

# Movie Review Website using Ruby on Rails

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# Why We Chose Ruby

- We were all interested in web development in one form or another
- The community that surrounds Ruby and the Ruby on Rails framework is highly talked about due to their friendliness and the cool additions that have added to the language
- Ruby on Rails is used in many popular websites such as AirBnB, Hulu, Github, Goodreads and thought it would be interesting to see why they chose this framework

# What's the Difference between Ruby and Ruby on Rails

## Ruby

- A Object Oriented Programming language

## Ruby on Rails

- Ruby on Rails is a web-development framework

Think of Ruby as the foundation and Ruby on Rails is the house built on top of it.

# History of Ruby

- Ruby was invented Yukihiro “Matz” Matsumoto in 1995
- Blended Perl, Smalltalk, Eiffel, Ada, and Lisp into one language
- His famous quote is “trying to make Ruby natural, not simple.”
  - Ruby is known for being a programming language that reads like a book instead of a programming language
- Ruby in English was starting development soon after Ruby was published and was released in 1998
- There was a slow and steady increase in popularity of Ruby after the years
- 2005 - Ruby on Rails began development due to a large community surrounding Ruby
- Been going strong ever since, it was even shipped with Mac OS X



# Pros and Cons of Ruby

## Pros:

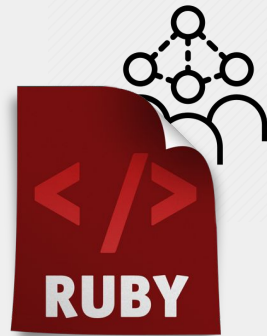
- Speed of Development
- Open Source Software
- General purpose language
- Easy to use
- Easy to read

## Cons:

- Runtime and Performance
- Lack of flexibility
- Cost of Mistake
- The community use to be very large and active



# Language Paradigm for Ruby



## Object oriented programming

- Everything in Ruby is treated like an object.
- Support modularity and reusability as possible



## Functional programming

- One of the prime concepts of Functional Programming is immutable state.
- A pure function is one that does not mutate its inputs.
- State in Ruby not pure, but keeping it under control the code then supports more of testability and reusability.

## Imperative programming

- Programs are ran in a sequence of instructions.
- Sequences are broken up into routines, subroutines.

# Ruby versus other languages in the same paradigm

Python 	Java 
Has a diverse community with more ties to Linux, and AI application.	A much more popular and commonly known language. Java is the number one language
Compared to Ruby it is very explicit and awkward/hard to read	Java web development is better suited for websites with high traffic or very complex projects. Ruby is the opposite.
Webframe: Django, React	Webframe: Dropwizard, Spring, GWT
The Python is slow to innovate but they do not break things. While Ruby innovates at a fast pace but often breaks developer code due to lack of testing.	Java is meant for enterprise grade software but is capable of web development. Ruby's main focus is web development.

# What features did we find helpful?

## Gems

- These are dependencies that allow your program to do more robust features
  - Such as bootstrap, database migrations, code testing, etc.
- The Ruby community is large and passionate, so there are a lot of very cool gem files that you can import and instantly start using with a few simple commands.

## Scaffolding

- This allows the developer to quickly set up our views, models, and controllers
- Using a statement such as: ***rails g scaffold Movie title:string, description:text, movie\_length:string, director:string, and rating:string***
- This gives you the ability to quickly lay the foundation for your project by creating multiple files for each one of these in one simple command



# What does Ruby offer to make it a language we would want to use?

## The Ruby community

- Ruby's community and support is very active and have a clear passion for this language. When looking up questions about the language you were often meet with genuine answers that didn't make you feel dumb for asking.

## The language readability

- Ruby can be read like a book, it is very easy to comprehend what the code is doing since it is written in a style similar to english instead of a coding language.

## Gem Files

- Developers need only a few lines of code to import a complete structure or feature into your project. Made experimenting with your project very easy and fun.

# What is Ruby most suitable for?

- Ruby is best suitable for web-development!
- Ruby on Rails is the most popular and talked about feature of Ruby with many popular websites such as AirBnB, Hulu, Github, Goodreads, etc. all using Ruby to build their websites!
- It is also a general purpose language so it can also be used for DevOps, data analysis, prototyping, and much more.

# Our Application

- We made a movie review application called Watch N Review!
- We thought this would be a great way to experience the basics of Ruby on Rails and get a good handle on it
- We created the following scenes for our website:
  - Home page
  - Account creation - sign up and login screen
  - Movie selections
  - Movie information and pre-existing reviews
  - Creating movie reviews
  - Add new movies to review
  - Edit movie information

# What We Could Implement in the Future

- Build a social network that connects movies' viewers over the world.
- Allow users to create chat channel for a specific movie.
- Enable a feature of mentioning a friend to specific movies.
- Allow users to add games reviews.



# Demo Time!

