

Step By Step Guide To Computer Programming And The Learners Bible For 2020 2021

Are you interested in learning computer programming? Do you want to become a software developer or create your own apps? If so, you've come to the right place! In this comprehensive guide, we will take you through the step-by-step process of learning computer programming and provide you with a learners bible for the year 2020-2021. Get ready to embark on an exciting journey into the world of coding!

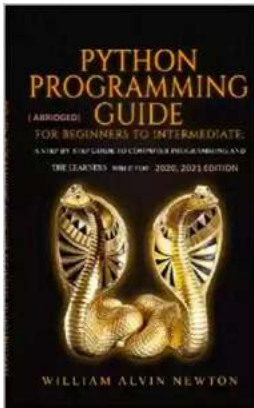
Why Learn Computer Programming?

The world of technology is advancing at an unprecedented pace. From smartphones to self-driving cars, computer programming is at the core of it all. By learning to code, you open up a plethora of career opportunities and become an essential part of the digital revolution. Whether you want to work for a tech giant, start your own tech startup, or simply enhance your problem-solving skills, computer programming is a valuable skill to learn.

Choosing the Right Programming Language

Just like spoken languages, there are various programming languages, each with its own unique syntax and purpose. Choosing the right programming language to start with is crucial, as it sets the foundation for your learning journey. While there are numerous programming languages to choose from, some popular options for beginners include:

**Python Programming Abridge Guide For
beginners To Intermediate: A step by step guide**



To Computer Programming and the Learners Bible for 2020 2021 Edition by Laurie S. Sutton (Kindle Edition)

★★★★☆ 4.2 out of 5

Language	: English
File size	: 4951 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Lending	: Enabled
Print length	: 216 pages



- Python: Known for its simplicity and versatility, Python is an excellent language for beginners to start with. It is widely used in areas such as web development, data analysis, and artificial intelligence.
- JavaScript: If you're interested in web development, JavaScript is a must-learn language. It is the language of the web and is used to add interactivity and functionality to websites.
- C++: Although more complex than Python or JavaScript, C++ is a powerful language widely used in game development, system programming, and performance-critical situations.

These are just a few examples, and the choice ultimately depends on your interests and goals. Research different programming languages to find the one that resonates with you.

Learning Resources

Once you've chosen a programming language, it's time to dive into learning! Fortunately, there are plenty of resources available to help you along the way.

Here are some recommended resources:

1. **Online Tutorials:** Websites like Codecademy, Udemy, and freeCodeCamp offer interactive tutorials for various programming languages. These tutorials guide you step-by-step and provide hands-on exercises to practice your skills.
2. **Books:** Traditional books are still an excellent resource for learning programming. Some popular programming books include "Python Crash Course" by Eric Matthes and "Eloquent JavaScript" by Marijn Haverbeke.
3. **Video Courses:** Platforms like Udemy and Coursera offer video courses taught by industry experts. These courses often include assignments and quizzes to test your understanding.
4. **Community Forums:** Join online communities and forums like Stack Overflow, Reddit, and Quora. These platforms allow you to ask questions, seek guidance, and interact with fellow learners and experienced programmers.

Building Projects

One of the best ways to solidify your knowledge and gain practical experience is by building projects. Projects help you apply what you've learned and showcase your skills to potential employers or clients. Start with small projects and gradually work your way up to more complex ones.

For example, if you're learning web development with JavaScript, you could start by building a simple personal portfolio website. As you progress, challenge yourself to create interactive web applications or even contribute to open-source projects.

The Importance of Practice

Computer programming is a practical skill, and like any skill, it requires consistent practice to improve. Dedicate regular time to coding and solving programming challenges. Set achievable goals and work towards them. With each project you build and each line of code you write, you'll become more proficient in programming.

Staying Up-to-Date with Technology

The field of computer programming is constantly evolving, with new technologies and frameworks being introduced regularly. To stay relevant, it's crucial to keep up with the latest trends and advancements. Follow industry websites, subscribe to programming newsletters, and join online communities to stay informed. Conferences and meetups are also great opportunities to network with fellow programmers and learn about emerging technologies.

The Learner's Bible for 2020-2021

As promised, here is the ultimate learners bible for computer programming for the year 2020-2021. This comprehensive list of resources will guide you through your learning journey:

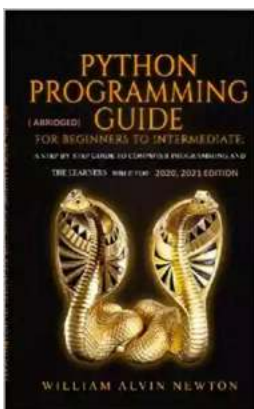
1. Codecademy: Codecademy offers interactive coding lessons for various programming languages. It provides a hands-on learning experience and covers everything from basic syntax to building full projects.
2. Udemy: Udemy is an online learning platform with a plethora of programming courses. From beginner to advanced topics, Udemy offers courses for every skill level.
3. freeCodeCamp: freeCodeCamp is a non-profit organization that offers coding challenges and projects for beginners. It also has a strong community

aspect, allowing you to connect with fellow learners.

4. Python Crash Course by Eric Matthes: This book is an excellent resource for beginners learning Python. It covers the basics of Python programming and provides hands-on exercises to reinforce concepts.
5. Eloquent JavaScript by Marijn Haverbeke: This book is highly recommended for those interested in learning JavaScript. It covers both the basics and more advanced topics, such as functional programming and asynchronous programming.
6. Stack Overflow: Stack Overflow is a popular programming Q&A platform. It is a valuable resource for troubleshooting coding issues and learning from the experiences of others.

These are just a few resources to get you started. Remember, the key to successful learning is consistency and perseverance. Embrace challenges, seek help when needed, and never stop learning!

Learning computer programming is an exciting and rewarding journey. By following this step-by-step guide and utilizing the provided resources, you'll be well on your way to becoming a proficient programmer. Remember to choose the right programming language, practice regularly, and stay up-to-date with the latest technologies. The world of coding awaits you!



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Description

In The Ultimate Python Programming Guide for Beginners you will learn all the essential tools to become proficient in the python programming language. Learn how to install python in all major operating systems: Windows, Mac OS, and even Linux. You will be guided step by step from downloading the necessary files to making adjustments in the installation for your particular operating system. Learn the command line shell, and how to use it to run python in interactive and script modes.

Discover how the python interpreter functions, and learn how to use the interactive command line shell through practical examples you can try on your own. Learn datatypes and variables in depth, with example code and discussion of the generated output.

Numbers are covered in detail, including a discussion of the 4 number types in python: integer, float, complex, and boolean. Learn about Truthy and Falsy returns and how they relate to the boolean type. Practice with some of the many built-in python math functions, and discover the difference between format() and round() functions.

Strings are one of the most important variables in any programming language. Learn in-depth how to explore, search, and even manipulate strings in python.

Practice with python's built-in string methods.

Learn about python's control structures and how to use boolean logic to achieve your software requirements.

- Deal with operators and develop an understanding of the strengths and differences of mathematical, relational and logical operators, as well as the importance of operator precedence and associativity.
- Learn about strings and the many ways to search through and manipulate them.
- Discover the power of inheritance and polymorphism.
- Learn how to open, manipulate and read, and close files on your filesystem.
- Learn about the philosophy and importance of code reuse, and how modules in python makes this simple.
- Examine the difference between procedural and Object Oriented programming. Which is right for you may depend on what kind of code you are writing.
- Practice control structures in python.
- Study operators and learn about operator overloading.
- An in-depth discussion of python sequences: lists, sets, tuples and dictionaries. Learn the strengths and weaknesses of each. Practice creating and manipulating python sequences.



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