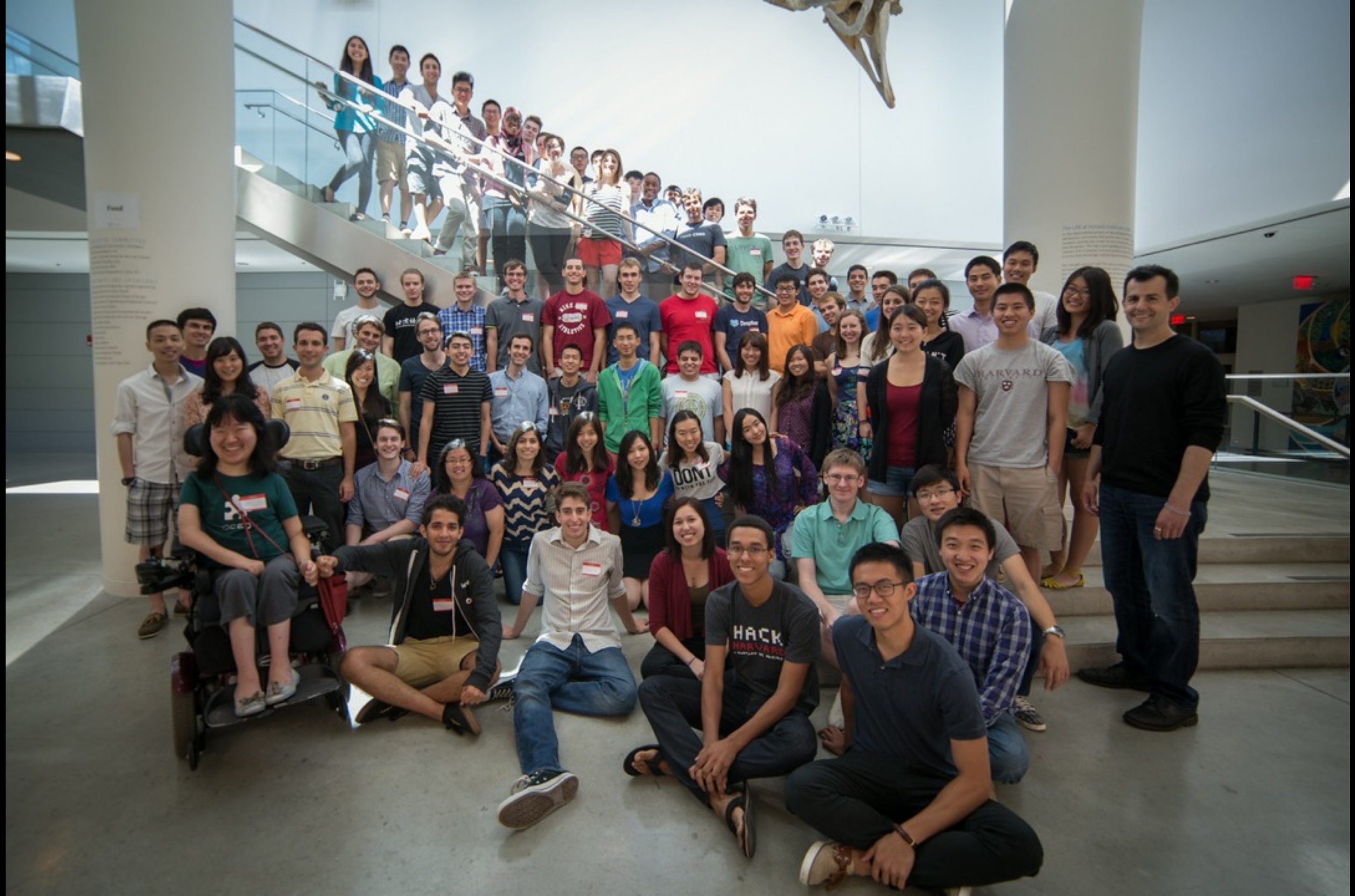


week 0, continued







cs50.harvard.edu/register

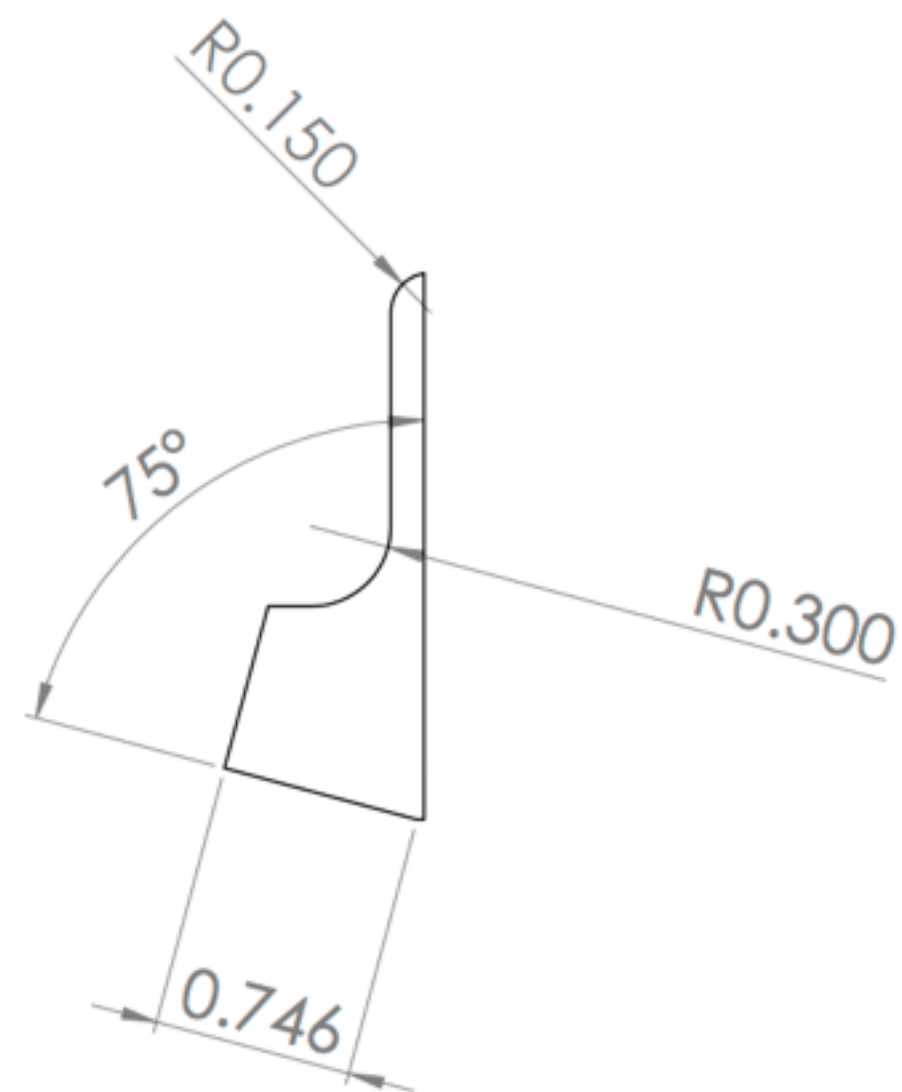
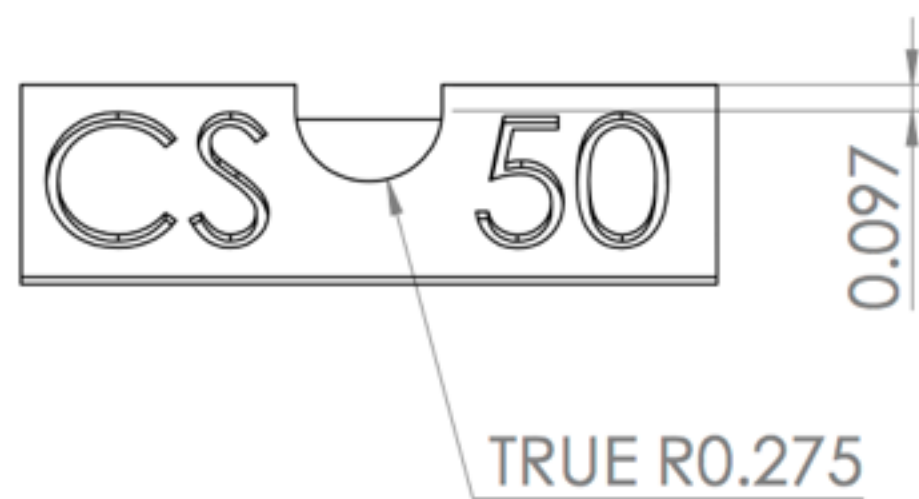
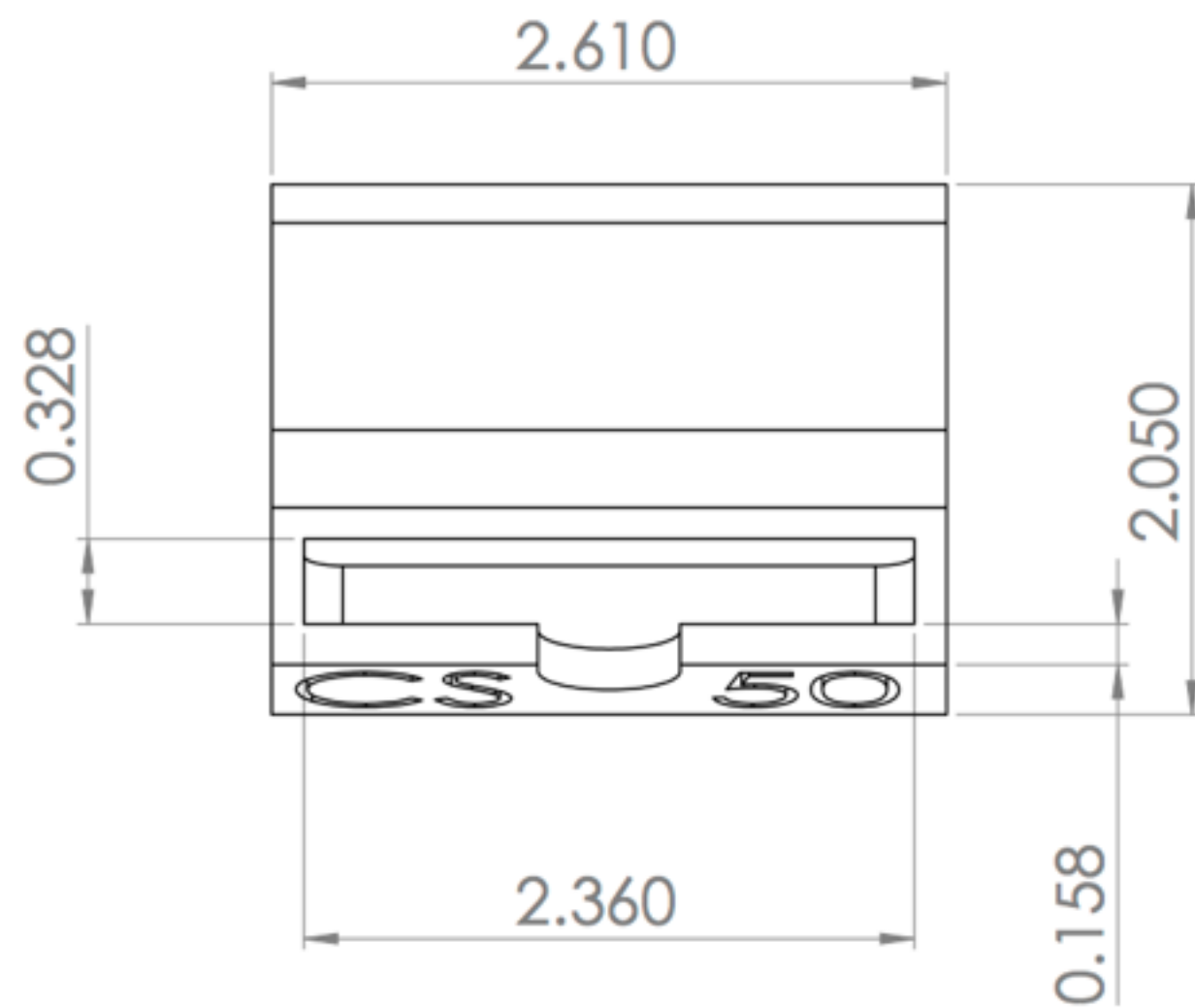


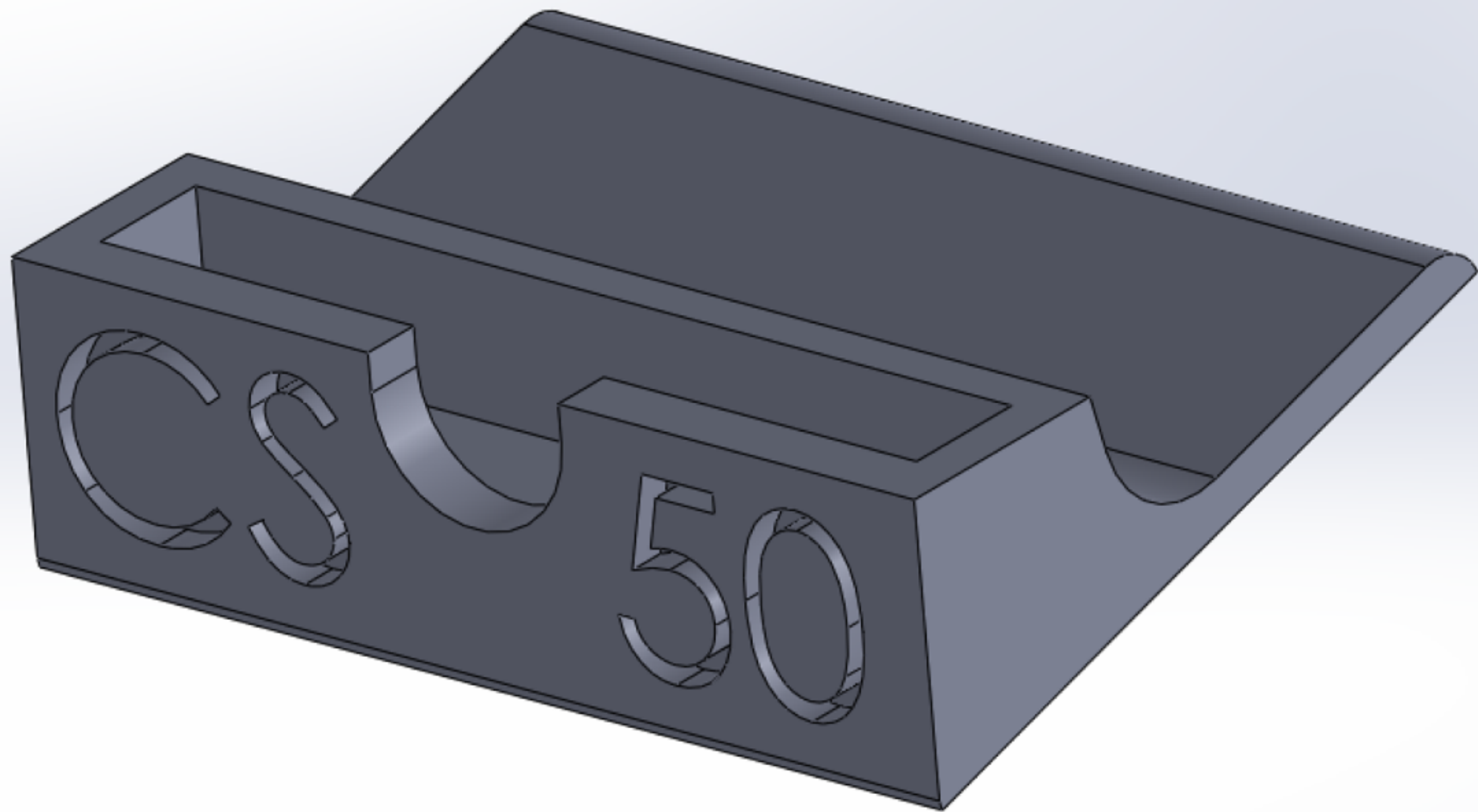


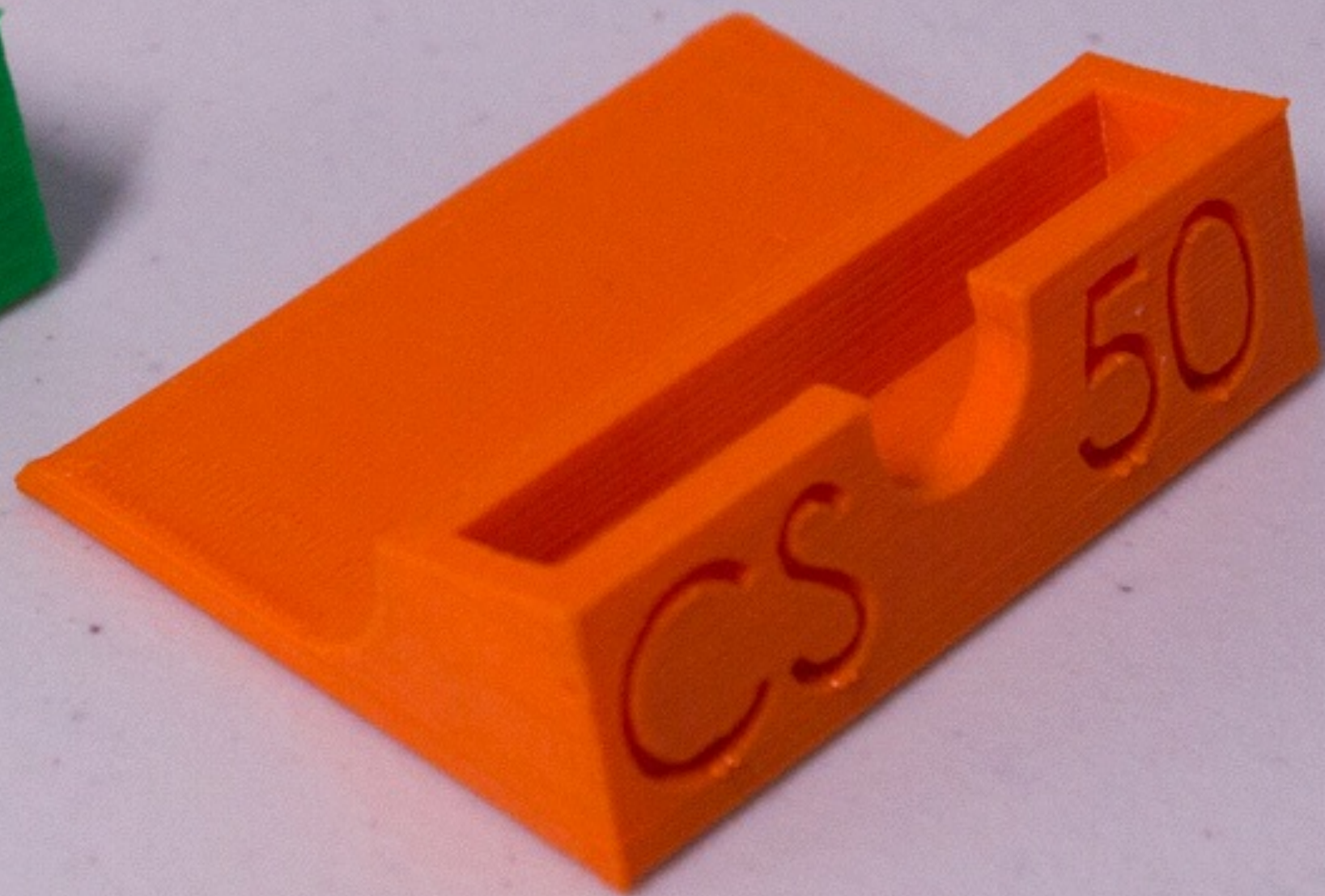
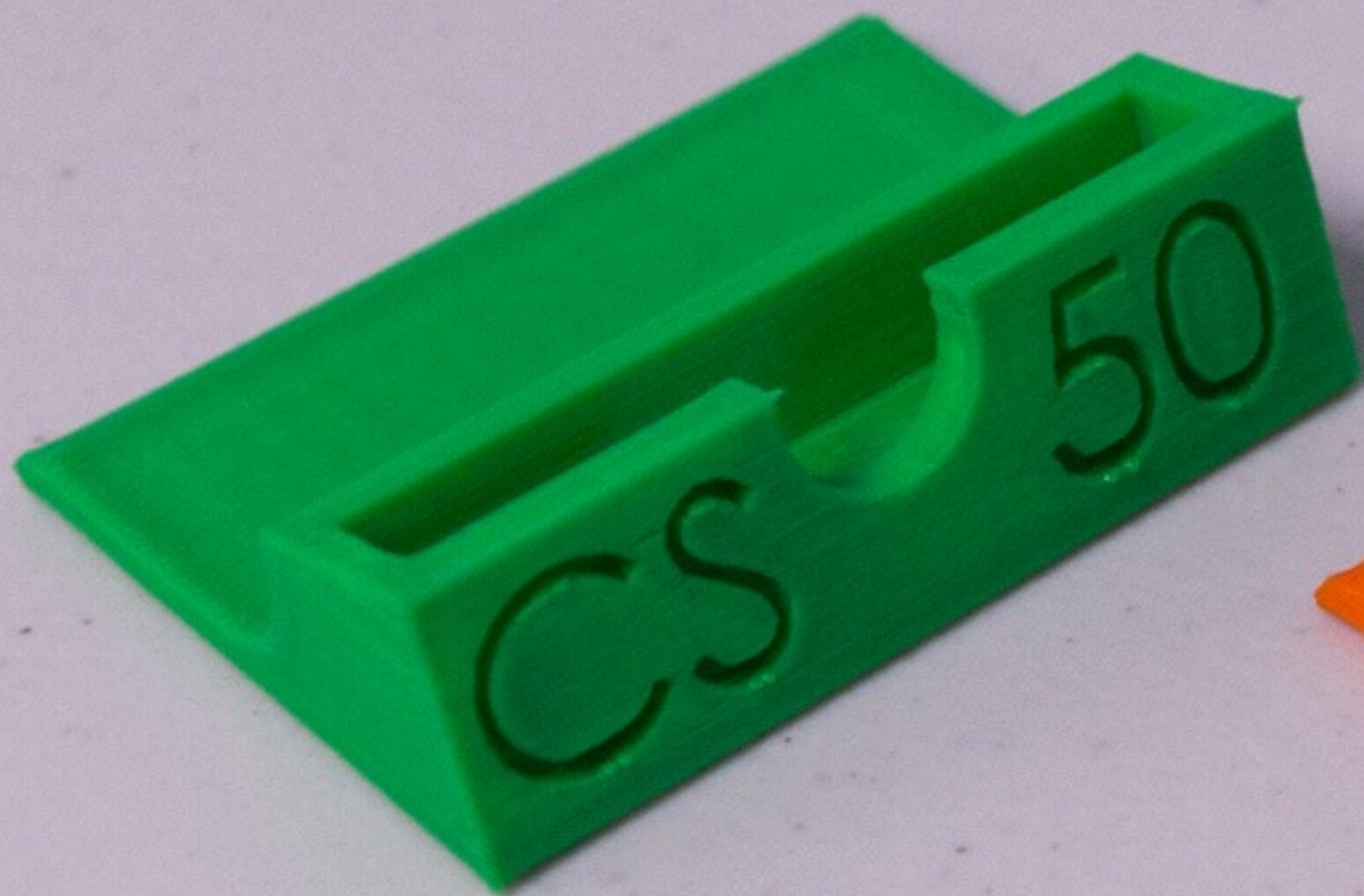






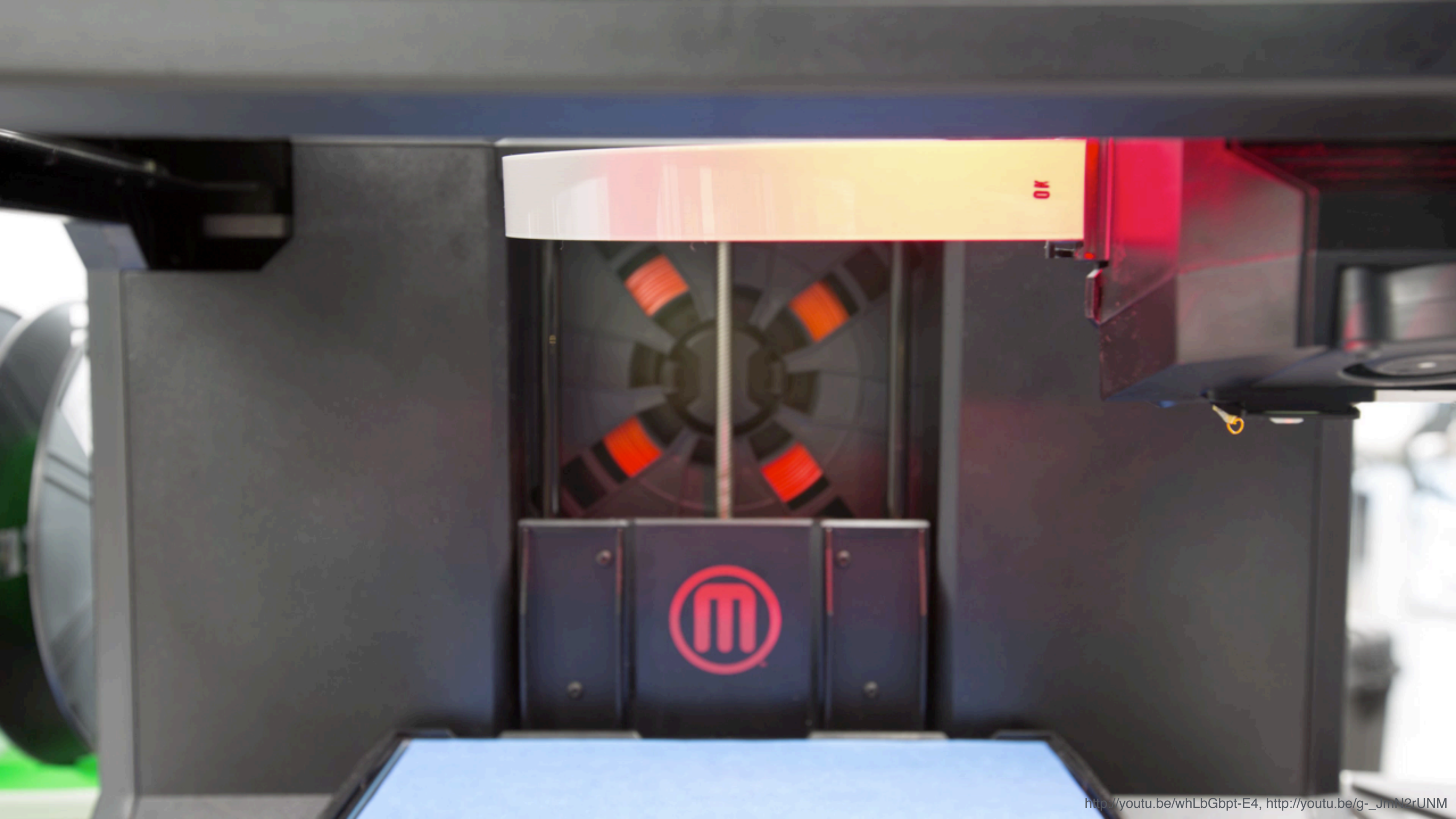


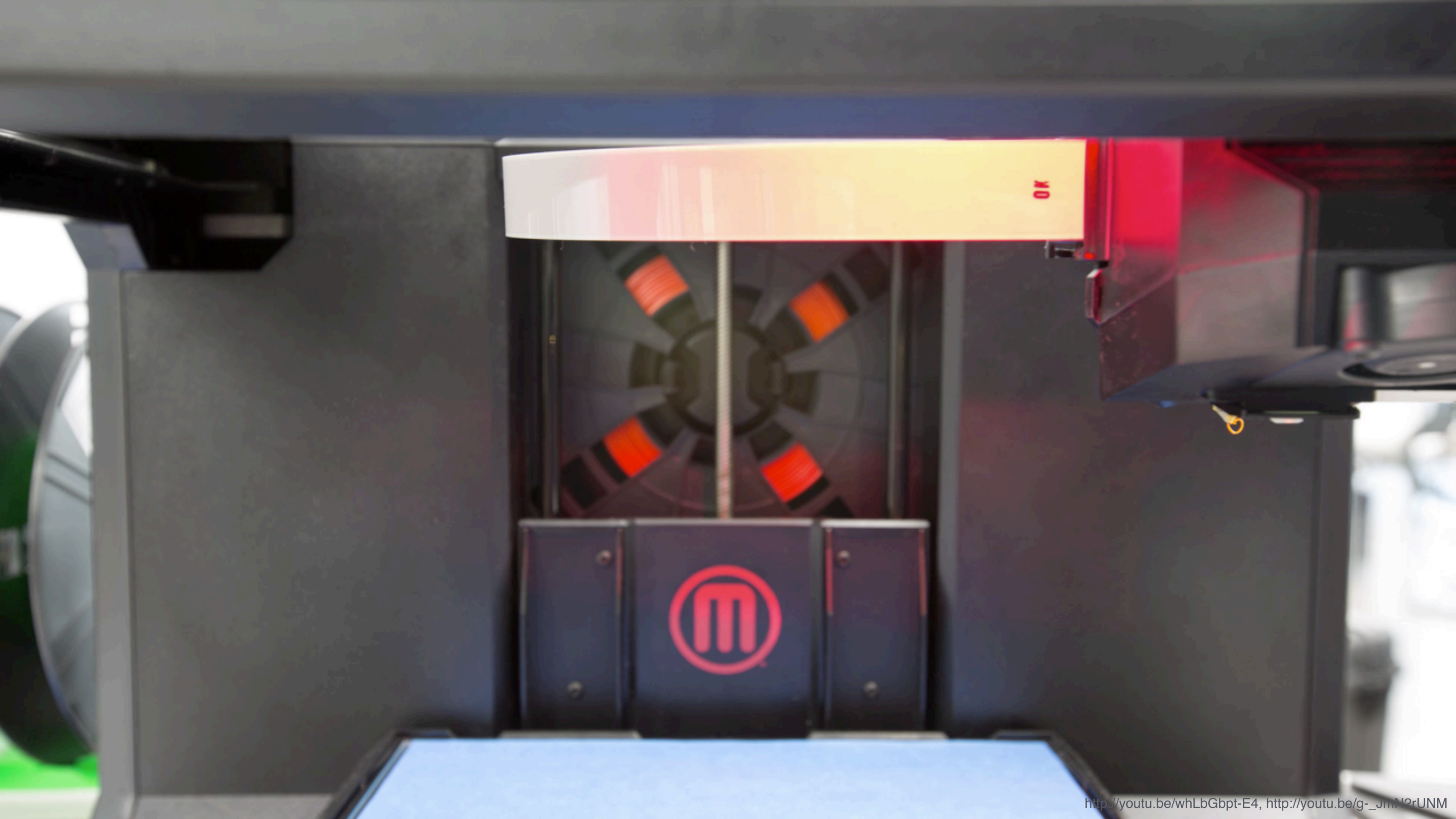














COMPUTER SCIENCE

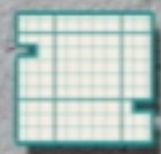



```
1  pick up phone book
2  open to middle of phone book
3  look at names
4  if "Smith" is among names
5      call Mike
6  else if "Smith" is earlier in book
7      open to middle of left half of book
8      go to line 3
9  else if "Smith" is later in book
10     open to middle of right half of book
11     go to line 3
12 else
13     give up
```


Pseudocode



let **N** = 0



for each person in room



Set **N** = **N** + 1

variable



let **N** = 0



for each person in room



Set **N** = **N** + 1



let **N** = 0



for each person in room



Set **N** = **N** + 1

loop



let **N** = **0**



for each person in room



Set **N** = **$N + 1$**

condition

TEST COMPLETE



let **N** = 0



for each pair of people in room



Set **N** = **N** + 2



If 1 person remains then



Set **N** = **N** + 1

3



Pseudocode



code

source code

```
#include <stdio.h>
```

```
int main(void)
```

```
{
```

```
    printf("hello, world\n");
```

```
}
```


when  clicked

say hello, world!

scratch.mit.edu

statements

A Scratch 'say' block, which is a purple speech bubble shape. It contains the text 'say' in a small font and 'hello, world!' in a larger font, both in white. The block has a small notch on its left side and a small bump on its right side, and it is casting a shadow on the black background.

say hello, world!


statements

wait 1 secs

statements



Boolean expressions



mouse down?

Boolean expressions



Boolean expressions



Boolean expressions



conditions



conditions



conditions



loops



loops



variables



functions



arrays





threads



events



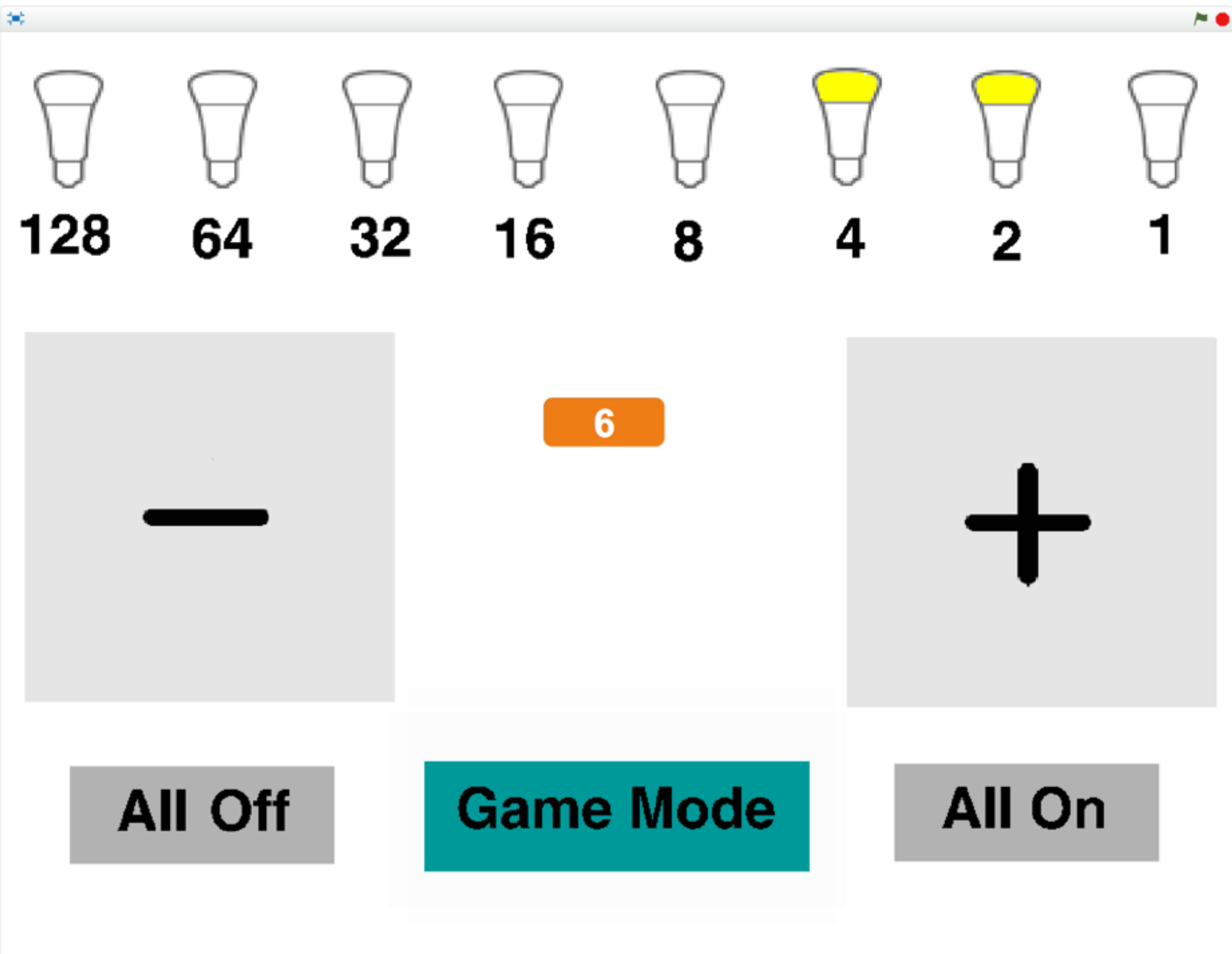
extensions

```
function check(text)
{
    if (check.state.on == true)
    {
        off();
    }
    else
    {
        on();
    }
}
```



```
PUT /api/newdeveloper/lights/1/state HTTP/1.1
```

```
{"on":true, "bri":255, "transitiontime":0}
```



sectioning begins next week

office hours begin next week

problem set 0



what does the fox say?

to be continued...