



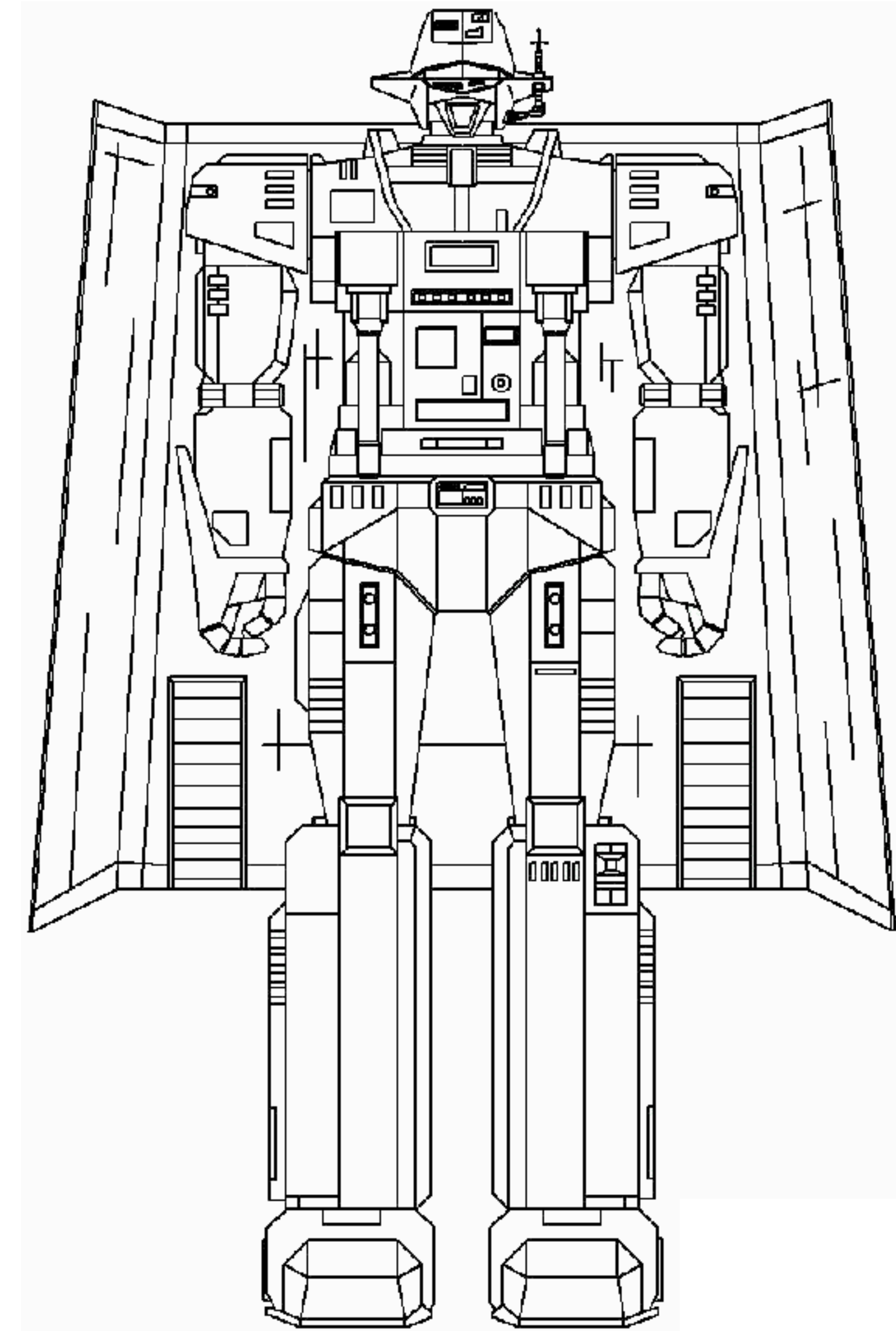
e2 code lab - 002

```
console.log('hello world');
```



next 60 mins

1. statements
 1. if
 2. loops
2. functions and scope of variables
3. program that checks if a number is a prime numbers





statements

if/if-else/switch

1. let you decide if you want to run a part of code or to skip it
2. can be combined in any way

for-loop/while-loop

1. let's you run the same part of your code x amount of times



functions and scope

scope:

1. defines where a variable is accessible from
2. variables of the same name are always the ones defined in the most inner code block.
3. variables initialised through var have function scope
4. variables initialised through let and const are block scope
5. a block is code encapsulated by {}
6. a function scope is encapsulated by a function



is a prime number

we need an algorithm first, so how do we check, if something is a prime number?

9 not dividable by 2 -> could still be prime number
dividable by 3 -> is not a prime number

13 not dividable by 2 -> could still be prime number
not dividable by 3 -> could still be prime number
not dividable by 4 -> could still be prime number

...

not dividable by ? -> could still be prime number
-> 13 is a prime number



is a prime number

set divider to 2

as long as divider less than sqrt of number do:

 number % divider === 0 ? -> return false

 else add 1 to divider

jump to start of loop again

if % was never null, return false



discussion

