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<https://www.codecademy.com/learn/learn-git>

<https://www.datacamp.com/users/sign_in?redirect=http%3A%2F%2Fapp.datacamp.com%2Flearn%2Fcourses%2Fintroduction-to-git>

<https://git-scm.com/book/en/v2>

GIT Commit Message - how to write

<https://cbea.ms/git-commit/>

How to write a good commit message by Chris Beams

Python Full Course

[Learn Python - Full Course for Beginners [Tutorial]](https://www.youtube.com/watch?v=rfscVS0vtbw&t=13416s)

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Python for beginners

[Python Tutorial for Absolute Beginners #1 - What Are Variables?](https://www.youtube.com/watch?v=Z1Yd7upQsXY)

Graphical user interface, text

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Python Coding Style

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<https://bigpicture.typepad.com/comments/files/turtlerules.pdf>

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<https://numpy.org/doc/stable/numpy-user.pdf>

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A person standing in an office

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<https://hvplot.holoviz.org/>

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<https://www.researchgate.net/publication/319298448_Developing_Backtesting_Systematic_Trading_Strategies>

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<https://fred.stlouisfed.org/docs/api/fred/>

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<https://pypi.org/project/fredapi/>

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Graphical user interface

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Any Function in Python

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<https://github.com/Rishi0812/MacroDiffusionIndex>

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<https://www.analyticsvidhya.com/blog/2021/05/create-a-dummy-stock-market-using-geometric-brownian-motion-in-python/>

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Some useful resources:

* [Trading Systems 2nd edition: A new approach to system development and portfolio optimisation](https://www.amazon.ca/Trading-Systems-2nd-development-optimisation/dp/085719755X/ref=asc_df_085719755X/?tag=googleshopc0c-20&linkCode=df0&hvadid=378350457287&hvpos=&hvnetw=g&hvrand=7135307924867732505&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000833&hvtargid=pla-848044786036&psc=1)
* For a critical view on TA by David Bailey who has co-authored numerous papers with Marcos Lopez de Prado -  <https://mathinvestor.org/2019/05/technical-analysis-in-major-brokerages-and-financial-media/>
* Han, Yufeng, Ke Yang, and Guofu Zhou. 2013. “A New Anomaly: The Cross-Sectional Profitability of Technical Analysis.” Journal of Financial and Quantitative Analysis 48 (05): 1433–61.
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* "Does Intraday Technical Analysis in the US Equity Market Have Value?” Journal of Empirical Finance 15 (2): 199–210.
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<http://past.rinfinance.com/agenda/2018/BrianPeterson.html#1>

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<https://www.researchgate.net/publication/358814547_Exploring_Classic_Quantitative_Strategies>

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<https://utorvirtfinpt-i0c8572.slack.com/archives/C02HYGDSMBM/p1645968091680589>

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<https://link.medium.com/HxjDtMnZ2nb>

Intro to Options trading

<https://www.amazon.com/Introduction-Options-Trading-Frans-Weert/dp/0470029706>

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<https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet>

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<https://docs.streamlit.io/library/get-started/main-concepts>

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<https://peps.python.org/pep-0318/>

Tutorial for digital resume

[Django Tutorial - Create a Digital Resume with a Python Backend](https://www.youtube.com/watch?v=0oSsLbh_Kv4)

A person smiling for the camera

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Python Dataclasses

<https://docs.python.org/3/library/dataclasses.html>

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<https://www.amazon.ca/Cracking-Coding-Interview-Programming-Questions/dp/0984782850/ref=asc_df_0984782850/?tag=googleshopc0c-20&linkCode=df0&hvadid=293006031037&hvpos=&hvnetw=g&hvrand=18425875945857657357&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000837&hvtargid=pla-388890317700&psc=1>

Coding interview problems

[10 Common Coding Interview Problems - Solved!](https://www.youtube.com/watch?v=Peq4GCPNC5c)

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Advanced Git course

[Advanced Git Tutorial - Interactive Rebase, Cherry-Picking, Reflog, Submodules and more](https://www.youtube.com/watch?v=qsTthZi23VE)

Diagram, icon

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Self in Python

<https://www.programiz.com/article/python-self-why>

Tutorial on Python Classes

<https://docs.python.org/3/tutorial/classes.html>

Python Classes and Object

<https://www.w3schools.com/python/python_classes.asp>

Lorem Ipsum - Dummy text creator

<https://www.lipsum.com/>

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Object Oriented Programming with Python

[Object Oriented Programming with Python - Full Course for Beginners](https://www.youtube.com/watch?v=Ej_02ICOIgs)

Text

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Hashes - Intro

[Hashes 1 Introduction](https://www.youtube.com/watch?v=uW8-HkmNq4Q&list=PLpPXw4zFa0uKKhaSz87IowJnOTzh9tiBk&index=26)

A person standing in front of a screen with text

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<https://lamport.azurewebsites.net/pubs/the-byz-generals.pdf>

Consensus Mechanism

<https://ethereum.org/en/developers/docs/consensus-mechanisms/>

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<https://docs.streamlit.io/library/api-reference/performance/st.cache#advanced-caching>

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Ethereum Gas Explained

<https://defiprime.com/gas>

Anaconda Archive

<https://repo.anaconda.com/archive/>

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<https://infura.io/>

 Intro to web3

<https://www.dappuniversity.com/articles/web3-py-intro>

Secretbox Demo

<https://tweetnacl.js.org/#/secretbox>

Bips Git

<https://github.com/bitcoin/bips>

Mnemonicizer

<https://human-factors.arc.nasa.gov/groups/cognition/tutorials/mnemonics/index.html>

Reading env variable in a jupyter notebook

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Security vulnerabilities in Eth Smart Contracts

<https://arxiv.org/pdf/2105.06974.pdf>

 Proof of Work Protocol

[Bitcoin - Proof of work](https://www.youtube.com/watch?v=9V1bipPkCTU)

Graphical user interface, text

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Blockchain 101

[Blockchain 101 - A Visual Demo](https://www.youtube.com/watch?v=_160oMzblY8)

Graphical user interface, application, website

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Proof of Stake

[Proof-of-Stake (vs proof-of-work)](https://www.youtube.com/watch?v=M3EFi_POhps)

Graphical user interface, text

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Mining Difficulty

[Mining Difficulty - Simply Explained](https://www.youtube.com/watch?v=o1gOyhU6XEw)

Logo

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Blockchain 101 - part 2 public and private key/signing

[Blockchain 101 - Part 2 - Public / Private Keys and Signing](https://www.youtube.com/watch?v=xIDL_akeras)

Graphical user interface, text, application, email, website

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The magic of digital signatures on Ethereum

<https://medium.com/mycrypto/the-magic-of-digital-signatures-on-ethereum-98fe184dc9c7>

Ganache Installation

<https://trufflesuite.com/ganache/>

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<https://web3py.readthedocs.io/en/stable/contracts.html>

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Solidity - Intro to smart contract

<https://docs.soliditylang.org/en/v0.5.11/introduction-to-smart-contracts.html?highlight=storage#storage-memory-and-the-stack>

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Sentdex - Tutorial on programming

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 Gas & Fees

<https://ethereum.org/en/developers/docs/gas/>

Error Handling – Solidity

<https://docs.soliditylang.org/en/v0.5.0/control-structures.html#error-handling-assert-require-revert-and-exceptions>

 Hyperledger

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Udemy - blockchain developer

<https://www.udemy.com/course/blockchain-developer/>

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Expressions and Control Structures

<https://docs.soliditylang.org/en/v0.5.0/control-structures.html#error-handling-assert-require-revert-and-exceptions>

eBook - Hands-On Smart Contract Development with Solidity and Ethereum: From Fundamentals to Deployment

<https://www.amazon.ca/Hands-Contract-Development-Solidity-Ethereum/dp/1492045268/ref=asc_df_1492045268/?tag=googleshopc0c-20&linkCode=df0&hvadid=424874979496&hvpos=&hvnetw=g&hvrand=1593088668855607097&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000765&hvtargid=pla-649554449658&psc=1>

eBook - Mastering Ethereum: Building Smart Contracts and DApps

<https://www.amazon.ca/Mastering-Ethereum-Building-Smart-Contracts/dp/1491971940/ref=asc_df_1491971940/?tag=googleshopc0c-20&linkCode=df0&hvadid=292914274695&hvpos=&hvnetw=g&hvrand=1593088668855607097&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000765&hvtargid=pla-527470365068&psc=1>

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[DAPPCON 2018: Solidity Dapp Optimization Gonçalo Sá (ConsenSys Diligence)](https://www.youtube.com/watch?v=qwBkeJ84d2g)

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Under-optimized Smart Contracts

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[What Is Chainlink?](https://www.youtube.com/watch?v=tIUHQ7sDoaU)

Graphical user interface, application

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David Johnston CEO - Git hub

<https://github.com/DavidJohnstonCEO/DecentralizedApplications>

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<https://en.wikipedia.org/wiki/Quadriga_Fintech_Solutions>

Ethereum Stack Exchange

<https://ethereum.stackexchange.com/questions/19380/external-vs-public-best-practices>

Python OOP tutorial

[Python OOP Tutorial 1: Classes and Instances](https://www.youtube.com/watch?v=ZDa-Z5JzLYM&list=PL-osiE80TeTsqhIuOqKhwlXsIBIdSeYtc)

Graphical user interface, text, chat or text message

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OOP Full course for beginners

[Object Oriented Programming with Python - Full Course for Beginners](https://www.youtube.com/watch?v=Ej_02ICOIgs)

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<https://docs.openzeppelin.com/contracts/2.x/api/token/erc20>

Basics of OOP

<https://funtech.co.uk/latest/explain-object-oriented-programming-to-kids#:~:text=Object%2Doriented%20programming%20is%20based,that%20interact%20with%20one%20another>

Coding Bootcamp

<https://careernetwork.2u.com/events/coding-boot-camp-alumni-ama-ask-me-anything/>

EIP-20

<https://eips.ethereum.org/EIPS/eip-20>

ERC721

<https://ethereum.org/en/developers/docs/standards/tokens/erc-721/>

EIP

<https://eips.ethereum.org/>

Crowdsales

<https://docs.openzeppelin.com/contracts/2.x/crowdsales>

ERCMintable

<https://github.com/OpenZeppelin/openzeppelin-contracts/blob/release-v2.5.0/contracts/token/ERC20/ERC20Mintable.sol>

OpenZeppelin - Crowdsale

<https://github.com/OpenZeppelin/openzeppelin-contracts/blob/release-v2.5.0/contracts/crowdsale/Crowdsale.sol>

OpenZeppelin - Minted crowdsale

<https://github.com/OpenZeppelin/openzeppelin-contracts/blob/release-v2.5.0/contracts/crowdsale/emission/MintedCrowdsale.sol>

ICO Regulation - US

<https://www.sec.gov/ICO>

Minting your own ERC 20 coin

<https://levelup.gitconnected.com/minting-your-own-erc-20-tokens-in-ethereum-a477bd38c135>

Adventures in Crypto

<https://www.realvision.com/shows/raoul-pal-adventures-in-crypto/videos/the-world-according-to-punk-6529-mXg5>