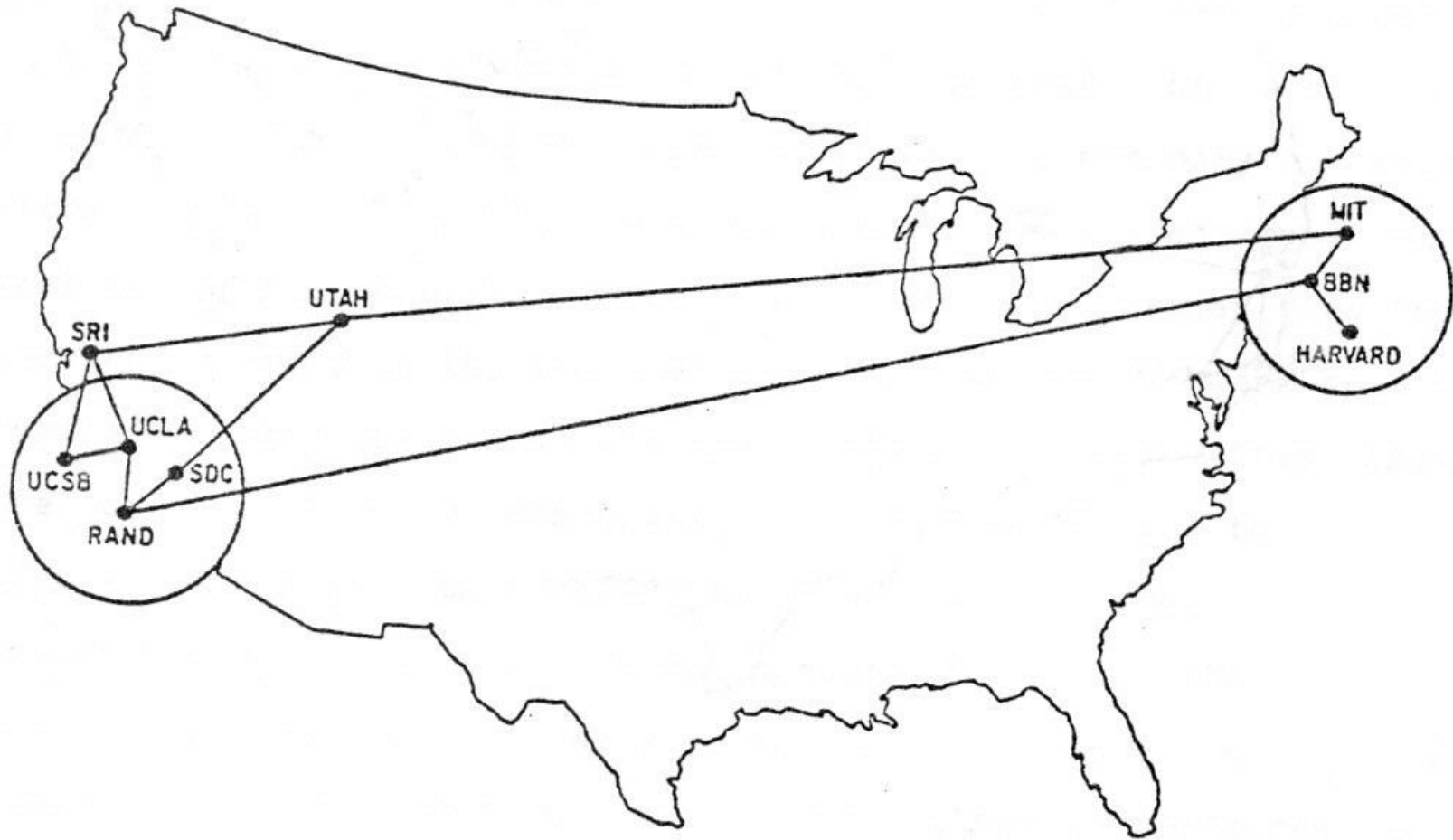


This is CS50

internet



The ARPANET in December 1969



routers



TCP/IP

IP



###.#

TCP

80 HTTP

443 HTTPS

...

DNS

**Domain Name**

**IP Address**

**Fully Qualified Domain Name**

**IP Address**

HTTP

HTTPS



<https://www.example.com>

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

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

<https://www.example.com/file.html>

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

<https://www.example.com/folder/file.html>

<https://www.example.com/folder/file.html>

<https://www.example.com/folder/file.html>



<https://www.example.com/folder/file.html>

<https://www.example.com/folder/file.html>

<https://www.example.com/folder/file.html>

GET

POST

...

GET / HTTP/1.1

Host: www.example.com

...

HTTP/1.1 200 OK

Content-Type: text/html

...

GET / HTTP/1.1

Host: www.harvard.edu

...

HTTP/1.1 301 Moved Permanently  
Location: <https://www.harvard.edu/>

...



HTTP/1.1 404 Not Found  
Content-Type: text/html

...

200 OK  
301 Moved Permanently  
302 Found  
304 Not Modified  
307 Temporary Redirect  
401 Unauthorized  
403 Forbidden  
404 Not Found  
418 I'm a Teapot  
500 Internal Server Error  
503 Service Unavailable  
...

GET / HTTP/1.1

Host: safetyschool.org

...

GET / HTTP/1.1

Host: www.harvardsucks.org

...



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>
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  </body>
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    </title>
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  </head>
```

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  <body>
```

```
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```

```
  </body>
```

```
</html>
```

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<!DOCTYPE html>
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<html lang="en">
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    </title>
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```
  </head>
```

```
  <body>
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```

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  </body>
```

```
</html>
```

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

```
  </head>
```

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  <body>
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```
    hello, body
```

```
  </body>
```

```
</html>
```

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

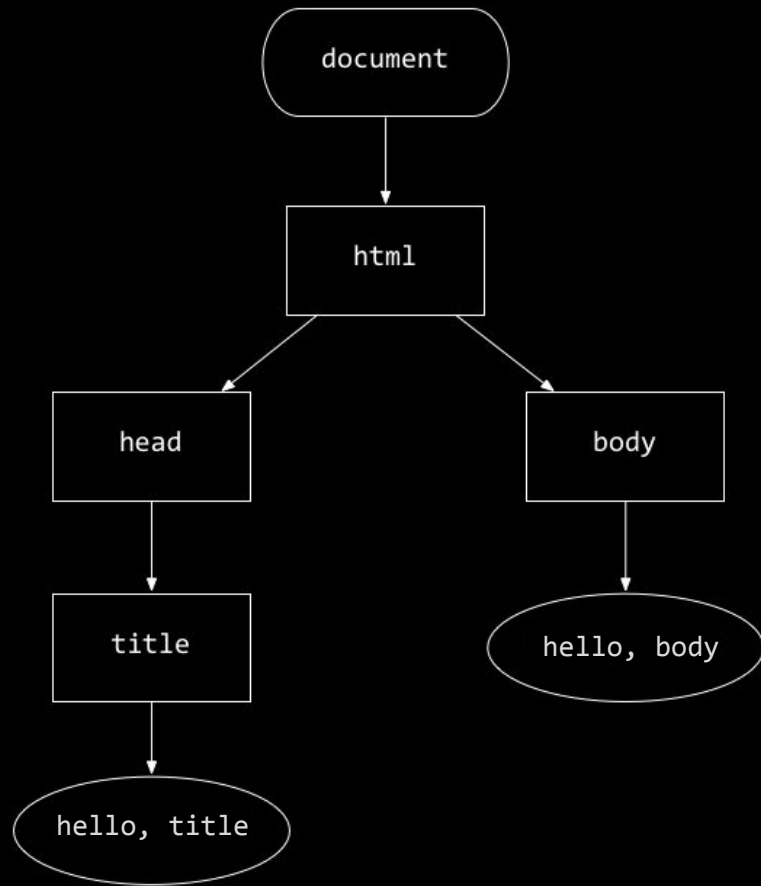
<html lang="en">
  <head>
    <title>
      hello, title
    </title>
  </head>
  <body>
    hello, body
  </body>
</html>
```

```
<!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>
```



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

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

GET /search?q=cats HTTP/1.1

Host: www.google.com

...



[validator.w3.org](https://validator.w3.org)

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



About Store

Gmail Images



Sign in

# Google

Google Search

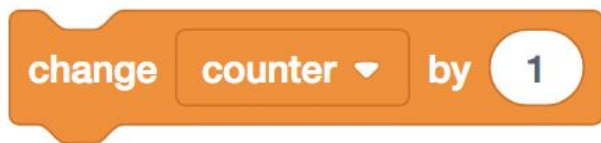
I'm Feeling Lucky

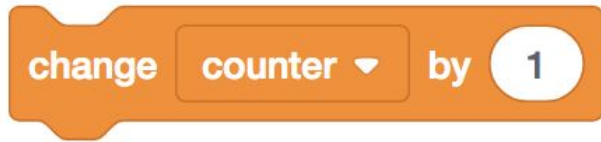
JavaScript



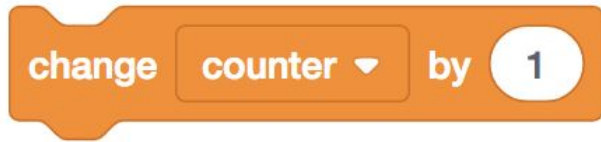


```
let counter = 0;
```





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

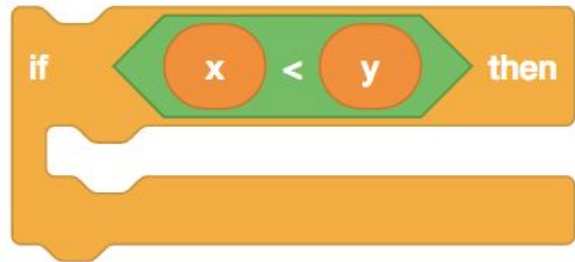


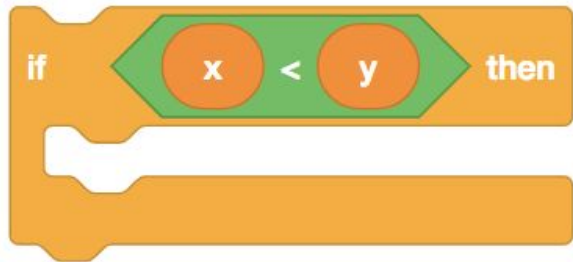
```
counter += 1;
```



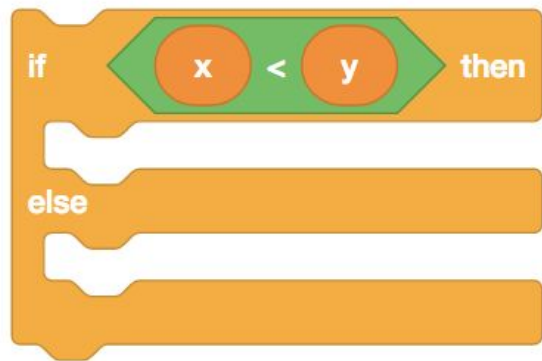
```
counter++;
```

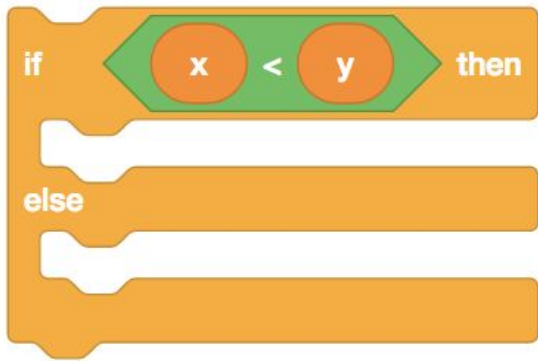




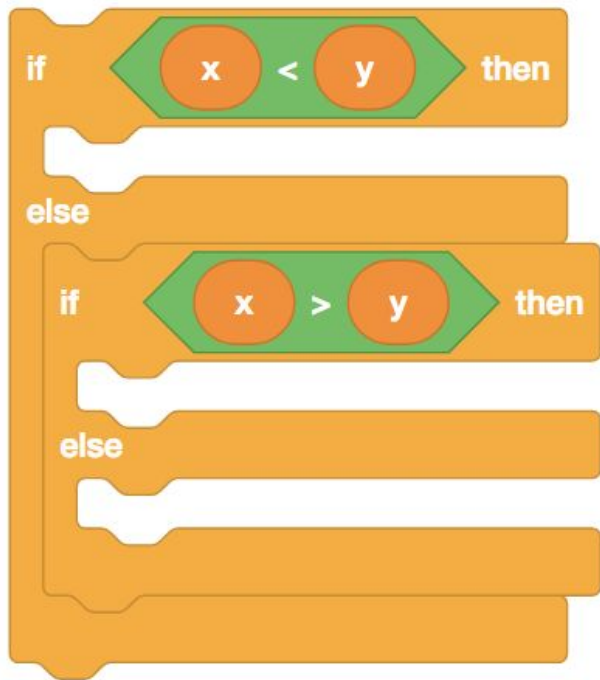


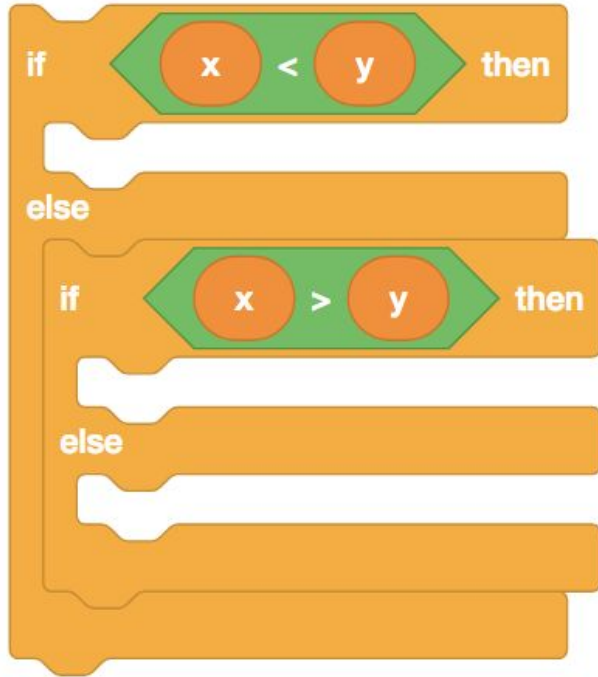
```
if (x < y)
{
}
```





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





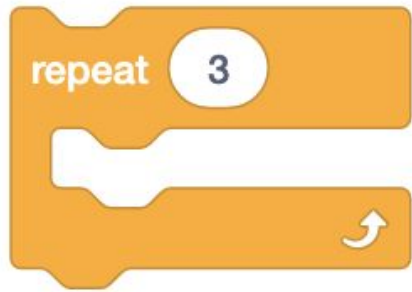
```
if (x < y)
{
}
else if (x > y)
{
}
else
{
}
```





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





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

```
<!DOCTYPE html>
```

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

```
  <head>
```

```
    <title>
```

```
      hello, title
```

```
    </title>
```

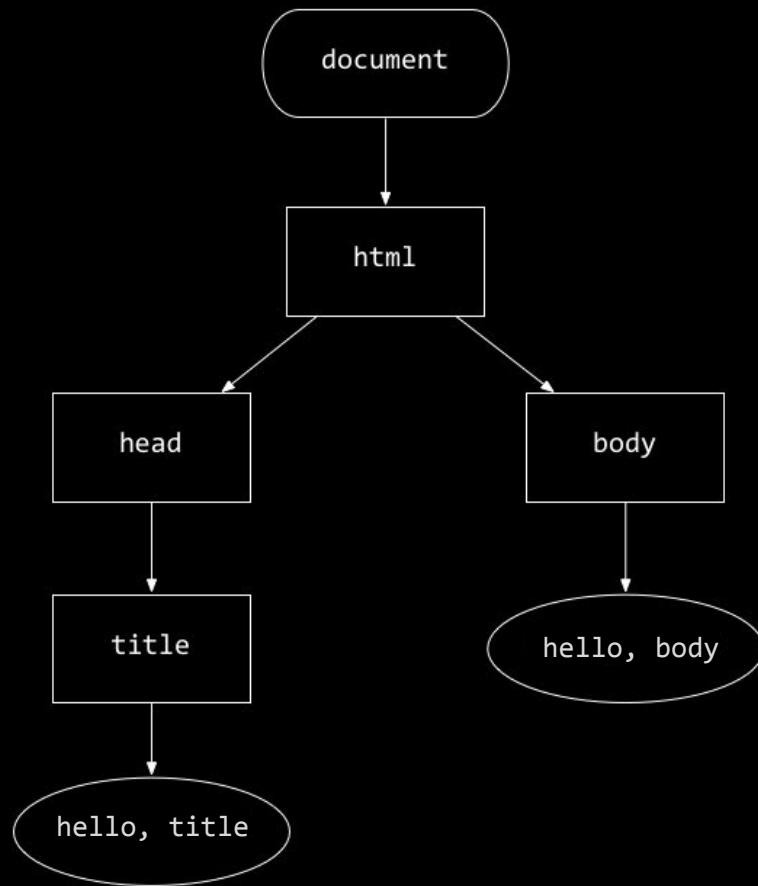
```
  </head>
```

```
  <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  
...



This is CS50