

ses7prompt

January 30, 2024

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[7]: import matplotlib.pyplot as plt
import numpy as np
```

0.1 Import matplotlib and numpy

0.2 Create an array x ranging from $[0, 1]$ in 100 steps and define a function that returns $\exp(x)$

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[8]: x = np.linspace(0, 1, 100)

def retExp(x):
    return np.exp(x)
```

0.3 Using the newly defined function, set $y = \exp(x)$ and then plot x vs. y with the respective labels as “Time [milliseconds]” and “Awesomeness”

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[9]: y = retExp(x)

fig = plt.figure(figsize = (4, 4))
ax = plt.subplot(1, 1, 1)
ax.plot(x, y, color = "red", linewidth = 1.5)
ax.set_xlabel("Time [milliseconds]", fontsize = 14)
ax.set_ylabel("Awesomeness", fontsize = 14)
plt.savefig("Session 7 Prompt.png", bbox_inches = "tight", dpi = 400)
```

