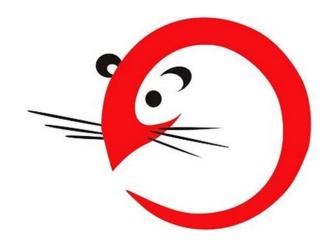




User manual: Team "Gold Compilers"



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Objective.

The user will learn how to download the project and how to learn to use it.

Introduction.

The following writing represents a manual for the use of the Foxy compiler. We show the installation requirements, the steps to follow for the installation, as well as the commands necessary to run and test the Foxy compiler, it has been designed so that a user with basic knowledge of Github and Ubuntu can easily execute it without any problem.

User manual.

- **Installation** Requirements.
- Install git bash.
- Install elixir ((You will have to see which version you have)).
- **Installation.**

There are two ways to do this step

Using git bash.

Open the Git Bash or git terminal

Type the following command:

git clone https://github.com/hiphoox/c212-goldcompilers.git

```
parisollie@parisollie-SVE11125CLB:-/Escritorio/Cloning Q = - - \( \)

parisollie@parisollie-SVE11125CLB:-/Escritorio/Cloning$ git clone https://github.com/hiphoox/c212-goldcompilers.git
Clonando en 'c212-goldcompilers'...
Username for 'https://github.com': parisollie
Password for 'https://parisollie@github.com':
remote: Enumerating objects: 107, done.
remote: Counting objects: 100% (107/107), done.
remote: Compressing objects: 100% (71/71), done.
remote: Total 107 (delta 8), reused 100 (delta 1), pack-reused 0
Recibiendo objetos: 100% (107/107), 5.31 MiB | 1.88 MiB/s, listo.
Resolviendo deltas: 100% (8/8), listo
parisollie@parisollie-SVE11125CLB:-/Escritorio/Cloning$
```

Once all this is done, a folder with the project will be generated:



The project will contain:

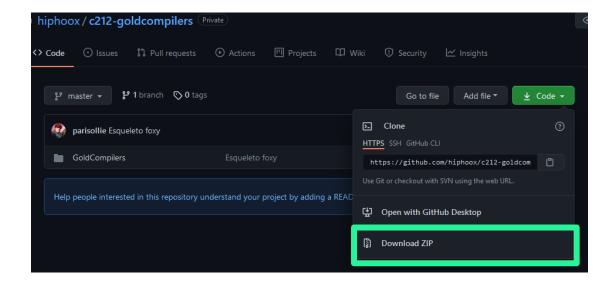


Download from github.

You should go to the following link:

https://github.com/hiphoox/c212-goldcompilers

Once inside the page download it this way:



Execution in Ubuntu.

It goes to the Foxy compiler and opens a terminal there Commands to start running.

First at all:

- Make sure you have updated what you are going to occupy.
- Make sure you have the corresponding elixir version with this project in this case we have the version: 1.9(You can this information in the mix.exs of the project)

```
defmodule Foxy.MixProject do
    use Mix.Project

def project do
    [
        app: :foxy,
        version: "0.1.0",
        elixir: "~> 1.9",
        escript: [main_module: FOXY],
        start_permanent: Mix.env() == :prod,
        deps: deps()
    ]
    end
```

We write the following command to generate an executable:

mix escript.build

If we look inside the project, the following will be generated:



We do a mix test to check that there are no errors:

mix test



Before starting to run our compiler app you will have to make sure that you have these commands in your terminal:

cargo -V
We install both:
Rust & Cargo
And last all this
sudo mix deps.compile --all



We see the options that our compiler has:

./ foxy -h

```
parisollie@parisollie-SVE11125CLB:~/Descargas/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compil
```

This example will show you how to use the Foxy compiler, valid and invalid examples will be used:

It shows us the token list:

./foxy -t codec_c/StageOne/Valid/05return_2.c

```
parisollie@parisollie-SVE11125CLB:-/Descargas/GoldCompilers/Co... Q = - □ &

parisollie@parisollie-SVE11125CLB:-/Descargas/GoldCompilers/GoldCompilers/Compil
adorFoxy$ ./foxy -t codec_c/StageOne/Valid/05return_2.c

The token list is :

[
{:type, 1, [:intKeyWord]},
{:ident, 1, [:mainKeyWord]},
{:left_paren, 1, []},
{:right_paren, 1, []},
{:left_brace, 1, []},
{:ident, 2, [:returnKeyWord]},
{:ident, 2, [:returnKeyWord]},
{:ident, 2, [:returnKeyWord]},
{:ident, 2, [:returnKeyWord]},
{:right_brace, 3, []}

parisollie@parisollie-SVE11125CLB:-/Descargas/GoldCompilers/GoldCompilers/Compil
adorFoxy$ □
```

It shows us the assembly:

./foxy -s codec_c/StageOne/Valid/05return_2.c

It shows us the AST:

./foxy -a codec_c/StageOne/Valid/05return_2.c

It compiles program:

./foxy -c codec_c/StageOne/Valid/05return_2.c

```
parisollie@parisollie-SVE11125CLB:~/Descargas/GoldCompilers/GoldCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/Compilers/Compilers/ColdCompilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/Compilers/ColdCompilers/Compilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/ColdCompilers/
```

It's created inside the folder:



In case of error, our compiler shows the error:

./foxy -s codec_c/StageOne/invalid/07missing_paren.c

With this command you can do the tests of each test, you just must change the termination to do it to each one

mix test test/lexer_test.exs

```
parisollie@parisollie-SVE11125CLB: ~/Descargas/GoldCompilers/GoldCompilers/Coparisollie@parisollie-SVE11125CLB: ~/Descargas/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/GoldCompilers/Gold
```

Historic:

Author:	Description:	Version:	Date:
Felix Flores	First Version	1.0	26-07-21
Paul Jaime			
Felix Flores	Second	2.0	07-08-21
Paul Jaime	Version		
Felix Flores	Third Version	3.0	13-08-21
Paul Jaime			