Espablo

Text Editor - Documentation

CMPT 440 - Spring 2016

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Setup

1. Download the formal-languages repository from Github as a ZIP file
   (https://github.com/weonyuan/formal-languages)
2. Unzip the downloaded file
3. Using your preferred terminal, navigate to /project/milestone.2/bin/
4. Finally, call the JavaCC compiler on EspabloDriver to run the program
   "java EspabloDriver"

The Gist

- There is only one menu (File) in the menu bar
- Under the File menu, there are several items you can select:
  - **New** (Ctrl+N) - Clears the text pane but will prompt the user if the text pane
    has been modified
  - **Load** (Ctrl+O) - Loads the selected text file and writes the content onto the
    text pane
    - Test programs (*.txt) are included in the program's folder. They are
      split into two folders ("accepted" and "rejected") in the program's
      root directory
  - **Save** (Ctrl+S) - Stores the text pane content into a newly created text file
  - **Exit** - Terminates the program

Using Espablo

- You can input your code in the text pane of the program
- The program abides by the following grammar, which is defined through a DFA

Statement	PrintStatement	
	AssignmentStatement	
	VarDeclaration	
PrintStatement	print (Expression)	
AssignmentStatement	Identifier = Expression	(here = means assignment)
VarDeclaration	var Identifier	
Expression	IntExpr	
	StringExpr	
	Identifier	
IntExpr	digit intop Expression	
	digit	
StringExpr	" CharList "	
Identifier	char	
CharList	char CharList	
	space CharList	
Comment	*- CharList -*	
char	a, b, c, ..., z	
space	the space character	
digit	0, 1, 2, 3, 4, 5, 6, 7, 8, 9	
intop	+	

Using Espablo (continued)

- Code validation is performed on the program's backend, which means you do not have to press on a button that validates it
- Validation is performed when a new line is detected on a line-by-line basis, which highlights the line of text by the following color:

```
var a
```

light blue; reserved for variable declarations

```
print ( a )
```

lime green; reserved for print and assignment statements

```
*- the life of pablo rivas perea -*
```

light gray; reserved for comments

```
a = 42
```

red; reserved for invalid code

- This means that you want to validate the first line, you would need to hit 'Return/Enter' on that line to receive validation feedback

Support

Feel free to contact me, Weon, at this email: weon.yuan1@marist.edu