


# Neo4j Tools



# Neo4j Admin tool

# Introduction

- For managing your Neo4j instance
- Command-line tool



Import

# Introduction

- For batch imports of large amounts of data into a Neo4j database from CSV files
- Can only be used to load data into a previously unused database

# Syntax

- `neo4j-admin import --nodes import/movies_header.csv,import/movies.csv \`
- `--nodes import/actors_header.csv,import/actors.csv \`
- `--relationships import/roles_header.csv,import/roles.csv`

# CSV File header format

- Specifies how the data fields should be interpreted
- Contains information for each field, with the format
  - <name>:<field\_type>

# Properties

```
:ID,name,joined:date,active:boolean,points:int  
user01,Joe Soap,2017-05-05,true,10  
user02,Jane Doe,2017-08-21,true,15  
user03,Moe Know,2018-02-17,false,7
```



# Node files

- Contains node data
- Can have
  - ID field
  - LABEL field as well as
  - Properties

```
tt0133093, "The Matrix", 1999, Movie  
tt0234215, "The Matrix Reloaded", 2003, Movie;Sequel  
tt0242653, "The Matrix Revolutions", 2003, Movie;Sequel
```

# Relationship files

- Three mandatory fields:
  - TYPE
    - The relationship type to use for this relationship.
  - START\_ID
    - The ID of the start node for this relationship.
  - END\_ID
    - The ID of the end node for this relationship.

# Relationship files

- The name of character that the actor is playing in this movie is stored as a role property on the relationship.

```
keanu, "Neo", tt0133093, ACTED_IN
keanu, "Neo", tt0234215, ACTED_IN
keanu, "Neo", tt0242653, ACTED_IN
laurence, "Morpheus", tt0133093, ACTED_IN
laurence, "Morpheus", tt0234215, ACTED_IN
laurence, "Morpheus", tt0242653, ACTED_IN
carrieanne, "Trinity", tt0133093, ACTED_IN
carrieanne, "Trinity", tt0234215, ACTED_IN
carrieanne, "Trinity", tt0242653, ACTED_IN
```



# Cypher Shell

# Introduction

- To run queries and perform administrative tasks against a Neo4j instance
- Example:
  - `$neo4j-home> bin/cypher-shell -u neo4j -p <password>`

# Examples

- neo4j> :help
- neo4j> MATCH (n) RETURN n;

The image features a close-up of two hands shaking in a firm grip, symbolizing agreement or partnership. The hands are positioned in the center, with a teal-colored overlay partially covering them. In the background, a city skyline is visible under a bright sky. A white rectangular box with a teal border is placed over the handshake, containing the text 'THANK YOU' in bold, blue, sans-serif capital letters. A horizontal teal line is located below the text box. In the upper left corner, there is a small inset image of a bar chart. On the right side, there is some faint, partially obscured text that includes 'average 45%'.

**THANK YOU**