

Online Programming Courses

The following resources are free. And if you are a visual learner, the resources on this page will help you get up to speed quickly with Java and Python.

Udacity provides hundreds of high-quality online courses on various technical topics, from programming in various languages to AI and Machine Learning. Unfortunately, Udacity is expensive. (Like, insanely expensive.) However, they offer many courses for free, with introductions to both Java and Python both available. You can find a list of all their free courses [here](https://www.udacity.com/catalog/all/free/any-school/any-skill/any-difficulty/any-duration/any-type/most-popular/page-1?price=Free&sort=highest+rated) (<https://www.udacity.com/catalog/all/free/any-school/any-skill/any-difficulty/any-duration/any-type/most-popular/page-1?price=Free&sort=highest+rated>).

- [Introduction to Python Programming](https://www.udacity.com/course/introduction-to-python--ud1110) (<https://www.udacity.com/course/introduction-to-python--ud1110>): This is an excellent introduction to **Python**.
- [Intro to Java: Functional Programming](https://www.udacity.com/course/java-programming-basics--ud282) (<https://www.udacity.com/course/java-programming-basics--ud282>): This is an excellent introduction to the basics of **Java**.
- [Object Oriented Programming in Java](https://www.udacity.com/course/object-oriented-programming-in-java--ud283) (<https://www.udacity.com/course/object-oriented-programming-in-java--ud283>): This course provides more detail about **Java**'s object-oriented capabilities.

Mosh Hamedani via YouTube provides several introductory programming courses in various languages:

- [Java Full Course for Beginners](https://youtu.be/e1rMbAQSU34?si=zzbxMXIkYqAugsJ) (<https://youtu.be/e1rMbAQSU34?si=zzbxMXIkYqAugsJ>): This video provides about 2 1/2 hours of introductory content for the **Java** programming language.
- [Python for Beginners with Mosh Hamedani](https://youtu.be/kqtD5dpn9C8?si=z1NGNdMj4rRYf28m) (<https://youtu.be/kqtD5dpn9C8?si=z1NGNdMj4rRYf28m>): This video provides an introduction to the **Python** programming language in about one hour.
- [Python Full Course for Beginners \[2025\]](https://youtu.be/K5KVEU3aaeQ?si=vxF_QpsY3ES8bpX3) (https://youtu.be/K5KVEU3aaeQ?si=vxF_QpsY3ES8bpX3): This video provides a kickstart to **Python** with about 2 hours of content.
- [Python Tutorial - Python Full Course for Beginners with Mosh Hamedani](https://youtu.be/_uQrJ0TkZlc?si=cA9fqbf9fR9Lse3P) (https://youtu.be/_uQrJ0TkZlc?si=cA9fqbf9fR9Lse3P): This video provides six hours of **Python** content and includes three programming projects.

Miscellaneous:

- [Microsoft Python for Beginners Video Library](https://learn.microsoft.com/en-us/shows/intro-to-python-development/?wt.mc_id=python-c9-niner) (https://learn.microsoft.com/en-us/shows/intro-to-python-development/?wt.mc_id=python-c9-niner). This library of short videos will help you get up to speed quickly with essential **Python** concepts.