SI 413: Programming Languages and Implementation

brain 70 85 ck

What brain**ck has been used for:
Self interpreters!

```
>>>+[[-]>>[-]++>+>+++++++[<++++>>++<-
]++>>+>+>+++++[>++>+++++++<<-]+>>>,<++[[>[ -
>>]<[>>]<<-]<[<]<+>>[>]>[<+>-[[<+>-]>]<[[[-]<]++<-
[<++++++++++>[<->-]>>]>>]]<<
]<]<[[<]>[[>]>>[>>]+[<<]<[<]<+>>-]>[>]+[-
>>]<<<<[[<<]<[<]+<<[+>+<<-[>-->+<<-[> +<[>>+<<-
]]]>[<+>-]<]++>>--
>[>]>>[>>]]<<[>>+<[[<]<]>[[<<]<[<]+[-<+>>-
[<<+>++>- [<->[<<+>>-]]]<[>+<-
]>]>[>]>[>>]>>[>>+>>+>>]<<[-
>>>>>>]<<[>.>>>>>>]<<[ >-
>>>>>]<<[>,>>>]<<[>+>]<<[+<<]<]
```

[Daniel B Cristofani (cristofdathevanetdotcom)
http://www.hevanet.com/cristofd/brainfuck/]

Creator:
Urban Muller

Original Distribution

```
Short:        240 byte compiler. Fun, with src. OS 2.0
Uploader:     umueller amiga physik unizh ch
Type:         dev/lang
Architecture: m68k-amigaos


The brainfuck compiler knows the following instructions:


Cmd  Effect
---  ------
+    Increases element under pointer
-    Decrases element under pointer
>    Increases pointer
<    Decreases pointer
[    Starts loop, flag under pointer
]    Indicates end of loop
.    Outputs ASCII code under pointer
,    Reads char and stores ASCII under ptr


Who can program anything useful with it? :)
```

SCIENTIA UT AMICOS SERVEMUS
US NA
{0,1}*
COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
SCIENTIA UT HOSTES VINCAMUS

Hello world!
```
>+++++++++[<++++++++>-]<.>+++++++[<++++>-
]<+.+++++++..+++.>>>+++++++++[<++++>-]
<.>>>++++++++++[<++++++++++>-]<---.<<<<.+++.------
.--------.>>+.
```

Other uses:

Stress Reduction Kit

Bang Head Here

Directions:
1. Place kit on FIRM surface.
2. Follow directions in circle of kit.
3. Repeat step 2 as necessary, or until unconscious.
4. If unconscious, cease stress reduction activity.

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This course examines basic concepts underlying the design of modern programming languages: types, control structures, abstraction mechanisms, inheritance, and constructs for programming. This course will include programming assignments in several languages