## Matplotlip Simplified

December 22, 2017

## 1 Matplotlib

## 1.0.1 2D Graphs

1. fig =plt.figure(num=None, figsize=None, dpi=None, facecolor=None, edgecolor=None, frameon=True, FigureClass=, clear=False, kwargs)\*\*

```
2. ax1 = plt.add_subplot(211, krgs)
```

```
type: 'matplotlib.axes._subplots.AxesSubplot' attributes: attributes
```

```
e.g
    ax1.axis([-2,10,-1.5,1.5])
    ax1.set_xlabel("xaxis", fontsize = 20)
    ax1.set_ylabel("yaxis", fontsize = 20)
    ax1.set_title("sin", fontsize = 20
    ax1.grid(True, which = "both")
    ax1.set_xticks(np.arr(14))
```

krgs: - projection - axisbg - title - xlabel - ylabel - xscale - yscale

\*ax1.plot(xdata, ydata, linewidth=None, linestyle=None, color=None, marker=None, markersize=None, markeredgewidth=None, markeredgecolor=None, markerfacecolor=None, markerfacecoloralt='none', fillstyle=None, antialiased=None, dash\_capstyle=None, solid\_capstyle=None, dash\_joinstyle=None, solid\_joinstyle=None, pickradius=5, draw-style=None, markevery=None, \*\*kwargs)\*

attributes

```
ax1.legend()
ax2 = fig.add_subplot(222, xlabel = 'x', title = 'cos')
ax2.plot(arr, np.cos(arr),label= "amit")
ax2.set_xlabel('x',fontsize = 20)
ax2.legend()
ax3 = fig.add_subplot(223, xlabel = 'x',title = 'x^2')
ax3.plot(arr,np.square(arr), label = "square")
ax3.legend()
ax4 = fig.add_subplot(224, xlabel = 'x', title = 'sin^2')
ax4.plot(arr, np.square(np.sin(arr)), label = "sin^2")
ax4.legend()
# ax4.*?
ax4.grid(True, which = "both")
plt.tight_layout()
ax4.set_xticks(np.arange(12))
ax4.set_yticks(np.arange(2))
plt.show()
```

