# Frequently Asked Questions about Python Programming

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# 1 Introduction

This document provides answers to frequently asked questions about the Python programming language, a versatile and widely-used language for various applications.

# 2 FAQs

## 2.1 What is Python?

Python is a high-level, interpreted programming language known for its readability and simplicity. It supports multiple programming paradigms, including object-oriented, functional, and procedural programming.

## 2.2 What are Python's main uses?

Python is used in web development (e.g., Django, Flask), data science (e.g., Pandas, NumPy), automation, artificial intelligence, machine learning, and scripting.

## 2.3 How do I install Python?

Download the latest version from python.org. Follow the installer instructions for your operating system (Windows, macOS, or Linux). Ensure you add Python to your system's PATH during installation.

## 2.4 What is the difference between Python 2 and Python 3?

Python 2 is a legacy version, no longer supported since January 2020. Python 3 is the current version, with improvements like better Unicode support, print function syntax, and enhanced libraries. Always use Python 3 for new projects.

## 2.5 How can I manage Python packages?

Use `pip`, Python's package manager. For example, to install a package, run `pip install package_name`. Virtual environments (e.g., `venv` or `virtualenv`) help manage dependencies for different projects.