

In this lecture, we will discuss...

- ✧ `where`
- ✧ `count`
- ✧ `distinct`
- ✧ `exists`
- ✧ `geolocation`
- ✧ `first_or_create_by`
- ✧ `first_or_initialize_by`



where (count, distinct)

✧ `Movie.where(:title => "Rocky").count`

✧ `Movie.where(:year.gt => 2000).
distinct(:title)`

Note: Schema Design lecture reference: year should be a number – we can use `'gt'` or `'lt'` queries

where (first)

- ✧ Get the **first** document
- ✧ If **no sort options** are provided, Mongoid will add an **ascending _id** sort to the criteria
- ✧ `Movie.first`
- ✧ `Movie.where(:rated=> "R").first`



where (exists?)

- ✧ Determine if any documents **exist** in the database
- ✧ Will return **true** for 1 or more
- ✧ `Movie.exists?`
- ✧ `Movie.where(:title => "Titanic").exists?`



where - :\$exists and :\$regex

✧ `writer=Writer.where(:hometown=>{
 :$exists=>0}).first`

✧ `damon=Actor.where(:name=>{
 :$regex=>"Matt Da"}).first`



where – Geolocation query

- ✧ In Mongoid, every model class has the built-in ability to express and execute a Geolocation query.

```
1 class Actor
2   include Mongoid::Document
3   include Mongoid::Timestamps
4
5   .....|
6
7   embeds_one :place_of_birth, class_name: 'Place' , as: :locatable
8
9   index ({ :place_of_birth.geolocation" => Mongo::Index::GEO2DSPHERE })
10
11 end
```



where – Geolocation query

```
1 silver_spring=Place.where(:city=>"Silver Spring", :state=>"MD").first
2
3 Actor.near(:"place_of_birth.geolocation"=>silver_spring.geolocation)
4   .limit(5).each {|actor| pp "#{actor.name}, pob=#{actor.place_of_birth.id}"}
```

```
1 "Lewis Black, pob=Silver Spring, MD, USA"
2 "Jeffrey Wright, pob=Washington, DC, USA"
3 "Samuel L. Jackson, pob=Washington, DC, USA"
4 "Laura Cayouette, pob=Laurel, MD, USA"
5 "Mark Rolston, pob=Baltimore, MD, USA"
```



where - first_or_create

- ✧ Find the **first** document **by** the provided attributes
- ✧ If **not** found, **create** and **return** a newly persisted one
- ✧ `Movie.where(:title => "Rocky20").first_or_create`



where - first_or_initialize

- ✧ Find the **first** document **by** the provided attributes
- ✧ If **not** found, **instantiate and return** a new one
- ✧ `Movie.where(:title => "Rocky21").first_or_initialize`



Summary

✧ `where` – with some additional criteria

What's Next?

✧ `pluck` and `scope`