**Python Beginner Tutorial Resources**

| Programming & Python Introduction | **What is Programming? | Intro to JS: Drawing & Animation | Computer programming | Khan Academy**  <https://www.youtube.com/watch?v=FCMxA3m_Imc>  **→ Learning Duration: 2 minutes**  This short video from Khan Academy provides a good introduction to programming. |
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| **Coding is Not Difficult - Bill Gates**  <https://www.youtube.com/watch?v=hb7Q33ysCwI>  **→ Learning Duration: 7 minutes**  Listen to what famous people in the tech field say about programming!! |
| **Introduction to Programming**  <https://www.youtube.com/watch?v=lJnvq0A_7WQ>  **→ Learning Duration: 30 minutes**  This video by Youtuber “Eli the Computer Guy” explains the concept of programming and the many categorizations within it. It is suitable for people trying to understand the purpose of programming. |
| **(Fun) Intro to Programming: Concepts**  <https://www.youtube.com/watch?v=xbFoZhC_wdY>  **→ Learning Duration: 10 minutes**  This video by Youtuber Edwin Finch offers a fun way to learn about the basic concepts of programming. There is **no coding** in this video, just the concepts behind coding. |
| Python Tutorials  Choose **one** tutorial that you are most comfortable with! | **Learn Python - Full Course for Beginners**  <https://www.youtube.com/watch?v=rfscVS0vtbw>  **→ Learning Duration: 4 hours**  This Python tutorial by “freeCodeCamp.org” is excellent for beginners to python programming. The content is divided by timestamps for the ease of navigation. Since Object Oriented Programming (classes, inheritance, etc.) is too challenging for beginners, we **recommend you to stop** at the Classes & Objects timestamp (3:43:56).  **\*** This tutorial only covers the installation of Python on Mac, if you want to use **Python on Windows or Linux**, refer to the first video in the playlist below ↓ |
| **Python Tutorial (Only watch first 10 videos)**  <https://www.youtube.com/playlist?list=PL-osiE80TeTt2d9bfVyTiXJA-UTHn6WwU>  **→ Learning Duration: 3 hours (first 10 videos)**   * + This comprehensive tutorial by Youtuber “Corey Schafer” offers in-depth lessons on the basics of Python. We recommend you only watch the first 10 videos that focus on Python Basics. |
| Basic A.I, Neural Network in Python | **Creating a Simple Neural Network in Python**  [**https://www.youtube.com/watch?v=kft1AJ9WVDk&list=PLo8mKX\_OKizdzICylW\_c83LGIfqx8tPzi&index=2**](https://www.youtube.com/watch?v=kft1AJ9WVDk&list=PLo8mKX_OKizdzICylW_c83LGIfqx8tPzi&index=2)  **→ Learning Duration: 3 hours (first 10 videos)**   * + This short tutorial by “Polycode” teaches viewers how to create a very simple neural network with a few lines of python code and only requires some mathematical and conceptual understanding. |