

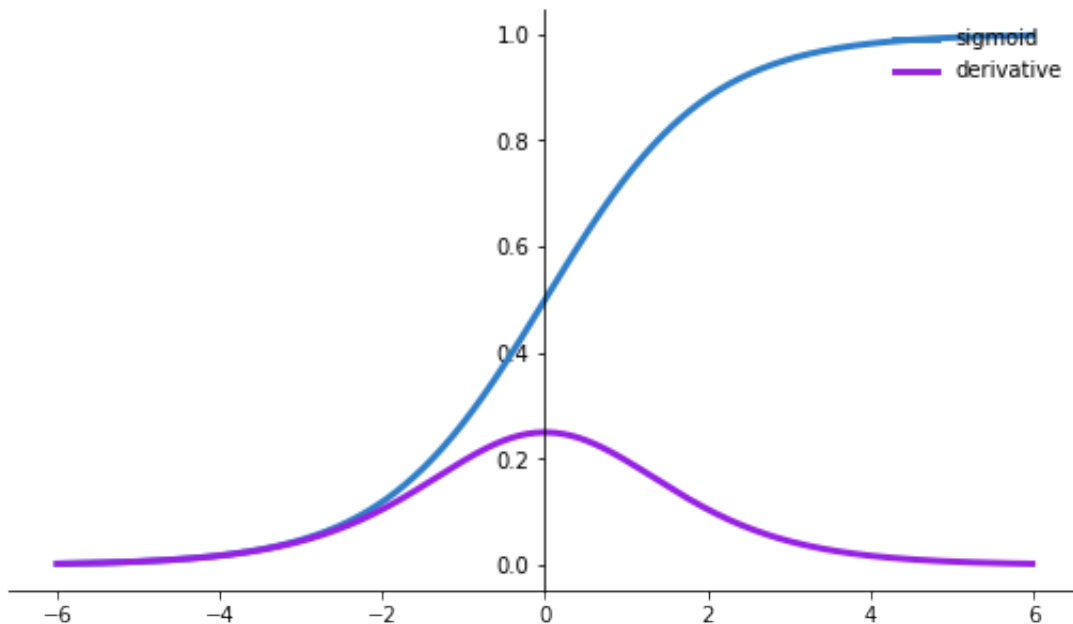
```
In [1]: import matplotlib.pyplot as plt
import numpy as np
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In [28]: def sigmoid(x):
    return 1./(1 + np.e**(-x))
#calculating plot points
x = np.arange(-6, +6, 0.01)
y = sigmoid(x)
dx = y*(1-y)
#setup axis

fig, ax = plt.subplots(figsize = (9,5))
ax.spines['left'].set_position('center')
ax.spines['right'].set_color('none')
ax.spines['top'].set_color('none')
ax.xaxis.set_ticks_position('bottom')
ax.yaxis.set_ticks_position('left')

ax.plot(x, y, color="#307EC7", linewidth=3, label="sigmoid")
ax.plot(x, dx, color="#9621E2", linewidth=3, label="derivative")
ax.legend(loc="upper right", frameon=False)
# fig.show()
```

Out[28]: <matplotlib.legend.Legend at 0x119d6c438>



In [ ]: