In this lecture, we will discuss…

✧ Setup

✧ Initialization

✧ Model class

✧ Custom class

Setup – Data files

✧ movies.json

✧ actors.json

✧ directors.json

✧ writers.json

✧ places.json

Initialization

✧ Import data
- `> rake db:seed`

✧ Setup index
- `> rake db:mongoid:create_indexes`

Model Types and Document Representation

✧ Custom Types

- `Measurement` – represents measurement info

- `Point` – represents geolocation points

Model Types and Document Representation

✧ Document Model Class

- `Place` – abstraction added to `Point` to hold location information about the geolocation point

- `Actor` - represents someone who plays a role in a `Movie`

- `Writer` – one of the authors of a `Movie`

- `Director` – one of the directors of a `Movie`

- `Movie` – core information about a `Movie`

Model Types and Document Representation

✧ Document Model Class

- `DirectorRef` – is an annotated reference to a `Director`

    ▪ used to cache stable/core director information that the referencing document/view will need.

- `MovieRole` - is a character in a `Movie` played by an `Actor`

Relationships - Types

- ✧ 1:1 Embedded (Actor -> place_of_birth:Place)

- ✧ M:1 Linked (Director -> residence:Place)

- ✧ 1:M Embedded (Movie <-> roles:MovieRole)

- ✧ M:1 Embedded Linked (MovieRole <-> Actor)

- ✧ 1:1 Linked (Movie -> sequel_to:Movie)

- ✧ M:M (Movie <-> writers:Writer)

Summary

✧ Models are key as relations are associations between one model and another in the domain and in the database.

What's Next?

✧ Relationship Types