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import re
from collections import Counter
import matplotlib.pyplot as plt
from wordcloud import WordCloud

# Function to extract emojis from text
def extract_emojis(text):
    emoji_pattern = re.compile("[
        u"\U0001F600-\U0001F64F" # emoticons
        u"\U0001F300-\U0001F5FF" # symbols & pictographs
        u"\U0001F680-\U0001F6FF" # transport & map symbols
        u"\U0001F1E0-\U0001F1FF" # flags (iOS)
    "]" +, flags=re.UNICODE)
    return emoji_pattern.findall(text)

# Function to create a bar chart of emoji frequencies
def plot_emoji_frequencies(emoji_list):
    emoji_counts = Counter(emoji_list)
    emojis, counts = zip(*emoji_counts.items())
    plt.bar(emojis, counts)
    plt.xlabel('Emojis')
    plt.ylabel('Frequency')
    plt.title('Emoji Frequency')
    plt.show()

# Function to create a word cloud of emoji frequencies
def create_emoji_wordcloud(emoji_list):
    emoji_counts = Counter(emoji_list)
    wordcloud = WordCloud(width=800, height=400, background_color='white', collocations=False).generate_from_frequencies(emoji_counts)
    plt.imshow(wordcloud, interpolation='bilinear')
    plt.axis('off')
    plt.show()

# Example usage
text = "I love programming! 🤖👤💻📺 Let's write some Python code! 🇬🇧🚀🌟"
emoji_list = extract_emojis(text)
plot_emoji_frequencies(emoji_list)
create_emoji_wordcloud(emoji_list)

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/usr/local/lib/python3.11/dist-packages/IPython/core/pylabtools.py:151: UserWarning: Glyph 128104 (\N{MAN}) missing from font(s) DejaVu
fig.canvas.print_figure(bytes_io, **kw)
/usr/local/lib/python3.11/dist-packages/IPython/core/pylabtools.py:151: UserWarning: Glyph 128187 (\N{PERSONAL COMPUTER}) missing from f
fig.canvas.print_figure(bytes_io, **kw)
/usr/local/lib/python3.11/dist-packages/IPython/core/pylabtools.py:151: UserWarning: Glyph 128218 (\N{BOOKS}) missing from font(s) Dejav
fig.canvas.print_figure(bytes_io, **kw)
/usr/local/lib/python3.11/dist-packages/IPython/core/pylabtools.py:151: UserWarning: Glyph 128013 (\N{SNAKE}) missing from font(s) Dejav
fig.canvas.print_figure(bytes_io, **kw)
/usr/local/lib/python3.11/dist-packages/IPython/core/pylabtools.py:151: UserWarning: Glyph 128640 (\N{ROCKET}) missing from font(s) Dejav
fig.canvas.print_figure(bytes_io, **kw)

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