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Python JSON

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JSON is a syntax for storing and exchanging data.

JSON is text, written with JavaScript object notation.

JSON in Python

Python has a built-in package called json, which can be used to work with JSON data.

Example

Get your own Python Server

Import the json module:

import json

Parse JSON - Convert from JSON to Python



Example

Convert from JSON to Python:

```
import json

# some JSON:
x = '{ "name":"John", "age":30, "city":"New York"}'

# parse x:
y = json.loads(x)

# the result is a Python dictionary:
print(y["age"])
```

Try it Yourself »

Convert from Python to JSON

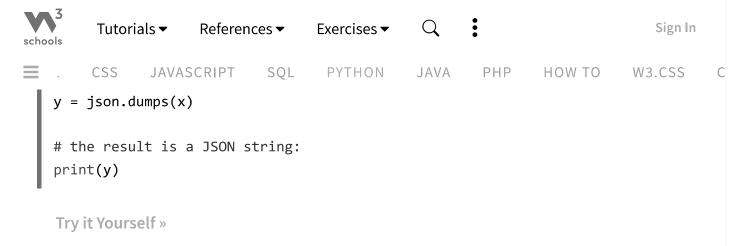
If you have a Python object, you can convert it into a JSON string by using the <code>json.dumps()</code> method.

Example

Convert from Python to JSON:

```
import json

# a Python object (dict):
x = {
    "name": "John",
    "age": 30,
```



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You can convert Python objects of the following types, into JSON strings:

- dict
- list
- tuple
- string
- int
- float
- True
- False
- None

```
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```

```
import json

print(json.dumps({"name": "John", "age": 30}))
print(json.dumps(["apple", "bananas"]))
print(json.dumps(("apple", "bananas")))
print(json.dumps("hello"))
print(json.dumps(42))
print(json.dumps(31.76))
print(json.dumps(True))
print(json.dumps(False))
print(json.dumps(None))
```

Try it Yourself »

When you convert from Python to JSON, Python objects are converted into the JSON (JavaScript) equivalent:

Python	JSON
dict	Object
list	Array
tuple	Array
str	String
int	Number
float	Number
True	true
False	false
None	null



```
import json

x = {
    "name": "John",
    "age": 30,
    "married": True,
    "divorced": False,
    "children": ("Ann","Billy"),
    "pets": None,
    "cars": [
        {"model": "BMW 230", "mpg": 27.5},
        {"model": "Ford Edge", "mpg": 24.1}
    ]
}

print(json.dumps(x))
```

Try it Yourself »

Format the Result

The example above prints a JSON string, but it is not very easy to read, with no indentations and line breaks.

The <code>json.dumps()</code> method has parameters to make it easier to read the result:

Example

Use the indent parameter to define the numbers of indents:

```
json.dumps(x, indent=4)
```

Try it Yourself »



Example

Use the separators parameter to change the default separator:

```
json.dumps(x, indent=4, separators=(". ", " = "))
```

Try it Yourself »

Order the Result

The json.dumps() method has parameters to order the keys in the result:

Example

Use the <code>sort_keys</code> parameter to specify if the result should be sorted or not:

```
json.dumps(x, indent=4, sort_keys=True)
```

Try it Yourself »

Exercise?

When you parse code with the <code>json.loads()</code> method, the result is returned as a specific Python data type, which one?

- O list
- O set
- O tuple



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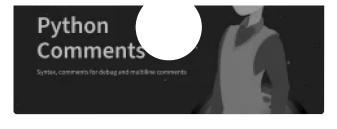
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