



Read JSON file using Python

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The full-form of JSON is JavaScript Object Notation. It means that a script (executable) file which is made of text in a programming language, is used to store and transfer the data. Python supports JSON through a built-in package called json. To use this feature, we import the json package in Python script. The text in JSON is done through quoted-string which contains the value in key-value mapping within { }.

Reading From JSON

It's pretty easy to load a JSON object in Python. Python has a built-in package called json, which can be used to work with JSON data. It's done by using the JSON module, which provides us with a lot of methods which among loads() and load() methods are gonna help us to read the JSON file.

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Deserialization of JSON

The Deserialization of JSON means the conversion of JSON objects into their respective Python objects. The load()/loads() method is used for it. If you have



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JSON OBJECT	PYTHON OBJECT
object	dict
array	list
string	str
null	None
number (int)	int
number (real)	float
true	True
false	False

json.load(): json.load() accepts file object, parses the JSON data, populates a Python dictionary with the data and returns it back to you.

Syntax:

```
json.load(file object)
```

Example: Suppose the JSON file looks like this:



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```
{
  "emp_name": "Gaurav",
  "email": "gaurav.singh@gmail.com",
  "job_profile": "developer"
},
{
  "emp_name": "Nikhil",
  "email": "nikhil@geeksforgeeks.org",
  "job_profile": "Full Time"
}
]
```

We want to read the content of this file. Below is the implementation.

Python3

```
# Python program to read
# json file

import json

# Opening JSON file
f = open('data.json')

# returns JSON object as
# a dictionary
data = json.load(f)

# Iterating through the json
# list
for i in data['emp_details']:
    print(i)

# Closing file
f.close()
```

Output:



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```
{'emp_name': 'Gaurav', 'email': 'gaurav.singh@gmail.com', 'job_profile': 'developer'}  
{'emp_name': 'Nikhil', 'email': 'nikhil@geeksforgeeks.org', 'job_profile': 'Full Time'}
```



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using fileobject.read() with json.loads() we can return the content of the file.

Syntax:

```
json.loads(jsonstring) #for Json string
```

```
json.loads(fileobject.read()) #for fileobject
```

Example: This example shows reading from both string and JSON file. The file shown above is used.

Python3

```
# Python program to read  
# json file  
  
import json  
  
# JSON string  
a = '{"name": "Bob", "languages": "English"}'  
  
# deserializes into dict  
# and returns dict.  
y = json.loads(a)
```

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```
# JSON file
f = open('data.json', "r")

# Reading from file
data = json.loads(f.read())

# Iterating through the json
# list
for i in data['emp_details']:
    print(i)

# Closing file
f.close()
```

Output:

```
JSON string = {'name': 'Bob', 'languages': 'English'}

{'emp_name': 'Shubham', 'email': 'ksingh.shubh@gmail.com', 'job_profile': 'intern'}
{'emp_name': 'Gaurav', 'email': 'gaurav.singh@gmail.com', 'job_profile': 'developer'}
{'emp_name': 'Nikhil', 'email': 'nikhil@geeksforgeeks.org', 'job_profile': 'Full Time'}
```

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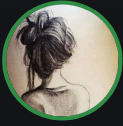
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