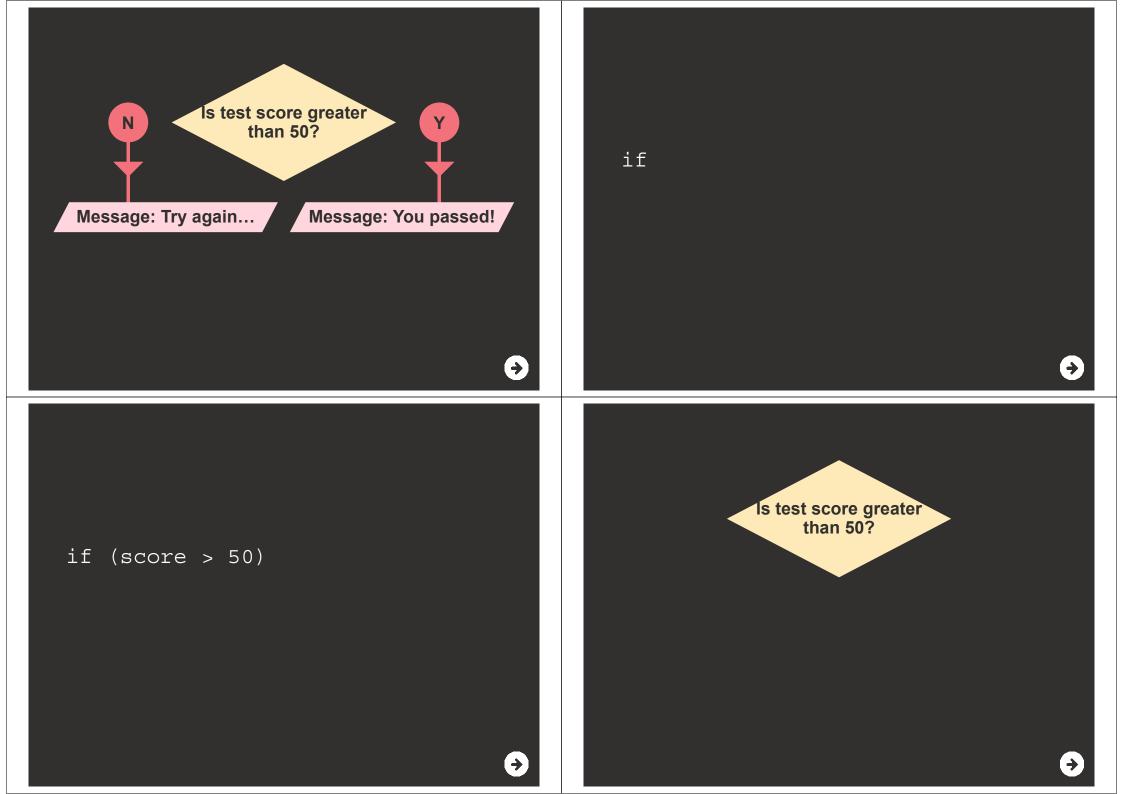


CHAPTER 4

DECISIONS & LOOPS

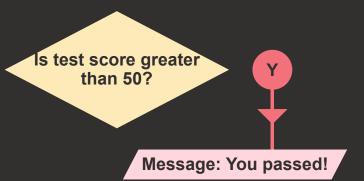
A script can do different things depending on what values it has been passed.

MAKING DECISIONS

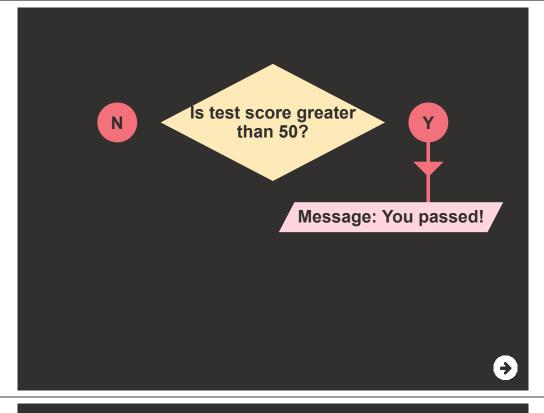


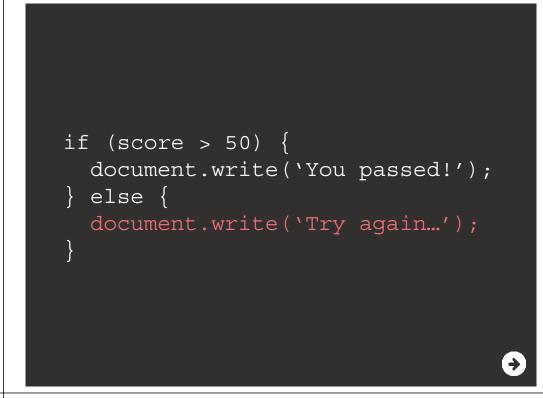
```
if (score > 50) {
 document.write('You passed!');
```

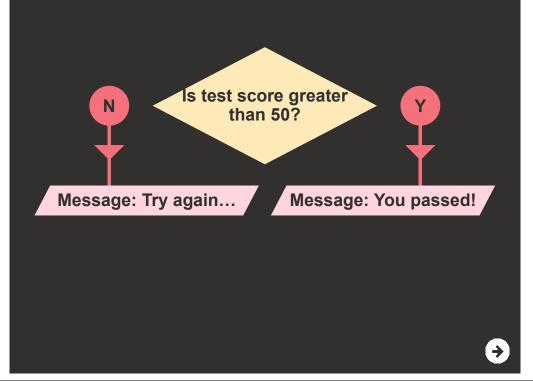


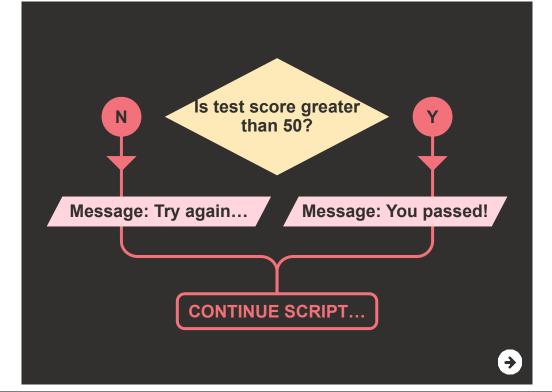


```
if (score > 50) {
  document.write('You passed!');
} else {
}
```





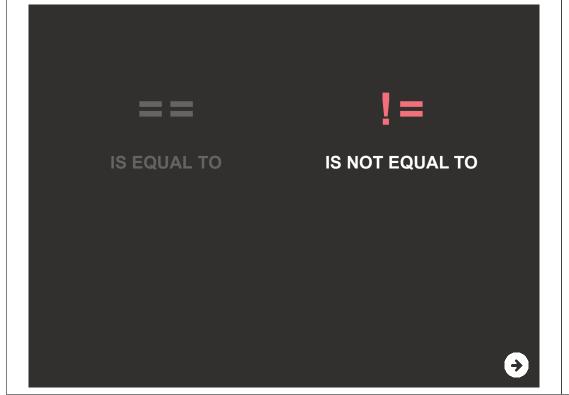


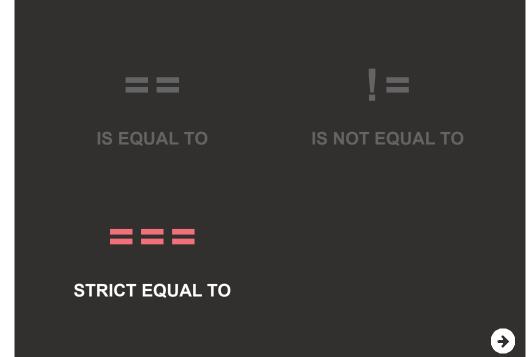


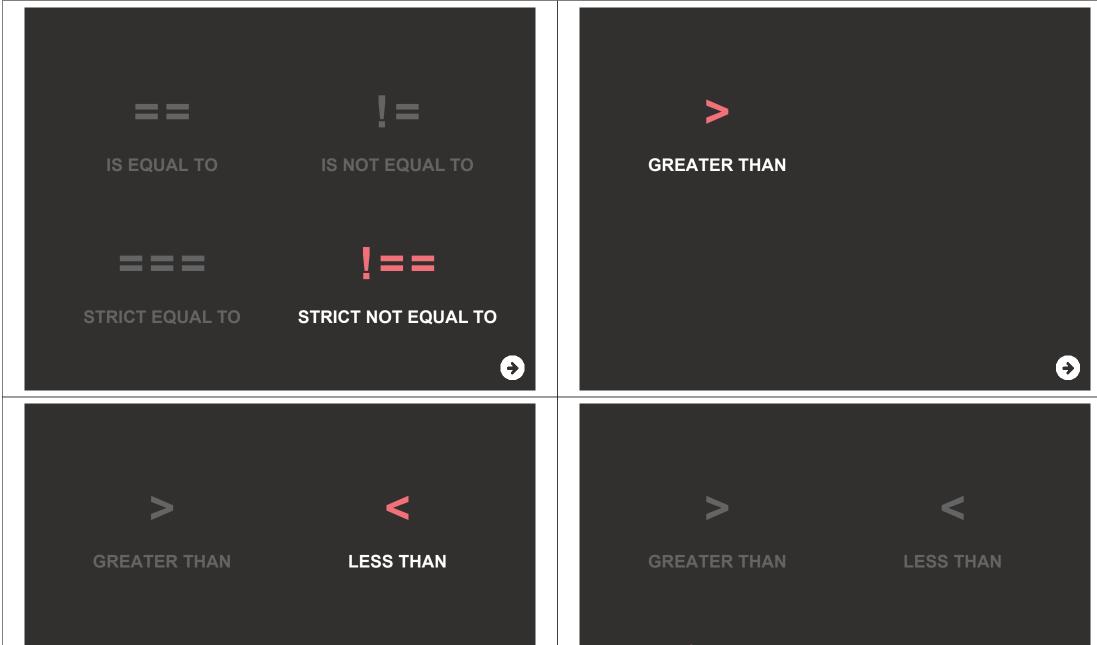
COMPARISON OPERATORS



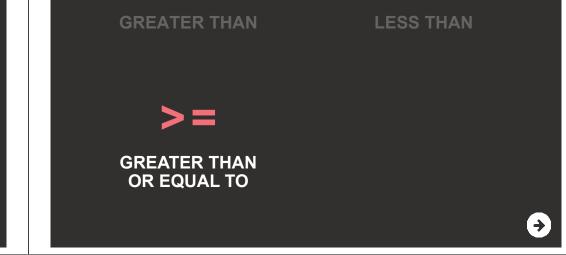








 \odot



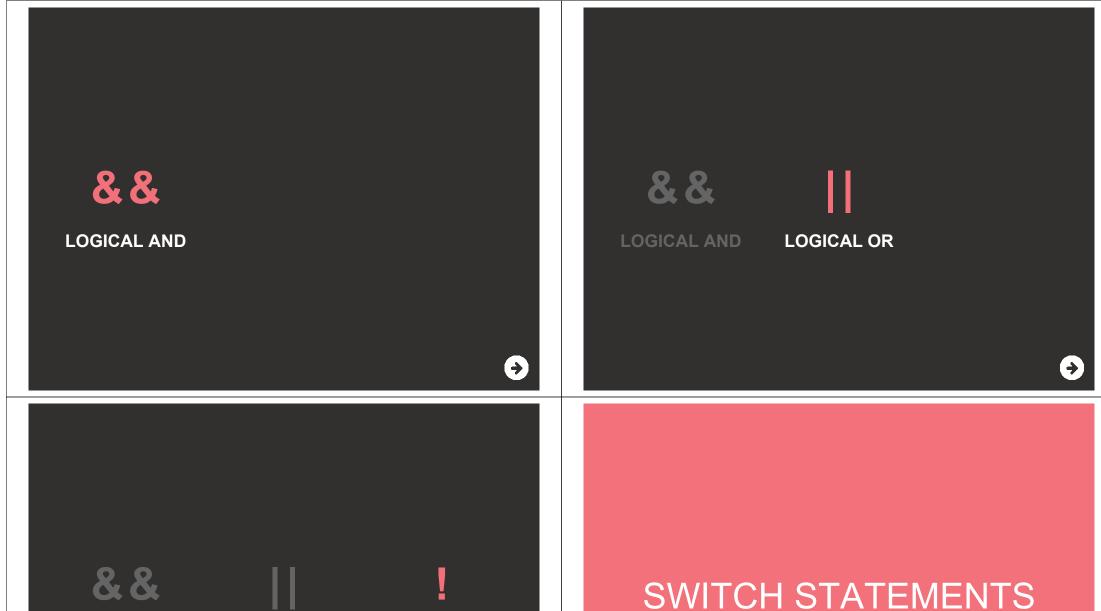


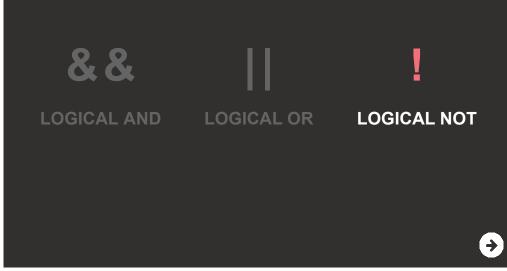
LOGICAL OPERATORS

```
3
```

```
if (score > 75)&&(score < 95) {
  document.write('Very good!');
}</pre>
```

```
if (score > 75)&&(score < 95) {
  document.write('Very good!');
}</pre>
```





```
switch (level) {
switch
 case 'One':
                                                       case 'One':
   title = 'Level 1';
   break;
                                                       case 'Two':
                                                         title = 'Level 2';
                                                         break;
```

```
switch (level) {
    case 'One':
        title = 'Level 1';
        break;

    case 'Two':
        title = 'Level 2';
        break;

    case 'Three':
        title = 'Level 3';
        break;
```

```
switch (level) {
   case 'One':
      title = 'Level 1';
      break;

   case 'Two':
      title = 'Level 2';
      break;

   case 'Three':
      title = 'Level 3';
      break;

   default:
      title = 'Test';
      break;
}
```

LOOPS

```
for (var i = 0; i < 3; i++) {
   document.write(i);
}</pre>
```

```
KEYWORD
for (var i = 0; i < 3; i++) {
  document.write(i);
}</pre>
```

```
condition(counter)

for (var i = 0; i < 3; i++) {
  document.write(i);
}</pre>
```

The variable i is declared and set a value of 0

```
for (var i=0; i<3; i++) {
  document.write(i);
}
```

Every time the loop is run, the condition is checked to see if i is less than 3

```
for (var i = 0; i < 3; i++) {
  document.write(i);
}</pre>
```

```
If i is less than 3, the code block is run

for (var i = 0; i < 3; i++) {
   document.write(i);
}</pre>
```

The variable ${\tt i}$ can be used inside the loop (here it is used to write its value to the page)

```
for (var i = 0; i < 3; i++) {
   document.write(i);
}</pre>
```

When the code inside the curly braces has been executed, the variable i is incremented by 1

```
for (var i = 0; i < 3; i++) {
  document.write(i);
}</pre>
```

ANATOMY OF A LOOP

