

# Python Libraries for DevOps

**Read JSON In Python**

**Read YAML In Python**

**Dictionary To JSON**

**Retrieve Data From JSON**

**Convert YAML To JSON In Python**

# Read JSON in Python

Python has built-in support for JSON formats through the standard library json.

**Example:**

```
import json

with open('example.json') as f:
    data = json.load(f)

print(data)
```



{j s o n}

# Read YAML In Python

Python has built-in support for JSON formats through the standard library json.

**Example:**

```
import yaml

with open('example.yaml', 'r') as f:
    data = yaml.safe_load(f)

print(data)
```

The image shows the 'pyyaml' logo in a large, white, sans-serif font. The logo is centered over a dark background that features a repeating pattern of three-dimensional, faceted geometric shapes, resembling a low-poly mesh or a cluster of crystals. The lighting on these shapes creates subtle gradients of dark gray and black, giving the background a textured, three-dimensional appearance.

pyyaml

# Dictionary to JSON

```
import json

data = {
    "name": "John",
    "age": 30,
    "city": "New York"
}

with open('example.json', 'w') as f:
    json.dump(data, f)

print("Data written to file.")
```

```
# example.json
{
    "name": "John",
    "age": 30,
    "city": "New York"
}
```

# Retrieve Data From JSON

```
import json

with open('services.json', 'r') as f:
    data = json.load(f)

for provider in data:
    services = ', '.join(data[provider])
    print(f"{provider}: {services}")
```

```
# services.json
{
  "aws":
    ["ec2", "s3", "rds"],
  "azure":
    ["VM", "storage", "sql"],
  "gcp":
    ["compute engine", "cloud
storage", "SQL"]
}
```

# YAML To JSON

```
import yaml
import json

with open('services.yaml', 'r') as f:
    data = yaml.safe_load(f)

# Convert the YAML data to JSON
json_data = json.dumps(data)

print(json_data)
```

```
# services.yaml
aws:
  - ec2
  - s3
  - rds
azure:
  - VM
  - storage
  - sql
gcp:
  - compute engine
  - cloud storage
  - sql
```