



Control Structures



LESSON OBJECTIVES

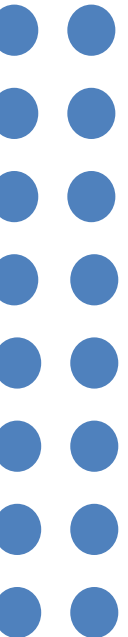
- 
- Implement Conditional logic through code.
 - Iteration through arrays and apply conditional logic
- 

Conditional statements

- Conditional statements are used to perform different actions based on different conditions.

Three ways to implement conditional logic:

1. If and else statements
2. Switch statements
3. Ternary Operator (Advanced but super efficient)

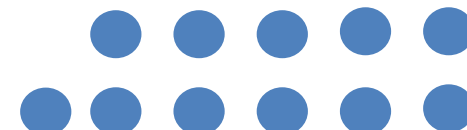


IF and Else Statements

- if
- condition
- else if
- else

~~~code example to follow~~~

```
if (condition){  
    // Type code here  
}  
// else if condition is not compulsory  
else if(condition){  
    // Type code here  
} else{  
    // Type code here  
}
```

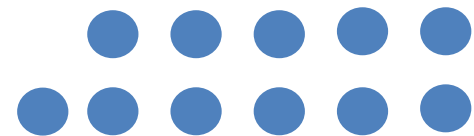


# Switch Statements (Variation 1)

- switch
- key and value
- case
- break
- default

~~~code example to follow~~~

```
switch (key) {  
    case value:  
        break;  
  
    default:  
        break;  
}
```

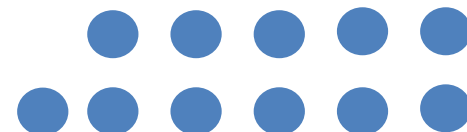


Switch Statements (Variation 2)

- switch
- true and comparisonOperator
- case
- break
- default

~~~code example to follow~~~

```
switch (true) {  
    case comparisonOperator:  
  
        break;  
  
    default:  
        break;  
}
```

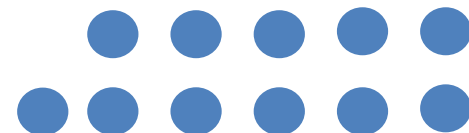


# Ternary Operator

- condition
- valueIsTrue
- valueIsFalse

~~~code example to follow~~~

```
condition ? valueIsTrue : valueIsFalse
```



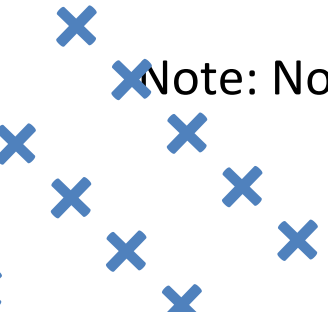
Loops

- Loop statements are the primary mechanism for telling a JavaScript interpreter to execute statements again and again until a specified condition is met.

Three requirements for a loop:

1. initial expression (starting point)
2. condition
3. increment/decrement expression (increase or decrease the starting point)

Note: Not all loops will require a condition an increment value



Loops(cont)



5 TYPES OF LOOPS

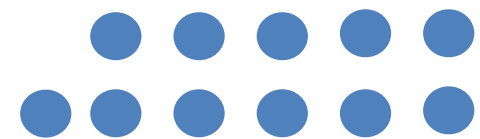
- For loop
- while loop
- do while loop
- for of loop
- for in loop

For Loop

- for
- initialExpression(starting point)
- condition
- initialExpression++(initialExpression on increase)

~~~code example to follow~~~

```
for (initialExpression; condition; initialExpression++) {  
    // type code here  
}
```



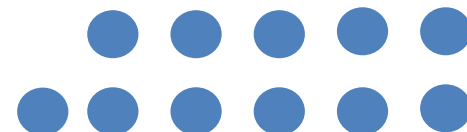
# While Loop

- while
- condition=5
- condition<10

~~~code example to follow~~~

```
let condition = 5

while (condition<10) {
  // type code here
}
```



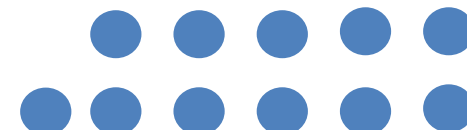
Do While Loop

- while
- condition=5
- condition<10

~~~code example to follow~~~

```
let condition = 5

do {
  // type code here
} while(condition<10)
```

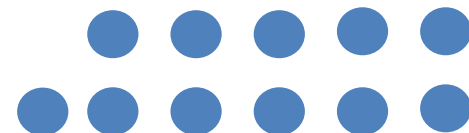


# For-of Loop

- for
- const
- iterator
- array

~~~code example to follow~~~

```
for (const iterator of array) {  
    // type code here  
}
```



For-in Loop

- for
- const
- iterator
- array

Note: This loop can work with arrays
and objects

~~~code example to follow~~~

```
for (const iterator in array) {  
    // type code here  
}
```

