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# ==== rollerCoaster.ipynb ===
#%%
$mat[lotlib notebook
#get_ipython().run_line_magic('matplotlib', 'notebook')


#%%
# Import Dependencies
import matplotlib.pyplot as plt
import numpy as np

#%%
# Create the X and Y axis lists
# Both coasters are 120 seconds long and
# the speed was measured every 10 seconds.
time = np.arange(0,130,10)
speed_chain = [9, 8, 90, 85, 80, 70, 70, 65, 55, 60, 70, 65, 50]
speed_launch = [75, 70, 60, 65, 60, 45, 55, 50, 40, 40, 35, 35, 30]


#%%
# Plot the charts and apply some styling
danger_drop, = plt.plot(time, speed_chain, color="red", label="Danger Drop")
railgun, = plt.plot(time, speed_launch, color="blue", label="RailGun")


#%%
# Add labels to X and Y axes :: Add title
plt.title("Coaster Speed Over Time")
plt.xlabel("Coaster Runtime")
plt.ylabel("Speed (MPH)")


#%%
# Set the limits for the X and Y axes
plt.xlim(0,120)
plt.ylim(5,95)


#%%
# Create a legend for the chart
plt.legend(handles=[danger_drop, railgun], loc="best")


#%%
# Add in a grid for the chart
plt.grid()


#%%
plt.show()


#%%
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