

# CS50 for MBAs

Web Programming

# Last Time

Database Design

- **iOS Programming with Swift**
- Recruiting Software Engineers
- Full-Stack Development with Node.js
- Data Visualization with D3

# This Time

Web Programming

- back end, front end
- JavaScript
- APIs

back end, front end

DOM

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>hello, world</title>
```

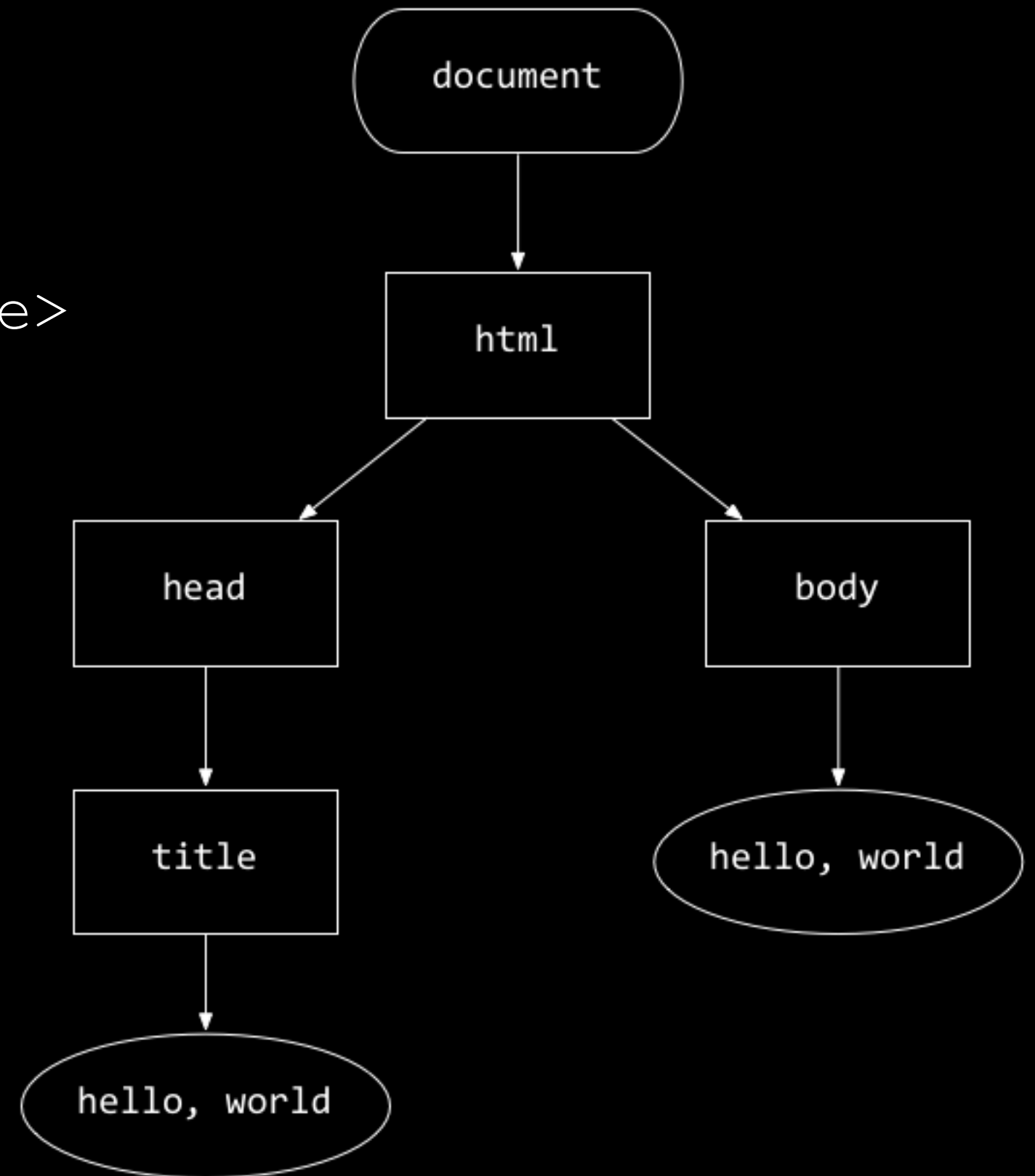
```
  </head>
```

```
  <body>
```

```
    hello, world
```

```
  </body>
```

```
</html>
```





events

when  clicked

say hello, world

# functions

A Scratch 'say' block, which is a purple block with a notch on the left side. It contains the text 'say' in white and 'hello, world' in black.

*say* hello, world

# functions



```
window.alert("hello, world");
```

# loops



# loops



```
while (true)
{
    window.alert("hello, world");
}
```

# loops



# loops



```
for (var i = 0; i < 10; i++)  
{  
    window.alert("hello, world");  
}
```



# variables



# variables



```
var counter = 0;
while (true)
{
    window.alert(counter);
    counter++;
}
```

# Boolean expressions

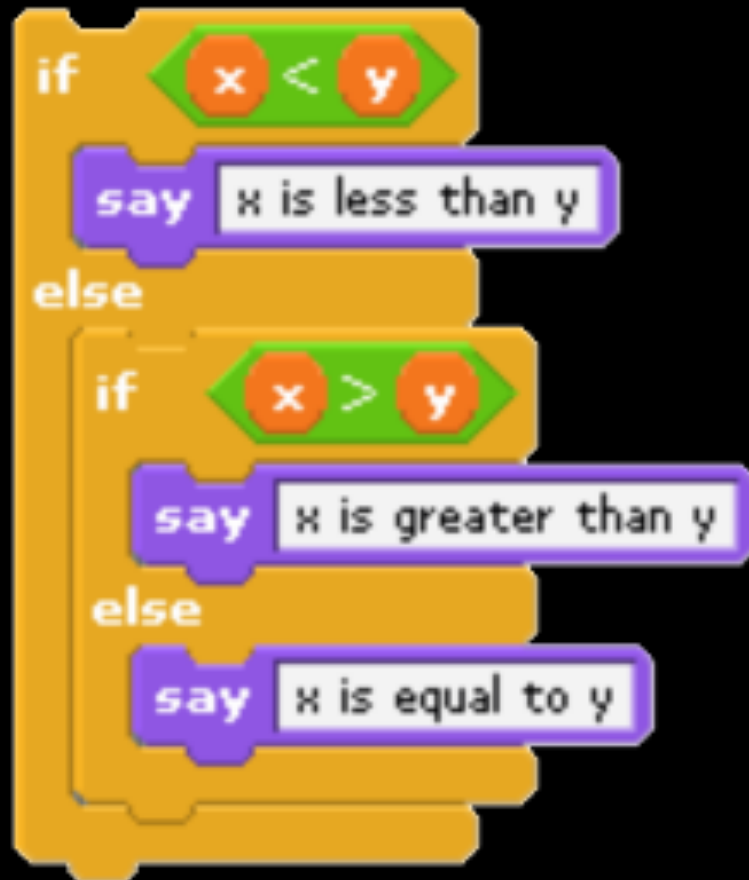


# Boolean expressions

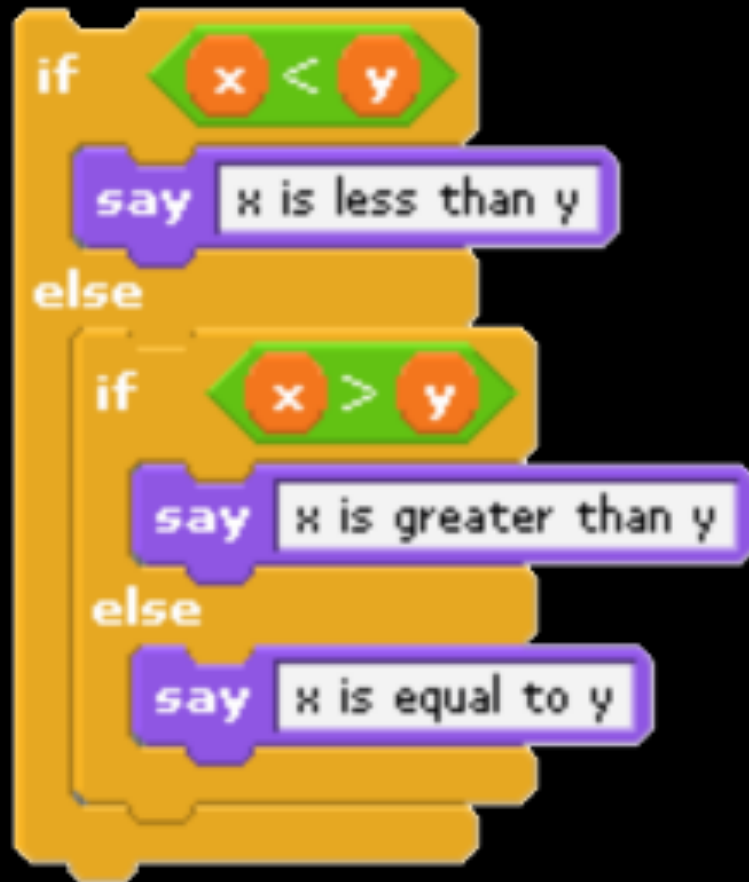


```
( x < y )  
( ( x < y ) && ( y < z ) )
```

# conditions



# conditions



```
if (x < y)
{
    window.alert("x is less than y");
}
else if (x > y)
{
    window.alert("x is greater than y");
}
else
{
    window.alert("x is equal to y");
}
```

examples

<http://nifty.stanford.edu/2011/parlante-image-puzzle/>





<https://developers.google.com/maps/documentation/javascript/tutorial>

AlzaSyAmk7cP6WPIqLXgIP4mIQKg7RTDVxhKm50

<http://bit.ly/mba-key>

# Next Time

Mobile Strategies

- hybrid apps, native apps, web apps

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Web Programming