

WALTER SAVITCH

# Flow of Control: Loops

Chapter 4

## Java Loop Statements

- A portion of a program that repeats a statement or a group of statements is called a loop.
- The statement or group of statements to be repeated is called the bodyof the loop.
- There must be a means of exiting the loop.

#### The while Statement

- Also called a while loop
- A while statement repeats while a controlling boolean expression remains true
- The loop body typically contains an action that ultimately causes the controlling boolean expression to become false.

### The while Statement

Syntax while (Boolean\_Expression) **Body\_Statement** while (Boolean\_Expression) First\_Statement Second Statement ...

#### The do-while Statement

- Also called a do-while loop
- •Similar to a while statement, except that the loop body is executed at least once
- Syntax
  do
  Body\_Statement

while (Boolean\_Expression);

• Don't forget the semicolon!