

Creating Well-tested Applications in Go

INTRODUCTION TO TESTING



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Course Outline

**Introduction to
Testing**

**Creating and
Running Tests**

**Benchmarking and
Profiling**



Introduction



Overview of testing in Go

Test-related packages

Useful community projects



Testing in Go



Full-featured testing and profiling tools



Complete API for controlling test execution



Little support for assertions



Test Types

Test

Unit

Integration

End to End

Benchmark

Performance

Example

Documentation



Test Types

Test

Unit

Integration

End to End

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Performance

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Documentation



Testing-related Packages

`testing`

`testing/quick`

`testing/iotest`

`net/http/httptest`



Useful Community Projects

Testify

github.com/stretchrcom/testify

Ginkgo

github.com/onsi/ginkgo

GoConvey

goconvey.co

httpexpect

github.com/gavv/httpexpect

gomock

code.google.com/p/gomock/

go-sqlmock

[github.com/
DATA-DOG/go-sqlmock](https://github.com/DATA-DOG/go-sqlmock)



Summary



Overview of testing in Go

Test-related packages

Useful community projects

