

*Unlock your potential and master web development*

PROGRAMMING STEP BY STEP  
AND MORE  
INSTRUCTIONS

CURRENT, VERSATILE, ADVANCED

**Book 1 - Part One**  
**HTML, CSS, RESPONSIVE**  
**DESIGN**

Rene F. Ruano Domínguez

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## **DEDICATION**

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

This How-To is dedicated to everyone: To you, the brilliant 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 with useful hours, and exercising their minds.

## PROLOGUE

***PROGRAMMING STEP BY STEP AND MORE*** -Book 1 - Part One: HTML, CSS, RESPONSIVE DESIGN not only captures the essence of web development but also reflects the meticulous dedication and deep knowledge accumulated by its author, René F. Ruano Domínguez.

This book offers a comprehensive guide, starting with the essential fundamentals of web development and progressing to more complex techniques, all with a clear and accessible approach. In each chapter, readers will find a valuable resource ranging from basic HTML to advanced responsive design, providing them with the skills necessary to create professional-quality websites.

The combination of practical experience and theoretical understanding offered in this book is ideal for both those taking their first steps in programming and experienced developers looking to deepen their knowledge.

***Programming Step by Step and Beyond***- Book 1 - Part One is a significant contribution to the developer community, providing a solid foundation for modern web design. This book is a testament to the author's commitment and ability to convey his expertise in an accessible and effective format. Personally, I have deep admiration for the author's dedication and passion for teaching, qualities that are evident on every page of this book. His ability to break down complex concepts and his commitment to excellence make this work an invaluable tool for any aspiring developer. I am convinced that his enthusiasm and dedication to the subject inspire all those who have the privilege of learning from him.

I hope this book gives you a clear and practical understanding of web development, from the basics to advanced techniques. It's designed to provide you with valuable tools and knowledge that you can apply to your projects, whether you're a beginner or a professional in the field.

With admiration and gratitude,  
Idalmy Baluja Conde

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## **GRATITUDE**

To my family, my colleagues, my friends.

Thank you, thank you so much for the unconditional support you've given me since I started this project. And to those who didn't believe in me, I'm grateful for motivating me to prove that it was worth it.

Without the encouragement, suggestions, trust they placed in me, and the personal challenge of creating a useful product, this project would not have been possible.

## 1. OBJECTIVES AND SCOPE OF THE INSTRUCTIONS

The main objective is to facilitate the learning of programming and web design from scratch in a simple and efficient way, step by step, studying, practicing, and using the essential tools and software to begin learning a programming language like JavaScript.

Throughout the chapters of this Book 1, Part 1, you'll follow a long and detailed path, starting with setting up an efficient development environment and acquiring the necessary HTML and CSS skills for web development. We'll begin by setting up essential tools like Visual Studio Code and Node.js, which are essential for writing, editing, and debugging code professionally.

You'll learn the effective use of HTML, CSS, and JavaScript comments as a key practice for maintaining code clarity and maintainability, thus promoting more efficient collaborative development. You'll create your first HTML page and learn how to write and refactor code in a structured and semantically correct manner.

The topics covered in Book 1 teach responsive design, which ensures our pages look and function optimally on a variety of devices and screen sizes. To ensure this quality requirement, we'll cover advanced techniques such as Flexbox, Grid, and media queries. We'll also introduce the basics of Sass, which will help us improve the efficiency and maintainability of our CSS code.

In short, this journey will not only provide you with the technical skills necessary to create and publish professional-quality websites but will also help you stay current and continue learning new tools and techniques in the field of web development. This combination of theoretical and practical knowledge will prepare you for the study of web programming languages in this specialty.

It's given that if you complete the first How-To Book, you'll be able to design responsive web pages and master the technique of applying CSS style properties to HTML selectors.

With this knowledge, you'll have the latest tools to design, edit, and publish excellent web pages that can be viewed elegantly on any device, regardless of the screen width.

The course of the Instructional forces you to constantly exercise your memory, performing exercises and practices of each functionality presented, 23 files (11 HTML, 9 CSS, 1 JS, 2 SASS) which helps occupy and convert time into useful hours for your benefit.

The various technologies integrated into the learning process of the Instruction Manual form a motivating framework that positively influences the user, sparking their interest and creating the expectation of moving forward in developing their creativity and imagination, impacting both young people and adults and seniors eager to learn about the new technologies present in modern communication devices.

Overall, the Tutorial is a valuable and well-thought-out resource for learning web development from scratch. The combination of theory and practice, along with extensive coverage of relevant technologies and tools, makes it an attractive option for those looking to acquire web programming skills.

Spending time learning programming languages and building websites has short-, medium-, and long-term benefits, similar to an investment. Among these benefits, you'll see how you'll expand your personal social relationships by being able to showcase and share your personal skills, knowledge, experiences, and business interests with others. This has a positive impact on people's quality of life.

In short, completing the first book of the Instruction Manual provides future benefits that elevate and improve personal qualifications, a quality that influences one's standard of living in the short and medium term.

If you decide to finish this first Instruction Book, you will feel proud and satisfied with what you have accomplished.

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