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RUBY ON RALS







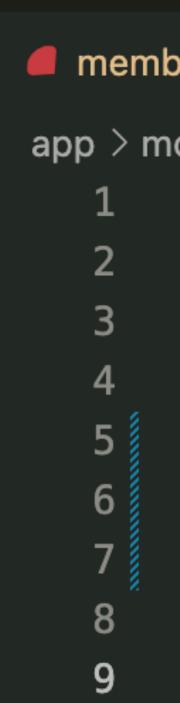
WHAT IS RUBY?

- Server-side programming language
- Now used mainly for web application applications
- Dynamically typed, metaprogramming & interpreted by a C runtime
- Can be used by itself puts 'Hello World'
- Slow compared to C++ et al, but fast enough for the web
- Syntax is very 'nice' friendly and pretty code

app > services > 🥔 price_change_service.rb	
1	<pre>class PriceChangeService</pre>
2	<pre>attr_reader :prices</pre>
3	
4	def initialize
5	<pre>@prices = Price.all</pre>
6	end
7	
8	<pre>def multiple!(multiple)</pre>
9	<pre>@prices.each do price </pre>
10	<pre>old_price = price.price</pre>
11	
12	new_price = old_price * multiple
13	<pre>price.update(price: new_price)</pre>
14	end
15	end
16	end
17	

WHAT IS RAILS?

- Web application framework for Ruby
- Started in 2007 by king DHH, David Heinemeier Hansson
- Powers Github, Square, Twitch, Airbnb, Twitter, Shopify, gov.uk & many others
- MVC separating 'business logic' away from presentation & routing
- **Convention over configuration**
- Full-stack framework. From DB connections to JS to background queues
- All files are roughly in the same place for every project
- Small teams framework good for one programmer doing everything
- Now on Rails 7.1 new major version every 2/3 years



```
membership.rb M
app > models > d membership.rb
      class Membership < ApplicationRecord
         belongs_to :band
         belongs_to :customer
         validates_uniqueness_of :customer_id,
           scope: :band_id,
           message: "This customer is already in this band"
      end
```



Jammed.app

Entire app uses Rails 7.0. Due and JS frontend for fancy booking controls. Built from scratch. **Database connections and business logic handled by ActiveRecord.**

UK Government apps

Freelancing for central UK government. Open source & public build github.com/OfficeForProductSafetyAndStandards/product-safety-database github.com/OfficeForProductSafetyAndStandards/cosmetic-product-notifications github.com/alphagov/whitehall

DEMO TIME

- https://rubyonrails.org
- **DHH: <u>https://dhh.dk</u>**

- https://github.com/OfficeForProductSafetyAndStandards/ cosmetic-product-notifications
- https://github.com/OfficeForProductSafetyAndStandards/ product-safety-database
- https://github.com/alphagov/whitehall