HyperCard: Script to Convert Dollar Amounts to Words (7/92)

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TOPIC ---

Handler Name: dollarsToWords,numToStr,upperCase

This function converts a number of dollars into words, just as you do when
writing a check. Try this: answer dollarsToWords(1234567.89)

DISCUSSION --

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function dollarsToWords num
  get offset(".",num) -- any cents?
  if it <> 0 then put return into char it of num
  put line 1 of num into dollars
  put line 2 of num into cents
  put numToStr(dollars) into result
  put upperCase(char 1 of result) into char 1 of result
  if cents > 0 then put " and " & cents & "/100" after result
  return result
end dollarsToWords

function numToStr num
  put empty into result

  -- trillions, billions, millions, thousands
  repeat with i = 1 to 4
    put length(num) - (15-3*i) into lastDigit
    if lastDigit <= 0 then next repeat
    put char 1 to lastDigit of num into thisNum
    delete char 1 to lastDigit of num
    if thisNum = 0 then next repeat
    put numToStr(thisNum) after result
    put item i of " trillion, billion, million, thousand" after result
    if num = 0 then return result
    put ", " after result
  end repeat

  -- hundreds
  if num > 99 then
    put numToStr(char 1 of num) & " hundred" after result
```

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      delete char 1 of num
      if num = 0 then return result
      put " " after result
    else if char 1 of num is 0 then delete char 1 of num

  put "twen,thir,four,fif,six,seven,eigh,nine" into prefixes

  -- twenty..ninety
  if num > 19 then
    put item (char 1 of num) - 1 of prefixes & "ty" after result
    delete char 1 of num
    if num = 0 then return result
    put "-" after result
  end if

  -- thirteen..nineteen
  if num > 12 then
    put item num - 11 of prefixes & "teen" after result
    return result
  end if

  -- zero..twelve
  return result & item num + 1 of ¬
  "zero,one,two,three,four,five,six,seven,eight,nine,ten,eleven,twelve"
end numToStr

function upperCase ch
  get charToNum(ch)
  if it < 97 then return ch
  else return numToChar(it - 32)
end upperCase
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Keywords: <None>

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