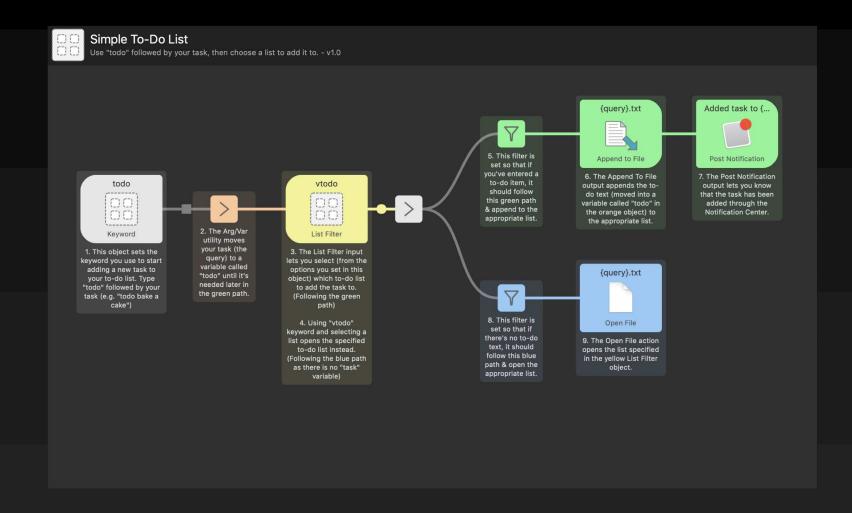


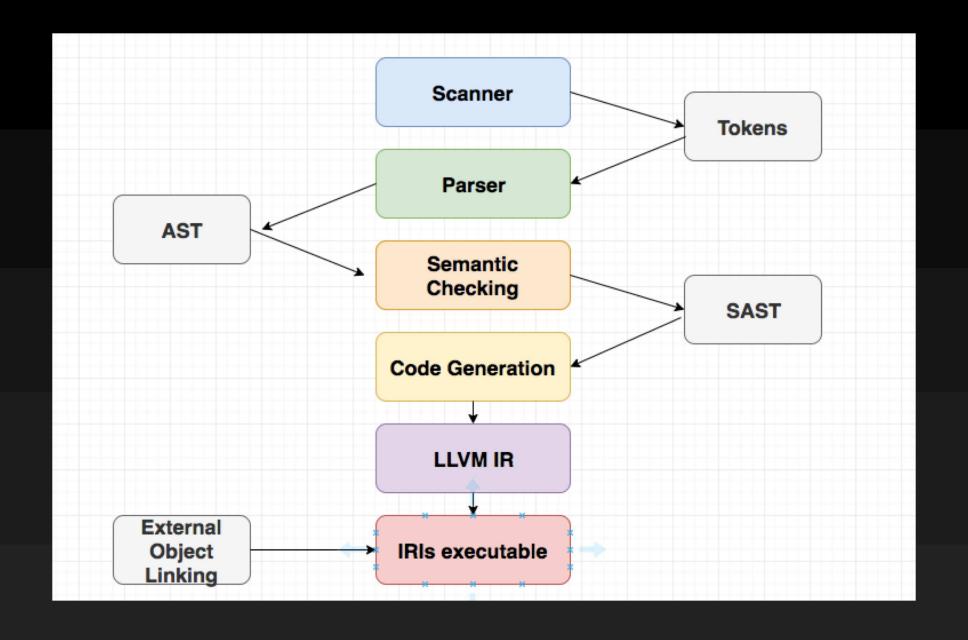
"Hey, IRIs"

#### Alfred Workflows

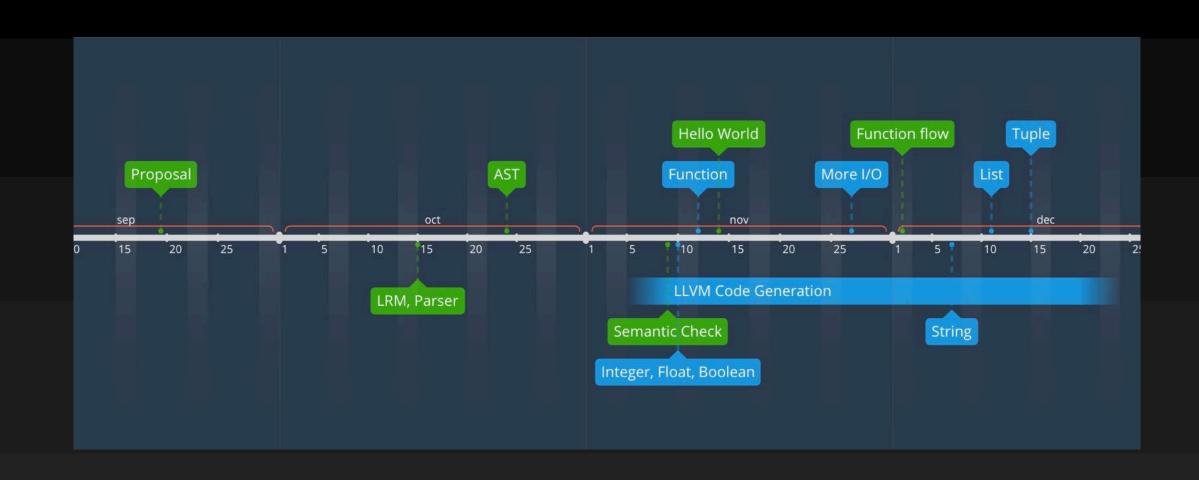


#### Team Roles

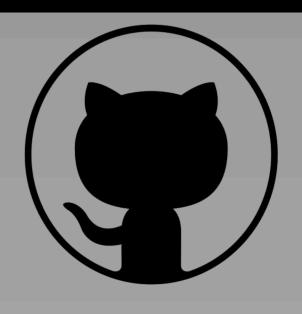




#### Timeline

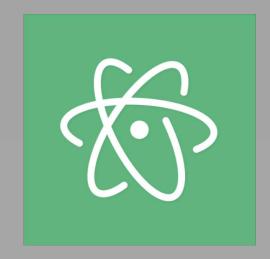


#### Project Environment





Overleaf



# SYNTAX

#### **TYPES**

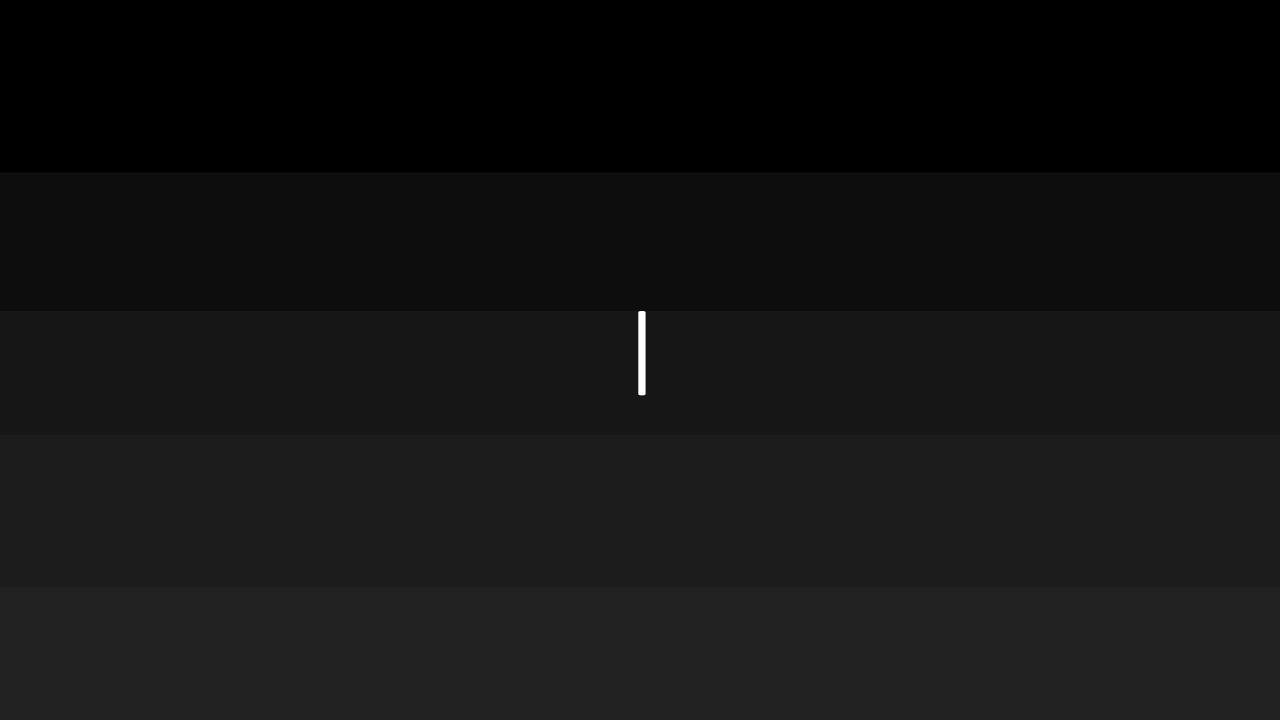
list int

float

string

bool

tuple



### variable 1

variable2

### variable 1

function

# tuple

### function

```
int plus2(int a)
    return a + 2
Siri
int plus1(int a)
    return a + 1
Siri
int main()
    plus1
    plus2
    printi
Siri
```

# HIGHLIGHTS

## Pipe: "Overload"

### Semant + LLVM

## Semant: Sassign/SCall

### List: C-based Implementation

### String: Heap-based Implementation

### Tuple: LLVM-based Implementation

### Future Works

# TESTING

#### Testing

- Identifiers
- Keywords
- Control flow: if, while
- Types: int, float, string, list, tuple
- Built-in functions: inputint, inputfloat, inputstring, sendmail
- Comments
- Operators
- Variables and function declarations
- Pipe

#### Test Suites

Two test suites, one intended to pass, and one intended to fail.

```
    test_* , fail_*
    -> .out , .err
```

Over 80 tests in total

```
al@numel:~/Downloads/IRIs$ sh testall.sh
test calculate int...OK
test helloworld...OK
test pipe...OK
test print float...OK
fail_print_int...OK
int main()
      float a,b,c
      1.234
      printf
Siri
```

```
testall.sh
 Open ▼ Æ
#!/bin/sh
# Regression testing script for MicroC
# Step through a list of files
# Compile, run, and check the output of each expected-to-work test
# Compile and check the error of each expected-to-fail test
# Path to the LLVM interpreter
LLI="lli"
#LLI="/usr/local/opt/llvm/bin/lli"
# Path to the LLVM compiler
LLC="llc"
# Path to the C compiler
CC="cc"
# Path to the iris compiler. Usually "./iris.native"
# Try " build/iris.native" if ocamlbuild was unable to create a symbolic link.
IRIS="./src/iris.native"
#IRIS=" build/iris.native"
# Set time limit for all operations
ulimit -t 30
globallog=testall.log
rm -f Sqloballog
еггог=0
globalerror=0
keep=0
Usage() {
   echo "Usage: testall.sh [options] [.ir files]"
    echo "-k Keep intermediate files"
    echo "-h
               Print this help"
```

#### Demo

Calculate Tips

Binary Search

Send Email