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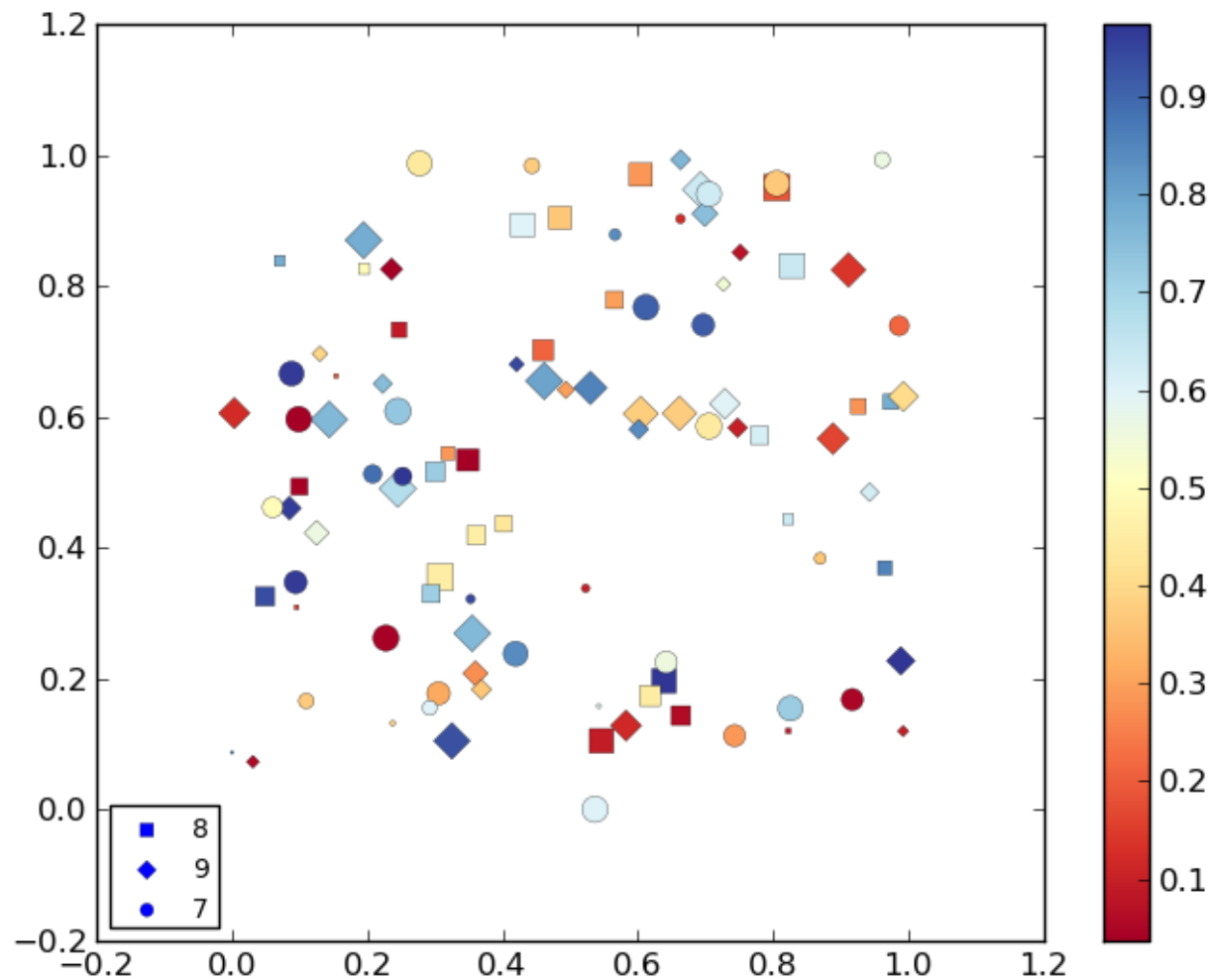
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## Manually set color of points in legend

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I'm making a scatter plot which looks like this:



(MWE at bottom of question)

As can be seen in the image above the colors of the points in the legend are set to blue automatically by `matplotlib`. I need to set this points to some other color not present in the colormap (ie: black) so they won't generate confusion with the colors associated with said colormap.

I looked around but the [matplotlib.legend](#) module does not seem to accept a `color` keyword. Is there any way to do this?

Here's the MWE:

```

import matplotlib.pyplot as plt
import numpy as np

def rand_data():
    return np.random.uniform(low=0., high=1., size=(100,))

# Generate data.
x, y, x2, x3 = [rand_data() for i in range(4)]
# This data defines the markers and labels used.
x1 = np.random.random_integers(7, 9, size=(100,))

# Order all lists so smaller points are on top.
order = np.argsort(-np.array(x2))
# Order x and y.
x_o, y_o = np.take(x, order), np.take(y, order)
# Order list related to markers and labels.
z1 = np.take(x1, order)
# Order list related to sizes.
z2 = np.take(x2, order)
# Order list related to colors.
z3 = np.take(x3, order)

plt.figure()
cm = plt.cm.get_cmap('RdYlBu')

# Scatter plot where each value in z1 has a different marker and label
# assigned.
mrk = {7: ('o', '7'), 8: ('s', '8'), 9: ('D', '9')}
for key, value in mrk.items():

    s1 = (z1 == key)
    plt.scatter(x_o[s1], y_o[s1], marker=value[0], label=value[1],
               s=z2[s1] * 100., c=z3[s1], cmap=cm, lw=0.2)

# Plot colorbar
plt.colorbar()

# Plot Legend.
plt.legend(loc="lower left", markerscale=0.7, scatterpoints=1, fontsize=10)

plt.show()

```

python numpy matplotlib colors legend

edited Jul 24 '15 at 8:50



Saullo Castro

21.9k 5 47 107

asked May 16 '14 at 15:15



Gabriel

4,208 10 42 96

## 1 Answer

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You can obtain the legend handles and change their colors doing:

```
ax = plt.gca()
legend = ax.get_legend()
legend.legendHandles[0].set_color('red')
legend.legendHandles[1].set_color('yellow')
```

answered May 16 '14 at 15:35



[Saullo Castro](#)

**21.9k** 5 47 107

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1 Thank you, this does the trick. – [Gabriel](#) May 16 '14 at 15:42

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