Top 10 GitHub Resources for Developers

A Curated Collection of Essential Programming Repositories

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Contents

1 Free Programming Books

1.1 Repository URL

github.com/EbookFoundation/free-programming-books

1.2 Title

free-programming-books

1.3 Description

Freely available programming books

1.4 High-Level Overview

This repository, administered by the Free Ebook Foundation, is a collaborative list of freely available programming books and other learning resources. Originally cloned from StackOverflow and moved to GitHub for better maintenance, it includes resources grouped by genres such as books in English organized by programming language and subject, cheat sheets, free online courses, interactive programming resources, problem sets for competitive programming, podcasts, screencasts, and programming playgrounds. It also provides translations of contributing documents and is licensed under the CC BY License. Contributions are encouraged, with detailed guidelines in the CONTRIBUTING document. Ideal for self-learners seeking cost-free educational materials across various tech topics.

2 Public APIs

2.1 Repository URL

github.com/public-apis/public-apis

2.2 Title

public-apis

2.3 Description

A collective list of free APIs for use in software and web development

2.4 High-Level Overview

This community-curated repository offers a comprehensive collection of free public APIs across diverse domains, including Animals, Anime, Anti-Malware, Art & Design, Authentication & Authorization, Blockchain, Books, Business, Calendar, Cloud Storage & File Sharing, Continuous Integration, Cryptocurrency, Currency Exchange, Data Validation, Development, Dictionaries, Documents & Productivity, Email, Entertainment, Environment, Events, Finance, Food & Drink, Games & Comics, Geocoding, Government, and Health (e.g., COVID-19 data). Maintained by community members and APILayer, it includes API details such as descriptions, authentication requirements, HTTPS support, and CORS info. Additional resources feature examples like IPstack for location data, Marketstack for stocks, and Weatherstack for weather, plus a Discord server for updates and discussions. A treasure trove for developers integrating APIs into projects.

3 Awesome Lists

3.1 Repository URL

github.com/sindresorhus/awesome

3.2 Title

sindresorhus/awesome

3.3 Description

Awesome lists about all kinds of interesting topics

3.4 High-Level Overview

This repository serves as a meta-collection of curated "awesome" lists covering a wide array of topics, categorized into platforms (e.g., Node.js, iOS, Android), programming languages (e.g., Python), front-end and back-end development, computer science, big data, theory, books, editors, gaming, development environments, entertainment, databases, media, learning resources, security, content management systems, hardware, business, work, networking, decentralized systems, health and social sciences, events, testing, and miscellaneous areas. It links to various GitHub repositories and external resources with detailed subcategories for each. The repo also provides contribution guides and instructions for creating new lists, making it a go-to hub for discovering high-quality, community-vetted resources on virtually any tech-related subject.

4 Developer Roadmap

4.1 Repository URL

github.com/kamranahmedse/developer-roadmap

4.2 Title

developer-roadmap

4.3 Description

Interactive roadmaps, guides and other educational content to help developers grow in their careers

4.4 High-Level Overview

This community-driven repository features interactive roadmaps, articles, and resources designed to guide developers in career progression. It includes visual roadmaps for various paths (e.g., frontend, backend, DevOps), best practices checklists, and self-assessment questions to test knowledge. Aimed at helping users choose and navigate tech career paths, it encourages contributions such as adding new content, suggesting improvements, or discussing ideas via issues. Development setup involves cloning the repo and installing dependencies, with full contribution details available in the CONTRIBUTING.md file. Licensed openly, its a valuable tool for both beginners and experienced developers seeking structured learning and growth strategies.

5 System Design Primer

5.1 Repository URL

github.com/donnemartin/system-design-primer

5.2 Title

The System Design Primer

5.3 Description

Learn how to design large-scale systems. Prep for the system design interview. Includes Anki flashcards

5.4 High-Level Overview

This organized collection of resources focuses on building scalable systems and preparing for system design interviews. It covers key principles like scalability, consistency, availability, caching, and more, with sample interview questions, solutions, and links to further reading. Includes Anki flashcards for spaced repetition learning. Topics range from foundational concepts to advanced system architectures, making it ideal for interview prep or general knowledge enhancement. Community contributions are welcomed to expand the content, positioning it as a practical guide for engineers tackling large-scale design challenges.

6 The Algorithms - Python

6.1 Repository URL

github.com/TheAlgorithms/Python

6.2 Title

All Algorithms implemented in Python

6.3 Description

Implementations are for learning purposes only. They may be less efficient than the implementations in the Python standard library. Use them at your discretion

6.4 High-Level Overview

This repository provides Python implementations of various algorithms, purely for educational purposespotentially less efficient than standard library versions. It includes a directory for easy navigation, contribution guidelines for adding or improving code, and community channels like Discord and Gitter for support and discussions. Covering a broad range of algorithms (e.g., sorting, searching, graph traversals), its an excellent resource for learners to study and understand algorithmic concepts through hands-on code examples.

7 Computer Science

7.1 Repository URL

github.com/ossu/computer-science

7.2 Title

computer-science

7.3 Description

Path to a free self-taught education in Computer Science!

7.4 High-Level Overview

This repository outlines a free, self-taught curriculum equivalent to an undergraduate computer science degree, excluding general education courses. It features courses from prestigious institutions like Harvard and MIT, structured into Intro CS, Core CS, Advanced CS, and a final project. Designed for self-paced learning with good study habits, it offers mostly free materials (with optional costs for graded assignments) and community support via Discord and GitHub. Ideal for disciplined learners seeking a comprehensive, no-cost CS education pathway.

8 Papers We Love

8.1 Repository URL

github.com/papers-we-love/papers-we-love

8.2 Title

papers-we-love

8.3 Description

Papers from the computer science community to read and discuss

8.4 High-Level Overview

This repository acts as a directory of academic computer science papers for the Papers We Love community, promoting reading and discussion. It links to various papers (some hosted directly, marked by), encourages participation in local chapter meetups, and offers Discord for online discussions. Additional resources include tips for reading papers, YouTube links to past presentations, and scripts for downloading content. Contributions are invited for adding papers, improving organization, or suggesting related repositories, making it a hub for deep dives into CS research and theory.

9 Best Websites a Programmer Should Visit

9.1 Repository URL

github.com/sdmg15/Best-websites-a-programmer-should-visit

9.2 Title

Best-websites-a-programmer-should-visit

9.3 Description

Some useful websites for programmers

9.4 High-Level Overview

This curated list highlights essential websites for programmers, organized into categories like resources for when youre stuck (e.g., Stack Overflow), news aggregators, coding practice for beginners, general tools, communities, and more. It includes platforms for learning, support, news, challenges, and development tools, with a Chinese version available. Contributions from users are encouraged to expand the list, serving as a handy reference for boosting productivity and skill-building in programming.

10 Build Your Own X

10.1 Repository URL

github.com/codecrafters-io/build-your-own-x

10.2 Title

build-your-own-x

10.3 Description

Master programming by recreating your favorite technologies from scratch

10.4 High-Level Overview

This repository compiles step-by-step guides for recreating technologies from scratch to master programming concepts. Categories include 3D Renderer, Augmented Reality, BitTorrent Client, Blockchain/Cryptocurrency, Bot, Command-Line Tool, Database, Docker, Emulator/Virtual Machine, Front-end Framework/Library, Game, Git, Network Stack, Neural Network, Operating System, Physics Engine, Programming Language, Regex Engine, Search Engine, Shell, Template Engine, Text Editor, Visual Recognition System, Voxel Engine, Web Browser, Web Server, and an Uncategorized section. Maintained by CodeCrafters, Inc., under a public domain license, it encourages contributions and hands-on learning through practical rebuilding exercises.