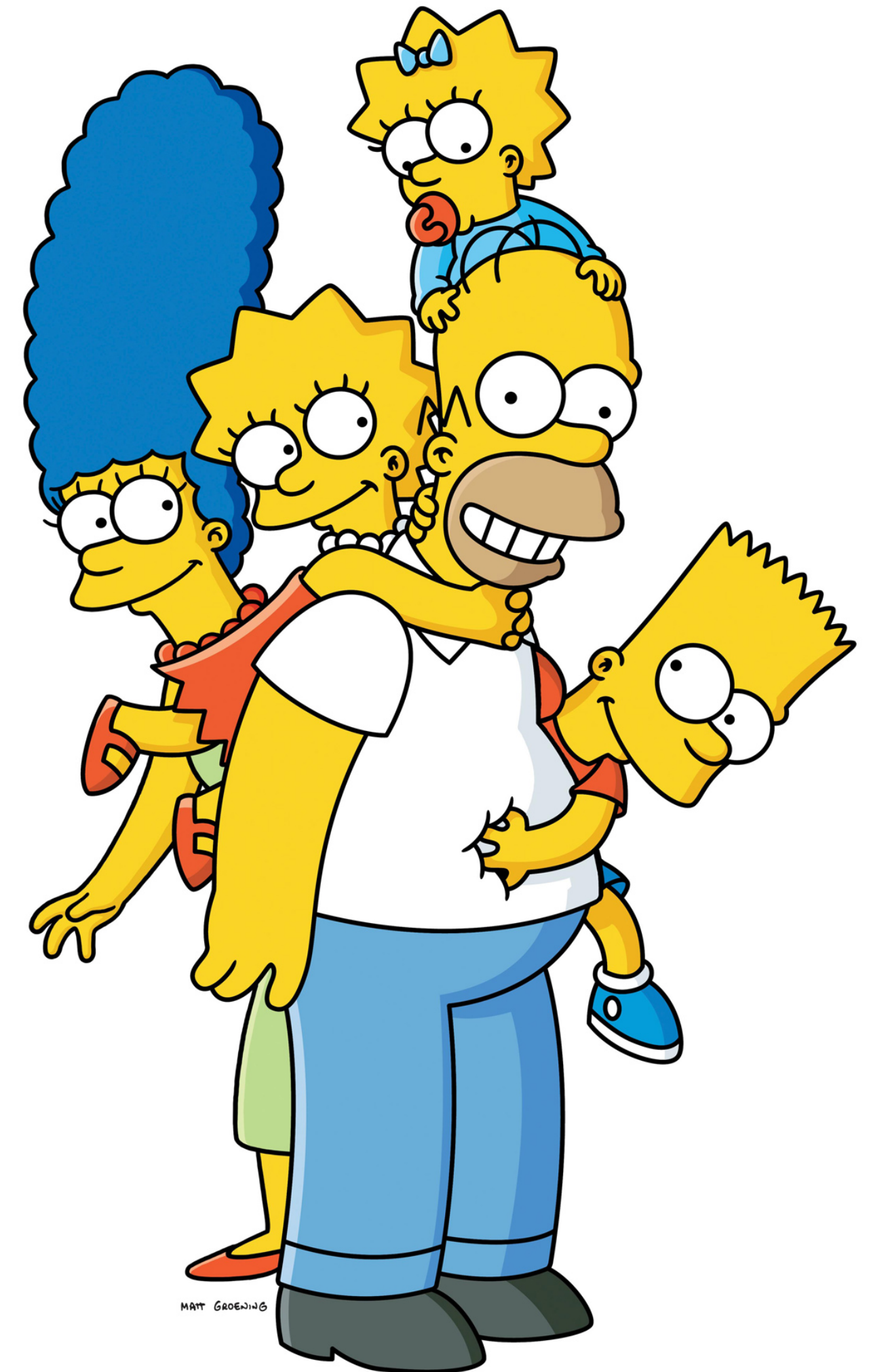
Name: Marge
Last Name: Simpson
Age: 36

Name: Bart
Last Name: Simpson
Age: 10

Name: Lisa
Last Name: Simpson
Age: 8

Name: Maggie
Last Name: Simpson
Age: 1

```
var family = {"simpsons":[  
  {  
    "name":"Homer",  
    "lastName":"Simpson",  
    "age": 39  
  },  
  {  
    "name":"Marge",  
    "lastName":"Simpson",  
    "age": 36  
  },  
  {  
    "name":"Bart",  
    "lastName":"Simpson",  
    "age": 10  
  },  
  {  
    "name":"Lisa",  
    "lastName":"Simpson",  
    "age": 8  
  },  
  {  
    "name":"Maggie",  
    "lastName":"Simpson",  
    "age": 1  
  }  
]}
```



JSON

JSON

JavaScript Object Notation

JSON is a lightweight data-interchange format. It is easy for humans to read and write.

* The JSON syntax is derived from JavaScript object notation syntax, but the JSON format is text only. Code for reading and generating JSON data can be written in any programming language.

<https://www.json.org/>



HANDLEBARS.JS

HANDLEBARS.JS

Written in JavaScript, Handlebars.js is a compiler that takes any HTML and Handlebars expression and compiles them to a JavaScript function. This derived JavaScript function then takes one parameter, an object—your data—and it returns a string with the HTML and the object properties' values inserted into the HTML.

HANDLEBARS.JS

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Allows you to build semantic templates easier

HANDLEBARS.JS

Installation

DOWNLOAD

Or

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/handlebars.js/4.3.1/handlebars.min.js"></script>
```


HANDLEBARS.JS

HTML

```
<script id="entry-template" type="text/x-handlebars-template">
```

```
Your template goes here!
```

```
</script>
```

HANDLEBARS.JS

JS: Compile Template

```
var source    = document.getElementById("entry-template").innerHTML;  
var template = Handlebars.compile(source);
```

JS: Execute the template

```
var context = {title: "My New Post", body: "This is my first post!"};  
var html    = template(context);
```

LET'S CODE