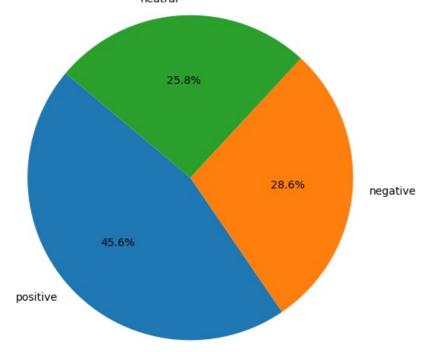
```
In [ ]:
```

```
In [18]: import pandas as pd
         from textblob import TextBlob
         import matplotlib.pyplot as plt
         from wordcloud import WordCloud
         # Load the dataset
         df = pd.read csv("C:/Users/sathi/Downloads/twitter training.csv", header=None, names=['ID', 'Topic', 'Sentiment
         # Step 1: Convert 'Text' column to string
         df['Text'] = df['Text'].astype(str)
         # Step 2: Function to get sentiment polarity
         def get sentiment(text):
             analysis = TextBlob(text)
             return analysis.sentiment.polarity
         # Step 3: Apply sentiment analysis to each tweet
         df['Polarity'] = df['Text'].apply(get_sentiment)
         # Step 4: Classify sentiment based on polarity
         df['Sentiment'] = df['Polarity'].apply(lambda x: 'positive' if x > 0 else 'negative' if x < 0 else 'neutral')
         # Step 5: Visualize sentiment distribution
         sentiment counts = df['Sentiment'].value counts()
         plt.figure(figsize=(6, 6))
         plt.pie(sentiment_counts, labels=sentiment_counts.index, autopct='%1.1f%%', startangle=140)
         plt.title('Sentiment Distribution for Borderlands')
         plt.axis('equal')
         plt.show()
         # Step 6: Generate word clouds for each sentiment category
         positive_text = ' '.join(df[df['Sentiment'] == 'positive']['Text'])
negative_text = ' '.join(df[df['Sentiment'] == 'negative']['Text'])
         neutral_text = ' '.join(df[df['Sentiment'] == 'neutral']['Text'])
         wordcloud_positive = WordCloud(width=800, height=400).generate(positive_text)
         wordcloud_negative = WordCloud(width=800, height=400).generate(negative_text)
         wordcloud_neutral = WordCloud(width=800, height=400).generate(neutral_text)
         plt.figure(figsize=(12, 10))
         plt.subplot(131)
         plt.imshow(wordcloud positive, interpolation='bilinear')
         plt.title('Positive Sentiment')
         plt.axis('off')
         plt.subplot(132)
         plt.imshow(wordcloud negative, interpolation='bilinear')
         plt.title('Negative Sentiment')
         plt.axis('off')
         plt.subplot(133)
         plt.imshow(wordcloud_neutral, interpolation='bilinear')
         plt.title('Neutral Sentiment')
         plt.axis('off')
         plt.tight_layout()
         plt.show()
```

## Sentiment Distribution for Borderlands neutral



Positive Sentiment



Neutral Sentiment



In [ ]:

In [ ]:

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