
neodjango Documentation

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Integrating your Django project with the all features of Neo4j.

Why Django?

- <https://www.djangoproject.com/start/overview/>
- <http://blog.teamtreehouse.com/choose-django>

Why Neo4j?

- <http://neo4j.com/top-ten-reasons/>
- <http://www.infoq.com/articles/full-stack-web-development-using-neo4j>

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2.1 Getting Started

2.1.1 Installation

- Install NeoDjango with your favorite Python package manager:
`$ pip install neodjango`
- Downloaded and run Neo4j
 - <http://neo4j.com/download/>
 - <http://neo4j.com/docs/stable/server-installation.html>

2.1.2 Configuration

Once you've installed neodjango and configure your Django project for connect to Neo4j.

Database Setup

An example settings.py:

```
INSTALLED_APPS = (
    # other apps
    "neodjango",
)

NEO4J_DATABASES = {
    'default' : {
        'HOST': 'localhost',
        'PORT': 7474,
        'ENDPOINT': '/db/data'
```

```
}  
}
```

2.2 Nodes

2.2.1 Model

- Writing nodes.py

```
from neodjango.db import models  
class Label(models.Model):  
    class Meta: display = "name"
```

2.2.2 Querying

- Retrieving all objects

```
>>> Label.objects.all()  
[<Node#id: property>, <Node#id: property>, <Node#id: property>]
```

- Retrieving specific objects with filters

```
>>> Label.objects.filter(name='Guido')  
[<Node#id: property>,]
```

- Retrieving a single object with get

```
>>> Label.objects.get(name='Lawrence')  
<Node#id: property>
```

```
>>> Label.objects.get(id=42)  
<Node#id: property>
```

- Retrieving all relationships of objects

```
>>> Label.objects.get(name='Ken Thompson').relationships()
```

```
>>> Label.objects.get(name='Emil Eifrem').Created()
```

Indices and tables

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