

Testing - Part 2.

Session 12

Golang course by Exadel

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Agenda

- ▶ Testing in Go - Part 2
- ▶ Code Examples in Go
- ▶ Benchmarking
- ▶ Next time...

Testing in Go - Part 2

Testing in Go (recap from part 1)

▶ All information is located in the testing package [documentation](https://pkg.go.dev/testing) (https://pkg.go.dev/testing).

▶ Typical test anatomy:

- Setup (optional)
- Execute the code under testing
- Check (assert) the results
- Tear-down (optional)

▶ Code example: `code/testexample/01_greeter.go`

Table-driven tests

▶ Easy to autogenerate using your IDE

- Related project: [gotests](https://github.com/cweill/gotests) (<https://github.com/cweill/gotests>)

▶ Investigate code example: `code/testexample/02_greeter_test.go`

Advanced table-driven tests

 Example: "github.com/skovtunenkov/go-table-testing-arg-functions" (<https://github.com/skovtunenkov/go-table-testing-arg-functions>)

[arg-functions](https://github.com/skovtunenkov/go-table-testing-arg-functions))

Code Examples in Go

- ▶ Simple code Examples
- ▶ Runnable code examples (treat them as an extra test)
- ▶ Investigate code example: `code/testexample/03_greeter_test.go`

Benchmarks

- ▶ A culture of benchmarking
- ▶ Easy to measure
- ▶ Compiler optimisations may eliminate the function under test
- ▶ Investigate code example: `code/benchmark/fib.go`

Source: "How to write benchmarks in Go" by Dave Cheney (<https://dave.cheney.net/2013/06/30/how-to-write-benchmarks-in-go>)

Homework:

 "How to write benchmarks in Go" by Dave Cheney (<https://dave.cheney.net/2013/06/30/how-to-write-benchmarks-in-go>)

Thank you

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