

Compiler

Jubilados

Project Manager

Ruiz Aguilar Eduardo

System Architect

Rodriguez Garcia Dulce Coral

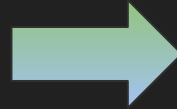
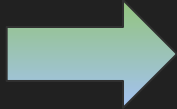
System Tester

Hernández Escobar Oswaldo

System Integrator

Aguilera Ortiz Alfredo

Tools



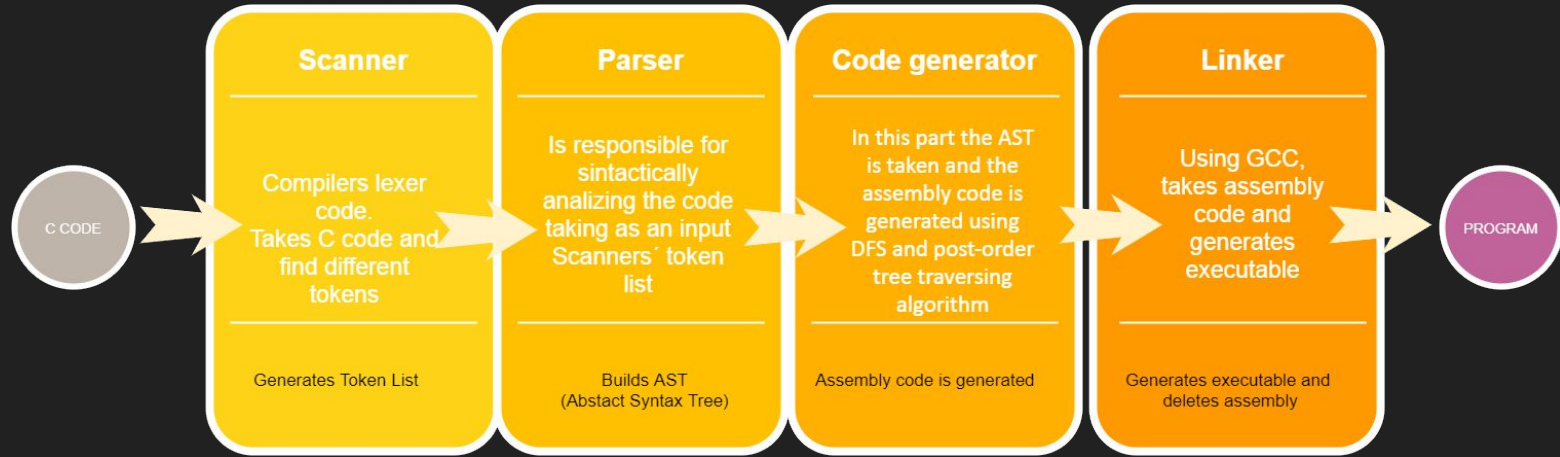
Work Plan

[illegible]

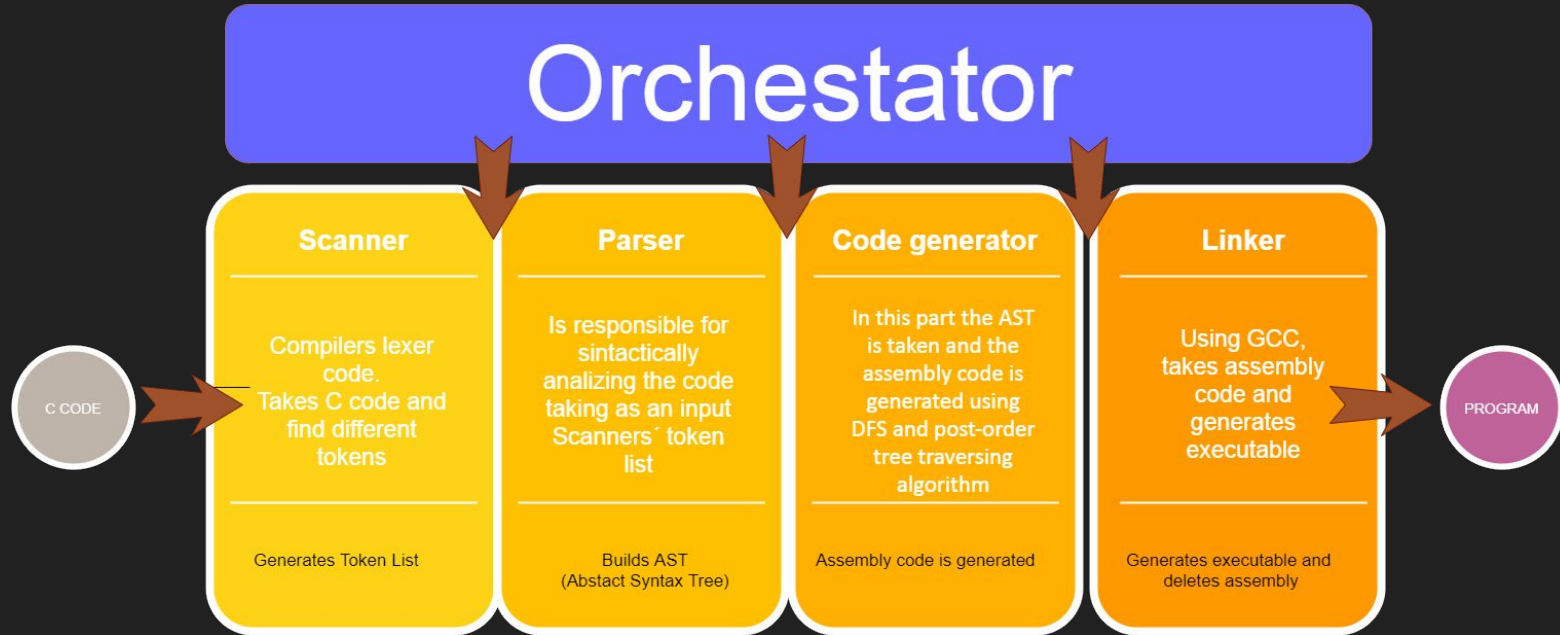
First Delivery

Integers

Architecture



Architecture



Tests

```
Selecciconar Símbolo del sistema
C:\Users\Eduardo\Documents\Compiladores\Repo\Master\c202-jubilados\compiler>mix test test/scanner_test.exs

1) test missing_parent (ScannerTest)
test/scanner_test.exs:104
Assertion with == failed
code: assert Scanner.scan_words(s_code) == state[:tokens]
left:  [{:int_keyword, 0}, {:main_keyword, 0}, {:open_paren, 0}, {:open_brace, 0}, {:return_keyword, 1}, {:constant, 0}, 1}, {:semicolon, 1}, {:close_brace, 2}]
right: [
  {:int_keyword, 0},
  {:main_keyword, 0},
  {:open_paren, 0},
  {:close_paren, 0},
  {:open_brace, 0},
  {:return_keyword, 1},
  {:constant, 2}, 1},
  {:semicolon, 1},
  {:close_brace, 2}
]
stacktrace:
  test/scanner_test.exs:111: (test)
```

```
7) test no_brace (ScannerTest)
test/scanner_test.exs:85
Assertion with == failed
code: assert Scanner.scan_words(s_code) == state[:tokens]
left:  [{:int_keyword, 0}, {:main_keyword, 0}, {:open_brace, 0}, {:return_keyword, 1}, {:constant, 0}, 1},
{:semicolon, 1}]
right: [
  {:int_keyword, 0},
  {:main_keyword, 0},
  {:open_paren, 0},
  {:close_paren, 0},
  {:open_brace, 0},
  {:return_keyword, 1},
  {:constant, 2}, 1},
  {:semicolon, 1},
  {:close_brace, 2}
]
stacktrace:
  test/scanner_test.exs:91: (test)

Finished in 0.2 seconds
9 tests, 7 failures

Randomized with seed 575000
```


Valid

```
Last login: Tue Mar 17 11:07:26 on ttys000
dulcoral@MacBook-Pro-de-Coral ~ % cd Desktop/compiladores/c202-jubilados/compiler
dulcoral@MacBook-Pro-de-Coral compiler % mix escript.build
Generated escript compiler_elixir with MIX_ENV=dev
dulcoral@MacBook-Pro-de-Coral compiler % ./compiler_elixir examples/valid/return_2.c
Compiling file: examples/valid/return_2.c

Code Generator output:
    .section          __TEXT,__text,regular,pure_instructions
    .p2align          4, 0x90
    .globl _main      ## -- Begin function main
_main:               ## @main
    movl    $2, %eax
    ret

:ok
```

Valid

```
dulcoral@MacBook-Pro-de-Coral compiler % ./compiler_elixir -t examples/valid/return_2.c
```

```
"***** This is the token List *****"
```

```
[
```

```
  {:int_keyword, 0},  
  {:main_keyword, 0},  
  {:open_paren, 0},  
  {:close_paren, 0},  
  {:open_brace, 0},  
  {:return_keyword, 1},  
  {{:constant, 2}, 1},  
  {:semicolon, 1},  
  {:close_brace, 2}
```

```
]
```

```
Lexer Output
```

Valid

```
dulcoral@MacBook-Pro-de-Coral compiler % ./compiler_elixir -s examples/valid/return_2.c
```

```
:int_keyword  
:main_keyword  
:open_paren  
:close_paren  
:open_brace
```

Code Generator output:

```
    .section      __TEXT,__text,regular,pure_instructions  
    .p2align      4, 0x90  
    .globl  _main      ## -- Begin function main  
_main:              ## @main  
    movl    $2, %eax  
    ret
```

```
    .section      __TEXT,__text,regular,pure_instructions  
    .p2align      4, 0x90  
    .globl  _main      ## -- Begin function main  
_main:              ## @main  
    movl    $2, %eax  
    ret
```

Valid

```
dulcoral@MacBook-Pro-de-Coral compiler % ./compiler_elixir -a examples/valid/return_2.c
:int_keyword
:main_keyword
:open_paren
:close_paren
:open_brace
%AST{
  left_node: %AST{
    left_node: %AST{
      left_node: %AST{
        left_node: nil,
        node_name: :constant,
        right_node: nil,
        value: 2
      },
      node_name: :return,
      right_node: nil,
      value: nil
    },
    node_name: :function,
    right_node: nil,
    value: :main
  },
  node_name: :program,
  right_node: nil,
  value: nil
}
Abstract Syntax Tree Output
```

Invalid

```
dulcoral@MacBook-Pro-de-Coral compiler % ./compiler_elixir examples/invalid/no_brace.c
Compiling file: examples/invalid/no_brace.c
Syntax Error
>Error: 1 : open_brace"
dulcoral@MacBook-Pro-de-Coral compiler %
```

```
C:\Users\Eduardo\Documents\Compiladores\Repo\Master\c202-jubilados\compiler>escript compiler_elixir examples/invalid/no_space.c
[{"int", 0}, {"main()", 0}, {"{", 0}, {"return0;", 1}, {"}", 2}]
: int_keyword
: main_keyword
: open_paren
: close_paren
: open_brace

Code output:
.section      __TEXT,__text,regular,pure_instructions
.p2align     4, 0x90
.globl _main      ## -- Begin function main
_main:          ## @main
    movl     $0, %eax
    ret

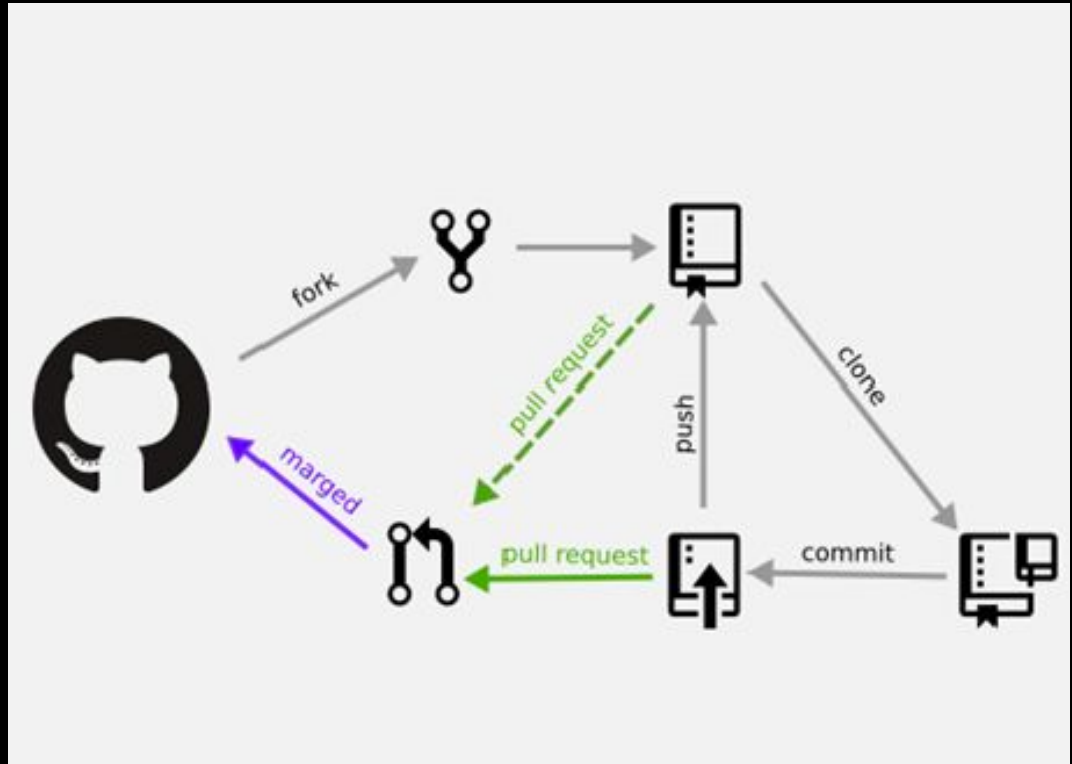
assembler
no_space.c: In function 'main':
no_space.c:2:5: error: 'return0' undeclared (first use in this function)
    return0;
    ^~~~~~
no_space.c:2:5: note: each undeclared identifier is reported only once for each function it appears in
Success process

C:\Users\Eduardo\Documents\Compiladores\Repo\Master\c202-jubilados\compiler>
```

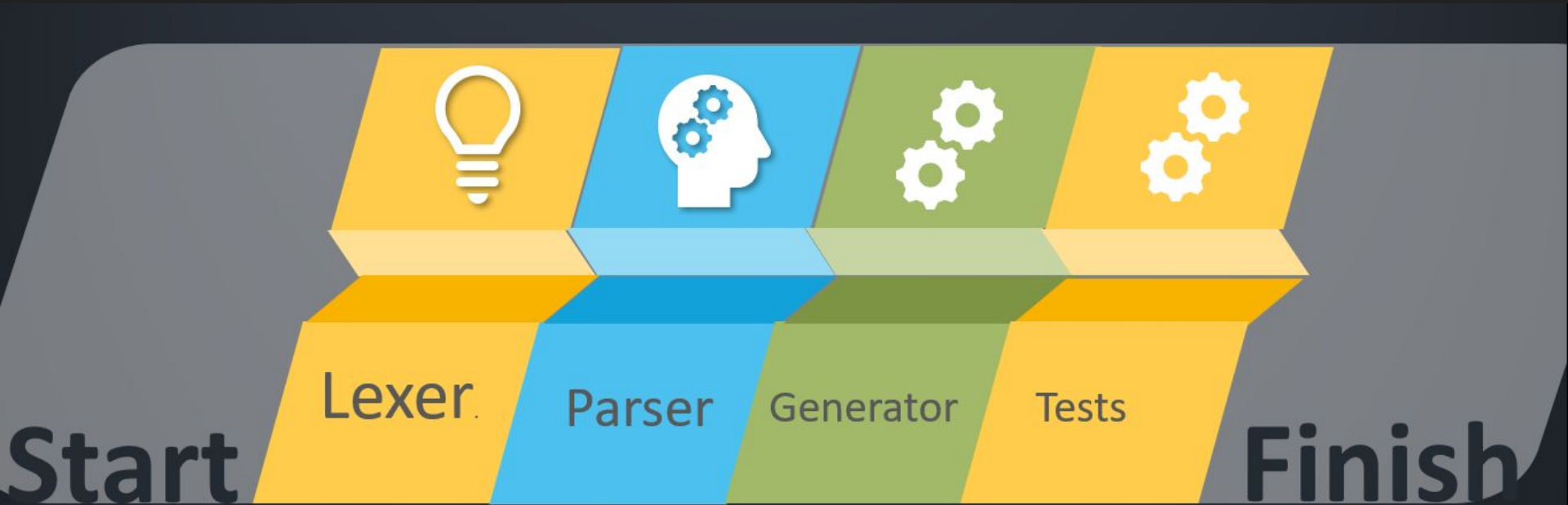
Experiences & Lessons Learned

Integrator

- Challenges
 - Git
 - Git hub
 - Elixir



Stages



Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.

