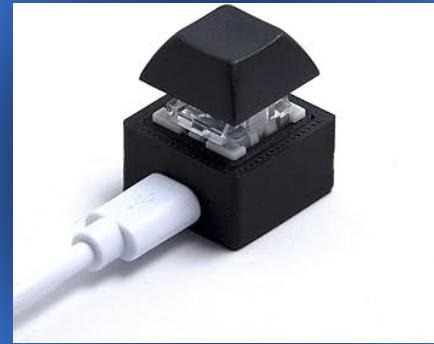


MorseCoding

for people with only one key



Advantages

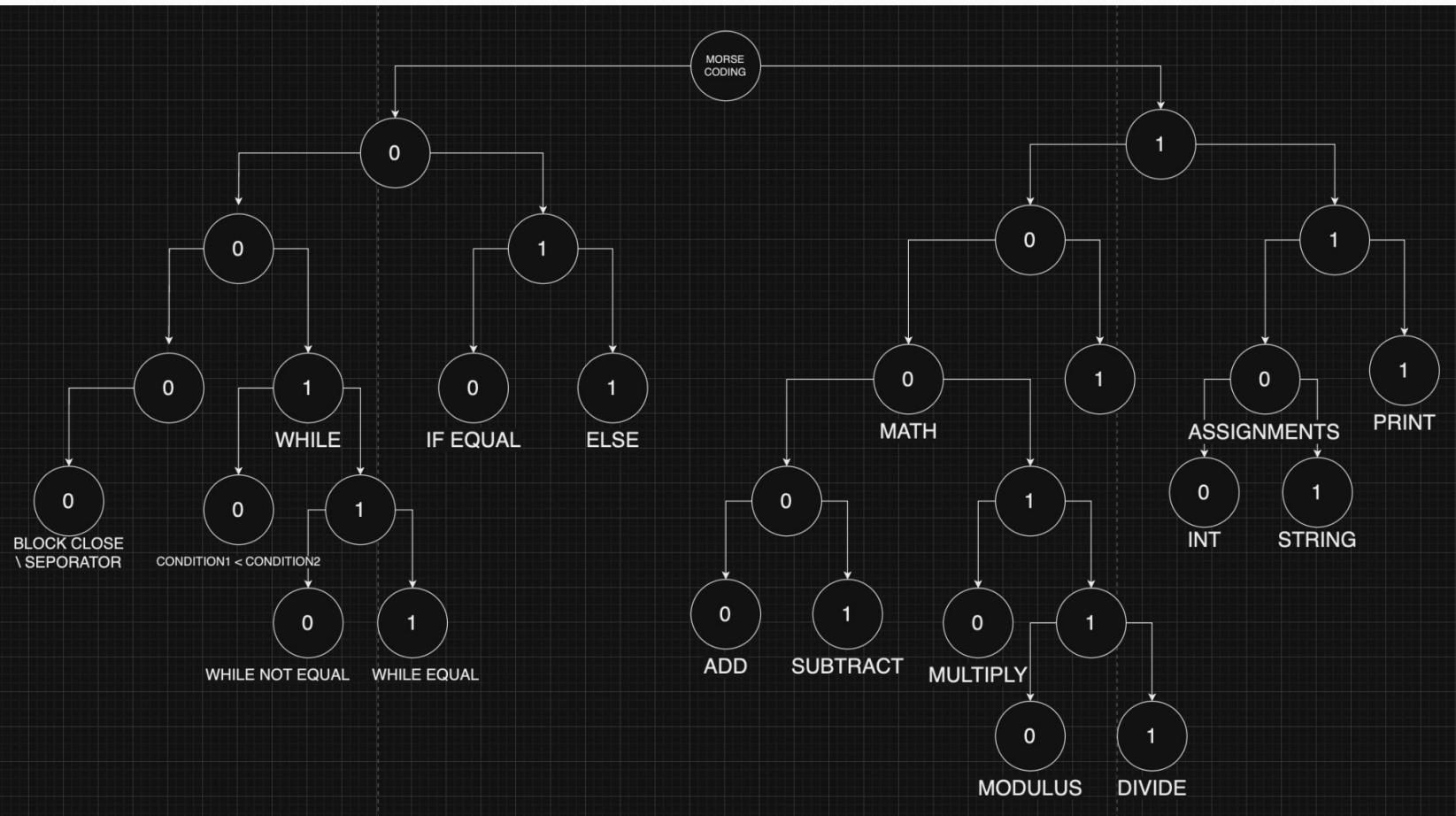
- Only Requires one button - Thus it can be extremely useful on smaller or limited hardware.
- The language is very lightweight and can be easily installed anywhere
- Simple, in that it can be visualized with the following tree (next slide)

0's and 1's

The language is written in only 0's and 1's

This can be done with a traditional keyboard by pressing 0 and 1

Or, with only one key, a program will scan the key every second to determine whether a 0 or 1 should be written. Thus, it can be written with only 1 key.



```
1101 010000
```

```
str var
```

```
110110110110100 110100 11011110110100 11011110110100 11111111100
```

```
H E L L O
```

```
11011111100 11111111100 11011110100 11011110110100 111110110100 000
```

```
W O R L D
```

```
111 010000
```

```
pnt var
```

The program could be written like this. But it is far less clear what it does in this form

The words, letters, and spaces are not interpreted, they just help with readability

Both these programs generate the same output
“HELLOWORLD”

```
11010100001101101101001101001101111011010011011110110100111111100  
110111111001111111110011011111010011011111011010011111011010010000111010000
```

```
1 1100 010000 0000000000000000
2 int var -
3
4 1100 110000 0000000000000001
5 int var -
6
7 1100 1110000 0000000000001010
8 int var -_
9
10 001 10 010000 1110000
11 while ne cond- cond2
12
13     111 010000
14     pnt var
15
16     10000 010000 110000
17     add var- var2
18
19     0000
20 }
```

Here is an example of what loops look like in Morse Coding

```

2 int var_    -
3
4 1100 0100110000 0000000000000000
5 int var_    -
6
7 1100 0101010000 0000000000000000
8 int var2    -
9
10 1100 0101110000 000000001100100
11 int var3    -_
12
13
14
15 1101 0110010000 11011011110100 110110100 11111110110100 1111111
16 str var4    F          I          Z          Z
17
18 1101 0110110000 111110110110100 110110111100 11111110110100 11112
19 str var5    B          U          Z          Z
20
21 1101 0111010000 110110111110100 110110100 11111110110100 1111111
22 str var6    F          I          Z          Z
23
24
25
26 1100 0111110000 0000000000000011
27 int var7    3
28
29 1100 1100010000 0000000000000101
30 int var8    5
31
32 1100 1100110000 0000000000001111
33 int var9    -5
34
35
36
37 1100 1101010000 0000000000000000
38 int var_    -
39
40
41
42 001 0 0101010000 0101110000
43 while < var2    var3    {
44
45 10000 1101010000 0101010000
46 add  var_    var2

```

```

48 100110 1101010000 1100110000
49 mod  var_    var9
50
51 010 1101010000 0100010000
52 if   var_    var_    {
53
54 111 0111010000
55 pnt var6
56
57 0000 011
58 }    el{
59
60 10001 1101010000 1101010000
61 minus var_    var_
62
63 10000 1101010000 0101010000
64 add   var_    var2
65
66 100110 1101010000 1100010000
67 mod   var_    var8
68
69 010 1101010000 0100010000
70 if   var_    var_    {
71
72 111 0110110000
73 pnt var5
74
75 0000 011
76 }    el{
77
78 10001 1101010000 1101010000
79 minus var_    var_
80
81 10000 1101010000 0101010000
82 add   var_    var2
83
84 100110 1101010000 0111110000
85 mod   var_    var7
86
87 010 1101010000 0100010000
88 if   var_    var_    {
89
90 111 0110010000
91 pnt var4

```

<pre> 92 93 0000 011 94 } el{ 95 96 111 0101010000 97 pnt var2 98 99 0000 100 } 101 102 0000 103 } 104 105 0000 106 } 107 108 10001 1101010000 1101010000 109 minus var_ var_ 110 111 10000 0101010000 0100110000 112 add var2 var- 113 114 115 0000 116 } </pre>	
--	--

