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HyperCard: Script for Drawing Line Charts (7/92)

Article Created: 16 January 1991
Article Reviewed/Updated: 23 July 1992

TOPIC ---

This handler draws a line chart when you pass it some values. Try
this: lineChart "3,4,5,6"

To erase the chart, type "clearPicture".

DISCUSSION --

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on lineChart values,frame
  if frame is empty
  then put insetRect(localRect(rect of card window),10) into frame
  clearPicture frame
  put itemArray(values) into values -- convert to comma separated list
  put max(values) into maxValue
  put number of items in values into valueCount
  put item 3 of frame - item 1 of frame into frameWidth
  put frameWidth/valueCount into valueWidth
  put valueWidth/2 into margin
  put item 1 of frame + margin into firstLeft
  put item 4 of frame - item 2 of frame - 2 * margin into frameHeight
  put item 4 of frame - margin into chartBottom
  put 2 into pointSize
  reset paint
  set pattern to 12
  set filled to true
  repeat with i = 1 to valueCount
    put firstLeft + (i - 1) * valueWidth into pointH
    put item i of values / maxValue into ratio
    put chartBottom - ratio * frameHeight into pointV
    choose rect tool
    set centered to true
    drag from round(pointH),round(pointV) to ¬
    round(pointH)+pointSize,round(pointV)+pointSize
    if i is not 1 then
      choose line tool
      set centered to false
      drag from round(oldH),round(oldV) to round(pointH),round(pointV)
    end if
```

```
    put pointH into oldH
    put pointV into oldV
  end repeat
  choose browse tool
end lineChart
```

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Keywords: <None>

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19960215 11:05:19.00

Tech Info Library Article Number: 14154