Compiler Jubilados

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Tools



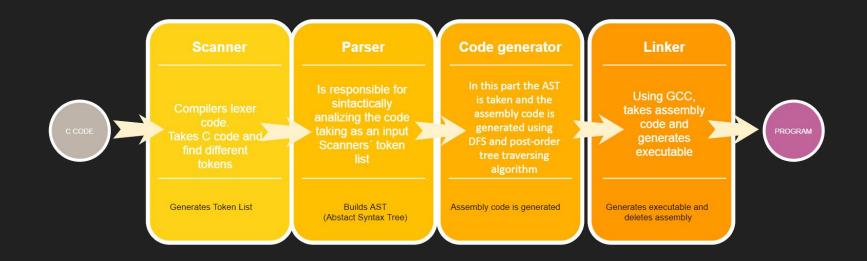
Work Plan

Work Plan															
Task		February						March							
	W	eek 1	Week 2	We	ek 3	We	ek 4	We	ek 1	We	ek 2	We	ek 3	We	ek 4
Requirements			<i>(</i> 1	- 27	27		50		50	50	50	 D	00	27	27
Client Requirements															
Read Nora Sandler document												ĵ			
Install Elixir and Read Documentation															
First Team Meeting	į.	Į.							į.				į		
Stage 1: Lexer															
Project Architecture Definition															
Lexer Code															
Stage 2: Parser															
Second Team Meeting						1									
Parser Code	į	Į.		Q.					ĵ.				į		
Stage 3: Code Generator															
x64 Instructions Set Review															
Code Generator															
Stage 4: Tests															
Test Building															
Final Team Meeting			j j	j.			j					2		ĺ	
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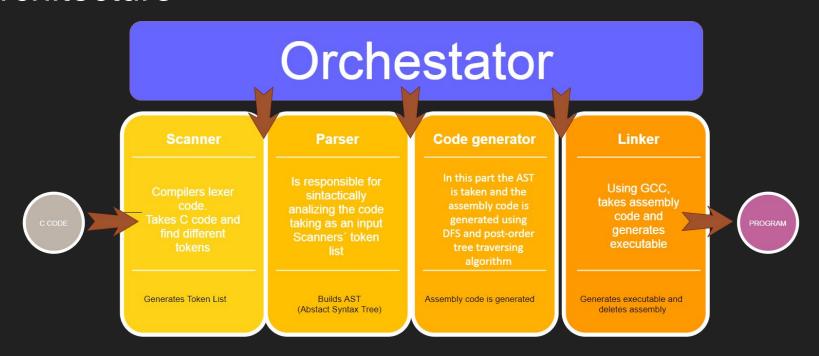
First Delivery

Integers

Architecture



Architecture



Tests

```
Seleccionar Símbolo del sistema
                                                                                                                         7) test no brace (ScannerTest)
                                                                                                                             test/scanner test.exs:85
                                                                                                                             Assertion with == failed
C:\Users\Eduardo\Documents\Compiladores\Repo\Master\c202-jubilados\compiler>mix test test/scanner_test.exs
                                                                                                                             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}]

    test missing_parent (ScannerTest)

                                                                                                                            right: [
    test/scanner test.exs:104
                                                                                                                                       {:int_keyword, 0},
    Assertion with == failed
    code: assert Scanner.scan_words(s_code) == state[:tokens]
                                                                                                                                        :main keyword, 0},
    left: [{:int_keyword, 0}, {:main_keyword, 0}, {:open_paren, 0}, {:open_brace, 0}, {:return_keyword, 1}, {{
                                                                                                                                        :open_paren, 0},
:constant, 0}, 1}, {:semicolon, 1}, {:close_brace, 2}]
                                                                                                                                        :close_paren, 0},
                                                                                                                                        :open_brace, 0},
    right: [
              {:int_keyword, 0},
                                                                                                                                        :return_keyword, 1},
              {:main_keyword, 0},
{:open_paren, 0},
                                                                                                                                        {:constant, 2}, 1},
                                                                                                                                       {:semicolon, 1},
              {:close paren, 0},
                                                                                                                                       {:close_brace, 2}
              (:open brace, 0),
              (:return_keyword, 1),
                                                                                                                             stacktrace:
              {{:constant, 2}, 1},
                                                                                                                               test/scanner test.exs:91: (test)
              {:semicolon, 1},
              {:close_brace, 2}
    stacktrace:
                                                                                                                        Finished in 0.2 seconds
      test/scanner test.exs:111: (test)
                                                                                                                        9 tests, 7 failures
                                                                                                                        Randomized with seed 575000
```

```
Last login: Tue Mar 17 11:07:26 on ttys000
dulcoral@MacBook-Pro-de-Coral ~ % cd Desktop/compiladores/c202-jubilados/compile
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
           $2, %eax
   movl
    ret
:ok
```

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

```
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

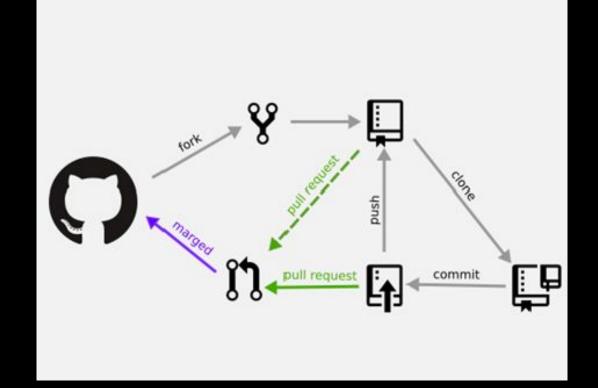
```
dulcoral@MacBook-Pro-de-Coral compiler % ./compiler_elixir examples/invalid/no_b]
race.c
Compiling file: examples/invalid/no_brace.c
Syntax Error
"Error: 1 : open_brace"
dulcoral@MacBook-Pro-de-Coral compiler %
```

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

Experiences & Lessons Learned

Integrator

- Challenges
 - o 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.

