

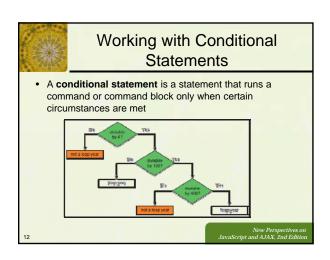
```
Creating Program Loops

• To create a Do/While loop, use the following syntax:

do {
    commands
    }
    while (continue);

• To loop through the contents of an array, enter the For loop:
    for (var i = 0; i < array.length; i++) {
        commands involving array[i]
    }

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```





Working with Conditional Statements

• To test a single condition, use the construction:

```
if (condition) {
    commands
```

 To test between two conditions, use the following construction:

```
if (condition) {
   commands if condition is true
} else {
   commands if otherwise
}
```

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Working with Conditional Statements

· To test multiple conditions, use the construction:

```
if (condition 1) {
    first command block
} else if (condition 2) {
    second command block
} else if (condition 3) {
    third command block
} else {
    default command block
}
```

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Creating a Switch Statement

 To create a Switch statement to test for different values of an expression, use the structure:

```
switch (expression) {
   case label1: commands1
   break;
   case label2: commands2
   break;
   case label3: commands3
   break;
...
   default: default commands
```

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Managing Program Loops and Conditional Statements

- The break command terminates any program loop or conditional statement
- The syntax for the break command is:
 - break;
- The continue command stops processing the commands in the current iteration of the loop and jumps to the next iteration
 - continue;

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Managing Program Loops and Conditional Statements

- Labels are used to identify statements in JavaScript code so that you can reference those statements elsewhere in a program
 - label: statement
 - break label;
 - continue label;

//outer_loop: for(i=1; i=4; i++); document.write("cbr/>"*"outer "+i+", "); //inner_loop: for(j=1; j=4; j++); document.write("inner "+j+""); document.write("inner "+j+""); if(j=x) //break outer_loop;

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Using Multidimensional Arrays

- A matrix is a multidimensional array in which each item is referenced by two or more index values
- In a matrix, each value is referenced by a row index number and column index number
- Although matrices are commonly used in various programming languages, JavaScript does not support them

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