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

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Security: Everyone

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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 -----

```
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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