Program Flow



Mark Zamoyta
SOFTWARE DEVELOPER AND EDUCATOR
@markzamoyta



Introduction



Conditionals Using if()

if ... else

switch and case

Looping with for()

Looping with while()



Conditionals Using if()



if() Statement

```
if (5 === 5) {
                        // true
   console.log('Yes');
if (5 > 10) {
                         // false
   console.log('No');
if (5 >= 5) {
                          // true
   console.log('Yes');
```

if() Statement

```
let state = 'FL';
let taxPercent = 0;

if (state === 'FL') {
   taxPercent = 7;
}
```



if() Statement

```
let state = 'FL';
let taxPercent = 7;

if (state !== 'FL') {
   taxPercent = 0;
}
```



Truthy and Falsy

falsy tr

truthy

false

Everything NOT falsy

0

true

"" or " (empty strings)

0.5

null

"O"

undefined

NaN



if ... else



```
if() ... else
```

```
let state = 'FL';
let taxPercent;
if (state === 'FL') {
   taxPercent = 7;
else {
   taxPercent = 0;
console.log(taxPercent);
```



```
if() ... else
```

```
let state = 'FL';
let taxPercent = 0;
if (state === 'FL') {
   taxPercent = 7;
else if (state === 'NY') {
   taxPercent = 8.875;
console.log(taxPercent);
```



switch and case



switch() Statement

```
let state = 'TX';
switch(state) {
    case 'NY':
        console.log('New York');
        break;
    case 'TX':
        console.log('Texas');
        break;
    default:
        console.log('Unknown');
        break;
```

Looping with for()



for() Loop

```
for (let i = 0; i < 3; i++) {
    console.log(i);
}
// 0 1 2</pre>
```



Looping with while()



while() Loop

```
let count = 1;
while (count < 5) {
   console.log(count);
   count++;
}
// 1 2 3 4</pre>
```



Adding Loops to Blackjack



Summary



if ... else

- Truthy and Falsy

switch and case

- Remember to break:

for Loops

- for (let i=0; i<5; i++) { ... }</pre>

while Loops

