lemonScript

Brent,Khalid,Justin,Julian,David

Motivation

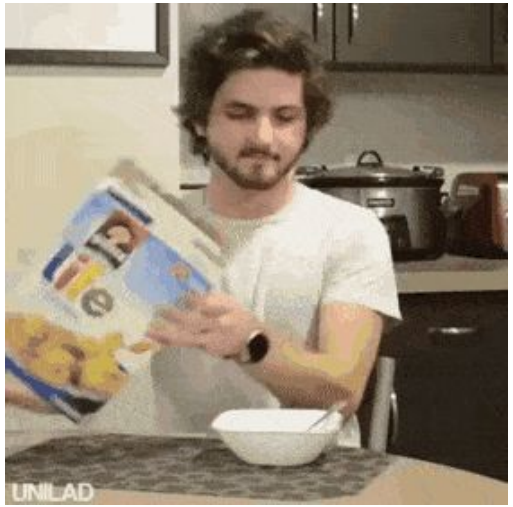
Key Features

- Statically Typed
- Switch statements
  - pick()
- Easily defined blocks of code
  - BEGIN JUICING
  - END JUICING
- Function Declarations
  - “When life gives you lemons try (*return type*) *name*()”
- Single line & Multiline comments
  - (*) this is a comment
  - (*) this is a multi-comment (*)

Keyword Overview

Javascript	LemonScript
boolean	taste
break	chop
case	lemonCase
const	lemonStain
constructor	plant
continue	nextLemon
default	citrusLimon
else	Toss the lemon and do
else if	Keep juicing if
extends	branches
false	sour
for	forEachLemon

JavaScript	LemonScript
function	When life gives you lemons try (return type) name() BEGIN



Javascript	LemonScript
if	Squeeze the lemon if
new	seed
return	you get lemonade and ...
static	trunk
switch	Pick ()
true	sweet
typeof	species
void	noLemon
while	Drink the lemonade while
class	Limon
import	receive

Coding Examples

2468

```
slice even = 4
pulp twofoursixeight
Pick (even)
    BEGIN JUICING
    lemonCase 2
    twofoursix = "two"
    chop
    lemonCase 4
    twofoursix = "four"
    chop
    lemonCase 6
    twofoursix = "six"
    chop
    citrusLimon
    twofoursix = "eight"
    END JUICING
pour("Our result is " + twofoursix)
```

Adding Two

```
When life gives you lemons try slice add(slice a, slice b)
    BEGIN JUICING
    you get lemonade and a + b
    END JUICING
```

1,2,3,... Infinity

```
( *) prints forever from 1 to infinity
slice x = 0
Drink the lemonade while(sweet)
        BEGIN JUICING
        x++
        pour(x)
END JUICING
```

Coding Examples

Hello World

```
When life gives you lemons try noLemon helloWorld()
    BEGIN JUICING
    pour("Hello World")
    END JUICING
```

5 Numbers

```
forEachLemon (slice i = 0; i < 5; i++)
    BEGIN JUICING
    pour("Number: ")
            pour(i)
    END JUICING
```

Nth Fibonacci

```
When life gives you lemons try slice fibonacci(slice num)
    BEGIN JUICING
    Squeeze the lemon if(num == 0)
        BEGIN JUICING
        you get lemonade and 0
        END JUICING
    Squeeze the lemon if(num == 1 || num == 2)
        BEGIN JUICING
        you get lemonade and 1
        END JUICING
    you get lemonade and fibonacci(num - 2) + fibonacci(num
    END JUICING
```

Thank you!