
BASIC Interpreter

4th June 2020

OVERVIEW

This BASIC interpreter is a console application that allows you to load BASIC source code and interpret and run it in real time.

GOALS

1. Create a console app to read in BASIC code.
2. Update the console app to interpret the BASIC code.
3. Update the console app to execute the BASIC code in real time.

SPECIFICATIONS

Starts by formatting the source code; stripping out comments, and removes unnecessary white space. Converts the remaining code to a series of tokens and symbols to be interpreted logically in a linear sense. Will be compatible with BASIC standard *X*.

```
//string.Join(source.Split(new char[] { '\n' }, StringSplitOptions.RemoveEmptyEntries).Select(x =>
string.Join((x.Substring(0, x.IndexOf("REM") == -1 ? x.Length : x.IndexOf("REM")).Trim()).Split(new
char[] { ' ' }, StringSplitOptions.RemoveEmptyEntries), ' '), '\n');
```

```
//I think this works to clean up the code
```

MILESTONES

File reading

Console app reads in BASIC source code from an exterior file.

Interpretation

Console app loads BASIC source code and interprets and runs in real time.