JavaScript Data Types

- A data type is a set of possible values and a set of allowed 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:** 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

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