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# **PyNeo4j Documentation**

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Integrating Python with the all features of Neo4j.



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

Contents:

## Getting Started

### Installation

- Install PyNeo4j with your favorite Python package manager:  
\$ pip install pyneo4j
- Downloaded and run Neo4j
  - <http://neo4j.com/download/>

### Examples

- Tornado
  - <https://github.com/renanpalmeira/neo4j-tornado>
- Pyramid
  - <https://github.com/renanpalmeira/neo4j-pyramid>
- Django
  - <https://github.com/renanpalmeira/neodjango>
- Jupyter/IPython Notebook
  - <https://github.com/renanpalmeira/pyneo4j/blob/master/tests/PyNeo4j%20Example.ipynb>

## Nodes

```
from pyneo4j import Node Node(label)
```

## Querying

- Retrieving all objects

```
>>> Node('*').all() # or Node(label='*').all()
[<Node#id: property>, <Node#id: property>, <Node#id: property>, <Node#id: _
↪property>]
```

- Retrieving specific objects with filters

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

- Retrieving a single object with get

```
>>> Node('Neo4j').get(name='Emil Eifrem')
<Node#id: property>
```

```
>>> Node('*').get(id=42)
<Node#id: property>
```

- Retrieving specific objects with filters/conditions

```
>>> from pyneo4j.utils import Q
```

```
>>> a, b = Node('Human').filter(Q(name='Rey') | Q(name='Luke Skywalker'))
>>> a
<Node#id: property>
>>> b
<Node#id: property>
```

```
>>> Node('Human', Q(id=42))
>>> Node(Q(name='BB8'))
```



## CHAPTER 2

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### Indices and tables

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