

F*ckEmoji Documentation

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1 Introduction

F*ckEmoji is an esoteric programming language inspired by Brainfuck and EmojiCode. It combines the simplicity of Brainfuck with the expressive power of emojis. This documentation provides an overview of the language syntax, the lexer and parser implementation, and instructions on how to use the provided scripts.

2 Language Syntax

F*ckEmoji uses emojis as language tokens. Each emoji represents a specific command or operation. The following table lists the supported emojis and their corresponding commands:

Emoji	Command
+	Increment the current memory cell
-	Decrement the current memory cell
➡	Move the pointer to the right
⬅	Move the pointer to the left
💬	Output the value of the current memory cell
✉	Input a value and store it in the current memory cell
⬇	Start a loop (while the current memory cell is non-zero)
⬆	End a loop
📦	Enqueue the value of the current memory cell
📦	Dequeue a value and store it in the current memory cell
📚	Push the value of the current memory cell onto the stack
🎒	Pop a value from the stack and store it in the current memory cell

3 Lexer and Parser

The lexer and parser for F*ckEmoji are implemented using Flex (for lexical analysis) and Bison (for parsing). The lexer file (`fe.l`) defines the token rules, while the parser file (`fe.y`) specifies the grammar and actions associated with each token.

4 Usage

To convert a Brainfuck file to F*ckEmoji, you can use the `bf_to_fe.py` script. This script replaces Brainfuck commands with their corresponding F*ckEmoji emojis.

To compile and execute an F*ckEmoji program, follow these steps:

1. Run the `run.py` script.
2. Select the F*ckEmoji file (`.fe`) you want to execute.
3. The script will generate the lexer and parser files, compile the code, and execute it.

5 Sample Code

Here's a sample F*ckEmoji code:

```
+↓-----→++++←↑→🍷📚 V
+++++↓-→+++++←↑→🍷📚 l
-----🍷📚 a
++++🍷📚 d
🍷📚...
🍷📚...
🍷📚...
🍷📚...
🍷📚...
🍷📚...
```

The output will be:

```
Vlad
dalV
```

6 Conclusion

F*ckEmoji is a fun and quirky esoteric programming language that combines emojis and programming concepts. This documentation provides an introduction to the language, its syntax, and usage instructions. Have fun exploring F*ckEmoji and creating your own programs!