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# Fundamentals of Web Development, 3rd edition

Randy Connolly, Ricardo Hoar



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## Overview

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*This print textbook is available for you to rent for your classes. The Pearson print rental program provides you with affordable access to learning materials, so you go to class ready to succeed.*

*Fundamentals of Web Development* guides you through the creation of enterprise-quality websites using current development frameworks. Written by leading teachers in the field and designed for serious programmers, this book is as valuable as a dev bootcamp. Its practical approach and comprehensive insight into the practice of web development covers HTML5, CSS, JavaScript, two server-side stacks (PHP and MySQL, as well as Node and MongoDB), CSS preprocessors, CSS design principles, ES6+ language additions, web and browser APIs, React, TypeScript, SQLite and NoSQL databases, GraphQL, serverless computing, caching, new security vulnerabilities, JWT authentication, DevOps, continuous integration/deployment, and microservice architectures. Coverage also includes the required ACM web development topics, aligned with real-world web development best practices.

The **3rd Edition** covers the most vital trends and innovations in the field since 2016 — including significantly increased coverage of JavaScript — while continuing to provide a thorough and comprehensive overview of both the theory and practice of web development.

1. Introduction to Web Development
2. How the Web Works
3. HTML 1: Introduction
4. CSS 1: Selectors and Basic Styling
5. HTML 2: Tables and Forms
6. Web Media
7. CSS 2: Layout
8. JavaScript 1: Language Fundamentals
9. JavaScript 2: Using JavaScript
10. JavaScript 3: Additional Features
11. JavaScript 4: React
12. Server-Side 1: PHP
13. Server Side 2: Node.js
14. Working with Databases
15. Managing State
16. Security
17. DevOps and Hosting

## 18. Tools and Traffic

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