



Validations

Validations

- Preferably, you would like to have some control over what goes into the database
- Not every input might be appropriate
- If these validations fail – your information should not be saved to the database
- Rails provides a lot of built-in validators

:presence and :uniqueness

- `presence: true`
 - Make sure the field contains some data
- `uniqueness: true`
 - A check is performed to make sure no record exists in the database (already) with the given value for the specified attribute

:presence example

```
▶ job.rb ✕  
1 class Job < ActiveRecord::Base  
2   belongs_to :person  
3   has_one :salary_range  
4  
5   validates :title, :company, presence: true  
6 end
```

:presence example

```
hazink1:~/advanced_ar$ rails c
Loading development environment (Rails 4.1.1)
irb(main):001:0> job = Job.new
=> #<Job id: nil, title: nil, company: nil, position_id: nil, person_id: nil, created_at: nil, updated_at: nil>
irb(main):002:0> job.errors
=> #<ActiveModel::Errors:0x007fb0b8a226a8 @base=#<Job id: nil, title: nil, company: nil, position_id: nil, person_id: nil, created_at: nil, updated_at: nil>, @messages={}>
irb(main):003:0> job.title = "Sr. Coke/Pepsi taster and differentiator"
=> "Sr. Coke/Pepsi taster and differentiator"
irb(main):004:0> job.save
  (0.2ms) begin transaction
  (0.1ms) rollback transaction
=> false
irb(main):005:0> job.errors
=> #<ActiveModel::Errors:0x007fb0b8a226a8 @base=#<Job id: nil, title: "Sr. Coke/Pepsi taster and differentiator", company: nil, position_id: nil, person_id: nil, created_at: nil, updated_at: nil>, @messages={:company=>["can't be blank"]}>
irb(main):006:0> job.errors.full_messages
=> ["Company can't be blank"]
```

Other common validators

- `:numericality` – validates numeric input
- `:length` – validates value is a certain length
- `:format` – validates value complies with a some regular expression format
- `:inclusion` – validates value is inside specified range
- `:exclusion` – validates value is out of the specified range

Writing your own validator

1. Write a method that does some validation and calls `errors.add(columnname, error)` when it encounters an error condition
2. Specify it as a symbol for the `validate` method

Writing your own validation

```
salary_range.rb x
1 class SalaryRange < ActiveRecord::Base
2   belongs_to :job
3
4   validate :min_is_less_than_max
5
6   def min_is_less_than_max
7     if min_salary > max_salary
8       errors.add(:min_salary, "cannot be greater than maximum salary!")
9     end
10  end
11
12 end
```

:numericality built-in validator can already do this for you - this is just to show an example of a custom validation!

Writing your own validation

```
hazink1:~/advanced_ar$ rails c
Loading development environment (Rails 4.1.1)
irb(main):001:0> sr = SalaryRange.create min_salary: 30000.0, max_salary: 10000.0
  (0.1ms) begin transaction
  (0.0ms) rollback transaction
=> #<SalaryRange id: nil, min_salary: 30000.0, max_salary: 10000.0, job_id: nil, created_at:
nil, updated_at: nil>
irb(main):002:0> sr.errors
=> #<ActiveModel::Errors:0x007fb0b2c96c28 @base=#<SalaryRange id: nil, min_salary: 30000.0,
max_salary: 10000.0, job_id: nil, created_at: nil, updated_at: nil>, @messages={:min_salary=
>["cannot be greater than maximum salary!"]}>
irb(main):003:0> sr.save!
  (0.1ms) begin transaction
  (0.0ms) rollback transaction
ActiveRecord::RecordInvalid: Validation failed: Min salary cannot be greater than maximum sa
lary!
    from /Users/hazink1/.rbenv/versions/2.0.0-p247/lib/ruby/gems/2.0.0/gems/activerecord
-4.1.1/lib/active_record/validations.rb:57:in `save!'
```

More?

- none and where.not support
- pluck multiple-column support
- See the guides for more
 - http://guides.rubyonrails.org/active_record_basics.html
 - http://guides.rubyonrails.org/active_record_querying.html
 - http://guides.rubyonrails.org/association_basics.html
 - http://guides.rubyonrails.org/active_record_callbacks.html