
Subject: Re: New free DLL for calling Python from IDL!
Posted by [Jason Ferrara](#) on Tue, 04 Mar 2014 12:50:53 GMT
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Here is an example showing how to create a plot with matplotlib and display it in IDL without needing to save the plot to a temporary file.

```
plt = pyimport("matplotlib.pyplot")
mpagg = pyimport("matplotlib.backends.backend_agg")
fig = plt.figure(facecolor='w')
canvas = mpagg.FigureCanvasAgg(fig)
ax=fig.add_subplot(111)
ax.plot, [1,2,3]
stringio = pyimport("cStringIO")
numpy = pyimport("numpy")
imgdata = stringio.StringIO()
canvas.print_rgba, imgdata
w = (canvas.get_width_height())[0]
h = (canvas.get_width_height())[1]
img = (numpy.fromstring(imgdata.getvalue(), dtype=numpy.uint8, /pyobj)).reshape([h,w,4])
img = reverse(img(1:3,*),3)
tv, img, /true
```
