

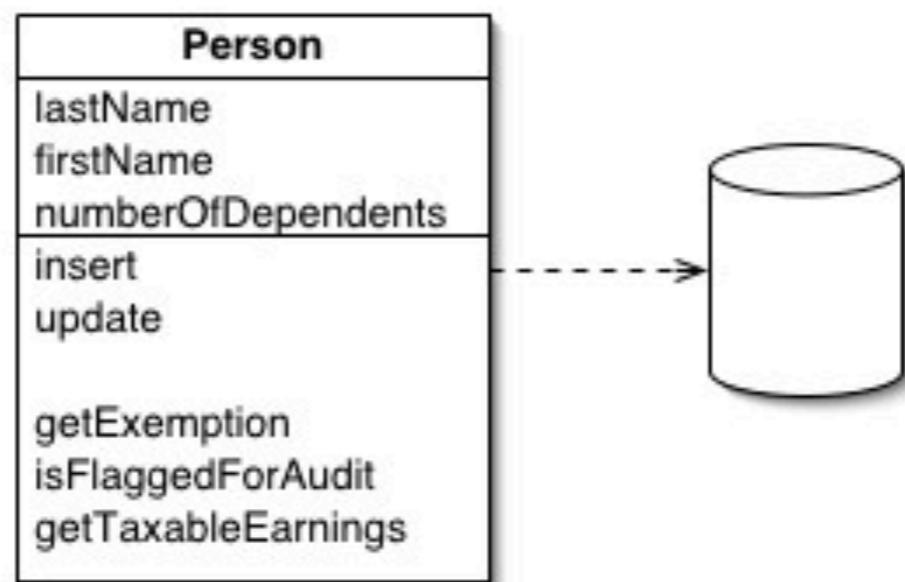
Mongoid vs MongoMapper

Basics, comparisons and workshop

Active Record

An object that wraps a row in a database table or view, encapsulates the database access, and adds domain logic on that data.

For a full description see P of EAA page **160**



An object carries both data and behavior. Much of this data is persistent and needs to be stored in a database. Active Record uses the most obvious approach, putting data access logic in the domain object. This way all people know how to read and write their data to and from the database.

MongoMapper vs Mongoid

```
# MongoMapper
```

```
class User
  include MongoMapper::Document
  key :name, String
  embeds_many :properties
  timestamps!
end
```

```
class Property
  include MongoMapper::EmbeddedDocument
  key :name, String
end
```

```
User.create(
  :name => 'Martin',
  :properties => [
    Property.new(:name => 'Villa Schonenburg'),
    Property.new(:name => 'Villa Schonenburg')
])
```

```
# Mongoid
# Ruby 1.9.3 or better
```

```
class User
  include Mongoid::Document
  include Mongoid::Timestamps
  field :name, type: String
  embeds_many :properties
end
```

```
class Property
  include Mongoid::Document
  field :name, type: String
  embedded_in :user
end
```

```
User.create(
  :name => 'Martin',
  :properties => [
    Property.new(:name => 'Villa Schonenburg'),
    Property.new(:name => 'Villa Schonenburg')
])
```

Comparison -- Differences

MongoMapper

- ⦿ One sided many to many
- ⦿ Less robust support for embedded documents (updates entire model)
- ⦿ Ruby18 support

```
User.set({:name => 'John'}, :sex => 'M')
```

Mongoid

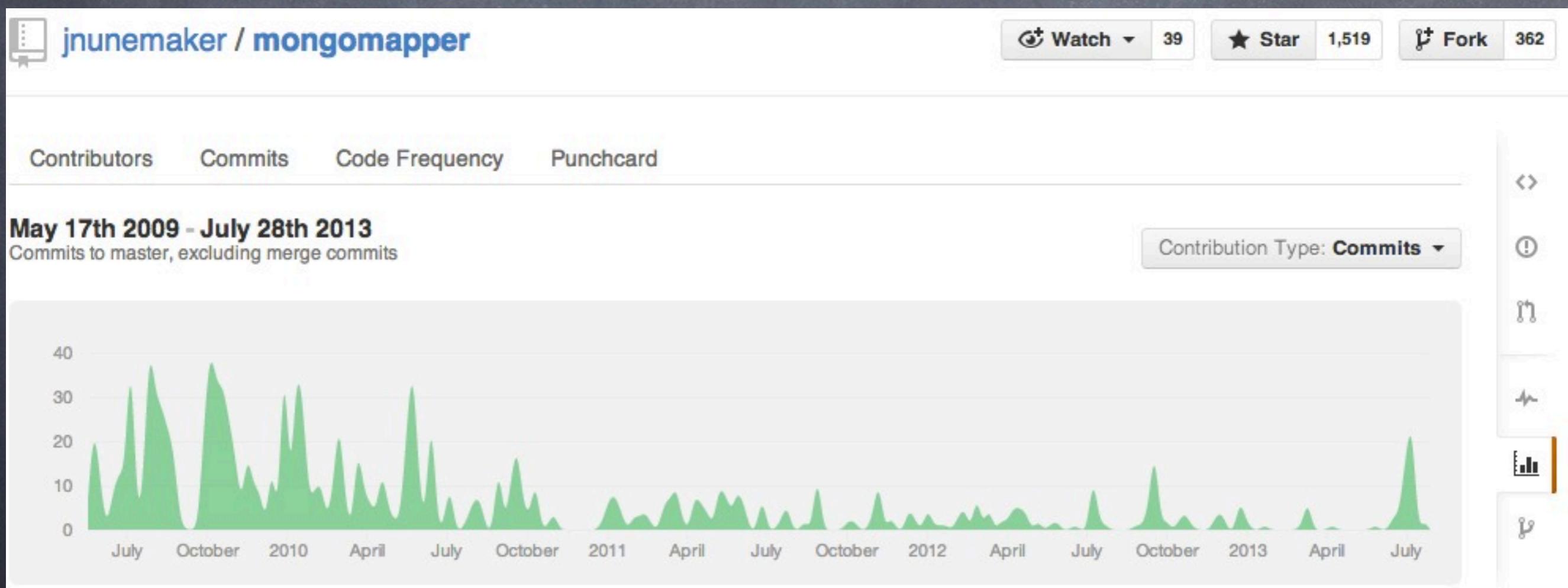
- ⦿ Bidirectional many to many
- ⦿ More robust support for embedded documents (atomic operations)
- ⦿ Supported by Devise

```
User.where(:name => 'John').set(:sex => 'M')
```

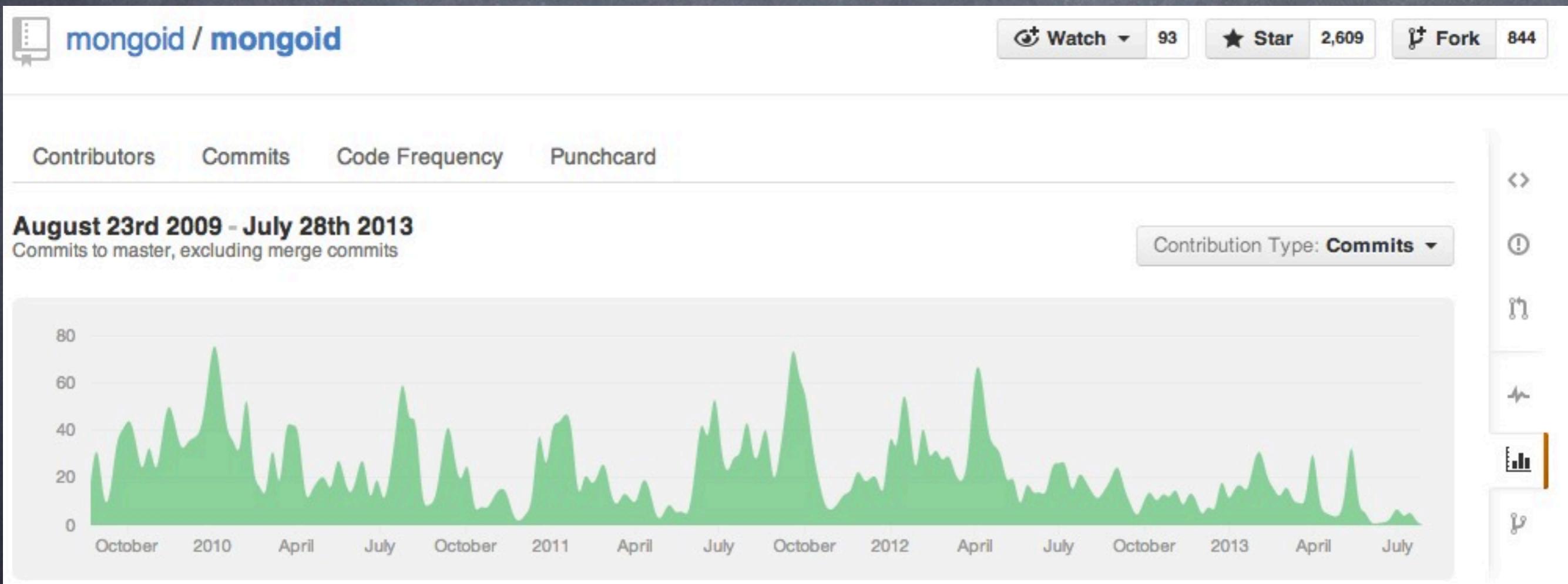
Comparison -- Similarities

- ⦿ Arel like syntax for querying
- ⦿ Fully Rails 3 compatible
- ⦿ Symbol operators (:attempts.gte => 7)
- ⦿ Identity maps
- ⦿ Extendable with plugin architecture
- ⦿ Custom types

MongoMapper -- Community



Mongoid -- Community



Hands on Exercise

https://github.com/dawid-sklodowski/mongoid_workshop

- ⌚ Read specs
- ⌚ Run them (rspec spec)
- ⌚ Fix them

Querying Exercise

- ⦿ Seed your db (script/seed)
- ⦿ Run console (script/console)
- ⦿ Examine Users and their properties
 - ⦿ Also via mongo console
 - ⦿ Find all S3 jobs
 - ⦿ Update their priority
 - ⦿ Delete them

Thank You!

<http://mongoid.org>

<http://mongomapper.com/>