

# Go@ELTE 2020

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# Go language

Started in 2007, became public in 2009 and had 1.0 in 2012

[golang.org/](https://golang.org/) (https://golang.org/)

[go.dev/](https://go.dev/) (https://go.dev/)

# Today

- Go environment
- editors
- git
- intro to the Go language (to be continued)

# Golang Setup

```
$ mkdir 1.13.7 local  
$ (cd 1.13.7; wget -O - https://dl.google.com/go/go1.13.7.linux-amd64.tar.gz | tar -xzf -)  
$ export GOROOT=$PWD/1.13.7/go  
$ export GOPATH=$PWD/local  
$ export PATH=$PATH:$GOROOT/bin:$GOPATH/bin
```

Or simply:

[tour.golang.org/](https://tour.golang.org/) (<https://tour.golang.org/>)

FYI download.google.com is using a Go binary.

Windows: use the zip!

```
Downloads\go\bin\go.exe  
PATH=$PATH:Downloads\go\bin\
```

# Hello World!

go run hello.go

```
package main

import "fmt"

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

Run

[play.golang.org/](https://play.golang.org/) (<https://play.golang.org/>)

## Local Editors

- vim and <https://github.com/fatih/vim-go>
- emacs and <https://www.emacswiki.org/emacs/GoLangMode>
- Visual Studio Code at <https://code.visualstudio.com/>
- JetBrains <https://www.jetbrains.com/go/>

# Course Material

- exercises from github
- homework to be sent to github

# First Example

```
$ git clone https://github.com/hu-univ-golang/golang-elte-2020-public.git  
$ cd golang-elte-2020-public/start  
$ go run hello.go  
Hello World!
```



## First Exercise

The code should print "Hello <your-name-here>!".

```
$ go run hellog.go
$ git status
...
modified:   hello.go
$ git add hello.go
$ git commit -m 'my name'
$ git status
...
nothing to commit, working tree clean
```

# Github account

Please create an account on github.com

[github.com/](https://github.com/) (<https://github.com/>)

# Mailing list

Please subscribe to

[golang-elte-2020-students@googlegroups.com](mailto:golang-elte-2020-students@googlegroups.com) (<https://groups.google.com/forum/#!forum/golang-elte-2020-students>)

## Next 12 Weeks

- Go language
- Concurrency
- Testing
- Web server
- GRPC client-server
- "Reducing Tail Latency" from Sameer Ajmani, 2016

## TODO service

- grading will be based on the weekly progress
- write tests!
- don't send it on the last week!

# Thank you

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