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GO Lang

Developed by Google in 2007 and open-Sourced in 2009,
bio is a Statically typed, Compiled programming language.
9t is popular for cloud-based or server-side applications.

Why 602

4 Evolution of Infrastructure

> Cloud infrasture changed a lot

1> multi-Cone processons became Common

Big networked Computational clusters

> Scalable and distributed

4 dynamic and more Capacity

Existing languages did not take dull advantage of it,

like you (orld not do multiple tasks at once

Ex > watching youtube while also Commenting

and liking other Comments:

This is the concept of multi-threading (doing multiple things at once), it makes applications just but can also cause problems.

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> Challenges of multi-threading

Some time:

> two users trying to book the last ticket

1

This should work in a way that there are no double bookings.

9t is handeled by developers in code using (oncurrency.

> Concurrency

> Exerction of multiple instruction sequences at once

Languages Such as 60, Java and C++ has inbuitt

In concurrency, code can become very complex, Expensive

make Concurrency Cheap and easy.

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_	Main use case of GO
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	Auning on scaled and distributed systems.
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	Simple and neadable syntax
	highly efficient
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	micho Services
	→ Database services
	b c in in applications
	-> Compiled Language - Compiles into a single binary
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