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import matplotlib.pyplot as plt
import numpy as np

# Simulated Zoning, Traffic, and Pollution Data
zone_map = np.random.choice([0, 1, 2], size=(10, 10), p=[0.5, 0.3, 0.2])
traffic_levels = np.random.randint(30, 100, size=(10, 10))
pollution_levels = np.random.randint(20, 90, size=(10, 10))

# Plotting the Dashboard
fig, axs = plt.subplots(1, 3, figsize=(18, 6))

axs[0].imshow(zone_map, cmap='Set3')
axs[0].set_title("Zoning Map\n0:Residential, 1:Commercial, 2:Green")
axs[0].axis('off')

im1 = axs[1].imshow(traffic_levels, cmap='Reds')
axs[1].set_title("Traffic Levels")
axs[1].axis('off')
fig.colorbar(im1, ax=axs[1])

im2 = axs[2].imshow(pollution_levels, cmap='Greens')
axs[2].set_title("Pollution Levels")
axs[2].axis('off')
fig.colorbar(im2, ax=axs[2])

plt.tight_layout()
plt.savefig("urban_dashboard_output.pdf")
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