**Learn to Code**

**Motivation**

[Learn to Code](https://www.educative.io/courses/learn-to-code-python-for-absolute-beginners/introduction) is for people who want to step into the programming world with zero coding knowledge. Stepping on the journey to learn coding is an exciting and empowering step. Whether you’re aiming to become a professional developer, enhance your problem-solving skills, or simply want to understand the technology that shapes our world, this guide is designed to provide you with the best resources to start your programming adventure from scratch. Dive in and explore the curated list of resources that will equip you with the knowledge and skills to succeed in the programming world.

**Getting Started**

In today’s digital age, learning to code is a valuable skill that opens doors to numerous opportunities. This guide is tailored for beginners who are just stepping into the world of programming. With so many resources available, it can be overwhelming to find the right ones. This list provides a structured approach to help you start your coding journey confidently.

**Resources**

The following are the best learn-to-code resources for individuals who want to become programmers or software engineers. These resources are selected to cover all aspects of programming education, from foundational courses to advanced skill assessments. They are designed to provide a comprehensive, structured, and practical learning experience, enabling you to build a solid foundation and grow your expertise in various programming domains.

# Courses

**Beginner-Friendly Courses:** Explore these courses designed to take you from absolute beginner to proficient coder in various programming languages and technologies.

* [Learn to Code: Python for Absolute Beginners](https://www.educative.io/courses/learn-to-code-python-for-absolute-beginners): Start your coding journey with Python, a versatile and beginner-friendly language.
* [Learn to Code: C++ for Absolute Beginners](https://www.educative.io/courses/learn-to-code-cpp-for-absolute-beginners): Dive into C++, known for its performance and control over system resources
* [Learn to Code: C# for Absolute Beginners](https://www.educative.io/courses/learn-to-code-c-sharp-for-absolute-beginners): Learn C#, a popular language for developing Windows applications.
* [Learn to Code: Java for Absolute Beginners](https://www.educative.io/courses/learn-to-code-java-for-absolute-beginners): Get started with Java, a widely-used language in various domains.
* [Learn to Code: JavaScript for Absolute Beginners](https://www.educative.io/courses/learn-to-code-javascript-for-absolute-beginners): Begin coding with JavaScript, essential for web development.
* [Learn to Code: Ruby for Absolute Beginners](https://www.educative.io/courses/learn-to-code-ruby-for-absolute-beginners): Explore Ruby, a language known for its simplicity and productivity.
* [Programming in Python](https://www.educative.io/courses/programming-in-python): Enhance your Python skills with this comprehensive course.
* [Learn Python 3 from Scratch](https://www.educative.io/courses/learn-python-3-from-scratch): Master Python 3, the latest version of this powerful language.
* [Python 3: From Beginner to Advanced](https://www.educative.io/courses/python-3-beginner-advanced): Transition from a Python beginner to an advanced coder.
* [Programming in Python](https://www.coursera.org/learn/programming-in-python): Enhance your Python skills with this comprehensive course.
* [Learn Java from Scratch](https://www.educative.io/courses/learn-java-from-scratch): Build a solid foundation in Java programming.
* [Learn Java](https://www.codechef.com/learn/course/java)
* [A Complete Guide to Java Programming](https://www.educative.io/courses/complete-guide-to-java-programming): A detailed course covering all aspects of Java.
* [Learning Java for Python Programmers](https://www.educative.io/courses/learning-java-for-python-programmers): Bridge your Python knowledge to learn Java.
* [Learn C from Scratch](https://www.educative.io/courses/learn-c-from-scratch): Start coding in C, a foundational language for many modern languages.
* [Learn C++: The Complete Course for Beginners](https://www.educative.io/courses/learn-cpp-complete-course): Comprehensive C++ course for new programmers.
* [C# for Programmers: A Practical Guide](https://www.educative.io/courses/c-sharp-for-programmers-a-practical-guide): Practical insights and techniques for learning C#.
* [An Introductory Guide to SQL](https://www.educative.io/courses/introductory-guide-to-sql): Start working with databases using SQL.
* [Learn HTML, CSS, and JavaScript from Scratch](https://www.educative.io/courses/learn-html-css-javascript-from-scratch): Build web development skills from the ground up.
* [Web Development: Unraveling HTML, CSS, and JavaScript](https://www.educative.io/courses/web-development-unraveling-html-css-js): Comprehensive guide to essential web technologies.
* [Learn Node.js: The Complete Course for Beginners](https://www.educative.io/courses/learn-nodejs-complete-course-for-beginners): Learn Node.js for server-side programming.

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# Skill Paths

**Structured Learning Paths:** Follow these curated paths to systematically build your skills and prepare for a career in software development, data analysis, machine learning, and more.

* [Learn to Code: Become a Software Engineer](https://www.educative.io/path/learn-to-code-become-a-software-engineer): Follow this path to become a proficient software engineer.
* [Learn to Code: Become a Java Developer](https://www.educative.io/path/learn-to-code-become-a-java-developer): Specialize in Java and its applications.
* [Zero to Hero in Java](https://www.educative.io/path/zero-to-hero-in-java): Master Java from basics to advanced topics.
* [Learn to Code: Become a Data Analyst](https://www.educative.io/path/learn-to-code-become-a-data-analyst): Develop the skills needed for data analysis.
* [Learn to Code: Become a Machine Learning Engineer](https://www.educative.io/path/learn-to-code-become-a-machine-learning-engineer): Dive into machine learning and AI.
* [Computer Science Bootcamp](https://www.educative.io/path/computer-science-bootcamp): Comprehensive computer science education.
* [Zero to Hero in Python](https://www.educative.io/path/zero-to-hero-in-python): Go from a beginner to an expert in Python.
* [Python for Programmers](https://www.educative.io/path/python-for-programmers): Beginner to Advanced Python topics to become a Python Programmer.
* [Become a C++ Programmer](https://www.educative.io/path/cpp-for-programmers): Master C++ for software development.
* [Zero to Hero in C++](https://www.educative.io/path/zero-to-hero-in-cpp): Complete C++ education from basics to advanced.
* [Zero to Hero in C#](https://www.educative.io/path/zero-to-hero-in-c-sharp): Learn C# for various applications.
* [Zero to Hero in JavaScript](https://www.educative.io/path/zero-to-hero-in-javascript): Master JavaScript for web development.
* [Fundamentals of Web Programming](https://www.educative.io/path/fundamentals-web-programming): Essential web programming skills.
* [Learn to Code: Become a Web Developer](https://www.educative.io/path/learn-to-code-become-a-web-developer): Comprehensive guide to web development.
* [Zero to Hero in Front-end Web Development](https://www.educative.io/path/zero-to-hero-in-front-end-web-development): Specialize in front-end technologies.

# Projects

**Hands-On Projects:** Enhance your coding skills by working on these practical, real-world projects designed to reinforce your learning and build your portfolio.

* [Python Slam Dunk: Coding Skills Through Basketball](https://www.educative.io/module/page/k5m3gAColoJZZj89Y/10370001/6284744546975744/6117916340256768): Combine coding with your love for basketball.
* [Build Your Own Chatbot in Python](https://www.educative.io/module/page/k5m3gAColoJZZj89Y/10370001/5828641646313472/6710869083422720): Create a functional chatbot using Python.
* [PDF Management in Python](https://www.educative.io/module/page/k5m3gAColoJZZj89Y/10370001/5828641646313472/6340644613783552): Learn to manage PDF files with Python.
* [Capstone Project: AI-based Text and Image Generator](https://www.educative.io/module/page/k5m3gAColoJZZj89Y/10370001/4928652672892928/6455417438339072/project): Develop an AI project from scratch.
* [Create a Tic Tac Toe Application with Minimax Using JavaFX](https://www.educative.io/projects/create-a-tic-tac-toe-application-with-minimax-using-javafx): Implement a classic game with advanced algorithms.
* [Data Visualization Using Plotly.js](https://www.educative.io/projects/data-visualization-using-plotlyjs): Visualize data using Plotly.js.
* [Student Management System Using PythonStudent Management System Using Python](https://codewithcurious.com/projects/student-management-system-using-python/): Build a complete student management system.

# Blogs

**Inspiring and Informative Reads:** Stay updated and inspired with these blogs, offering tips, insights, and advice on learning to code, career development, and more.

* [How to start coding in 2024](https://www.educative.io/blog/start-coding): Tips and advice for new coders.
* [Why Everyone Should Learn to Code](https://www.educative.io/blog/why-everyone-should-learn-to-code): Explore the benefits of coding.
* [How to teach yourself to code gradually in 2024](https://www.educative.io/blog/how-to-teach-yourself-to-code): Self-paced coding strategies.
* [Can I learn coding on my own? The ultimate guide for 2024](https://www.educative.io/blog/can-i-learn-coding-on-my-own): Independent learning tips.
* [The best ways to learn to code in 2024](https://www.educative.io/blog/the-best-ways-to-learn-to-code): Effective learning methods.
* [The best web developer roadmap for 2024](https://www.educative.io/blog/web-developer-roadmap): Navigate your web development journey.
* [Learn how to code: The beginner's guide to coding and syntax](https://www.educative.io/blog/learn-how-to-code-beginners-guide): Coding fundamentals and syntax.
* [Should I learn Python as my first programming language?](https://www.educative.io/blog/python-as-your-first-programming-language): Explore Python as a starting point.
* [Best Way to Learn Python Coding](https://www.educative.io/blog/best-way-to-learn-python): Effective Python learning strategies.
* [11 Beginner Tips for Learning Python Programming (Non-Educative)](https://realpython.com/python-beginner-tips/): Practical tips for new Python coders.
* [Top 10 courses to learn Python online](https://www.educative.io/blog/top-10-online-python-courses): Recommended Python courses.
* [Step up your coding skills with this free Python course](https://www.educative.io/blog/free-python-course): Free Python learning resource.
* [How to learn Python in 5 easy steps (for beginners)](https://www.educative.io/blog/how-to-learn-python-in-5-easy-steps): Simplified learning steps.
* [How to take integer input in Python](https://www.educative.io/blog/how-to-take-integer-input-in-python): Input handling in Python.
* [How long does it take to learn Python?](https://www.educative.io/blog/how-long-does-it-take-to-learn-python): Timeframe for learning Python.
* [3 tips for beginner Python devs: Advice from an industry expert](https://www.educative.io/blog/tips-beginner-python-developers): Expert advice for new Python developers.
* [The best web developer roadmap for 2024](https://www.educative.io/blog/web-developer-roadmap): Comprehensive web development guide.
* [The right time for beginner coders to start projects](https://www.educative.io/blog/the-right-time-to-start-your-coding-projects): When to start coding projects.
* [How can I learn to code for free?](https://www.educative.io/blog/learn-to-code-for-free): Free coding resources.
* [Why learning to code is still important in an AI-driven world](https://www.educative.io/blog/learning-to-code-in-ai)**:** The importance of coding skills.

# Cheat Sheets

**Quick References:** Use these cheat sheets as quick references to reinforce your learning and solve coding challenges efficiently.

* [C++ FOR ABSOLUTE BEGINNERS](https://www.educative.io/api/cheatsheet/6409192875884544/download): Essential C++ syntax and functions.
* [PYTHON CHEATSHEET FOR ABSOLUTE BEGINNERS](https://www.educative.io/api/cheatsheet/5899594593075200/download): Key Python concepts and commands.
* [Python3 Cheat Sheet](https://perso.limsi.fr/pointal/_media/python:cours:mementopython3-english.pdf): Comprehensive Python 3 guide.
* [Programming Fundamentals](https://www.educative.io/api/cheatsheet/5889597530308608/download): Core programming principles.
* [Object-Oriented Programming (OOP)](https://www.educative.io/api/cheatsheet/6084788272889856/download): OOP concepts and principles.
* [Introduction to SQL](https://www.educative.io/api/cheatsheet/5141612851757056/download): Basic SQL commands and queries.
* [Web Development Basics-CSS](https://www.educative.io/api/cheatsheet/5667547047919616/download): Essential CSS properties and selectors.
* [Software Development Life Cycle](https://www.educative.io/api/cheatsheet/6639066158858240/download)*:* Key phases of software development.

# Skill Assessments

**Test Your Knowledge:** Evaluate your understanding and proficiency in various programming languages and concepts with these skill assessments.

* [PYTHON FUNDAMENTALS](https://www.educative.io/assessments/python-fundamentals-assessment): Assess your Python basics.
* [Python Quiz](https://www.w3schools.com/python/python_quiz.asp): Test your Python knowledge.
* [SQL Fundamentals](https://www.educative.io/assessments/sql-fundamentals): Basic SQL knowledge assessment.
* [Object-Oriented Programming in Java](https://www.educative.io/assessments/object-oriented-programming-in-java): Java OOP concepts assessment.
* [C FUNDAMENTALS](https://www.educative.io/assessments/c-fundamentals): Test your knowledge of C.
* [C++ Fundamentals](https://www.educative.io/assessments/cpp-fundamentals): Basic C++ knowledge assessment.
* [C# FUNDAMENTALS](https://www.educative.io/assessments/c-sharp-fundamentals): Assess your C# basics.
* [Java Fundamentals](https://www.educative.io/assessments/java-fundamentals): Core Java knowledge test.
* [Core Java Quiz | Java Online Test](https://www.javatpoint.com/core-java-quiz): Advanced Java assessment.
* [PYTHON PANDAS FUNDAMENTALS](https://www.educative.io/assessments/python-pandas-fundamentals): Test your knowledge of Pandas in Python.
* [DATA STRUCTURES AND ALGORITHMS FUNDAMENTALS](https://www.educative.io/assessments/data-structures-and-algorithms-fundamentals): Core DSA concepts assessment.
* [Design Pattern Fundamentals](https://www.educative.io/collection/page/10370001/5405225487958016/4705554780127232/assessment): Test your knowledge of design patterns.
* [HTML FUNDAMENTALS](https://www.educative.io/assessments/html-fundamentals): Basic HTML knowledge assessment.
* [WEB DEVELOPMENT FUNDAMENTALS](https://www.educative.io/assessments/web-development-fundamentals): Core web development concepts test.
* [CSS FUNDAMENTALS](https://www.educative.io/assessments/css-fundamentals): Assess your CSS knowledge.
* [JAVASCRIPT FUNDAMENTALS](https://www.educative.io/assessments/javascript-fundamentals): Test your JavaScript basics.

# Interviews Preparation

**Get Ready for Job Interviews:** Prepare thoroughly for coding interviews with these resources, covering everything from technical questions to behavioral interviews.

* [The Coding Career Handbook](https://www.educative.io/courses/coding-career-handbook): Comprehensive guide for coding careers.
* [Grokking the Behavioral Interview](https://www.educative.io/courses/grokking-the-behavioral-interview): Prepare for behavioral questions.
* [Data Structures for Coding Interviews in Python](https://www.educative.io/courses/data-structures-coding-interviews-python): Python-specific interview prep.
* [Decode the Coding Interview in Python: Real-World Examples](https://www.educative.io/courses/decode-coding-interview-python): Practical Python interview questions.
* [Data Structures for Coding Interviews in C++](https://www.educative.io/courses/data-structures-coding-interviews-cpp): C++-specific interview prep.
* [Decode the Coding Interview in C++: Real-World Examples](https://www.educative.io/courses/decode-coding-interview-cpp): Practical C++ interview questions.
* [Data Structures for Coding Interviews in C#](https://www.educative.io/courses/data-structures-interviews-cs): C#-specific interview prep.
* [Decode the Coding Interview in C#: Real-World Examples](https://www.educative.io/courses/decode-the-coding-interview-csharp): Practical C# interview questions.
* [Data Structures for Coding Interviews in Java](https://www.educative.io/courses/data-structures-coding-interviews-java): Java-specific interview prep.
* [Decode the Coding Interview in Java: Real-World Examples](https://www.educative.io/courses/decode-coding-interview-java): Practical Java interview questions.
* [Data Structures for Coding Interviews in JavaScript](https://www.educative.io/courses/data-structures-coding-interviews-javascript): JavaScript-specific interview prep.
* [JS Assessment: Assess your Javascript skills](https://www.educative.io/courses/assess-your-javascript-skills): JavaScript skills assessment.
* [Decode the Coding Interview in JavaScript: Real-World Examples](https://www.educative.io/courses/decode-coding-interview-js): Practical JavaScript interview questions.
* [Master the JavaScript Interview](https://www.educative.io/courses/master-the-javascript-interview): In-depth JavaScript interview preparation.
* [Deep Dive Into Data Science Interview](https://www.educative.io/courses/deep-dive-into-data-science-interview): Prepare for data science interviews.
* [Coderust: Hacking the Coding Interview](https://www.educative.io/courses/coderust-hacking-the-coding-interview): Comprehensive interview preparation.
* [Coding Interview Preparation](https://www.coursera.org/learn/coding-interview-preparation#modules): General coding interview resources.
* [Algorithmic Problem Solving: Preparing for a Coding Interview](https://www.educative.io/courses/algorithmic-problem-solving-preparing-for-a-coding-interview): Focus on algorithms for interviews.

These resources are carefully curated to ensure you have a comprehensive, structured, and practical learning experience. Happy coding!