## NeoJ4

The (very) basics...

#### Labels

```
(a:Person) a Person
(a:Person {name: "Keanu Reeves"}) a Person with properties
(a:Person) - [:ACTED_IN] -> (m:Movie) a Person that ACTED_IN some movie
```

- (a) actors
- (m) movies
- ( ) some anonymous node

### Relationships

- -[r]-> a relationship referred to as "r"
- (a) [r] -> (m) actors having a relationship referred to as "r" to movies
- -[:ACTED\_IN]-> the relationship type is ACTED\_IN
- (a) [:ACTED\_IN] -> (m) actors that ACTED\_IN some movie
- (d) [:DIRECTED] -> (m) directors that DIRECTED some movie

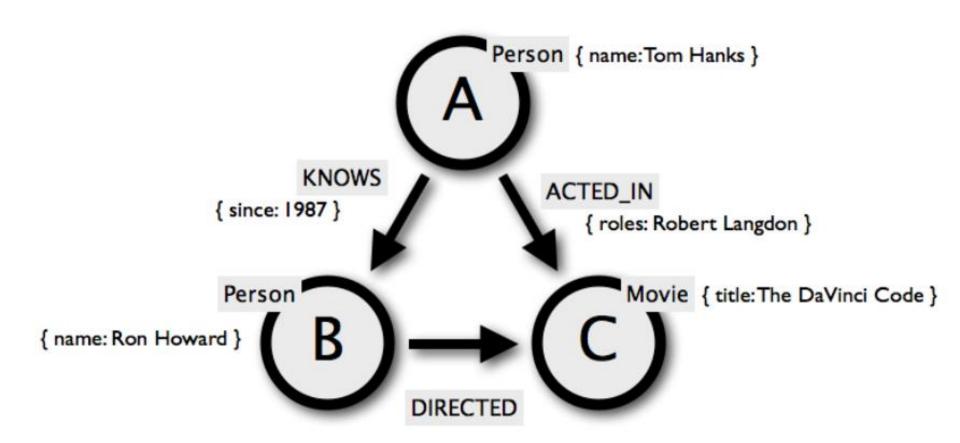
#### **Nodes with Properties**

```
(m {title:"The Matrix"}) Movie with a title property
(a {name:"Keanu Reeves", born:1964}) Actor with name and born property
```

#### Relationship with Properties

```
(a) -[:ACTED_IN {roles:["Neo"]}]->(m) Relationship ACTED_IN with roles property (an array of character names)
```

### **Property Graph**



#### **Queries:**

```
MATCH (actor:Actor { name: "Tom Hanks" })
RETURN actor;
```

```
MATCH (actor:Actor)
WHERE actor.name = "Tom Hanks"
CREATE (movie:Movie { title:'Sleepless IN Seattle' })
CREATE (actor)-[:ACTED_IN]->(movie);
```

# A live example...

```
create (ido:Member {name:'ido'}), (severin:Member {name:'severin'})
create (dh:Team {name:'DH'})
create (ido)-[:IN]->(dh);

match (severin:Member)
where severin.name = 'severin'
match (dh:Team)
where dh.name = 'DH'
create (severin)-[:IN]->(dh);
```

}