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#ShowPyLab2.py
""" Shows how put a couple of plots in the same window
with a legend.
from numpy import *
from pylab import *
from TheDaylightClass import *
figure(figsize=(12,8))
# Get Moscow Rise/Set Data
C Moscow = Daylight('Moscow')
D Moscow = C Moscow.SunUp()
plot(D Moscow,label='Moscow',linewidth=2)
# Get London Rise/Set Data
C London = Daylight('London')
D London = C_London.SunUp()
plot(D London,label='London',linewidth=2)
# Get Ithaca Rise/Set Data
C Ithaca = Daylight('Ithaca')
D Ithaca = C Ithaca.SunUp()
plot(D Ithaca,label='Ithaca',linewidth=2)
# Get Miami Rise/Set Data
C Miami = Daylight('Miami')
D Miami = C Miami.SunUp()
plot(D Miami,label='Miami',linewidth=2)
# Get Lagos Rise/Set Data
C Lagos = Daylight('Lagos')
D Lagos = C Lagos.SunUp()
plot(D Lagos,label='Lagos',linewidth=2)
# Get Johannesburg Rise/Set Data
C Johannesburg = Daylight('Johannesburg')
D Johannesburg = C Johannesburg.SunUp()
plot(D Johannesburg, label='Johannesburg', linewidth=2)
# Possible locations for the legend:
              upper center upper right
# upper left
# center left center
                      center right
# lower left
              lower center lower right
legend(loc='upper left')
legend(loc='lower middle')
ylabel('Hours of Sunlight',fontsize=16)
xlim(0,364)
ylim(5,20)
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)
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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()
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