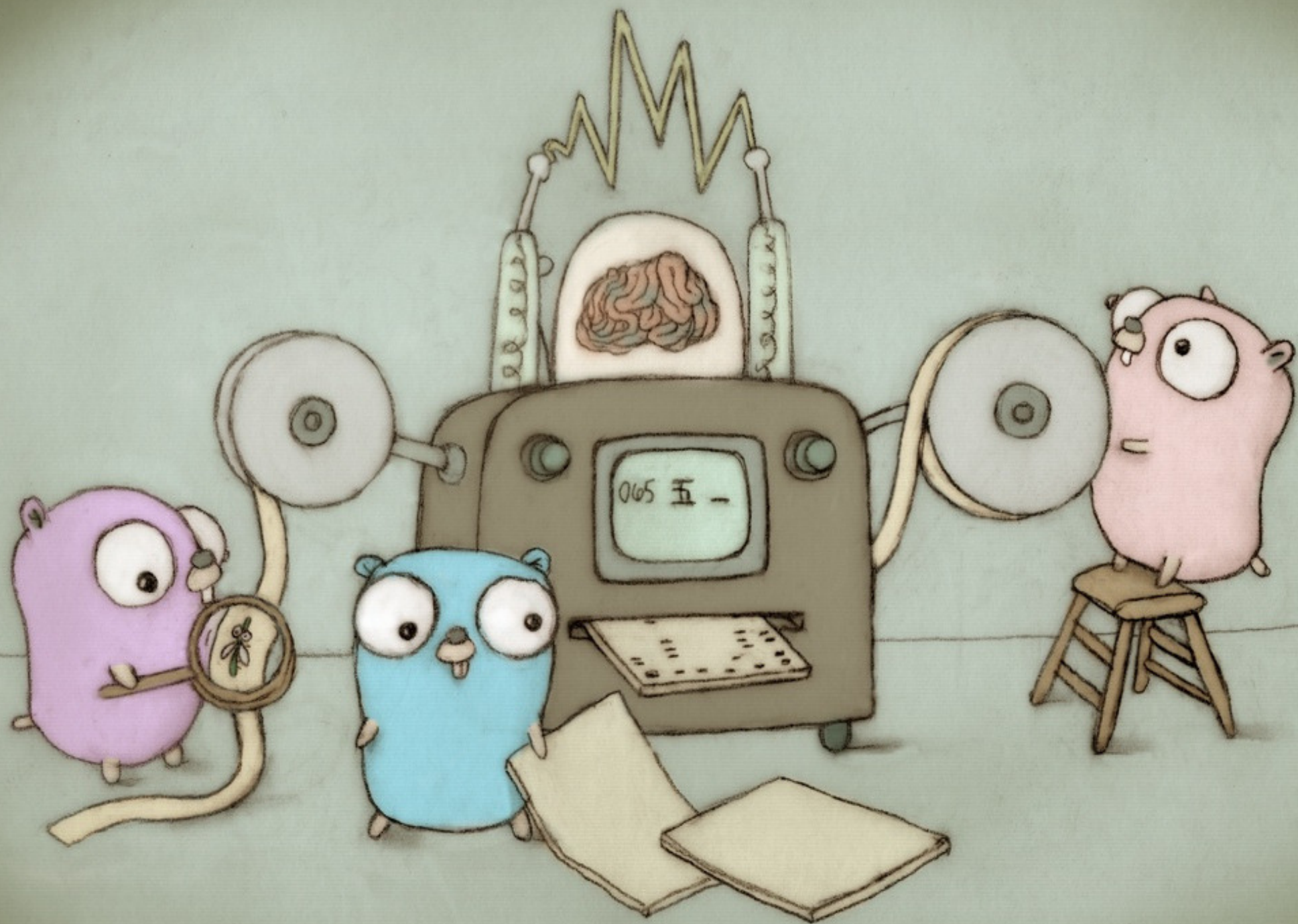


Get Set GO



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Used By?

Docker

CoreOS

Kubernetes (Google)

InfluxDB

GoLang

It's a fast, statically typed, compiled language that feels like a dynamically typed, interpreted language.

GoLang Features

Open Source

Language Design

Powerful Standard Library

Concurrency

Concurrency

It is the composition of independently executing units.

It is a way to structure code.

It is not parallelism.

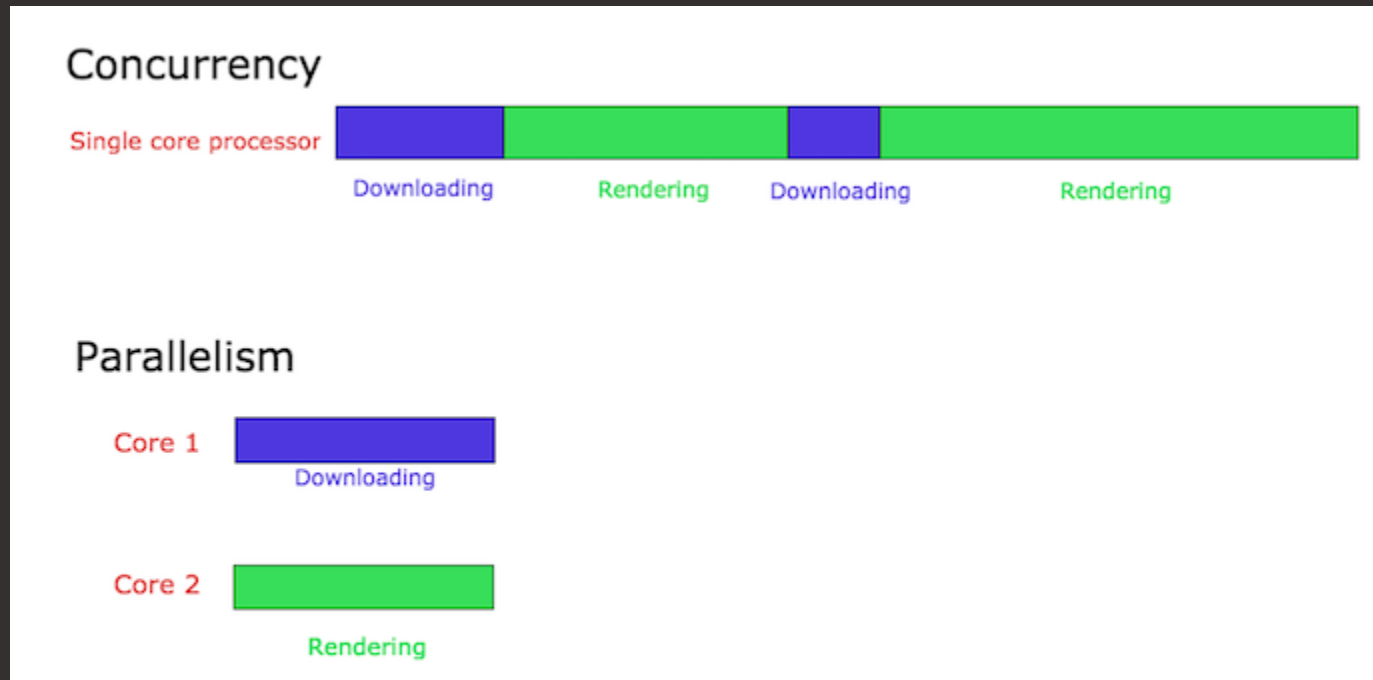
Concurrency vs Parallelism

Concurrency is about dealing with lots of things at once.

Parallelism is about doing lots of things at once.

Parallelism

Parallelism will not always result in faster execution times.



Why we need Concurrency?

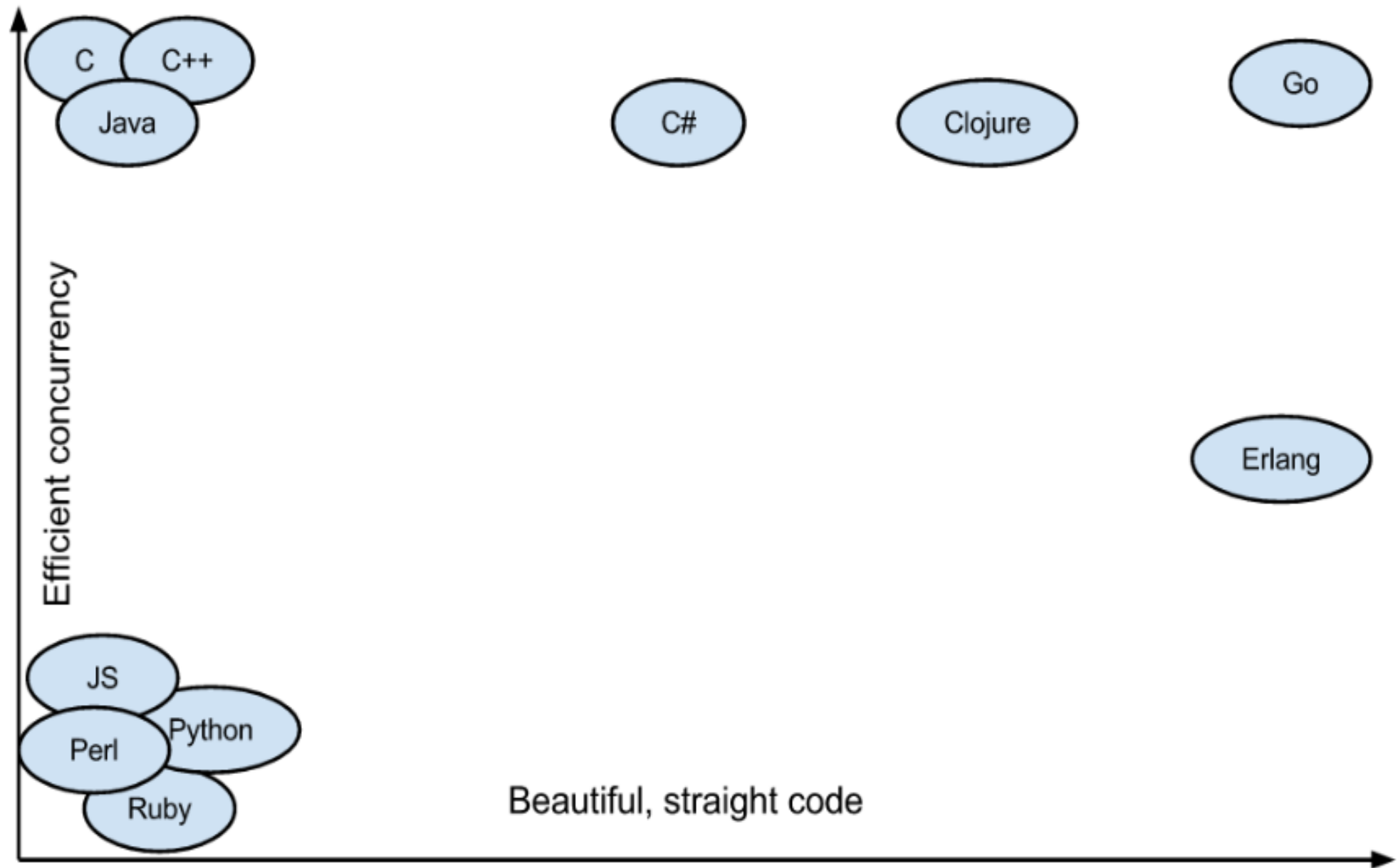


We cannot add more and more cache to the processor to increase performance as cache have physical limits: the bigger the cache, the slower it gets.

Go Routines

A goroutine is a lightweight thread managed by the Go runtime.

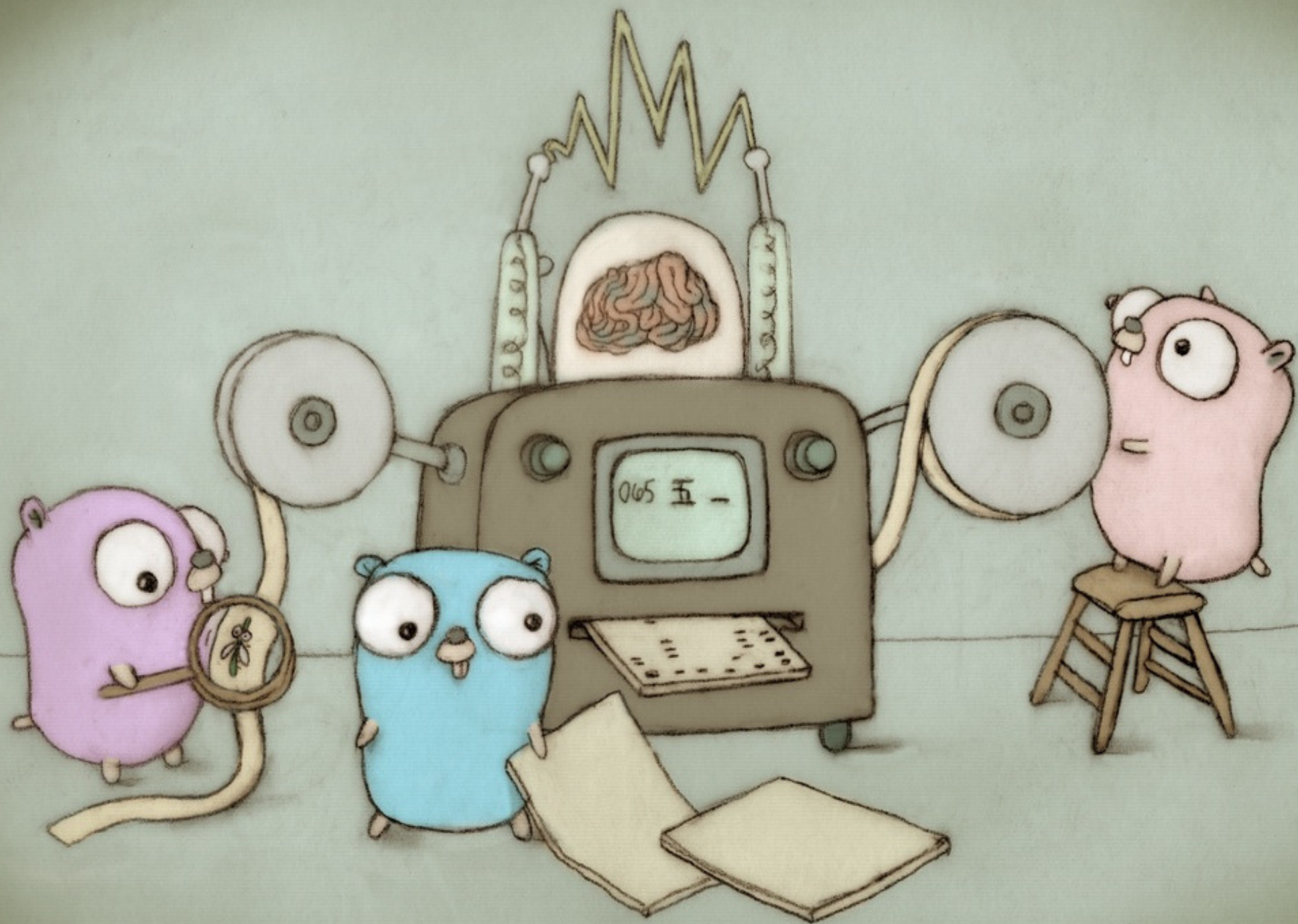
The Goroutines are multiplexed to a fewer number of OS threads.



Channels

Channels can be thought of as pipes using which Goroutines communicate.

Channels provides synchronization and avoids race conditions.





THANK YOU



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