

Go from scratch: Beginners-Friendly Guide

by Denis Shchuka

INTRODUCTION



Course overview

- Welcome
- Who is this Course for?
- What you will learn
- Exercises and Projects
- How to access course materials
- Summary

<https://github.com/DenisShchuka/GoFromScratchCourse>



Go from scratch: Beginners-Friendly Guide

by Denis Shchuka

Why Go?



Why Go?

Creators of Go



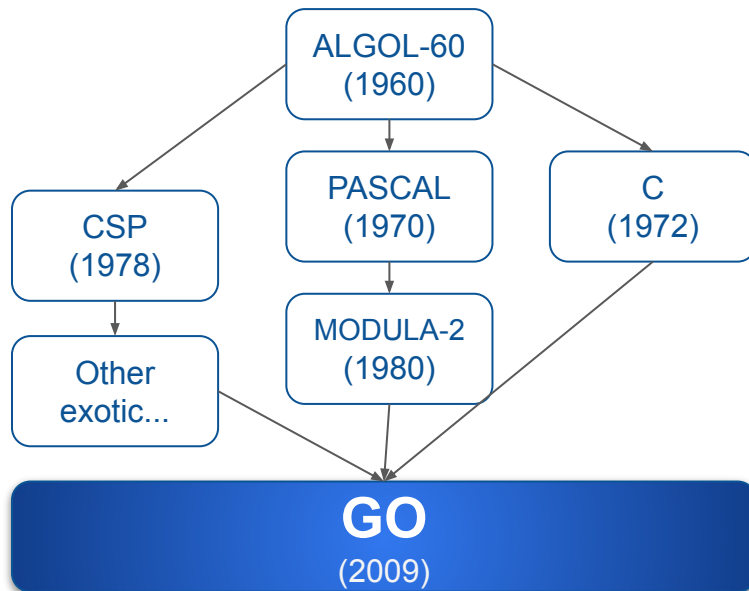
Rob C. Pike

Ken Thompson

Robert
Griesemer

First appeared - Nov, 2009

Ancestors



Why Go?

Problems

- Overengineering and steep learning curve for some languages
- Large codebases and slow compilation
- Uncontrolled dependencies
- Wide spreading of multi-core machines and calculation and complexity of working with parallel tasks
- Decreasing developers productivity in large projects (bad readability of code, bad documentation, etc.)
- High cost of change
- Slow speed of execution



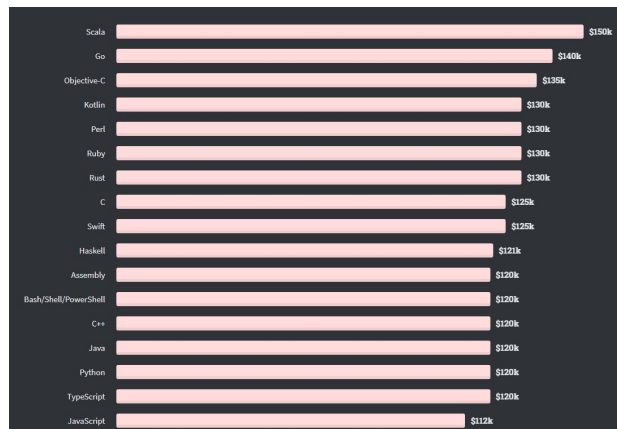
Why Go?

- Easy to start - shallow learning curve. You can start write real applications in few days literally.
- Go encourages writing of simple and clean code that is easy to maintain and develop.
- Go is Fast. By design. Compilation, execution and writing of code take fewer time in comparison with many competitors.
- Native support for concurrency and parallelism
- Perfect for network application and cloud computing

One more thing...

- **Large and growing demand for Go developers**
- **Very attractive salaries**
- **Working with cutting-edge technologies, interesting and challenging tasks**

Benefits of using Go



Top Paying Technologies

Source: Stackoverflow Survey, 2020



Go from scratch: Beginners-Friendly Guide

by Denis Shchuka

What can you do with Go?



What can you do with Go?

Go is a **general-purpose** programming language - you can do almost anything with it!

- Web-applications
- Console applications
- Network services
- Games
- etc.

BUT...

Go is more suitable for:

- High-load applications
- Network services
- Real-time data processing
- Infrastructure tools
- Web services

Applications written in Go



Cockroach DB



<https://github.com/topics/go>

Companies using Go



Go from scratch: Beginners-Friendly Guide

by Denis Shchuka

How to Get Help & Valuable Resources



How to Get Help & Valuable Resources

Try & Learn

<https://golang.org/doc/>

<https://github.com/avelino/awesome-go>

<https://play.golang.org/>

<https://gobyexample.com/>

- official documentation
- awesome list of **Go** libraries and tools
- **Go** Playground. Run and test your ideas online
- annotated code samples

Ask for Help

<https://www.reddit.com/r/golang/>

<https://stackoverflow.com/questions/tagged/go>

- Reddit **Golang** community
- Go Q&A at Stackoverflow

