Introduction: Dart

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What is dart:

Dart is a programming language developed by Google. It is designed for building cross-platform mobile, web, and server applications. Dart was first announced by Google in 2011 and has since undergone several updates and improvements.

Here are some key features and use cases of Dart:

* 1. Cross-Platform Development: Dart can be used for building applications that run on various platforms, including web browsers, mobile devices (iOS and Android), and servers. Flutter, a UI toolkit also developed by Google, uses Dart for building natively compiled applications for mobile, web, and desktop from a single codebase.

* 1. Object-Oriented: Dart is an object-oriented language, which means it supports principles like encapsulation, inheritance, and polymorphism.

* 1. Strongly Typed: Dart is a statically-typed language, which means that variable types are declared at compile time. This helps catch errors early in the development process.

* 1. Garbage Collection: Dart features automatic garbage collection, which manages memory allocation and deallocation, making it easier for developers to focus on writing code without explicitly managing memory.

* 1. Asynchronous Programming: Dart has built-in support for asynchronous programming, making it suitable for developing applications that require handling multiple tasks concurrently.

* 1. Is single Threaded just like java script
  2. Community and Ecosystem: Dart is particularly well-known for its use in Flutter, a popular framework for building natively compiled applications. Flutter uses Dart to create expressive and flexible user interfaces for a wide range of platforms.

dart Installation windows:



















