

Session7

February 5, 2024

1. Create a Jupyter notebook, import matplotlib.
2. Write cells that 1) create an array x ranging from $[0,1]$ in 100 steps and 2) that defines a function that returns $\exp(x)$.
3. In a new cell use the function to set $y=\exp(x)$, and then plot x vs. y . Label the x-axis as “Time [milliseconds]” and the y-axis as “Awesomeness”.
4. Save the figure as a PDF.

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

%matplotlib inline
```

```
[32]: x = np.arange(0, 1, 1/100)

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

```
[38]: y = exp(x)

plt.plot(x, y)
plt.xlabel("Time [milliseconds]")
plt.ylabel("Awesomeness")

plt.savefig('fig.pdf', bbox_inches='tight', dpi=800)

plt.show()
```

