INTRODUCTION TO

WHEN WAS GO CREATED?

Go was created by Google in 2009

WHY GO?

Fast Compilation

Built-in Concurrency Support

Modern Garbage Collection

Simple and Clean Syntax

Strong Standard Library

INSTALLATION

Download and install

Download and install Go quickly with the steps described here.

For other content on installing, you might be interested in:

- Managing Go installations -- How to install multiple versions and uninstall.
- Installing Go from source -- How to check out the sources, build them on your own machine, and run them.

Download (1.23.5)

Go installation

Select the tab for your computer's operating system below, then follow its installation instructions.

Linux | Mac | Windows

1. Open the package file you downloaded and follow the prompts to install Go.

   The package installs the Go distribution to /usr/local/go. The package should put the /usr/local/go/bin directory in your PATH environment variable. You may need to restart any open Terminal sessions for the change to take effect.

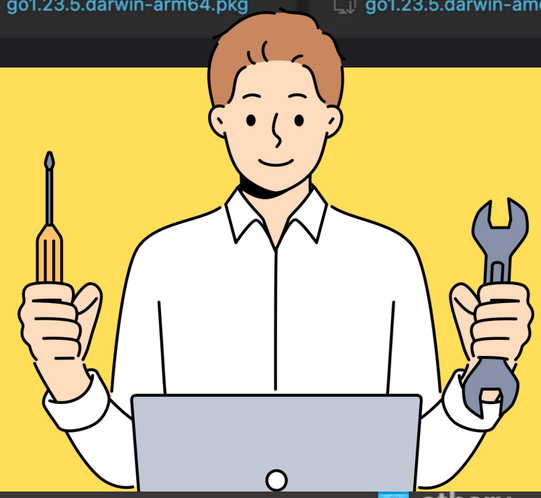
2. Verify that you've installed Go by opening a command prompt and typing the following command:

```
$ go version
```

3. Confirm that the command prints the installed version of Go.

Featured downloads

Microsoft Windows	Apple macOS (ARM64)	Apple macOS (x86-64)
Windows 10 or later, Intel 64-bit processor	macOS 11 or later, Apple 64-bit processor	macOS 11 or later, Intel 64-bit processor
go1.23.5.windows-amd64.msi	go1.23.5.darwin-arm64.pkg	go1.23.5.darwin-amd64.pkg



atharv — -zsh — 8

```
atharv@Atharvs-MacBook-Air ~ % go version
go version go1.23.1 darwin/arm64
atharv@Atharvs-MacBook-Air ~ %
```

DEVELOPMENT TOOLS

Visual Studio Code

playground

FIRST GO PROGRAM

main.go > ...

```go
package main

import (
    "fmt"
)

func main() {
    fmt.Println("Hello, Gophers!!")
}
```

QUIZ

WHAT IS THE PURPOSE OF THE PACKAGE MAIN DECLARATION IN GO?

A) IT DEFINES THE TYPE OF THE PROGRAM

B) IT SPECIFIES THAT THE PROGRAM WILL RUN STARTING FROM THIS PACKAGE

C) IT IMPORTS EXTERNAL LIBRARIES

D) IT CREATES VARIABLES USED IN THE PROGRAM

WHAT WILL HAPPEN IF WE TRY TO RUN FMT.PRINTLN("HELLO!") WITHOUT IMPORTING THE FMT PACKAGE?

A) THE PROGRAM WILL RUN NORMALLY

B) IT WILL THROW AN ERROR SAYING THE FUNCTION FMT.PRINTLN IS NOT DEFINED

C) IT WILL PRINT A BLANK LINE

D) THE PROGRAM WILL RUN, BUT WITHOUT DISPLAYING ANYTHING

THANK YOU