## In this lecture, we will discuss...

- ♦ Active Record validations
- ♦ Writing custom 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
- ♦ Active Record 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
    class Job < ActiveRecord::Base</pre>
      belongs_to :person
      has_one :salary_range
      validates :title, :company, presence: true
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    end
```



### :presence example

```
~/advanced_ar$ rails c
Loading development environment (Rails 4.2.3)
irb(main):001:0> iob = 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> iob.errors
=> #<ActiveModel::Errors:0x007fe0b0b03590 @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.save
   (0.2ms) begin transaction
   (0.1ms) rollback transaction
=> false
irb(main):004:0> job.errors
=> #<ActiveModel::Errors:0x007fe0b0b03590 @base=#<Job id: nil, title: nil, company: nil, position_id: nil, person_id:</p>
 nil, created_at: nil, updated_at: nil>, @messages={:title=>["can't be blank"], :company=>["can't be blank"]}>
irb(main):005:0> job.errors.full_messages
=> ["Title can't be blank", "Company can't be blank"]
```



#### Other Common Validators

- :format validates value complies with some regular expression format



# Writing Your Own Validator

- 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

```
class SalaryRange < ActiveRecord::Base</pre>
  belongs_to :job
  validate :min is less than max
 def min_is_less_than_max
    if min salary > max salary
      errors.add(:min_salary, "cannot be greater than maximum salary!")
    end
  end
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



## Summary

- ♦ Validations give you control over what goes into DB
- See the guides for more information on Active Record
  - http://guides.rubyonrails.org/active record basics.html
  - http://guides.rubyonrails.orgactive record querying.html
  - http://guides.rubyonrails.org/association\_basics.html
  - http://guides.rubyonrails.org/active record callbacks.html

