

*Unleash your potential and master web development*

PROGRAMMING  
STEP BY STEP  
AND MORE  
INSTRUCTIVE

CURRENT, VERSATILE, ADVANCED

**Book 1 - SASS PROCESSOR**

Rene F. Ruano Domínguez

SASS PROCESSOR  
PROGRAMMING STEP BY STEP AND MORE. INSTRUCTIVE

Copyright © 2024 René F. Ruano Domínguez

All rights reserved.

## **DEDICATION**

### **TO THE GENERATIONS OF THE FUTURE, MILLENNIALS, BABY BOOMERS AND BEYOND.**

This guide is dedicated to everyone: To you, the bright young minds shaping the world with your ingenuity and creativity. To the millennials, who navigate the digital age with ease and constantly seek new ways to innovate. To the baby boomers, who pioneered the technological revolution and now contribute their experience and wisdom. To the retirees who dream of staying up-to-date, filling their free time productively, and exercising their minds.

## PROLOGUE

***PROGRAMMING STEP BY STEP AND MORE -Book 1 - Part One: HTML, CSS, RESPONSIVE DESIGN, SASS PROCESSOR***

not only captures the essence of web development but also reflects the meticulous dedication and deep knowledge accumulated by its author, René Francisco Ruano Domínguez.

His style is distinguished by its pedagogical clarity and the ability to transform complex concepts into accessible and practical explanations. Each chapter testifies to his meticulous dedication and commitment to providing the reader with a structured, enriching, and application-oriented learning experience. From the fundamentals of HTML and CSS to responsive design, the author succeeds in conveying not only techniques but also a comprehensive vision of web development.

The section dedicated to Sass exemplifies his innovative approach: it translates theory into practice and demonstrates how modularity, code reuse, and efficient style organization can elevate the quality of any project. Variables, mixins, functions, and mathematical operations are presented as tools that, under the author's guidance, become strategic allies for the modern programmer.

This booklet, derived from Book 1, reflects the author's commitment to creating concise, accessible, and highly specialized materials designed to impart valuable knowledge in key areas of programming. Its purpose is clear: to introduce the reader to the potential of Sass with a practical and approachable perspective, reaffirming the author's commitment to sharing experiences and expertise that contribute to professional growth in the world of web development.

With admiration and gratitude,

Idalmy Baluja Conde

SASS PROCESSOR  
PROGRAMMING STEP BY STEP AND MORE. INSTRUCTIVE

<b>Contenido</b>	<b>Página</b>
DEDICATION	iii
PROLOGUE	1
1. Introduction to Sass	2
2. Compile Sass files	3
2.1 What is meant by compiling?	3
2.2 Manual compilation	5
4. Mathematical Operations in Sass	10
6.1 Declare variables to be used in media queries	14
6.2 Complete example and practice	15
7. Conclusiones	21
8. ANNEXES	21
8.1 Motivational phrases	21
8.2 About the Author	23

## 1. Introduction to Sass

Sass (Syntactically Awesome Style Sheets) is a CSS preprocessor that extends the functionality of conventional CSS through the use of variables, nested selectors, mixins, functions, and more.

To edit and run these Sass files, we'll create the page 01-09estilos9.html inside the 01-estilos folder, where we'll display the result in the browser's local view. As in the previous examples, we'll create the stylesheet inside the css folder. In this chapter, we'll learn how to work with this new style functionality, which has a .scss extension, different from the .css extension of the previous style files, so we can create our CSS pages.

### Conclusions:

Sass, a CSS preprocessor known as Syntactically Awesome Style Sheets , extends the capabilities of standard CSS through the use of variables, selector nesting, mixins, and more. In this chapter, we've explored how to integrate Sass into our workflow to improve the efficiency and maintainability of our CSS code.

During the practical exercise, we learned how to create and compile Sass files (with the .scss extension) within our project structure. We used tools like the Live Sass Compiler in Visual Studio Code to automate this process. We also saw how to define and use variables to centralize the management of reusable styles throughout the code.

Nesting selectors has allowed us to write styles in a more structured and readable way, avoiding code repetition. Mixins have proven useful for defining styles that can be applied to multiple selectors, improving consistency and facilitating updates.

Sass has also given us the ability to perform mathematical operations on CSS properties, which is useful for creating responsive and dynamic designs. We've learned to split our code into smaller files and import them as needed, which improves the project's organization and scalability.

Finally, we explored how to integrate Sass into a real website, demonstrating its ability to improve development efficiency and the quality of the generated CSS code. With these skills, we are prepared to

SASS PROCESSOR  
PROGRAMMING STEP BY STEP AND MORE. INSTRUCTIVE

apply Sass in future projects and significantly improve our productivity as front-end developers.

# SASS PROCESSOR PROGRAMMING STEP BY STEP AND MORE. INSTRUCTIVE

## **About the Author**

After several decades dedicated to improving the energy efficiency of heating and cooling equipment and systems, I faced a major change: retirement. Upon retiring, I felt disoriented and without purpose, which affected my emotional well-being. To combat this feeling, I sought a new occupation that would keep me active and motivated.

I decided to share my experiences and accumulated knowledge from over four decades of working in the industry. This led to the creation of this project, with the goal of publishing articles, calculation tools, and tutorials on the various disciplines I've worked in throughout my engineering career, including web programming, which I use to optimize project management, investments, finance, and marketing. In my experience, web programming is a powerful tool for solving complex problems in industrial settings, technical services, and everyday life.

My new approach to looking to the future has allowed me to keep my mind active, stay up-to-date, and learn new technologies.

This guide stems from the conviction that programming languages are fundamental tools in today's world. This project is designed to help people of all ages improve their professional skills and achieve their career goals. Whether you're starting a career or looking for new ways to contribute your expertise, this resource offers the tools and opportunities you need to grow. Learning a new programming language is an excellent way to make the most of your free time, strengthen your resume, and stay current in an increasingly digital job market.

El Autor

SASS PROCESSOR  
PROGRAMMING STEP BY STEP AND MORE. INSTRUCTIVE

PROGRAMMING STEP BY STEP  
AND MORE  
INSTRUCTIVE

Published in Hard Copy and Digital  
Miami, Florida, USA, 2024

First Edition

ISBN:

Copyright © 2024 René F. Ruano Domínguez

All rights reserved.