UWULANG: An esoteric programming language

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July 25, 2024

Thank you for downloading UWULang. This is a MACOS/LINUX distribution. We currently do not support WINDOWS.

1 Installation

A simple installation of UWULang will require a Java compiler. You can find the versions released by Oracle here. To install, simply open a new window and type

```
cd PATH/WHERE/YOU/INSTALLED/UWULANG/FOLDER && source uwulanginstaller.sh
```

This should terminate with the output similar to

```
Created directory ~/Library/uwulang
Installed uwu source code
~/downloads/uwulang
Installed successfully.
```

You have now installed a version of the UWULang interpreter and can restart your terminal.

2 Running

To run a program with a .uwu extension, you can simply type:

```
uwu FULL/PATH/TO/FILE
```

This should run the file properly.

3 How UWULang works

UWULang is an interpreter, meaning that the code inside a file is executed one line at a time. A heap space of 8 integers (from 0 to 127) is allocated for the memory of the program. Input is also provided as standard input. The code is executed by use of the readLine pointer. readLine specifies which line of the .uwu source code the interpreter will execute. Memory is readable and writable by access to the memLoc pointer. memLoc will specify which integer to read from, to print out, and to write to.

4 Commands

UWULang has its own command set to allow programmers to manipulate the data within the allocated heap space.

```
UWU     moves memLoc up by 1 integer

UwU     moves memLoc back by 1 integer

uWU     reads an integer from standard input and writes at memLoc

uwU     reads a char from standard input and writes at memLoc

UWu     outputs the integer stored at memLoc

Uwu     outputs the integer stored at memLoc in the form of a char

owo     starts a loop

OWO     goes back to the start of the loop if the integer at memLoc is not 0.

uwu     adds 1 to the integer stored at memLoc

uWu     subtracts 1 from the integer stored at memLoc
```