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#ShowPyLab1.py
""" Shows how to plot the values in a 1-dim numpy array.
  Uses ylabel, title, xlim, ylim, ticks, figure, and show
from numpy import *
from pylab import *
from TheDaylightClass import *
City = 'Ithaca'
# Get Rise/Set Data
C = Daylight(City)
D = C.SunUp()
# Set up an L-by-W figure
L = 12
W = 8
figure(figsize=(L,W))
# Plot a 1-dim numpy array
plot(D)
# The title
               Lat = %6.2f Long = %6.2f % (C.City,C.Lat,C.Long)
titlestr = '%s
title(titlestr,fontsize=18,color=[0,0,0])
# Label the y-axis
ylabel('Hours of Sunlight',fontsize=16)
# set the range of x and the range of y
xlim(0,364)
ylim(5,20)
# Position ticks along the x-axis and label them
c = ['JAN', 'FEB', 'MAR', 'APR', 'MAY', 'JUN', 'JUL', 'AUG', 'SEP', 'OCT', 'NOV', 'DEC']
t = [15,45,75,105,135,165,195,225,255,285,315,345]
xticks(t,c)
# Draw a grid
for k in range(6,20):
  # Draw horizontal line from (0,k) to (65,k)
  plot(array([0,365]),array([k,k]),color='red',linestyle=':')
for k in [0, 31, 59, 90, 120, 151, 181, 212, 243, 273, 304, 334]:
  # Draw vertical line from (k,5) to (k,20)
  plot(array([k,k]),array([5,20]),color='red',linestyle=':')
show()
```