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#!/bin/usr/env python
from lib import *
from random import random
def ptile(lst,chops,width,form,low,high):
5   who = {}
    wheres0 = {}
    low = 0 if low == "" else low
    high = 100 if hi == "" else high
    form = "%3.0f" if form == "" else form
10   width = "" if width == "" else width
    bar = "|"
    out = [ " " for i in range(0,width)]
    n = len(lst)
    sorte = sorted(lst)
15   for p in chops:
        who[p] = sorte[int(float(p)*n)]
        wheres0[p] = {}
        where = int(width*(who[p] - low)/(high - low))
        wheres0[p]["x"] = where
20   wheres0[p][***] = chops[p]

    wheres = []
    for p in wheres0:
        wheres.append(p)
    wheres = sorted(wheres)
25   w = len(wheres)
    for i in range(0,w):
        start = wheres0[wheres[i]]["x"]
        stop = width if i+1 == w else wheres0[wheres[i+1]]["x"]
        for j in range(start,stop):
30             out[j] = wheres0[wheres[i]][***]
    out[int(width/2)] = bar
    median = sorte[int(0.5*n)]
    spread = sorte[int(0.75*n)] - sorte[int(0.25*n)]
    maxi = sorte[n-1]
35   where = int(width*(median - low)/(high - low))
    out[where-1] = ***
    sorted(who)
    return ">,"+str(l2s(out,"",None))+ "<,"+str(l2sd(who,"",form))+"," +str(round(m
edian,3))+"," +str(round(spread,3))+"," +str(round(maxi,3))

40  lst = [random()*2 for i in range(0,1000)]
    lst1 = [random()*0.5 for i in range(0,1000)]
    chops = pairs("0.1,-0.3,0.5,0.7,-0.9,".split(","))
    print "square"+ptile(lst,chops,40,"%3.2f",0,1)
    print "squareroot"+ptile(lst1,chops,40,"%3.2f",0,1)

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<div>square>---* , 0.237,0.474,1.0 squareroot> .834, 0.711,0.341,1.0</div> <div>- ----- ----- -* ----- -*</div> <div><,0.008,0.799,0.089,0.237,0.478 <,0.331,0.947,0.574,0.711,0</div>		