

---

# **python-odata Documentation**

***Release 0.2***

**Tuomas Mursu**

February 19, 2016



<b>1</b>	<b>What is this?</b>	<b>1</b>
<b>2</b>	<b>Code example</b>	<b>3</b>
<b>3</b>	<b>Topics</b>	<b>5</b>
<b>4</b>	<b>Indices and tables</b>	<b>7</b>



---

### What is this?

---

A simple library to consume an OData 4.0 endpoint. For example, an endpoint created with Microsoft's WebAPI 2.2. This library exposes the OData entities in a manner that mimics some of the modern ORM libraries for easy usage.

Features:

- Supports OData version 4.0 with JSON format
- Supports creating, reading, updating and deleting data
- Supports simple queries on EntitySets
- Powered by the excellent Requests library

Not currently supported:

- ATOM format
- ComplexTypes
- Streams
- Most of the more intricate querying options



---

## Code example

---

Connecting to a service and building entity classes from the service's metadata:

```
from odata import ODataService
url = 'http://services.odata.org/V4/Northwind/Northwind.svc/'
Service = ODataService(url, reflect_entities=True)
```

Fetch the Order entity from reflected classes:

```
Order = Service.entities['Order']
```

Query some orders:

```
query = Service.query(Order)
query = query.filter(Order.Name.startswith('Demo'))
query = query.order_by(Order.ShippedDate.desc())
for order in query:
    print(order.Name)
```





---

**Topics**

---



---

## Indices and tables

---

- `genindex`
- `modindex`
- `search`