JSON
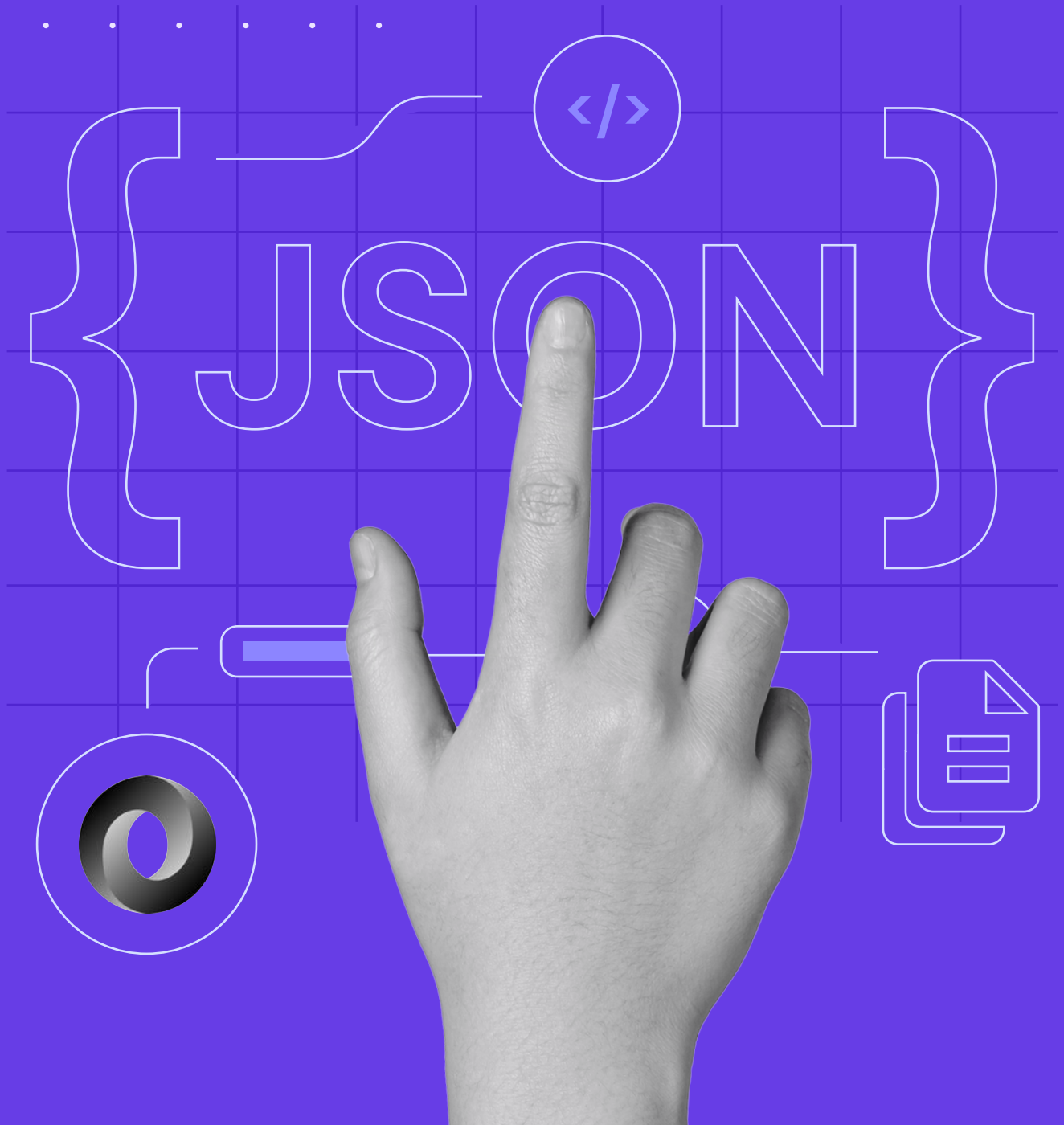# Cheat Sheet

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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.