

```
HAI 1.2
CAN HAS STDIO?
VISIBLE "HAI WORLD!"
KTHXBYE
```

Code	Comment
HAI [VERSION]	In all LOLCODE programs, HAI ("Hi!") introduces the program and specifies the version (although this isn't actually used yet).
CAN HAS [LIBRARY]?	In many programming languages, one of the first statements will be a <u>library inclusion</u> for common functions such as input and output. Typically this is included by a call such as <code>#include <stdio.h></code> (<code>stdio</code> standing for standard input/output library). This command is a <u>tongue-in-cheek</u> corruption of that, asking if a library is <u>obtainable</u> , <u>obtaining</u> it if possible, and raising an exception if not. ^[6] It is there primarily for verisimilitude—in fact, it is ignored in current implementations of LOLCODE.
VISIBLE [MESSAGE]	Prints a message to the screen.
KTHXBYE	Just as HAI introduces the program, KTHXBYE (which is "K," "THX," and "Bye" all strung together, meaning "OK, thanks, bye") terminates it.
BTW [MESSAGE]	To write a single line comment in LOLCODE, you use the BTW keyword. Comments are ignored by the compiler and are written for better understanding of the program.
OBTW [MESSAGE] TLDR	Similar to the BTW keyword, the OBTW keyword marks a multiline comment, a comment that spans multiple lines. In LOLCODE, the OBTW keyword signifies the start of a multiline comment while the TLDR keyword ends it.

Example 2

```
HAI 1.2
CAN HAS STDIO?
PLZ OPEN FILE "LOLCATS.TXT"?
    AWSUM THX
        VISIBLE FILE
    O NOES
        INVISIBLE "ERROR!"
KTHXBYE
```

In this example,^[5] commands to open a file (`PLZ OPEN FILE "NAME"?`—"Please try to open a file?"), and error handling (`AWSUM THX`—"Awesome, thanks!", and `O NOES`—"Oh no!") are introduced.

Other commands include `I HAS A variable` for declaring variables, `variable R value` ("variable [is/are/being] value") for assigning them, sending error messages to the front end via `INVISIBLE` instead of `VISIBLE`, and `BTW` ("by the way") to denote a comment, making the parser ignore the rest of the line.

Loops are created with `IM IN YR ''label''` (inspired by the "Im in ur *noun*, *verbing* yr *related noun*" LOLcat meme), and ended with `IM OUTTA YR ''label''`. Loops can be broken with the keyword `ENUF` ("enough"), or in older versions, `GTF0`.^[7] Loops can also be ended with the conditional `IZ` command, as demonstrated in the next example.

Example 3

```
HAI 1.0
CAN HAS STDIO?
I HAS A VAR
IM IN YR LOOP
    UP VAR!!1
    VISIBLE VAR
    IZ VAR BIGGER THAN 10? KTHX
IM OUTTA YR LOOP
KTHXBYE
```

[5]

This simple program displays the numbers 1–11 and terminates (as of specification 1.0). The same program as of specification 1.2 is (assuming VAR starts at 0):

```
HAI 1.2
CAN HAS STDIO?
IM IN YR LOOP UPPIN YR VAR TIL BOTH SAEM VAR AN 10
    VISIBLE SUM OF VAR AN 1
IM OUTTA YR LOOP
KTHXBYE
```

Example 4

```
1 HAI 1.0
2 CAN HAS STDIO?
3 VISIBLE "U SEE THIS"
4
5 BTW VISIBLE "U SEE NOTHING"
6
7 OBTW
8 VISIBLE "U SEE NOTHIN"
9 VISIBLE "U STIL SEE NOTHIN"
10 TLDR
11
12 VISIBLE "U SEE THIS"
13 KTHXBYE
```

The above example will return the following:

```
U SEE THIS
U SEE THIS
```

This is because line 3 outputs `U SEE THIS` but line 5 is ignored due to the fact that it is commented out by the `BTW` keyword. Lines 8 and 9 aren't run because they are in a multiline comment that starts in line 7, and ends on line 10. Line 12 outputs `U SEE THIS` and line 13 terminates the program.

Implementations

The most recent and up-to-date interpreter for the LOLCODE language is `lci` (<http://lolcode.org/>), written in C by Justin Meza. It interprets LOLCODE efficiently on a variety of platforms.^[8]

The first LOLCODE implementation was a PHP parser written by Jeff Jones.^{[9][10]} The parser's website was also the first website using LOLCODE as an actual web scripting language. Being open source with a BSD style licence, it has been forked and used by multiple websites to implement LOLCODE scripting. The winning Pecha Kucha presentation at PHP Works 2008 was about this parser.^{[11][12]}

There is a .NET compiler for LOLCODE written by Nick Johnson,^[13] and featured in Microsoft developer training seminars, TechEd 2007 Conference (Australia).^{[14][15][16]}

PL/LOLCODE, a project headed by Josh Tolley, makes LOLCODE available as a server-side programming language inside PostgreSQL.^[17]

Microsoft Dynamic Language Runtime has an implementation of LOLCODE for testing purposes.^[18]

lolcode-java (A Java grammar / interpreter for the LOLCODE programming language) is a project also available^[19] but it appears to not yet be compliant with the version 1.3 specification.

A LOLCODE to JavaScript translator is also available.^[20]

There is also a LOLCODE compiler included with the Parrot virtual machine as one of the languages demonstrating the use of Parrot's compiler tools.^[21]

A compiler, virtual machine and debugger, created by Piper, for a LoLCode like language, LoLCode 1337, written in C, is here (<https://sourceforge.net/projects/lolcode-1337/>)^[22]

A version for parallel and distributed computing can be found here (<https://www.parallella.org/2017/04/01/parallel-and-distributed-computing-with-lolcode/>).^[23]

Related projects

LOLCODE has also inspired LOLPython, written by Andrew Dalke. LOLPython uses LOL-inspired syntax similar to that of LOLCODE, but with a Python-like style. It operates by translating the LOLPython source into Python code.^[24]

ArnoldC is an offshoot of LOLCODE that replaces lolspeak with quotes from different Arnold Schwarzenegger movies.^[25]

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External links

- [Official website](http://www.lolcode.org) (<http://www.lolcode.org>) 

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