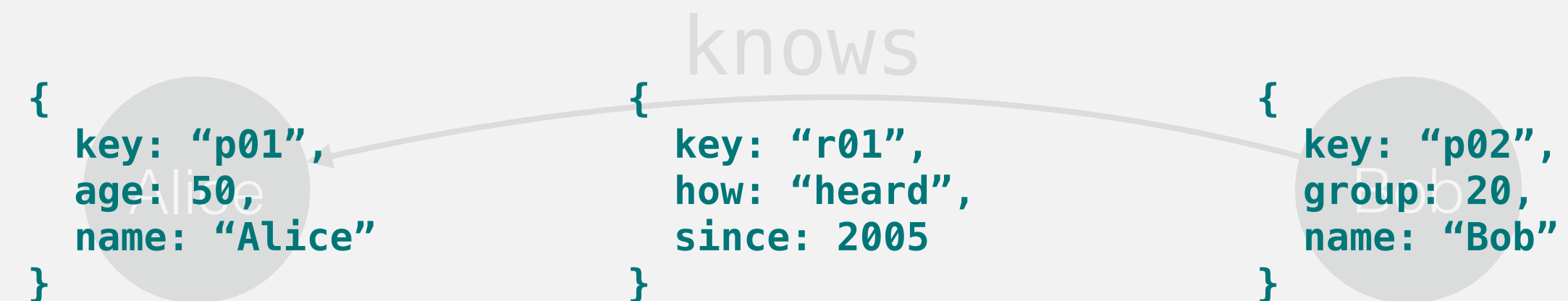# Graph Database

- Graph-styled Structure
  - Vertices / Edges / Paths
- Vertex as an entity
- Edge as a relation
- Property as a property

knows

```
{
    key: "p01",
    age: 50,
    name: "Alice"
}
```

```
{
    key: "r01",
    how: "heard",
    since: 2005
}
```

```
{
    key: "p02",
    group: 20,
    name: "Bob"
}
```

Graph Database

- Graph-styled Structure
  - Vertices / Edges / Paths
- Vertex as an entity
- Edge as a relation
- Property as a property
- Class representation
  - Label (Neo4j)
  - Collection (ArangoDB)

```
{                           {                           {
  key: "p01",                 key: "r01",                 key: "p02",
  age: 50,                    how: "heard",               group: 20,
  name: "Alice",              since: 2005,                name: "Bob",
  label: "politician"         label: "knows"              label: "student"
}                           }                           }
```

knows