Data Types

number	var myNum = 123.456;	Series of numbers; decimals ok; double-precision floating-point format
string	var myString = "abc-def";	Series of characters (letters, numbers, or symbols); double-quoted UTF-8 with backslash escaping
boolean	var myBool = true;	true or false
array	var myArray = ["a", "-b", "c", "-d"];	sequence of comma-separated values (any data type); enclosed in square brackets
object	var myObject = { "id": 7 };	unordered collection of comma-separated key/value pairs; enclosed in curly braces; properties (keys) are distinct strings
null	var myNull = null;	variable with null (empty) value
undefined	var myUnde-fined;	variable with no value assigne

Objects

```
var myObject = {
    " fir st": " Joh n",
    " las t": " Doe ",
    " age ": 39,
    " sex ": " mal e",
    " sal ary ": 70000,
    " reg ist ere d": true
};
```

Access object properties

myObject.sex	returns "male"
myObject["age"]	returns 39
myObject[0]	returns "John"
myObject.something	returns undefined
myObject[6]	returns undefined

Array of objects

```
var myArray = [
   {
        " fir st": " Joh n",
        " las t": " Doe ",
        " age ": 39,
        " sex ": " mal e",
        " sal ary ": 70000,
        " reg ist ere d": true
   },
   {
        " fir st": " Jan e",
        " las t": " Smi th",
        " age ": 42,
        " sex ": " fem ale ",
        " sal ary ": 80000,
        " reg ist ere d": true
   },
   {
```

Array of objects (cont)

```
>    "first": "Amy",
    "last": "Burnquist",
    "age": 29,
    "sex": "female",
    "salary": 60000,
    "registered": false
  }
];
```

Access array elements

myArray[0]	returns { "fist": "John", "las-t": "Doe" ... }
myArray[1]	returns { "fist": "Jane", "las-t": "Smith" ... }
myArra-y[1].first	returns "Jane"
myArray[1][2]	returns 42
myArray[2].r-egistered	returns false
myArray[3]	returns undefined
myArra-y[3].sex	error: "cannot read proper-ty..."

Arrays

```
var myArray = [
     " Joh n",
     " Doe ",
    39,
     " M",
     70000,
    true
];
```



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Access array elements

myArray[1]	returns "Doe"
myArray[5]	returns true
myArray[6]	returns undefined

Nested objects and arrays

```
var myObject = {
    " ref ": {
        " fir st": 0,
        " las t": 1,
        " age ": 2,
        " sex ": 3,
        " sal ary ": 4,
        " reg ist ere d": 5
   },
    " jdo e1": [
        " Joh n",
        " Doe ",
       39,
        " mal e",
        70000,
       true
   ],
    " jsm ith 1": [
        " Jan e",
        " Smi th",
       42,
        " fem ale ",
        80000,
       true
   ]
};
```

Access nested elements

myObject.ref.first	returns 0
myObject.jdoe1	returns ["John", "-Doe", 39 ...]
myObject[2]	returns ["Jane", "-Smith", 42 ...]
myObject.jsmith1[3]	returns "female"
myObject[1][5]	returns true
myObject.jdoe1[myO-bject.ref.last]	returns "Doe"
myObject.jsmith1[m-yObject.ref.age]	returns 42

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