

Go Fundamentals

Getting Up and Running



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Version Check



This version was created by using:

- Go 1.19



Version Check



This course is 100% applicable to:

- Go 1.19+



Introduction



Course purpose and intentions

Setting up a development environment

Creating your first Go program

Course plan



Target Audience

I

Novice

New to programming

II

Entry-level

Basic programming understanding but little experience

III

Practitioner

Substantial programming experience; can execute most tasks without help

IV

Advanced

“Senior” or “lead” level programmer; highly self-sufficient

V

Expert

Very senior programmer



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Prerequisites

**Basic programming
experience**

Go: The Big Picture
optional



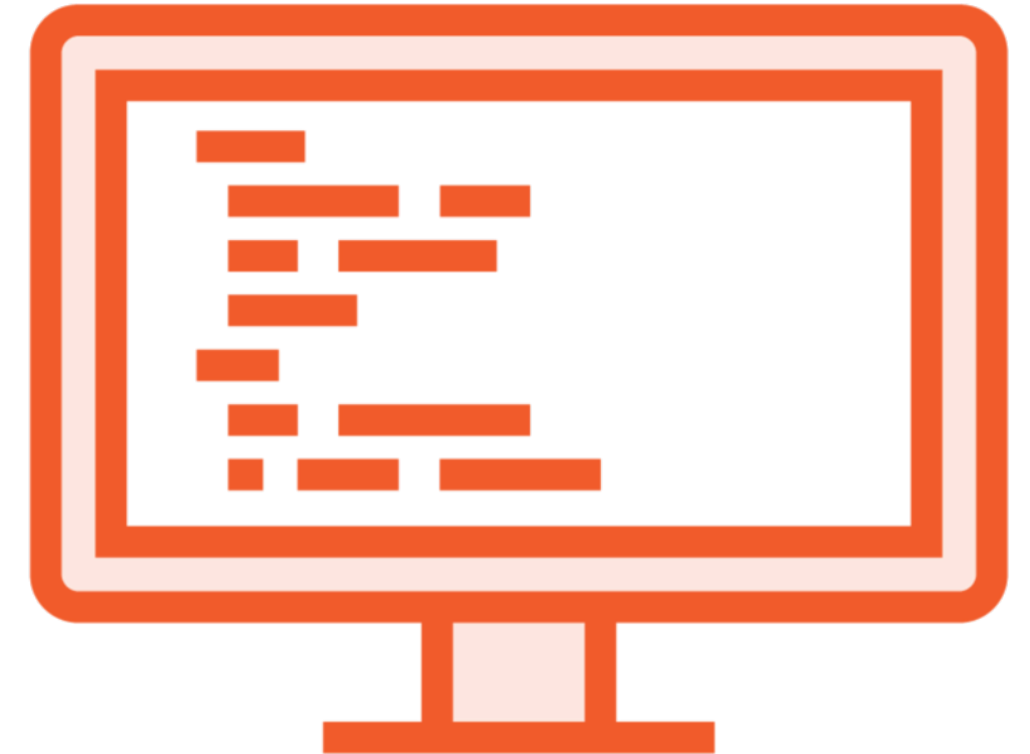
Format



Review concept

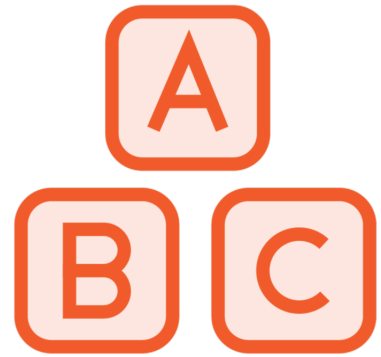


Application to Go

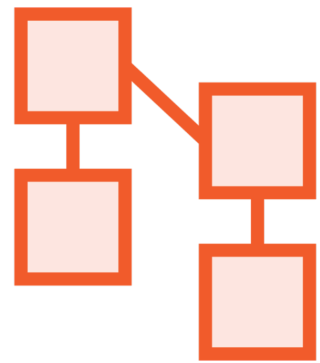


Demonstration

Expected Outcomes



Understand most language concepts



Familiar with Go's code organization structures



Introduced to concurrency mechanism



Up and Running



Install Go toolchain



Setup a code editor



Create our first program



Common Tools

Build

Profile

Test

Dependencies

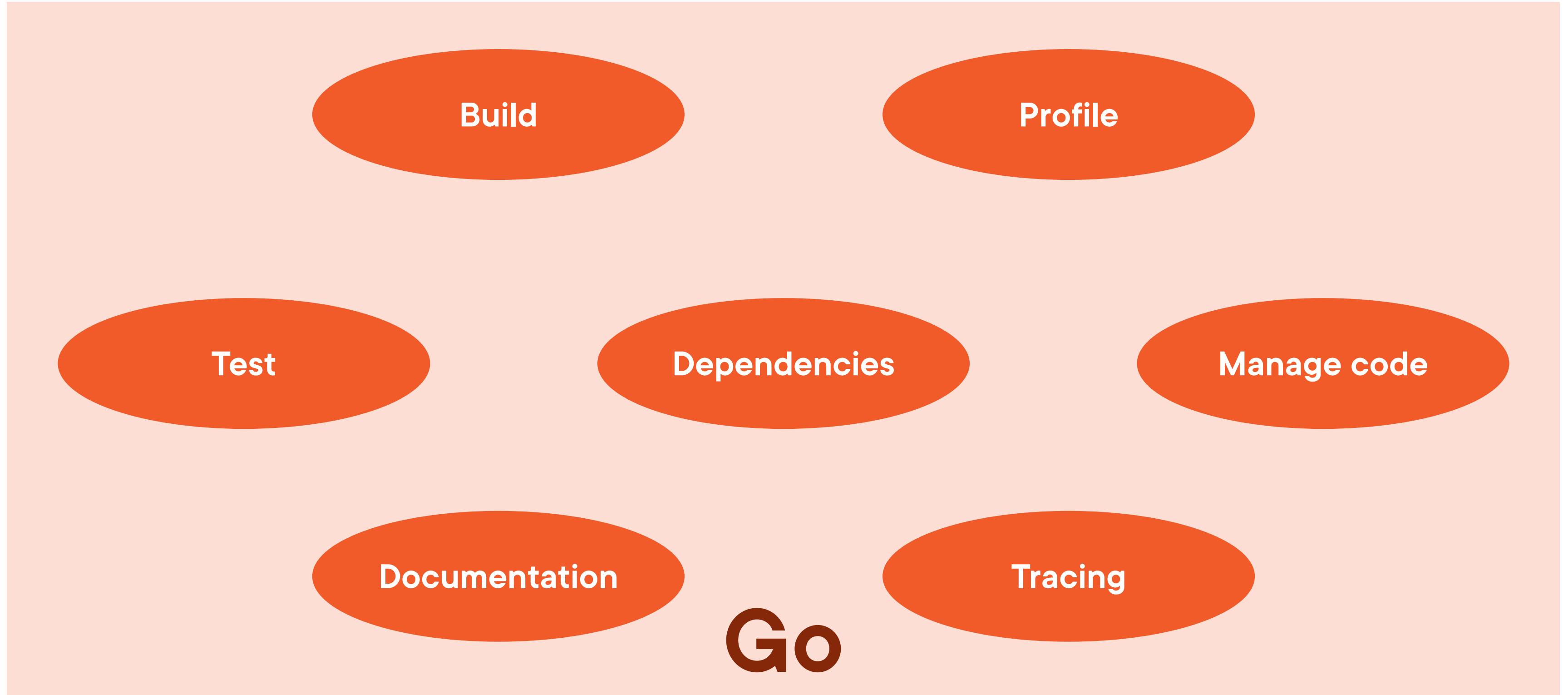
Manage code

Documentation

Tracing



Go Toolchain



Demo



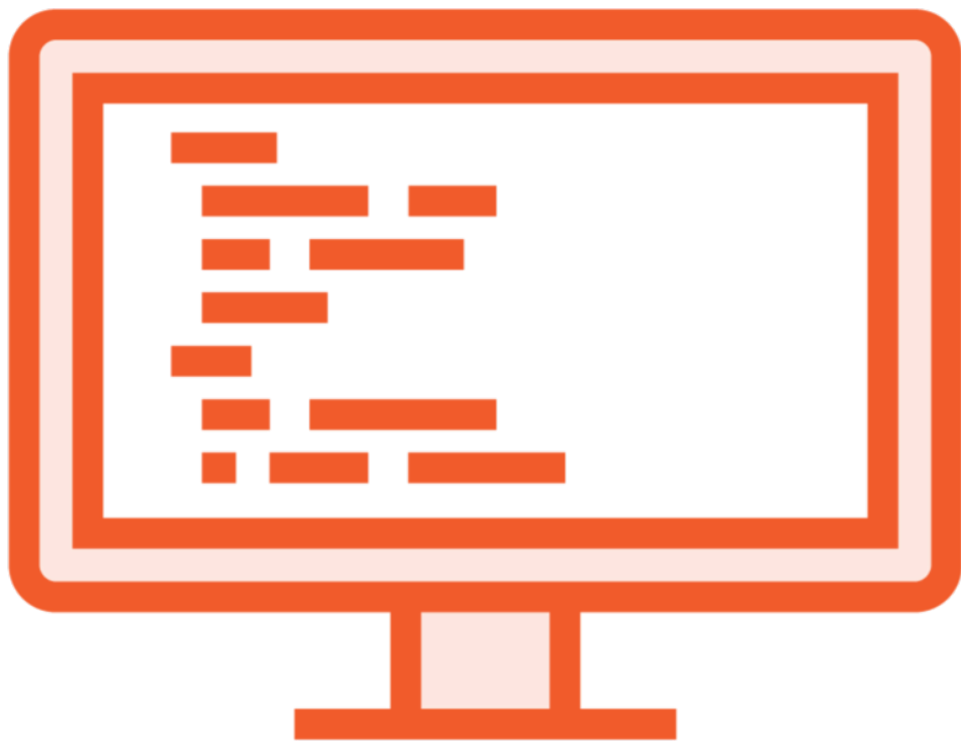
Install Go toolchain



Editor Setup



Editor Setup



Visual Studio Code

Extension

Libraries



Demo



Install VS Code

- and configure plugin



Demo



Hello, World program



Course Plan

**Variables and data
types**

**Creating and
debugging**

Control flow

**Code organization
and error
management**

Concurrency

Testing



Summary



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