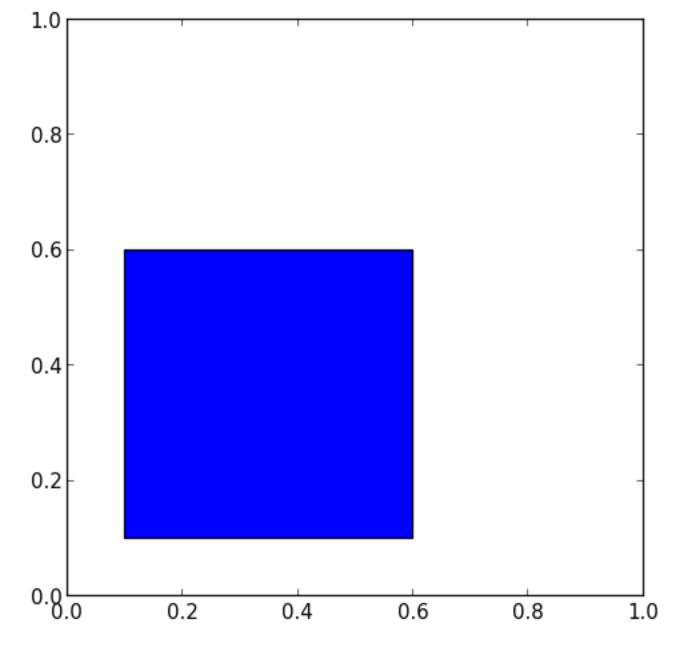
Python Patterns (/)

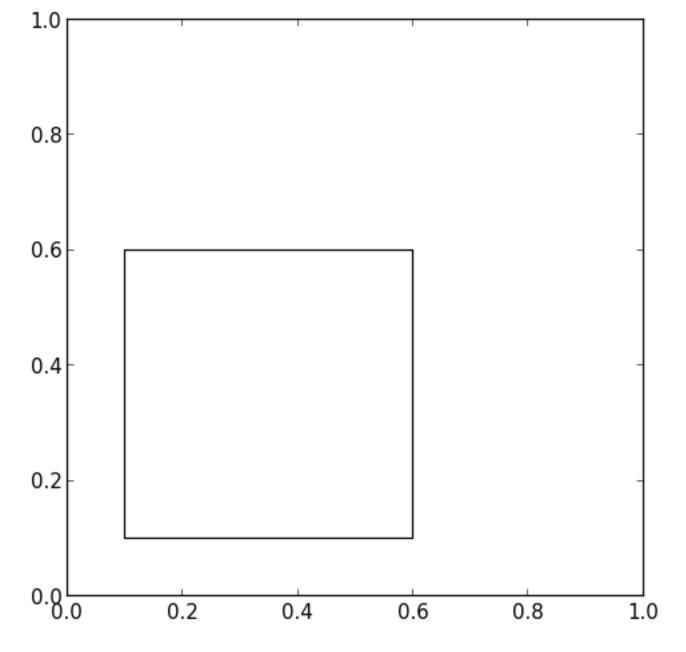
All Entries (/pp/) Filter: by Module (/pp/module/) by Tag (/pp/tag/)

Draw rectangles with matplotlib

Hello Rectangle



Remove Background



Background Patterns

import matplotlib.pyplot as plt import matplotlib.patches as patches

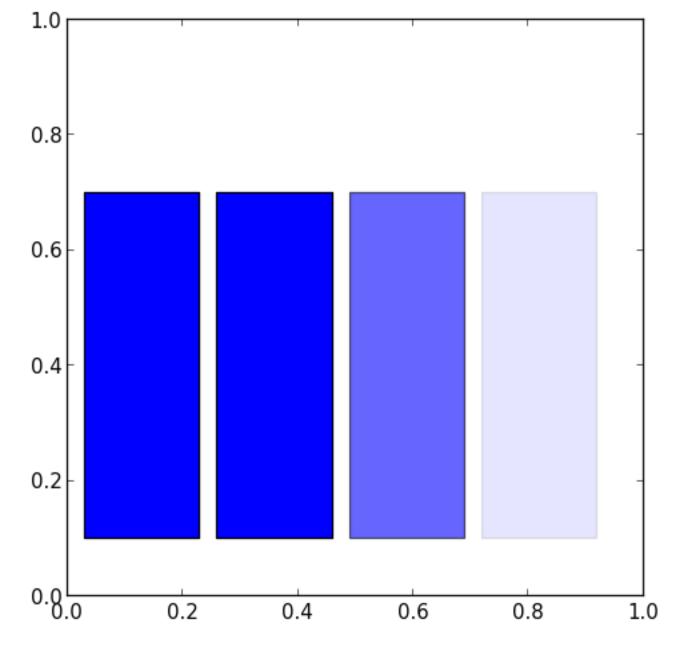
```
fig3 = plt.figure()
ax3 = fig3.add_subplot(111, aspect='equal')
for p in [
    patches.Rectangle(
        (0.1, 0.1), 0.3, 0.6,
        hatch='/'
    ),
    patches.Rectangle(
         (0.5, 0.1), 0.3, 0.6,
        hatch='\\',
        fill=False
    ),
]:
    ax3.add_patch(p)
fig3.savefig('rect3.png', dpi=90, bbox_inches='tight')
1.0
8.0
0.6
0.4
0.2
0.8.0
            0.2
                      0.4
                                0.6
                                          8.0
                                                     1.0
```

import matplotlib.pyplot as plt import matplotlib.patches as patches

```
patterns = ['-', '+', 'x', 'o', '0', '.', '*'] # more patterns
fig4 = plt.figure()
ax4 = fig4.add_subplot(111, aspect='equal')
for p in [
    patches.Rectangle(
        (0.05 + (i * 0.13), 0.1),
        0.1,
        0.6,
        hatch=patterns[i],
        fill=False
    ) for i in range(len(patterns))
]:
    ax4.add_patch(p)
fig4.savefig('rect4.png', dpi=90, bbox_inches='tight')
1.0
8.0
0.6
0.4
0.2
           0.2
                     0.4
                                0.6
                                          8.0
                                                    1.0
```

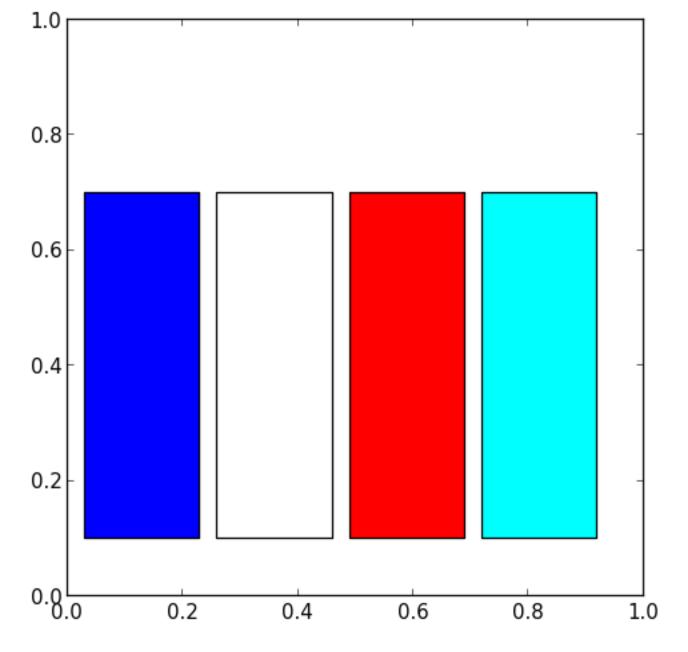
Background Alpha

```
import matplotlib.pyplot as plt
import matplotlib.patches as patches
fig5 = plt.figure()
ax5 = fig5.add_subplot(111, aspect='equal')
for p in [
    patches.Rectangle(
        (0.03, 0.1), 0.2, 0.6,
        alpha=None,
    ),
    patches.Rectangle(
        (0.26, 0.1), 0.2, 0.6,
        alpha=1.0
    ),
    patches.Rectangle(
        (0.49, 0.1), 0.2, 0.6,
        alpha=0.6
    ),
    patches.Rectangle(
        (0.72, 0.1), 0.2, 0.6,
        alpha=0.1
    ),
]:
    ax5.add_patch(p)
fig5.savefig('rect5.png', dpi=90, bbox_inches='tight')
```



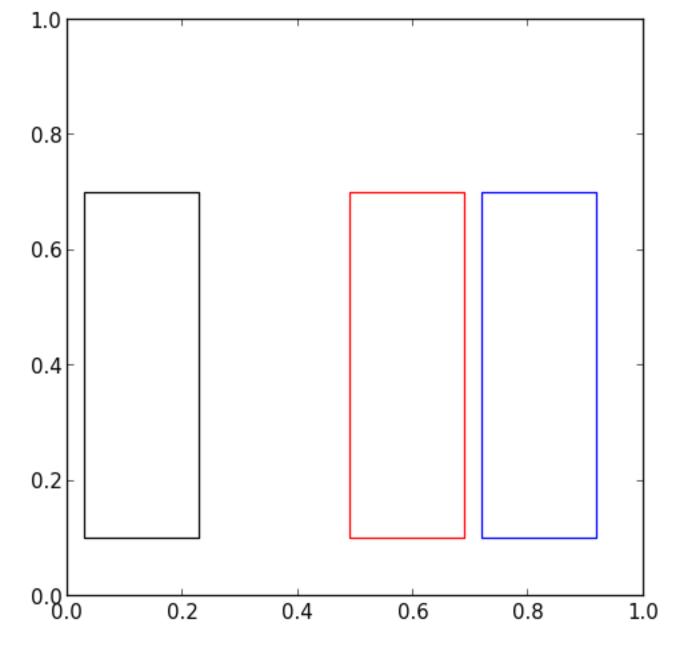
Background Color

```
import matplotlib.patches as patches
fig6 = plt.figure()
ax6 = fig6.add_subplot(111, aspect='equal')
for p in [
   patches.Rectangle(
        (0.03, 0.1), 0.2, 0.6,
        facecolor=None # Default
    ),
    patches.Rectangle(
        (0.26, 0.1), 0.2, 0.6,
        facecolor="none" # No background
    ),
   patches.Rectangle(
        (0.49, 0.1), 0.2, 0.6,
        facecolor="red"
    ),
    patches.Rectangle(
        (0.72, 0.1), 0.2, 0.6,
        facecolor="#00ffff"
    ),
]:
    ax6.add_patch(p)
fig6.savefig('rect6.png', dpi=90, bbox_inches='tight')
```



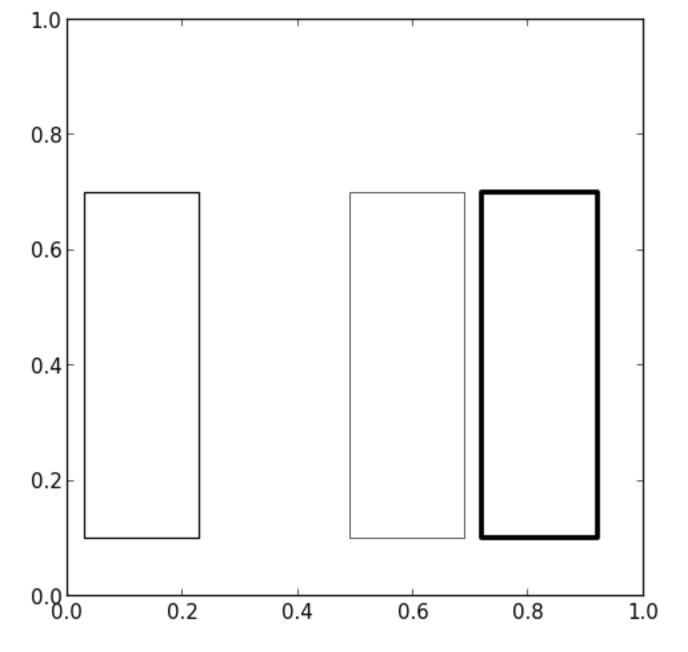
Border Color

```
import matplotlib.patches as patches
fig7 = plt.figure()
ax7 = fig7.add_subplot(111, aspect='equal')
for p in [
    patches.Rectangle(
        (0.03, 0.1), 0.2, 0.6, fill=False,
        edgecolor=None
                       # Default
    ),
    patches.Rectangle(
        (0.26, 0.1), 0.2, 0.6, fill=False,
        edgecolor="none" # No border
    ),
    patches.Rectangle(
        (0.49, 0.1), 0.2, 0.6, fill=False,
        edgecolor="red"
    ),
    patches.Rectangle(
        (0.72, 0.1), 0.2, 0.6, fill=False,
        edgecolor="#0000ff"
    ),
]:
    ax7.add_patch(p)
fig7.savefig('rect7.png', dpi=90, bbox_inches='tight')
```



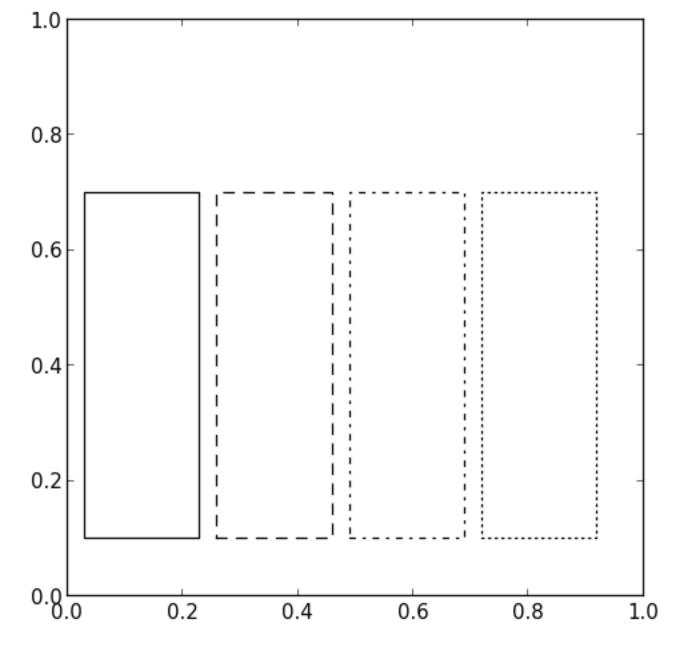
Border Width

```
import matplotlib.patches as patches
fig8 = plt.figure()
ax8 = fig8.add_subplot(111, aspect='equal')
for p in [
    patches.Rectangle(
        (0.03, 0.1), 0.2, 0.6, fill=False,
        linewidth=None
                       # Default
    ),
    patches.Rectangle(
        (0.26, 0.1), 0.2, 0.6, fill=False,
        linewidth=0
    ),
    patches.Rectangle(
        (0.49, 0.1), 0.2, 0.6, fill=False,
        linewidth=0.5
    ),
    patches.Rectangle(
        (0.72, 0.1), 0.2, 0.6, fill=False,
        linewidth=3
    ),
]:
    ax8.add_patch(p)
fig8.savefig('rect8.png', dpi=90, bbox_inches='tight')
```



Border Style

```
import matplotlib.patches as patches
fig9 = plt.figure()
ax9 = fig9.add_subplot(111, aspect='equal')
for p in [
    patches.Rectangle(
        (0.03, 0.1), 0.2, 0.6, fill=False,
        linestyle='solid' # Default
    ),
    patches.Rectangle(
        (0.26, 0.1), 0.2, 0.6, fill=False,
        linestyle='dashed'
    ),
    patches.Rectangle(
        (0.49, 0.1), 0.2, 0.6, fill=False,
        linestyle='dashdot'
    ),
    patches.Rectangle(
        (0.72, 0.1), 0.2, 0.6, fill=False,
        linestyle='dotted'
    ),
]:
    ax9.add_patch(p)
fig9.savefig('rect9.png', dpi=90, bbox_inches='tight')
```



About this Entry

Modules: matplotlib (/pp/module/matplotlib/)

Tags: #matplotlib (/pp/tag/matplotlib/) #drawing (/pp/tag/drawing/) #image (/pp/tag/image/)

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