

An awesome list of resources for people excited to learn about computer science!

If you're feeling generous, don't forget to contribute back with the cool things that you find!

Bold items are *highly recommended!*

[An awesome list of resources for people excited to learn about computer science!](#)

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General

- <https://drive.google.com/drive/folders/1Lpbl-elangfhU9nngAM-0GAKmmUCvtiB>
Watch every meeting recording!
- <https://drive.google.com/drive/folders/15CqqSpmTy3zXFHfSC0ppg8Mh52OCa3Wm>
MS Google Drive folder
- https://drive.google.com/drive/folders/1JsVTEIJH2NybnTohN_mvOozjR_Paox20 HS
Google Drive folder
- <https://stackoverflow.com/> Godly resource for looking up questions
- <https://replit.com/> Great online editor for many programming languages
- <https://code.visualstudio.com> Awesome IDE for many languages (free, works everywhere, highly customizable)

- <https://kate-editor.org/> Super fast and powerful editor that just works™
- <https://code.org/> Coding tutorials
- <https://github.com/LadueCS> **Ladue CS GitHub**
- <https://discord.gg/uZYJHvzfZH> Ladue CS Discord
- <https://matrix.to/#/!wiowujrzEAirReYauW:exozy.me?via=exozy.me> **Ladue CS Matrix**
- <https://github.com/EbookFoundation/free-programming-books> Free programming books
- <https://freecodecamp.org> Free coding courses; WARNING: very long!

Python

- <https://repl.it/@Ta180m/Intro-to-Python-v2> **The best™ introduction to Python**
- <https://pythondiscord.com/> The Python Discord
- <https://www.learnpython.org/> Another Python tutorial
- <https://codingbat.com/python> **Learn Python by solving problems!**
- <https://wiki.python.org/moin/BeginnersGuide/NonProgrammers> A lot of good tutorials
- <https://docs.python.org/3/tutorial/index.html> Want an extra challenge? Try this advanced tutorial
- <https://www.jetbrains.com/pycharm/download/> Awesome Python IDE (community edition is free, requires download and a computer)
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Game Design

- <https://scratch.mit.edu/> **Graphical programming language**
- <https://godotengine.org/> Easy-to-use game engine where you write “real” code!
- <https://www.pygame.org/news> Python game engine

- YouTube: Career advice, live streamed game-jams (aka speedrun making games in 1-4 days)
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Web Development

- <https://www.freecodecamp.org/learn/responsive-web-design/> Web dev tutorials
- <https://www.w3schools.com/> Web dev reference
- <https://developer.mozilla.org/en-US/> Advanced web dev reference
- <https://www.djangoproject.com/> Python web framework
- <https://nextjs.org/> Easy React JavaScript framework
- <https://roadmap.sh/> Web developer roadmaps
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Cybersecurity

- https://drive.google.com/drive/folders/1_qRzNS1bUKReRs2z8rn8g7w1ZA30mkcA **Google Drive folder with lots of resources**
- <https://drpcyber.blogspot.com/> Webpage for the HS Cybersecurity course
- https://en.wikipedia.org/wiki/Computer_security A nice overview of cybersecurity
- <https://www.nist.gov/itl/applied-cybersecurity/nice/resources/online-learning-content> A long list of free cybersecurity resources
- https://www.reddit.com/r/learnprogramming/comments/5bam56/i_want_to_learn_cyber_security_where_should_i/ Some good advice
- <https://cybersecuritybase.mooc.fi/> **A great resource for starting out**
- https://www.reddit.com/r/learnprogramming/comments/32g958/looking_to_get_started_in_cybersecurity/cqazmcn/ Some more good advice
- <https://www.hackthebox.eu/> "A Massive Hacking Playground"

Cryptography

- <https://en.wikipedia.org/wiki/Cryptography> Good overview to find topics that you're interested in learning more about
- <http://index-of.co.uk/Hacking-Coleccion/164%20-%20The%20Code%20Book%20How%20To%20Make%20It,%20Break%20It,%20Hack%20It,%20Crack%20It%20%5B-PUNISHER-%5D.pdf> **The best cryptography book. Very accessible too.**
- <https://www.tutorialspoint.com/cryptography/index.htm> Cryptography tutorial
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Linux

- <https://www.kali.org/docs/wsl/win-kex/> Kali on WSL setup guide
- https://www.tutorialspoint.com/kali_linux/index.htm Kali Linux tutorial
- <https://medium.com/quick-code/top-tutorials-to-learn-kali-linux-for-beginners-131a654b81ad> Kali Linux tutorial
- <https://ubuntu.com/download/desktop/thank-you?version=20.04.2.0&architecture=amd64> **If you want a fun challenge, try installing Ubuntu on your computer and play around with it!**
- <https://askubuntu.com/> Basically Stack Overflow for Ubuntu and Linux
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C

- <https://www.learn-c.org/> Learn C
- <https://www.tutorialspoint.com/cprogramming/index.htm> C tutorial
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Reverse Engineering

- https://en.wikipedia.org/wiki/Reverse_engineering
- <https://blog.udemy.com/reverse-engineering-tutorial/>
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Competitive Programming

- https://drive.google.com/drive/folders/1PWCeNBGukT1XtTSv5UKLobj132_I0BMd Google Drive folder with some introductory presentations
- <https://codingbat.com/> **Easy exercises to get you started**
- <https://usaco.guide/> **The complete USACO guide**
- <https://codeforces.com/> Great CP website with a vibrant community
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Computer Graphics

- <https://www.blender.org/> **The best 3D modeler**
- <https://krita.org/en/> **Digital painting**
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Other Good Stuff

- <https://github.com/Macmod/awesome-cs> Another awesome list
- <https://github.com/zamansky/awesome-cs-education> Yet another awesome list
- <https://www.reddit.com/r/programmingmemes/> **Memes! Memes! Memes!**
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