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# RUBY ON RAILS

WELCOME TO  
BRIXTON HILL  
STUDIO

**JAMMED**

CREATIVE  
STREET  
STUDIO



ACE • SHOP



# 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  class PriceChangeService
2      attr_reader :prices
3
4      def initialize
5          @prices = Price.all
6      end
7
8      def multiple!(multiple)
9          @prices.each do |price|
10             old_price = price.price
11
12             new_price = old_price * multiple
13             price.update(price: new_price)
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](http://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 > membership.rb

```
1  class Membership < ApplicationRecord
2    belongs_to :band
3    belongs_to :customer
4
5    validates_uniqueness_of :customer_id,
6      scope: :band_id,
7      message: "This customer is already in this band"
8  end
9
```

# HOW I USE RAILS

## 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](https://github.com/OfficeForProductSafetyAndStandards/product-safety-database)

[github.com/OfficeForProductSafetyAndStandards/cosmetic-product-notifications](https://github.com/OfficeForProductSafetyAndStandards/cosmetic-product-notifications)

[github.com/alphagov/whitehall](https://github.com/alphagov/whitehall)

**DEMO TIME!**

- <https://rubyonrails.org>
- DHH: <https://dhh.dk>
- <https://github.com/OfficeForProductSafetyAndStandards/cosmetic-product-notifications>
- <https://github.com/OfficeForProductSafetyAndStandards/product-safety-database>
- <https://github.com/alphagov/whitehall>

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