**SLACK MISCELLANEOUS DISCUSSIONS: (GENERAL, RANDOM)**

* This was shared by my company Director (Machine Learning), thought of sharing this with everyone since we all are starting our journey with Python. It’s called “The Zen of Python”, written by Tim Peters (major contributor to python). These are the basic guiding principles for writing good programs in python. <https://www.python.org/dev/peps/pep-0020/> Explanation for all the above principles in the below article: <https://inventwithpython.com/blog/2018/08/17/the-zen-of-python-explained/>

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| * If someone is eager for more assignments in Python you can do some on your own. Hackerrank: <https://www.hackerrank.com/> is a good place to be and start practicing on interesting problems, <https://leetcode.com/> for the ones feeling more advanced. * For anyone who's curious about multiple inheritance <https://stackoverflow.com/questions/3277367/how-does-pythons-super-work-with-multiple-inheritance/3277407#3277407> provides more details  |  |  |  | | --- | --- | --- | | * and here’s a useful link to understand ClassName.attribute, public vs private attributes and how to delete an instance - <https://www.python-course.eu/python3_class_and_instance_attributes.php> * another helpful link on class-based inheritance : <https://medium.com/faun/class-based-inheritance-in-object-oriented-programming-9d388d44f089> * if anyone is keen to learn about custom-defined exceptions - <https://www.geeksforgeeks.org/user-defined-exceptions-python-examples/> and this explains it well too - <https://www.programiz.com/python-programming/user-defined-exception> * Complex numbers: <https://www.tutorialspoint.com/complex-numbers-in-python> * Try and except: <https://www.techbeamers.com/use-try-except-python/> * Why doesn’t index order matter in 2D array when used with colon: [https://stackoverflow.com/questions/28070526/why-doesnt-the-python-2d-array-index-order-matter-when-used-with-colon](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fstackoverflow.com%2Fquestions%2F28070526%2Fwhy-doesnt-the-python-2d-array-index-order-matter-when-used-with-colon&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556104934%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2FFeruZYoJgCXzDpFbUeSm5ZXsEWzKBtaqpj6j9R1Gb8%3D&reserved=0) * Geogebra Eigen Vector: [https://www.geogebra.org/m/JP2XZpzV#:~:text=Eigenvalue%2DEigenvector%20Visualization%3A%20Move%20the,restricted%20to%20have%20unit%20length](https://eur03.safelinks.protection.outlook.com/?url=https:%2F%2Fwww.geogebra.org%2Fm%2FJP2XZpzV%23:~:text%3DEigenvalue-Eigenvector%2520Visualization:%2520Move%2520the%2Crestricted%2520to%2520have%2520unit%2520length&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556114929%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=aXdwEQdFN8UVieQDiSmGZSHNXpPcU%2Fz2hqKVpPBITWY%3D&reserved=0) * Eigen values in music: [https://www.sciencedirect.com/science/article/pii/S0377042700005604](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS0377042700005604&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556124924%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=r5VuNwa7mxmq17b9WLy4EIKwfOZfPMjKtRz0UXxBhr0%3D&reserved=0) * LaTex and jupyter notebook: [https://towardsdatascience.com/write-markdown-latex-in-the-jupyter-notebook-10985edb91fd](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Ftowardsdatascience.com%2Fwrite-markdown-latex-in-the-jupyter-notebook-10985edb91fd&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556124924%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=oeJIKak0JCe%2BVj9xbOFc0Tw7X6jzlIsc%2F7HNQXOFO%2FA%3D&reserved=0) * LaTex references: <https://towardsdatascience.com/springer-has-released-65-machine-learning-and-data-books-for-free-961f8181f189> * Slicing matrices: [https://www.pythoninformer.com/python-libraries/numpy/index-and-slice/](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.pythoninformer.com%2Fpython-libraries%2Fnumpy%2Findex-and-slice%2F&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556134916%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2F4ZcMHDNq2UJH6v05wZi8A5rcStgwA7ShfXVCydyzHQ%3D&reserved=0) * Essence of linear algebra: [https://www.youtube.com/playlist?list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE\_ab&app=desktop](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fplaylist%3Flist%3DPLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab%26app%3Ddesktop&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556144914%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=RyePGY3g%2FH6%2FjlJ2xFV7M8eVzTo0DY1O5bb8qFtQLDk%3D&reserved=0) * PCA: [http://civil.iisc.ernet.in/~nagesh/rs\_docs/PCA\_LN.pdf](https://eur03.safelinks.protection.outlook.com/?url=http:%2F%2Fcivil.iisc.ernet.in%2F~nagesh%2Frs_docs%2FPCA_LN.pdf&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556134916%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=gZYULTOFDsgYGI3A3U2Hom6Pny8x4pnJTppoRaPQsAE%3D&reserved=0) * SVD: [https://machinelearningmastery.com/singular-value-decomposition-for-machine-learning/](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmachinelearningmastery.com%2Fsingular-value-decomposition-for-machine-learning%2F&data=04%7C01%7Cjyotsnagokuldas.shenoy%40in.bosch.com%7C6d6928a9722f4814722708d88b80f283%7C0ae51e1907c84e4bbb6d648ee58410f4%7C0%7C0%7C637412734556144914%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=n4mrjPbbPxEvnLafNkmf7xN6wzAUImnnfHw9Z%2FnlmSk%3D&reserved=0)  |  | | --- | |  | |  | | |  | |
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