

## 1. Difference between HTTP1.1 vs HTTP2 ?

	<u>HTTP1.1</u>	<u>HTTP2</u>
➤ <b>Multiplexing</b>	HTTP1.1 loads resources one after the other,so if one resource cannot be loaded, it blocks all the other resources behind it.	HTTP2 is able to use a single TCP connection to send multiple streams of data at once so that no one resource blocks any other resource.
➤ <b>Header compression</b>	Headers are sent on every request leading to a lot of duplicate data being sent uncompressed across the wire.	HTTP2 uses a more advanced compression method called HPACK that eliminates redundant information in HTTP header packets.
➤ <b>Prioritization</b>	In HTTP1.1 prioritization is fixed since the page resources load one after the other	HTTP/2 offers a feature called weighted prioritization. This allows developers to decide which page resources will load first, every time.
➤ <b>Connectivity</b>	It supports connection reuse i.e. for every TCP connection there could be multiple requests and responses, and pipelining where the client can request several resources from the server at once.	Uses multiplexing, where over a single TCP connection resources to be delivered are interleaved and arrive at the client almost at the same time.
➤ <b>Authentication</b>	It is relatively secure since it uses digest authentication	It is better equipped to deal with new TLS features like connection error of type - Inadequate Security.
➤ <b>Protocol Type</b>	Text based protocol that is in the readable form.	It is a binary protocol (HTTP requests are sent in the form of 0s and 1s).Needs to be converted back from binary in order to read it.

## 2. Write a blog about objects and its internal representation in Javascript?

An object is **a standalone entity, with properties and type**. example: A cup is an object, with properties. A cup has a color, a design, weight, a material it is made of, etc. The same way, JavaScript objects can have properties, which define their characteristics.

There are two types of object properties: The ***data* property** and the ***accessor* property**. Each property has corresponding *attributes*.

- Data properties associate a key with a value.
- Associates a key with one of two accessor functions (get and set) to retrieve or store a value.

### Create JavaScript Object with Object Literal

One of easiest way to create a javascript object is object literal, simply define the property and values inside curly braces as shown below

Example:

```
let bike = {name: 'SuperSport', maker:'Ducati', engine:'937cc'};
```

### Create JavaScript Object with Constructor

Constructor is nothing but a function and with help of new keyword, constructor function allows to create multiple objects of same flavor as shown below

```
function Vehicle(name, maker) {  
  this.name = name;  
  this.maker = maker;  
}  
let car1 = new Vehicle('Fiesta', 'Ford');  
let car2 = new Vehicle('Santa Fe', 'Hyundai')  
console.log(car1.name);    //Output: Fiesta  
console.log(car2.name);    //Output: Santa Fe
```

## Using the JavaScript Keyword new

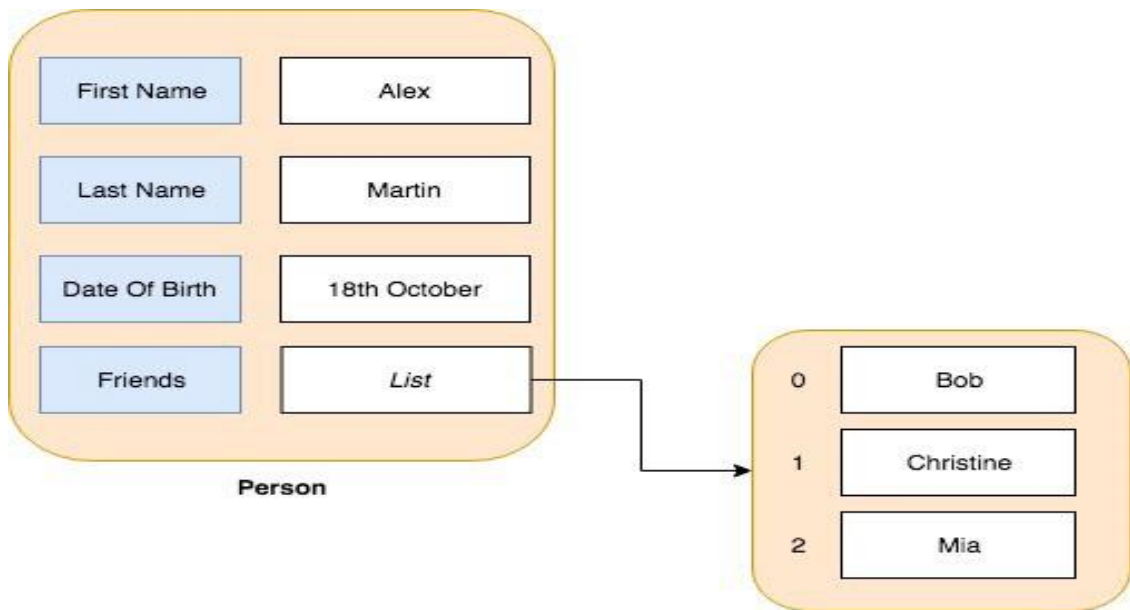
The following example also creates a new JavaScript object with four properties:

```
Example: var person = new Object();  
person.firstName = "Jay";  
person.lastName = "Doe";
```

## Using the `Object.create` method

Objects can also be created using the `Object.create()` method. This method can be very useful, because it allows you to choose the prototype object for the object you want to create, without having to define a constructor function.

```
var Animal = {  
  type: 'wild', // Default value of properties  
  displayType: function() { // Method which will display Animal  
    console.log(this.type);  
  }  
};  
  
// Create new animal type called Fishes  
var fish = Object.create(Animal);  
fish.type = 'Fishes';  
fish.displayType(); // Output:Fishes
```



**Pictorial representation of Object and internal details**