

JavaScript Data Types

• A datatype is a set of possible values and a set of operations on it

• There are 7 basic data types in JS:

1. Number: for numbers of any kind: integer (-1, 24, 0) or floating-point (2.343, 1.0, 3.14159265). **let x = 1;** or **let x = 1.5;**

2. **String:** for characters or strings of characters (let `x = "Sam";` or `'My name is Sam.'` or `"the creepy and specific identification of your location stored as a string such as 123 Rainbow dr"`)

3. Boolean: for true or false

4 Null: special value which represents ‘nothing’, ‘empty’: let x = null;

5. **Undefined:** for unsigned values (e.g. variables declared but not defined) **let x;** or **let x = [];** for an undeclared array)

6. **Object:** for more complex data structures (object-oriented programming) `const car = {type: 'Fiat', model: '500', color: 'white'};`

7. **Symbol(new):** taken that `new` as `uniqueID` as `var symbol1=Symbol('prop');`

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- There are 7 basic data types in JS:
 1. **Number:** for numbers of any kind: integer (-1, 24, 0) or floating-point (2.343, 1.0, 3.14159265). **let x = 1;** or **let x = 1.5;**
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 3. **Boolean:** for true or false
 4. **Null:** a special value which represents "nothing", "empty": **let x = null;**
 5. **Undefined:** for unassigned values (e.g. variables declared but not defined) **let x;** **let x;** or **let x = [];** for an undeclared array)
 6. **Object:** for more complex data structures (object-oriented programming) **const car = {type:"Fiat", model:"500", color:"white"};**
 7. **Symbol (new):** token that serves as unique IDs **var symbol1 = Symbol("prop");**

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Objects

```
▼ {  
  "message": "success",  
  ▼ "people": [  
    ▼ {  
      "name": "Cai Xuzhe",  
      "craft": "Tiangong"  
    },  
    ▼ {  
      "name": "Chen Dong",  
      "craft": "Tiangong"  
    },  
    ▼ {  
      "name": "Liu Yang",  
      "craft": "Tiangong"  
    },  
  ],  
}
```