

Python vs. JavaScript

GoSkills online course syllabus

Skill level

Beginner

Lessons

21

Accredited by

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Pre-requisites

No prior experience needed

Video duration

33m

Estimated study time

33m 55s

Instructor

Julie Nisbet

Introduction

1 Python vs. JavaScript

Powerful programming languages

2 What is a programming language?
There are many different characteristics of languages, including different levels.

3 Different programming paradigms
There are several types of programming, such as object oriented programming and functional.

4 A short history of Python
Python is an important language in today's world, but it's also been important for a long time.

5 A short history of JavaScript
JavaScript has been around for a long time, and it's role in programming has been important for many years.

6 Common Python applications
There are many fascinating applications of how Python can be used in the programming world.

7 Common JavaScript applications
JavaScript is applicable to use in many scenarios, though there are some instances where it is more common to use it than in others.

Evaluating which language to use

8 Key considerations

There are several factors that might influence which programming language you should use aside from the goal of the task.

9 JavaScript programs – browser vs. Node

Javascript used to be only for the browser -- with the creation of Node, Javascript developers were able to write programs to be run on servers.

10 Python programs – Anaconda vs. CPython

There are many different "distributions" of Python, and as a beginner it can be challenging to decide how to run your Python programs.

Key differences

11 Basic Syntax: Hello World in Python vs. JavaScript

The syntax used in Python and JavaScript is fairly similar, though there are a few key differences.

12 Data types and variables: Python vs. JavaScript

There are a few key differences between the types of data processed in Python vs.

13 Code blocks: Python vs. JavaScript

Code blocks are defined differently in various programming languages.

14 Functions: Python vs. JavaScript

Both Python and JavaScript allow you to organize your code using functions however there are key differences between the ways the languages implement these concepts.

Use cases

15 Common use cases

Both Python and JavaScript have certain situations where they are the best programming language to use.

16 Backend development: JavaScript vs. Python

When working as a backend developer, there are different scenarios where you may find one programming language to be more effective than another.

17 Frontend development: JavaScript vs. Python

Frontend developers have different goals and milestones to hit, and the right programming language can make this much easier.

18 Data science - JavaScript vs. Python

Data scientists have many different projects and tasks they balance, each with their own requirements that can influence the right programming approach.

19 Career opportunities in JavaScript

There are many different career opportunities within the world of JavaScript.

20 Career opportunities in Python

Python can be a great skill to generate new career opportunities for programmers or aspiring programming professionals.

Moving Forward

21 What to do next?

Thanks for watching this course!

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