GoLang: How we use it at Reddiyo

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AGENDA

- Quick Overview

- Quick Examples

  - Lack of OO Patterns

  - Async GoRoutines

  - Error Handling

- Q&A

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What is GoLang

GoLang is...

- Mulit-paradigm

- Statically Typed - strong type safety

- Similar to C

- Modern

- Open Source

GoLang is...

Minimalist Language

- Simple

- Easy to extend

- Opinionated

GoLang is...

Lightweight

- Fast Runtime Speed - benchm
- Small
- Fast Compilation Time
- Deploys as a single binary

n-body					
source	secs	mem	gz	busy	cpu load
Go	**6.34**	1,792	1200	6.44	1% 100% 0% 0%
Python 3	545.25	8,160	1196	558.88	1% 1% 1% 100%

spectral-norm					
source	secs	mem	gz	busy	cpu load
Go	**1.43**	2,668	548	5.70	99% 99% 99% 100%
Python 3	116.23	50,080	407	463.55	100% 100% 100% 100%

mandelbrot					
source	secs	mem	gz	busy	cpu load
Go	**3.73**	28,764	905	14.88	100% 99% 99% 100%
Python 3	170.25	47,568	688	680.12	100% 100% 100% 100%

It isn't all perfect

- Minimalistic Language Has Impacts

- Lack of Frameworks (e.g. Django, Rails, Spring)

- Error Handling

- Not the fastest to get started with

- Requires strong patterns and anti-patterns

Show it in action

- Async Concurrent GoRoutines

- Lack of OO Patterns and Impacts

- Error handling

Extra Credit

- GRPC vs HTTP
- Docker Containers
- GoDocs

Thank you!

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https://github.com/mornindew/sledgeconf2021