Polar Subplot

```python
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt

# Apply seaborn style
sns.set(style="whitegrid")

# Define the radial values
r = np.arange(0, 2, 0.01)

# Calculate the corresponding angles for the spiral
theta = 2 * np.pi * r

# Create a figure and a polar subplot
fig, ax = plt.subplots(subplot_kw={'projection': 'polar'})

# Plot the spiral with color gradient
scatter = ax.scatter(theta, r, c=r, s=10, cmap='coolwarm', edgecolors='none')

# Add a color bar to show the color scale
cbar = plt.colorbar(scatter, ax=ax)
cbar.set_label('Radial Distance')

# Set the radial ticks
ax.set_rticks([0.5, 1, 1.5, 2, 2.5, 3])

# Enable grid
ax.grid(True)

# Show the plot
plt.show()
```