***Python Quick Study Guide***

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| Sr. No. | Topic | Resource |
| 0 | Python crash course | [Link](https://www.youtube.com/watch?v=VchuKL44s6E) |
| LEV | Beginner |  |
| 1 | Object Oriented Principles | [Link](https://www.youtube.com/watch?v=6soT3DMBJGQ&pp=ygUPT09PUFMgaW4gcHl0aG9u) |
| 2 | Interpreted vs Compiled language | [Link](https://www.youtube.com/watch?v=F64_bwahaWQ&pp=ygUXaW50ZXJwcmV0ZXIgdnMgY29tcGlsZXI%3D) |
| 3 | What is Lambda function in Python | [Link](https://www.youtube.com/watch?v=UfFWf-PXUqE&pp=ygUWbGFtYmRhIGZ1bmN0aW9uIHB5dGhvbg%3D%3D) |
| 4 | Packages in python | [Link](https://www.youtube.com/watch?v=5KEObONUkik&t=1s&pp=ygUPcHl0aG9uIHBhY2thZ2Vz) |
| 5 | Python Modules | [Link](https://www.youtube.com/watch?v=XcfxkHrHTVE&pp=ygUOcHl0aG9uIG1vZHVsZXM%3D) |
| 6 | Python Lists | [Link](https://www.youtube.com/watch?v=0yySumZTxJ0&pp=ygUccHl0aG9uIGxpc3QgYW5kIGxpc3QgbWV0aG9kcw%3D%3D) |
| 7 | Python Dictionary | [Link](https://www.youtube.com/watch?v=DHQWUXeEvow&pp=ygUTcHl0aG9uIGRpY3Rpb25hcmllcw%3D%3D) |
| 8 | Python Sets | [Link](https://www.youtube.com/watch?v=r3R3h5ly_8g&pp=ygULcHl0aG9uIHNldHM%3D) |
| LEV | Advanced |  |
| 1 | What are python namespaces? | [Link](https://www.youtube.com/watch?v=uAi6ZzsWN0k&pp=ygURcHl0aG9uIG5hbWVzcGF2ZXM%3D) |
| 2 | What is Passing arguments by Object Reference? | [Link](https://www.geeksforgeeks.org/pass-by-reference-vs-value-in-python/#:~:text=Python's%20argument%2Dpassing%20model%20is,show%20%E2%80%9Cpass%20by%20reference%E2%80%9D.) |
| 3 | What is pickling and unpickling? | [Link](https://www.youtube.com/watch?v=KaurZiP0mhU&pp=ygUPcHl0aG9uIHBpY2tsaW5n) |
| 4 | Different access modifiers | [Link](https://www.youtube.com/watch?v=43FK20rWvKQ&pp=ygUXcHl0aG9uIGFjY2VzcyBzcGVjaWZpZXI%3D) |
| 5 | What is shallow copy vs deep copy? | [Link](https://www.youtube.com/watch?v=naG4uXpmVAU&pp=ygUgcHl0aG9uIHNoYWxsb3cgY29weSB2cyBkZWVwIGNvcHk%3D) |
| 6 | How is multi-threading achieved in python? | [Link](https://www.youtube.com/watch?v=pZq3trxavlk&pp=ygUoaG93IGlzIG11bHRpdGhyZWFkaW5nIGFjaGlldmVkIGluIHB5dGhvbg%3D%3D) |
| 7 | How is memory managed in Python | [Link](https://www.youtube.com/watch?v=YuT_t21EXkc&pp=ygUfaG93IGlzIG1lbW9yeSBtYW5hZ2VkIGluIHB5dGhvbg%3D%3D) |
| 8 | Garbage collection in Python | [Link](https://www.youtube.com/watch?v=CaHIm5LZJt8&pp=ygUZZ2FyYmFnZSBjb2xsZWN0aW9uIHB5dGhvbg%3D%3D) |