









```
import matplotlib.pyplot as plt
import itertools
import warnings
fontsizes = itertools.cycle([8, 16, 24, 32])
def example_plot(ax):
    ax.plot([1, 2])
    ax.set_xlabel('x-label', fontsize=next(fontsizes))
    ax.set ylabel('y-label', fontsize=next(fontsizes))
    ax.set_title('Title', fontsize=next(fontsizes))
fig, ax = plt.subplots()
example_plot(ax)
plt.tight_layout()
fig, ((ax1, ax2), (ax3, ax4)) = plt.subplots(nrows=2, ncols=2)
example plot(ax1)
example_plot(ax2)
example_plot(ax3)
example plot(ax4)
plt.tight_layout()
fig, (ax1, ax2) = plt.subplots(nrows=2, ncols=1)
example_plot(ax1)
example_plot(ax2)
plt.tight_layout()
fig, (ax1, ax2) = plt.subplots(nrows=1, ncols=2)
example_plot(ax1)
example_plot(ax2)
plt.tight_layout()
fig, axes = plt.subplots(nrows=3, ncols=3)
for row in axes:
    for ax in row:
        example plot(ax)
plt.tight_layout()
```

```
fig = plt.figure()
ax1 = plt.subplot(221)
ax2 = plt.subplot(223)
ax3 = plt.subplot(122)
example_plot(ax1)
example plot(ax2)
example_plot(ax3)
plt.tight layout()
fig = plt.figure()
ax1 = plt.subplot2grid((3, 3), (0, 0))
ax2 = plt.subplot2grid((3, 3), (0, 1), colspan=2)
ax3 = plt.subplot2grid((3, 3), (1, 0), colspan=2, rowspan=2)
ax4 = plt.subplot2grid((3, 3), (1, 2), rowspan=2)
example_plot(ax1)
example_plot(ax2)
example plot(ax3)
example plot(ax4)
plt.tight_layout()
plt.show()
fig = plt.figure()
import matplotlib.gridspec as gridspec
gs1 = gridspec.GridSpec(3, 1)
ax1 = fig.add subplot(gs1[0])
ax2 = fig.add_subplot(gs1[1])
ax3 = fig.add_subplot(gs1[2])
example plot(ax1)
example plot(ax2)
example_plot(ax3)
with warnings.catch_warnings():
    warnings.simplefilter("ignore", UserWarning)
    # This raises warnings since tight layout cannot
    # handle gridspec automatically. We are going to
    # do that manually so we can filter the warning.
    gs1.tight_layout(fig, rect=[None, None, 0.45, None])
gs2 = gridspec.GridSpec(2, 1)
ax4 = fig.add subplot(gs2[0])
ax5 = fig.add_subplot(gs2[1])
example plot(ax4)
example_plot(ax5)
with warnings.catch warnings():
    # This raises warnings since tight layout cannot
    # handle gridspec automatically. We are going to
    # do that manually so we can filter the warning.
    warnings.simplefilter("ignore", UserWarning)
    \tt gs2.tight\_layout(fig, rect=[0.45, {\tt None, None, None}])
# now match the top and bottom of two gridspecs.
top = min(gs1.top, gs2.top)
```

https://matplotlib.org/examples/pylab examples...

```
bottom = max(gs1.bottom, gs2.bottom)

gs1.update(top=top, bottom=bottom)
gs2.update(top=top, bottom=bottom)
plt.show()

Keywords: python, matplotlib, pylab, example, codex (see Search examples)

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