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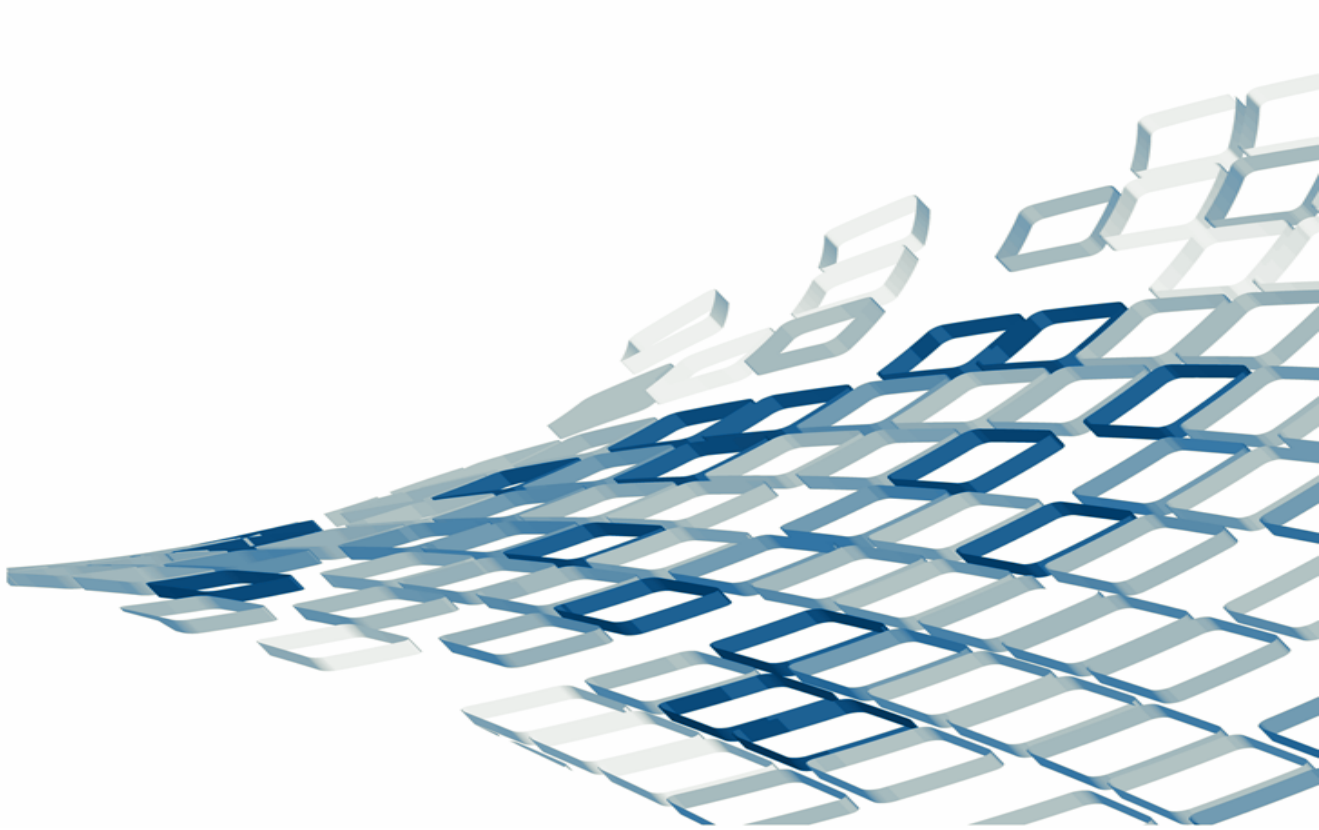

Lesson 4:
Controlling Program Flow in JavaScript

Objectives

- Use the *if...* statement
- Use the *while...* statement
- Use the *do...while* statement
- Use the *for...* statement
- Use the *break* and *continue* statements
- Use the *switch...* statement

Controlling Decisional Program Flow

- Control the execution of JavaScript statements
- Control structure
  - In programming, a statement that uses a comparison operator to make decisions based on Boolean values, or a statement that causes code to execute repeatedly (i.e., loop)

The *if...else* Statement

- A single condition
- Multiple conditions
- Using *if* for conditional program flow
- Multiple conditions in the same expression

The *while* Statement

- The *while* statement
  - Used to execute a block of code for as long as (while) a certain test condition is true
- The *isNaN* method
  - Used to determine whether a given value is a valid number

The *do...while* Statement

- The *do...while* statement
  - Does not check the conditional expression until after the first time through the loop, guaranteeing that the code within the curly braces will execute at least once

The *for* Statement

- The *for* statement
  - Repeats a group of statements for some particular range of values

The *break* Statement

- The *break* statement
  - Used to exit a loop that would otherwise continue to execute

The *continue* Statement

- The *continue* statement
  - Used to force the flow of control back to the top of a loop
- Using *continue* in a *while* loop

The *switch* Statement

- The *switch* statement
  - Compares a value against other values, searching for a match

Summary

- ✓Use the *if...* statement
- ✓Use the *while...* statement
- ✓Use the *do...while* statement
- ✓Use the *for...* statement
- ✓Use the *break* and *continue* statements
- ✓Use the *switch...* statement

Lesson 4 Quiz

1. Which JavaScript statement should you use to force the flow of control back to the top of a loop?

a. break

b. continue

c. switch

d. do...while

Lesson 4 Quiz

1. Which JavaScript statement should you use to force the flow of control back to the top of a loop?

a. break

b. continue

c. switch

d. do...while

Lesson 4 Quiz

2. Which JavaScript statement should you use to execute a block of code for as long as a certain test condition is true, with the guarantee that the code block will execute at least once?

a. do

b. do...while

c. if

d. if...else

Lesson 4 Quiz

2. Which JavaScript statement should you use to execute a block of code for as long as a certain test condition is true, with the guarantee that the code block will execute at least once?

a. do

b. do...while

c. if

d. if...else

Lesson 4 Quiz

3. Which JavaScript statement should you use to compare a value against other values when searching for a match?

a. while

b. if...else

c. for

d. switch

Lesson 4 Quiz

3. Which JavaScript statement should you use to compare a value against other values when searching for a match?

a. while

b. if...else

c. for

d. switch

Lesson 4 Quiz

4. Which JavaScript statement should you use to branch to one of two processes depending on the result of a test condition?

a. if...else

b. for

c. break

d. do...while

Lesson 4 Quiz

4. Which JavaScript statement should you use to branch to one of two processes depending on the result of a test condition?

a. if...else

b. for

c. break

d. do...while

Lesson 4 Quiz

5. Write a for loop that outputs the following:

10

9

8

7

6

5

4

3

2

1

0