

CS50 for JDs

Web Development

code.cs50.io



shorts

HTTP

<https://www.example.com>

<https://www.example.com/path>

<https://www.example.com/path?key=value>

<https://www.example.com/path?key=value&key=value>

HTML

tags

attributes

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

http-server

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <head>
```

```
    <title>
```

```
      hello, title
```

```
    </title>
```

```
  </head>
```

```
  <body>
```

```
    hello, body
```

```
  </body>
```

```
</html>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <head>
```

```
    <title>
```

```
      hello, title
```

```
    </title>
```

```
  </head>
```

```
  <body>
```

```
    hello, body
```

```
  </body>
```

```
</html>
```



```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <head>
```

```
    <title>
```

```
      hello, title
```

```
    </title>
```

```
  </head>
```

```
  <body>
```

```
    hello, body
```

```
  </body>
```

```
</html>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <head>
```

```
    <title>
```

```
      hello, title
```

```
    </title>
```

```
  </head>
```

```
  <body>
```

```
    hello, body
```

```
  </body>
```

```
</html>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <head>
```

```
    <title>
```

```
      hello, title
```

```
    </title>
```

```
  </head>
```

```
  <body>
```

```
    hello, body
```

```
  </body>
```

```
</html>
```

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <head>
```

```
    <title>
```

```
      hello, title
```

```
    </title>
```

```
  </head>
```

```
  <body>
```

```
    hello, body
```

```
  </body>
```

```
</html>
```

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

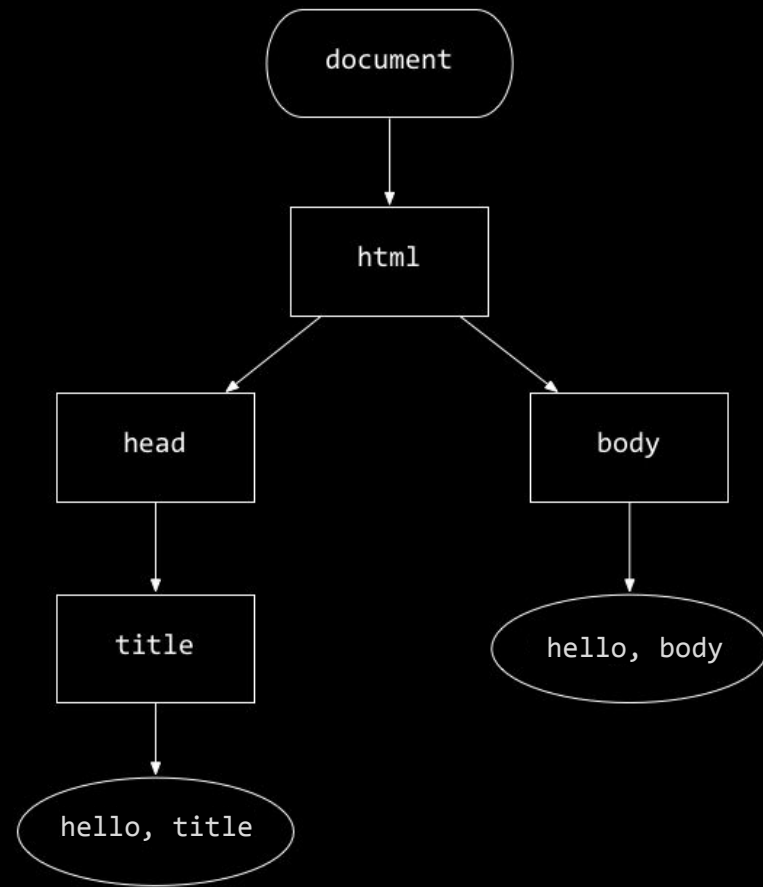
```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```



```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```



CSS

properties

type selector

class selector

ID selector

attribute selector

...

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <style>

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

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <link href="styles.css" rel="stylesheet">
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

frameworks

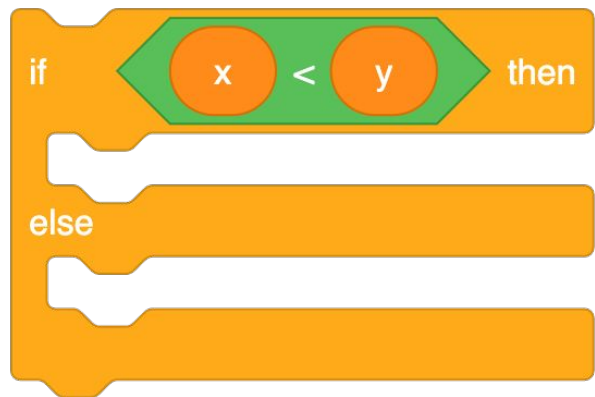
JavaScript

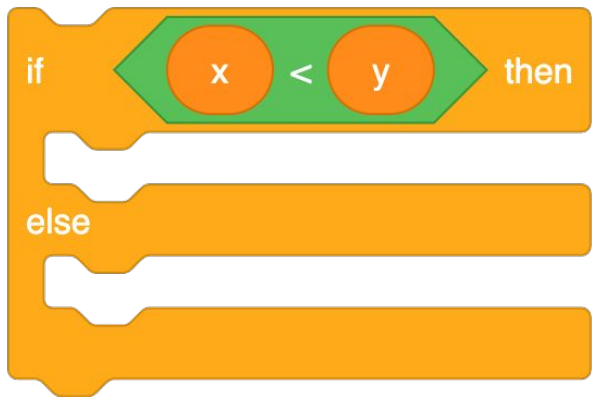
conditionals



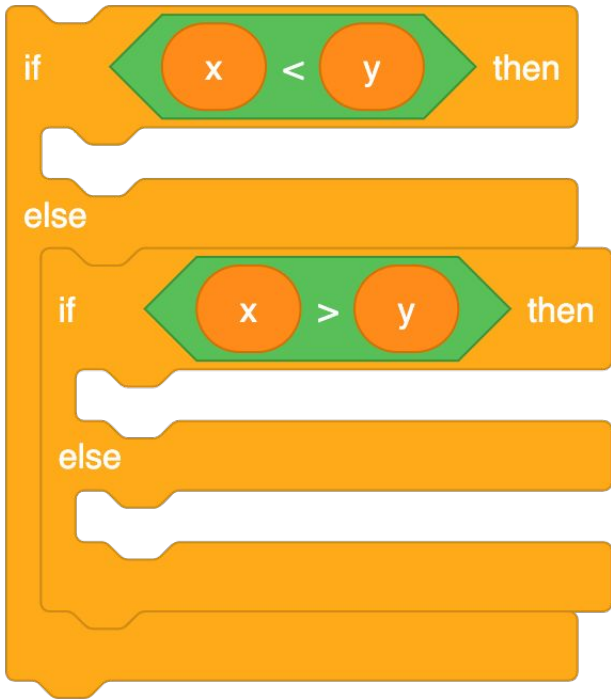


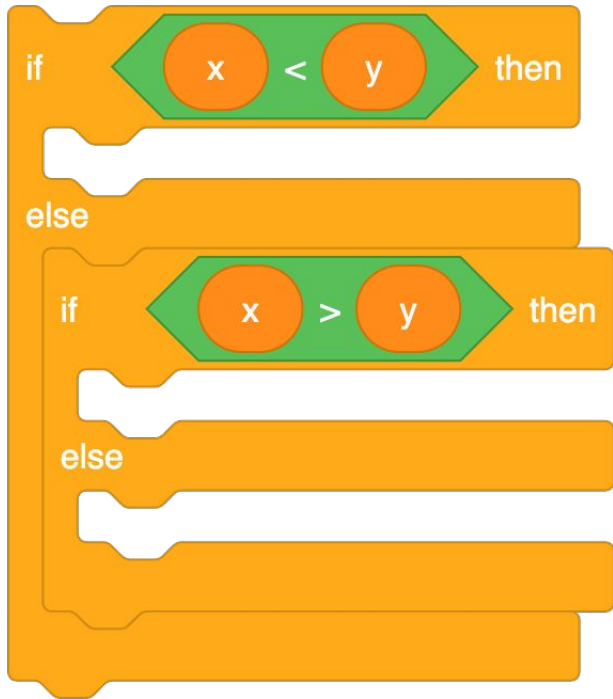
```
if (x < y)
{
}
```





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

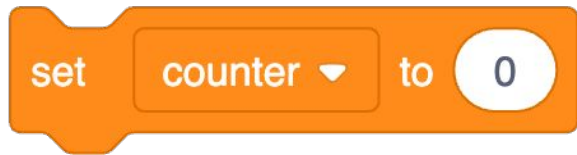




```
if (x < y)
{
}
else if (x > y)
{
}
else
{
}
```


variables





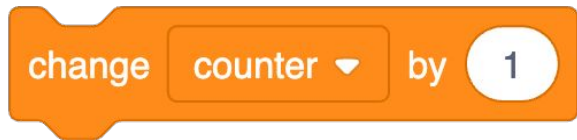
```
let counter = 0;
```

change

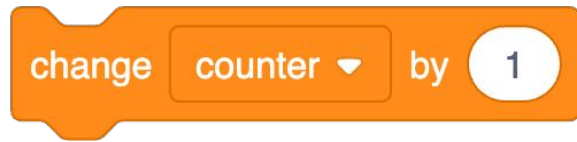
counter ▼

by

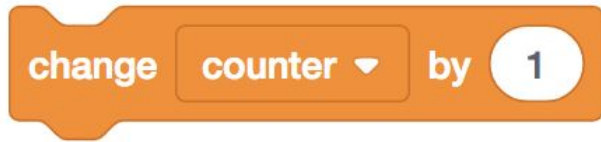
1



```
counter = counter + 1;
```



```
counter += 1;
```



```
counter++;
```

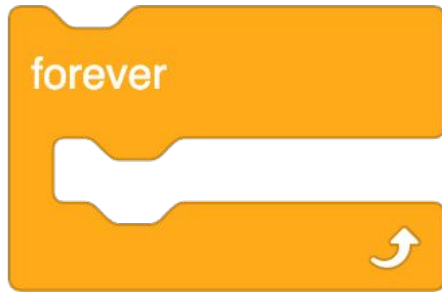
loops





```
for (let i = 0; i < 3; i++)  
{  
  
}  
}
```

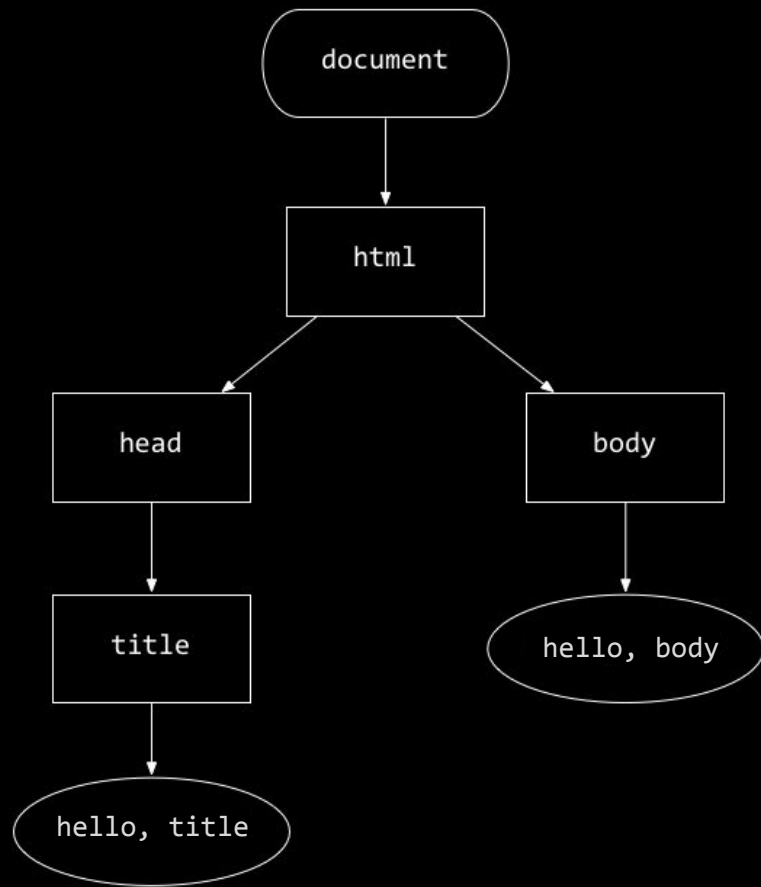




```
while (true)
{
}
```

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```



```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <script>

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

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <script src="scripts.js"></script>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```



```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
    <script>

    </script>
  </body>
</html>
```

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
    <script src="scripts.js"></script>
  </body>
</html>
```

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

Lab 2

Assignment 5

Office Hours

CS50 for JDs

Web Development