## Description

Sleek is a visual scripting service that implements a dynamically static typed language which performs type checking as the user generates the program graphically

The user connects simple nodes which represent expressions to create complex statements and programs.

Some cool things the language supports are first class functions, function scoping, user defined structures, object oreintation, and functional programming.

As of now, the language generates into javascript.

## About Visual Languages

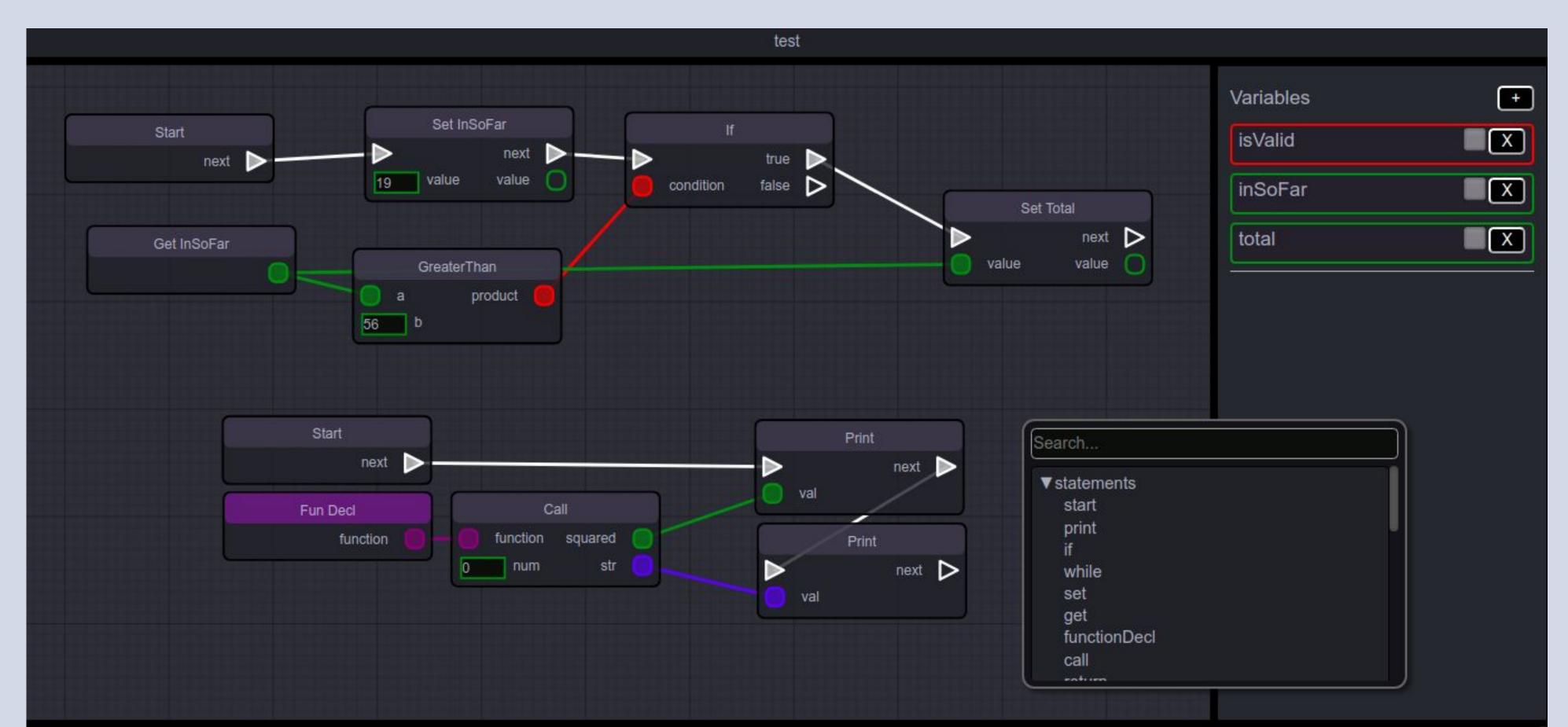
Visual programming languages attempt to move away from the text based programming all mainstream languages

Visual programming langauges started with programs like SmallTalk

When talking with people about visual languages I found that they mostly stay away from them because they either lack the breadth of speed of development of other languages

Visual scripting is gaining momentum with Unreal's Blueprint system, MIT's Scratch

## Call function Output string Demo Multiple For O Poster



## Results

Initially, this project was to be a transpilation of javascript. However, since javascript is weakly typed it limits the information you can get out of any single object.

I moved away from javascript in order to gain speed and usability, but I lost the ability to plug and play with javascript packages

Ultimately, this project was a great marriage of compilers and interaction design

The scale of this project lends itself well to continuing work, which could be in done in cleaning up the typing system and adding many features

