

The background is a dark teal color with various financial symbols and numbers scattered across it. Symbols include the dollar sign (\$), yen sign (¥), euro sign (€), and pound sign (£). Numbers range from 0 to 9. Some numbers are in a light teal color, while others are in a yellow-green color. There are also some white arrows pointing up and down.

ProCSV

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Hello!

Name	UNI	Role1	Role2
Tabara Nosiba	tn2341	Project Manager	Tester
Tahiya Chowdhury	tc2672	Language Guru	Tester
Tahsina Saosun	ts2931	Systems Architect	Tester



Motivation

- Data processing
 - Our previous experiences
 - Common problem
- Why ProCSV?
 - Streamline process
 - Save some developer time, energy



Our Workflow

Our group met every Friday with our TA, Justin Wong, and worked throughout Friday afternoon and evening. In addition, our group also worked every Saturday morning.

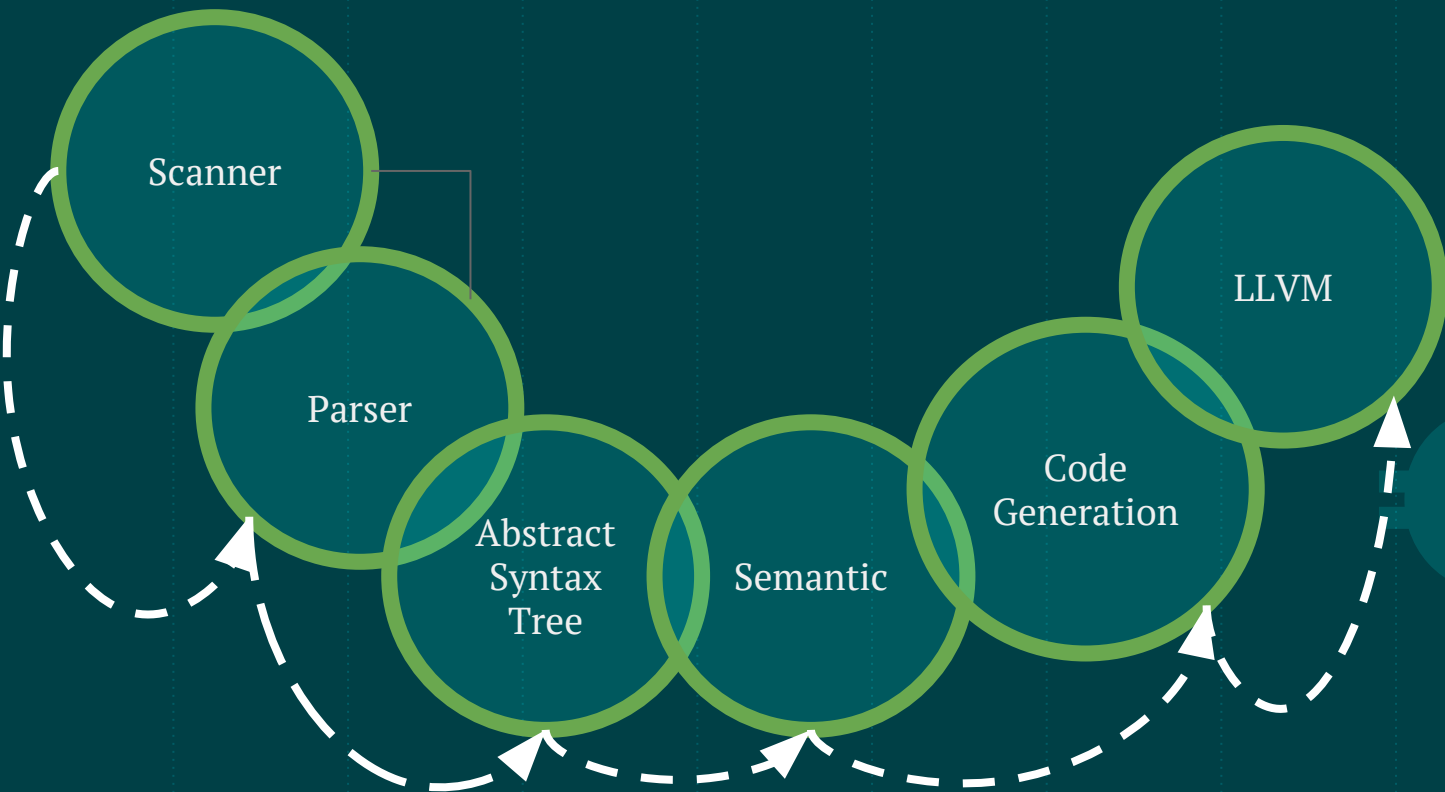


Overview

- Built on top of Micro-C with C and Java-like syntax
- ProCSV is statically typed
- Consists of built-in functions that allow for easy parsing, comparing, searching, and reading.



The Architecture



Data Types

Primitives

- int
- float
- bool

Non-Primitive

- string

Declarations

Simple:

```
int a;
```

Local:

```
void main(){  
    float c;  
    c = 2.0;  
}
```

Global:

```
int b;  
int main(){  
    b = 42;  
}
```



Operators

- +, -, *, /, % - arithmetic integer operators
- ==, <, >, <=, >= - numerical operators
- ||, &&, ! - logical operators
- = - assignment operator
- ++, -- - increment, decrement operators



Built-In Functions

- ★ `print_string()`
- ★ `print_float()`
- ★ `read_csv()`
- ★ `parse()`
- ★ `find()`
- ★ `sim()`



Test Suite

- Added tests on top of microc suite
- Passing & failing cases for each feature
- Automated via bash shell script, testall.sh



Project Timeline

1. Set up own work environment
2. Started from scratch while referencing previous codebases
3. Started to set up own test suite
 - a. ran into issues with codebase
4. Once micro available, started building on top of micro
 - a. Mod working all across
5. `print_string("hello world")` working
6. `float`, `increment`, `decrement` working
7. `parse()`, `read_csv()` functions working
8. `find()`, `sim()` functions working
9. demo code implemented
10. Final report



The Lessons We Learned

- We learned the importance of working in vertical slices
- The need for a clean repository
- Importance of understanding the entire codebase
- Staying on track with a schedule





Thanks!

Questions?

