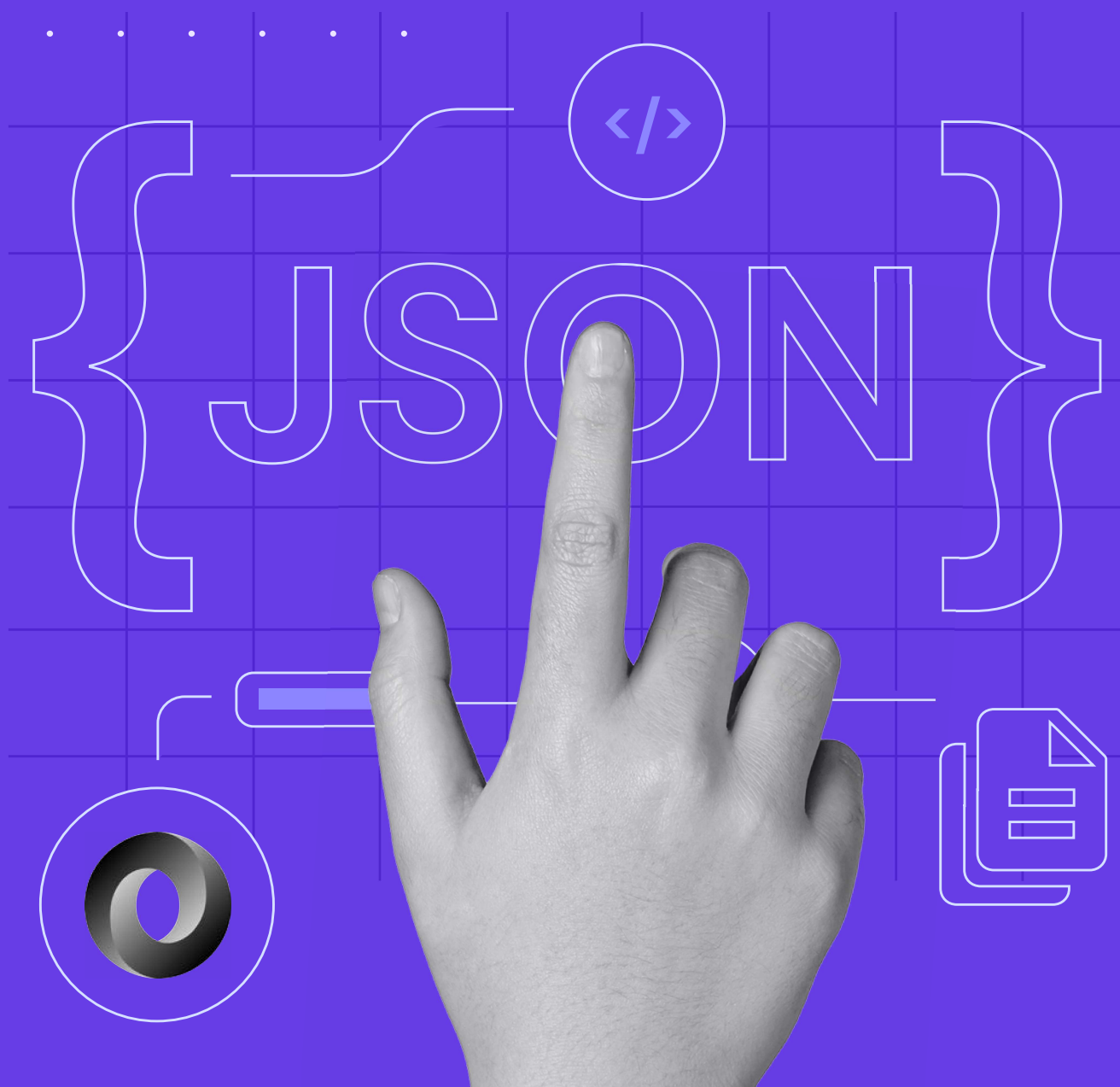
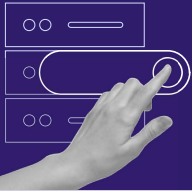


# JSON Cheat Sheet





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# JSON Cheat Sheet

## JSON Syntax

The JSON syntax is largely a subset of the JavaScript syntax. Here are its core components:

- **Key/value** pairs represent data.
- Data is separated by commas.
- Curly brackets `{}` represent objects.
- Square brackets `[]` delineate arrays.

Therefore, JSON syntax looks like this:

```
{"key":"value","key":"value","key":"value"}
```

## Types of Values

There are six kinds of values in JSON.

### 1 Arrays

An array is an ordered list of values that are surrounded by square brackets, each separated by a comma. For example:

```
[  
  {"firstName":"Jack", "lastName":"Smith"},  
  {"firstName":"Jane", "lastName":"Perkins"},  
  {"firstName":"Richard", "lastName":"Kilmer"}  
]
```

### 2 Objects

An object contains a key and value separated by a colon. There is a comma after every pair. All elements are inside sets of quotation marks. For example:

```
{  
  "spouse":{  
    "firstName":"John",  
    "lastName":"Smith"  
  }  
}
```

### 3 Strings

A string is a set of sequences of zero or more Unicode characters with double quotation marks enclosing them. For example:

```
{"city":"London"}
```

### 4 Numbers

A number contains either an integer or a floating point. For example:

```
{"age":45}
```

### 5 Boolean

A boolean contains true or false as values. For example:

```
{"active":true}
```

### 6 Null

This value shows that there is no information. For example:

```
{"middleName":null}
```

## Coding with JSON

Here is an example of JSON data:

```
{
  "name":"Jennifer",
  "age":39,
  "religion":null,
  "married":true,
  "spouse":{"firstName":"John", "lastName":"Smith"},
  "children":[{
    "firstName":"Jackson","lastName":"Smith"},
    {"firstName":"Jackie","lastName":"Smith"},
    {"firstName":"Jacob","lastName":"Smith"},
    {"firstName":"Jacinda","lastName":"Smith"},
  ]
}
```



Here's what each pair indicates:

- **"name":"Jada"** is a string.
- **"age":39** is a numeric value.
- **"religion":null** represents a null.
- **"married":true** is a boolean.
- **"spouse":{"firstName":"John", "lastName":"Smith"}** is an object literal.
- An array is represented from the sixth line onwards.