Increasing resolution of Cartopy stock background?

Asked 8 months ago Active 8 months ago Viewed 877 times



I am trying to create a small application that will show zoomed in maps. If possible, I would like to avoid using map tiles.



Going off the example on this page:

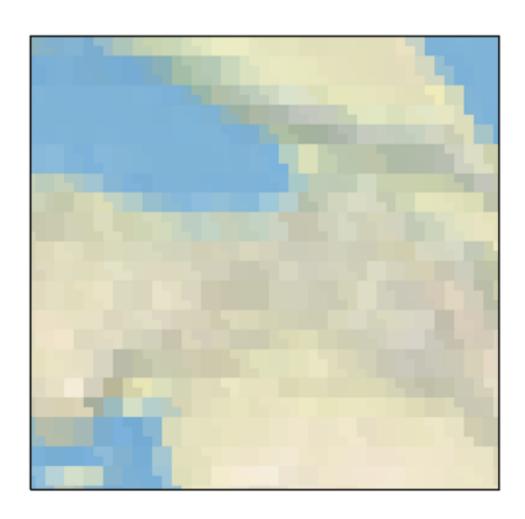




https://scitools.org.uk/cartopy/docs/v0.15/matplotlib/intro.html

```
import cartopy.crs as ccrs
import matplotlib.pyplot as plt
ax = plt.axes(projection=ccrs.Mollweide())
ax.stock img()
ax.set_extent([35,45,35,45])
plt.show()
```

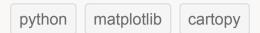
result:



I am just wondering if there is some method I don't know about for showing it in a higher resolution/dpi?

And if not, is there any middle to solution between this and using, say, Open Streetmap tiles?

I think that in order to use a tiled map I would need to run my own server, but I will largely be showing the same few map sections repeatedly, so I would think there must be some way around this.







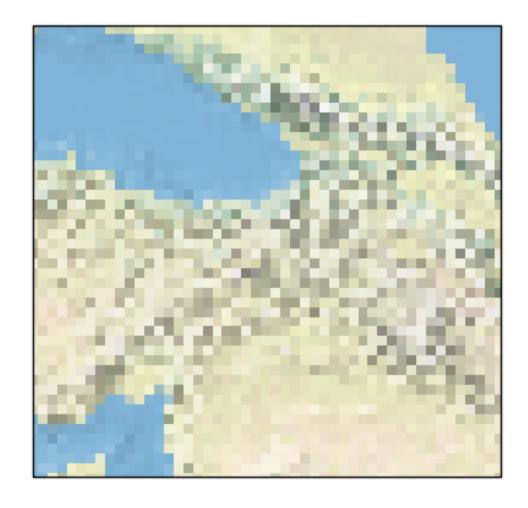
1 Answer



It looks like cartopy package a downsampled version of the Natural Earth 'shaded relief and water' image as the stock image. You could try the original version (<u>available here</u>) and use ax.imshow to load it (following the <u>source for ax.stock image</u> quite closely).

Unfortunately this only gives a little improvement (see below), depending the size of your area of interest.

with extent [35,45,35,45]:



with extent [35,45,36,46]:



Beyond this, I'd either use vector data for background (Natural Earth have political, physical and cultural vector data), look for a bigger tif, or go with the tiled approach.

Stamen terrain might be suitable, as in this cartopy example. Hope that's helpful!

answered Feb 25 at 16:09

