# Javascript continued

## Review types & conversions

- each variable holds information of a specific type
  - really means that bits are to be interpreted as info of that type 3 integer
    - 3.00 floating point decimal point
    - "3.00" character string quotes
- $\cdot$  Javascript usually infers types from context, does conversions automatically
  - "Sum = " + sum
  - sum \* sum
  - Special value null
  - Compare "" character string of length 0 NOT SAME AS null
  - Cancel received from prompt yields null
  - OK with no input from prompt yields ""

### **Review control statements**

- If (condition is true) { do these statements} else {do these statements instead}
- While (condition is true) {do these statements}
- for (value = startvalue; value <= lastvalue; value++) {do these statements} Foxtrot cartoon
  - value is an integer variable
  - value++ means add one to value
  - Equivalent to "counting" (index) loop with WHILE last time
- Function call and return

# Data structures and "complex types"

• Arrays in Javascrpt

### pop up a level of abstraction:

- arrays get at by "index" number ith item
- sets get at by name like database record
- Critical part of algorithm design

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