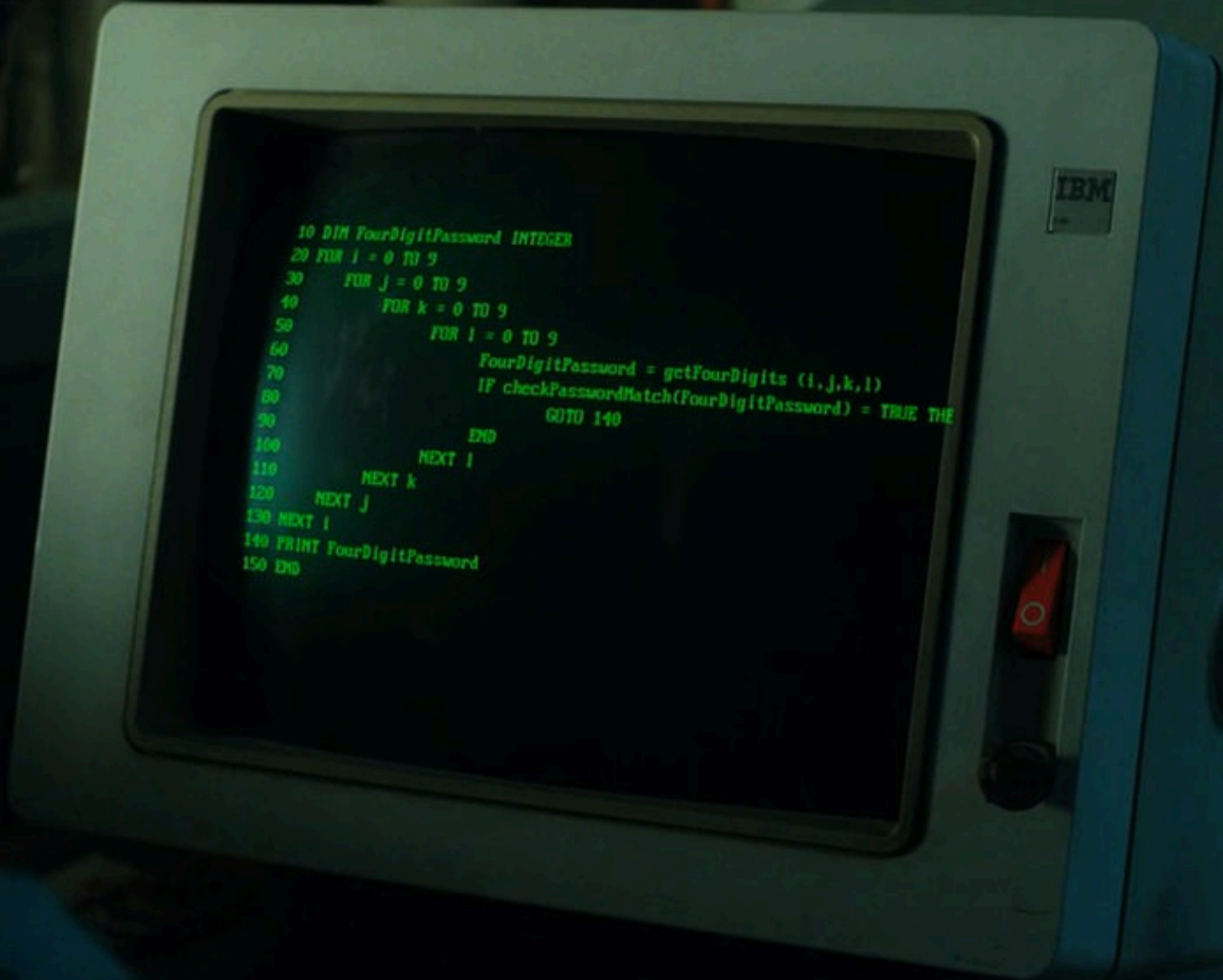


CS50





SPOILER ALERT

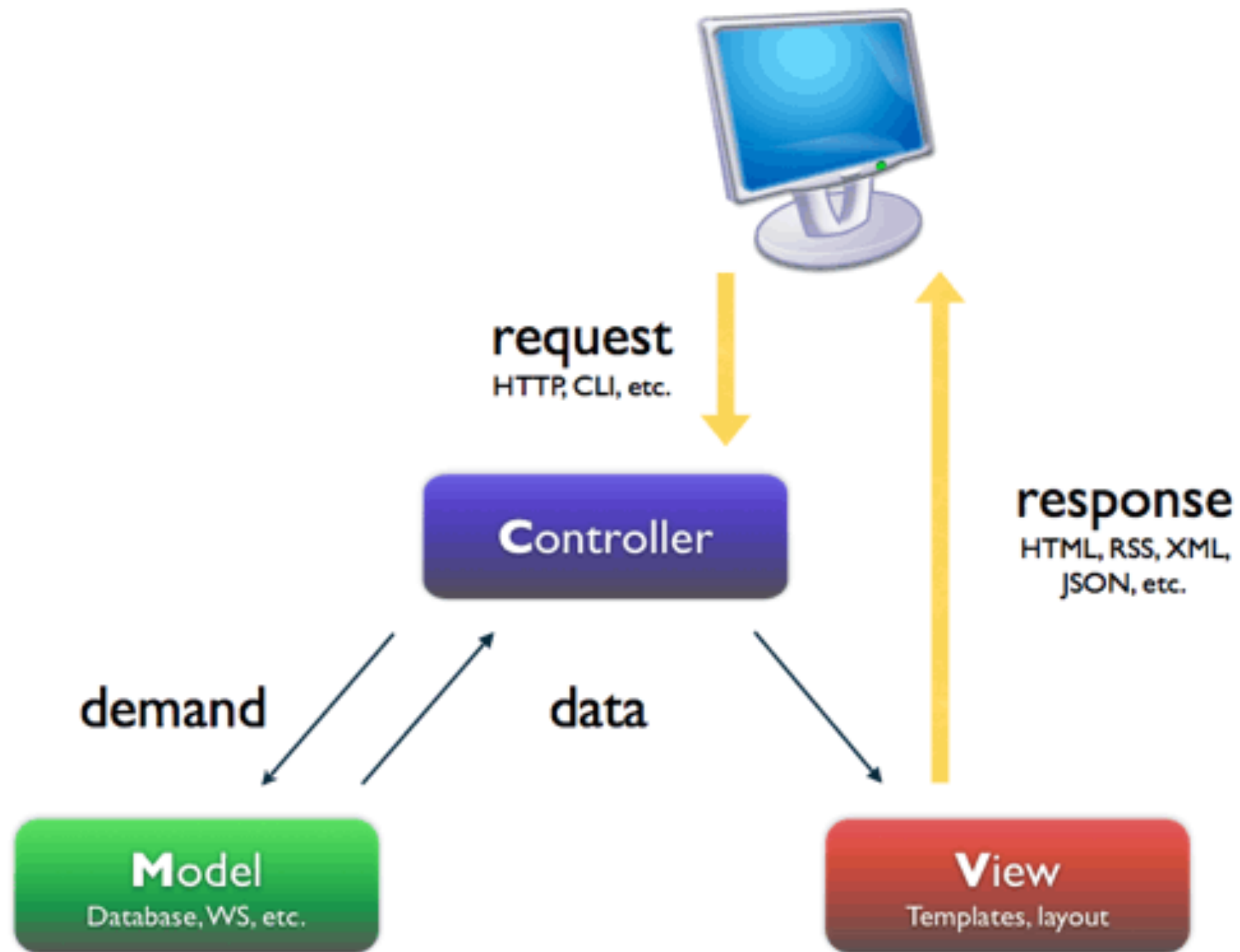


The image shows a vintage IBM monitor with a light blue frame. On the right side of the frame, there is an IBM logo and a red power switch. The screen displays a BASIC program in green text. The program is designed to find a four-digit password by iterating through all possible combinations of four digits (0-9). The code includes variable declarations, nested loops for each digit, a function call to get digits, a conditional check for password match, and a goto statement to skip to the print statement if the password is found. The program ends with a print statement and an end command.

```
10 DIM FourDigitPassword INTEGER
20 FOR I = 0 TO 9
30   FOR J = 0 TO 9
40     FOR K = 0 TO 9
50       FOR L = 0 TO 9
60         FourDigitPassword = getFourDigits (I,J,K,L)
70         IF checkPasswordMatch(FourDigitPassword) = TRUE THEN
80           GOTO 140
90       END
100      NEXT L
110     NEXT K
120   NEXT J
130 NEXT I
140 PRINT FourDigitPassword
150 END
```

[computer beeps]


```
10 DIM FourDigitPassword INTEGER
20 FOR I = 0 TO 9
30     FOR J = 0 TO 9
40         FOR K = 0 TO 9
50             FOR L = 0 TO 9
60                 FourDigitPassword = getFourDigits (I,J,K,L)
70                 IF checkPasswordMatch(FourDigitPassword) = TRUE THEN
80                     GOTO 140
90             END
100        NEXT L
110    NEXT K
120    NEXT J
130 NEXT I
140 PRINT FourDigitPassword
150 END
```







C



Python



SQL



JavaScript

```
function foo(bar, baz)
{
    ...
}
```

```
function(bar, baz)
{
    ...
}
```



```
let i = 0;
```

$i < 50$

$$x < y$$

```
do  
{  
    ...  
}  
while (true);
```

```
while (true)
{
    ...
}
```

```
for (let i = 0; i < 50; i++)  
{  
    ...  
}
```



```
for (let value of array)
{
    ...
}
```

```
for (let key in object)
{
    ...
}
```

```
if (x < y)
{
    ...
}
else if (x > y)
{
    ...
}
else
{
    ...
}
```

```
let numbers = [4, 8, 15, 16, 23, 42];
```

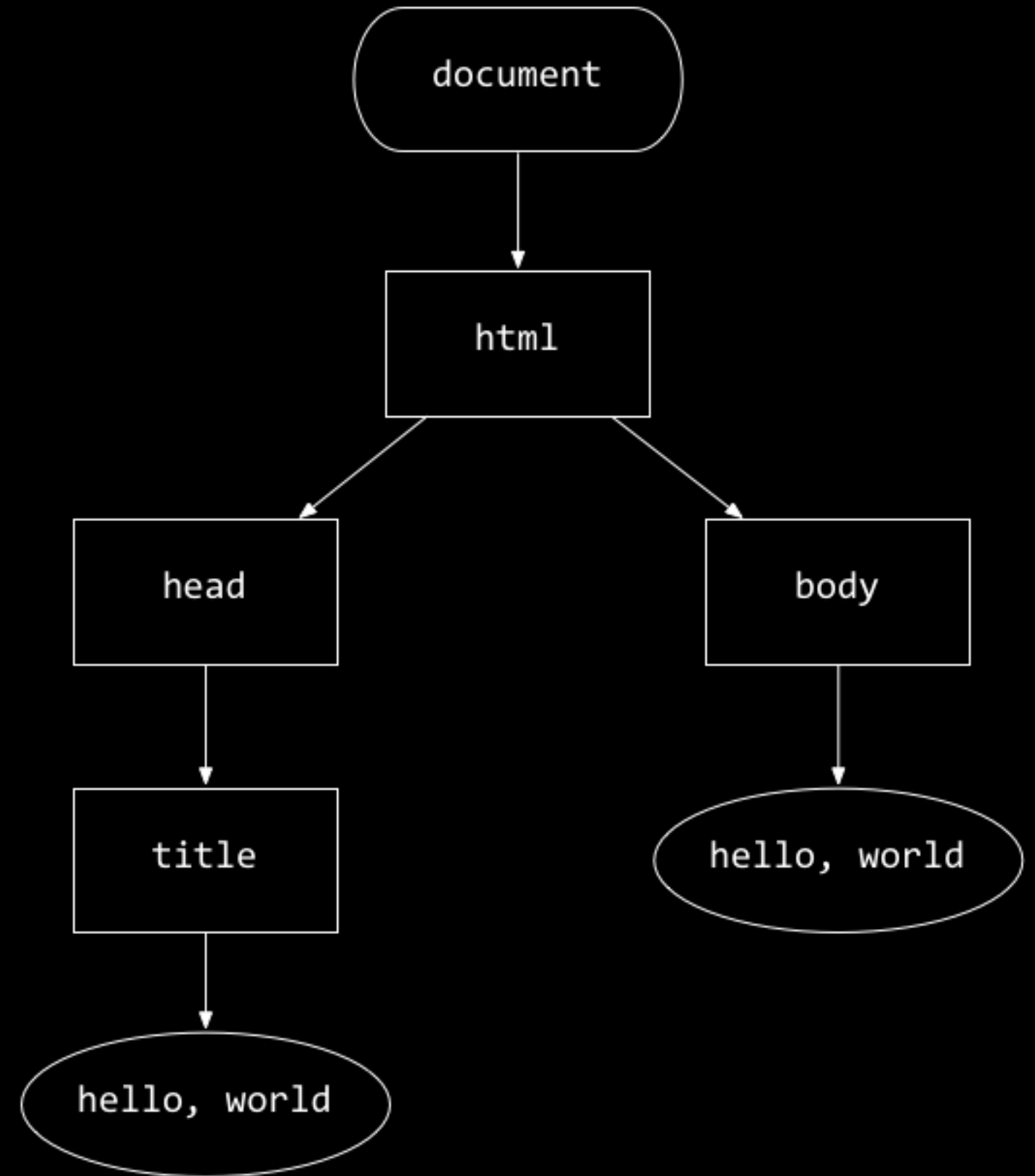
```
let quote = {  
    name: "Netflix, Inc.",  
    price: 199.32,  
    symbol: "NFLX"  
};
```

```
{  
  "name": "Netflix, Inc.",  
  "price": 199.32,  
  "symbol": "NFLX"  
}
```



```
<!DOCTYPE html>

<html>
  <head>
    <title>hello, world</title>
  </head>
  <body>
    hello, world
  </body>
</html>
```



click
mousedown
mouseup
mouseover
drag
keypress
load
unload
change
submit
focus
touchmove
...

- events
- callbacks
- Ajax

jQuery.getJSON

`$.getJSON`

CS50

