

# Build Your Own Ruby On Rails Website

Are you looking to create your own website? Are you a fan of the Ruby programming language? Look no further, as this article will guide you through the process of building your own Ruby on Rails website.

## What is Ruby on Rails?

Ruby on Rails, commonly referred to as Rails, is a web development framework written in Ruby. It provides developers with a set of tools and conventions to build powerful and scalable web applications. Rails follows the MVC (Model-View-Controller) architectural pattern and focuses on simplicity and efficiency.

## Getting Started

Before diving into the world of Ruby on Rails, it is important to have some basic knowledge of the Ruby programming language. Familiarize yourself with the syntax and core concepts of Ruby to make your development journey smoother.



## Rails: Novice to Ninja: Build Your Own Ruby on Rails Website by Alistair Sutcliffe (3rd Edition, Kindle Edition)

★★★★☆ 4.3 out of 5

Language : English

File size : 14472 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Print length : 542 pages

Screen Reader : Supported

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Next, make sure you have Ruby and Rails installed on your machine. You can check if you have Ruby installed by opening your terminal and typing:

```
ruby -v
```

If Ruby is installed, you should see its version number. If not, you can easily install it by following the instructions on the official Ruby website.

To check if Rails is installed, type the following command:

```
rails -v
```

Again, you should see the version number of Rails if it is installed. If not, you can install Rails by running:

```
gem install rails
```

## **Creating a New Rails Project**

Now that you have Ruby and Rails set up, it's time to create a new Rails project. Open your terminal and navigate to the directory where you want to create your project. Once there, run the following command:

```
rails new mywebsite
```

This will create a new directory called "mywebsite" with all the necessary files and configurations for a Rails project.

## **Understanding the Project Structure**

Before moving forward, let's take a moment to understand the structure of a Rails project. Inside the "mywebsite" directory, you will find several important subdirectories:

- **app:** Contains the core application code, including models, views, and controllers.
- **config:** Contains configuration files for your application.
- **db:** Contains database-related files and scripts.
- **public:** Contains static files that will be served directly by the web server, such as HTML, CSS, and images.
- **test:** Contains test files for your application.

Now that you have a basic understanding of the project structure, let's move on to creating the website.

## Creating Models, Views, and Controllers

In Rails, models are responsible for handling data logic, views are responsible for displaying the data to the users, and controllers handle the interaction between models and views.

To create a new model, run the following command:

```
rails generate model User name:string email:string
```

This will generate a new model called "User" with two attributes: name and email. You can add any additional attributes as needed. Rails will also generate a migration file that will create the corresponding database table.

To create a new controller, run:

```
rails generate controller Home index
```

This will generate a new controller called "Home" with an action called "index". The "index" action is the default action that will be executed when the user visits the homepage of your website.

To create a new view, navigate to the "app/views" directory and create a new file called "index.html.erb". This is the file that will be rendered when the "index" action is executed.

## Setting up Routes

Routes define how URLs map to controllers and actions in Rails. To configure the routes for your website, open the "config/routes.rb" file and add the following line:

```
root 'home#index'
```

This sets the root URL of your website to the "index" action of the "Home" controller.

## Adding Functionality

Now that you have the basic structure in place, you can start adding functionality to your website. This can include user authentication, database interactions, and more. Rails provides a wide range of tools and libraries to make this process easier.

## Deploying Your Website

Once you are satisfied with your website, it's time to deploy it to a web server. Rails supports several deployment options, including popular platforms like Heroku and AWS.

Choose a hosting provider that suits your needs and follow their instructions to deploy your Rails application. Make sure to configure your database, environment

variables, and any other necessary settings.

Building your own Ruby on Rails website is an exciting journey. With its powerful tools and conventions, Rails simplifies the process of web development and allows you to create robust and scalable applications.

Remember to continuously expand your knowledge, explore different libraries and gems, and stay updated with the latest trends in web development. With practice and dedication, you can become a proficient Rails developer and build amazing websites.



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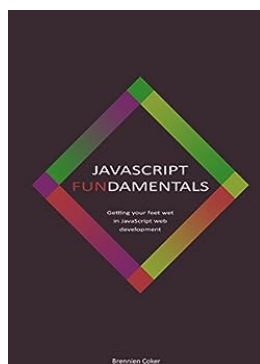
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Rails: Novice to Ninja is an easy-to-follow, practical and fun guide to Ruby on Rails for beginners. It covers all you need to get up and running, from installing Ruby, Rails and SQLite to building and deploying a fully-featured web application. The third edition of this book has been fully updated to cover Rails 5, the latest version of the framework.

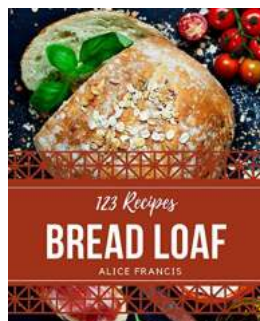
Unlike other Rails books, this book doesn't assume that you are an experienced web developer, or that you've used Ruby before. An entire chapter is devoted to

learning Ruby in a fun way, using the interactive Ruby console, so you can follow along at home. You'll be an accomplished Ruby programmer in no time! You'll then start using Rails to build a practical, working project: a Reddit-like social news application. As you'll build the app, you'll gain valuable experience of using Rails features such as user authentication, session cookies, and automated testing. The book finishes with chapters on debugging, benchmarking and deployment to a live web server.



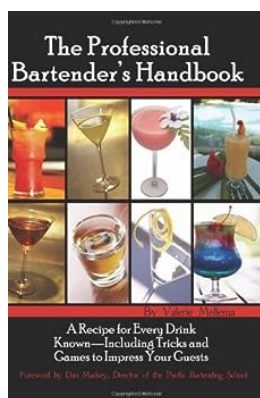
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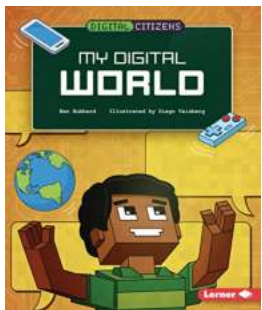
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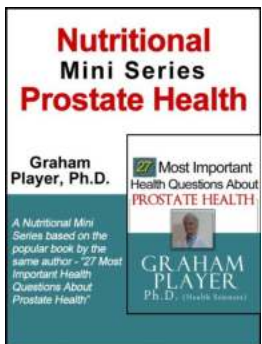
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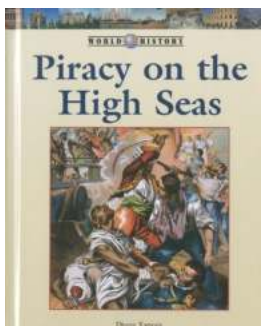
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