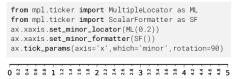
Matplotlib for intermediate users

A matplotlib figure is composed of a hierarchy of elements Ticks & labels that forms the actual figure. Each element can be modified.

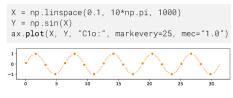
Ana(tor) y of a figure Bl e sig 3.25 3.50 3.75

Figure, axes & spines

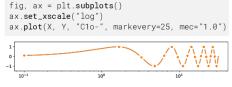




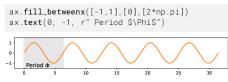
Lines & markers



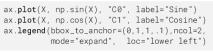
Scales & projections

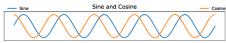


Text & ornaments

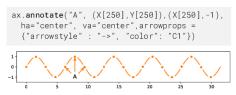


Legend





Annotation



Colors



Size & DPI

Consider a square figure to be included in a two-columns A4 paper with 2cm margins on each side and a column separation of 1cm. The width of a figure is (21 - 2*2 - 1)/2 = 8cm. One inch being 2.54cm, figure size should be 3.15×3.15 in.

fig = plt.figure(figsize=(3.15,3.15), dpi=50) plt.savefig("figure.pdf", dpi=600)

Matplotlib 3.5.0 handout for intermediate users. Copyright (c) 2021 Matplotlib De-velopment Team. Released under a CC-BY 4.0 International License. Supported by NumFOCUS.