```
address = '4.5 month.csv'
eq = pd.read csv(address)
eq.head()
eq lat, eq lon = [], []
magnitudes = []
eq ts = []
with open('eq 1.csv') as f:
    reader = csv.reader(f)
    # skip the header row
    next(reader)
    # here we store latitude and longitude in seperate lists
    for row in reader:
        eq lat.append(float(row[1]))
        eq lon.append(float(row[2]))
        magnitudes.append(float(row[4]))
        eq ts.append(row[0])
def mk color(magnitude):
    # red color for significant earthquakes, yellow for earthquakes
below 4.5 and above 3.0
    # and green for earthquakes below 3.0
    if magnitude < 3.0:</pre>
        return ('qo')
    elif magnitude < 4.5:</pre>
        return ('yo')
    else:
        return ('ro')
plt.figure(figsize=(15,11))
my map = Basemap(projection='robin', resolution = 'l', area thresh =
1000.0, lat 0=0, lon 0=-10)
my map.drawcoastlines()
my map.drawcountries()
my map.fillcontinents(color = '#aa96da')
my map.drawmapboundary()
my map.drawmeridians(np.arange(0, 360, 30))
my map.drawparallels(np.arange(-90, 90, 30))
mk size = 2.4
for lon, lat, mag in zip(eq lon, eq lat, magnitudes):
    x,y = my map(lon, lat)
    msize = mag * mk size
    marker string = mk color(mag)
    my_map.plot(x, y, marker_string, markersize=msize)
```

plt.title('Earthquakes of magnitude 1.0 or above')

we can save the image as png file locally to the directory we are working in

plt.savefig('eq_data.png')
plt.show()

