

Exploratory Data Analysis Report for Hespress

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Report and Insights

The provided output contains information on the analysis of different datasets related to various topics. Each dataset represents a specific category or topic, and we have the following datasets:

- 1. 'stories politique.csv': Contains stories related to politics.
- 2. 'stories medias.csv': Contains stories related to the media.
- 3. 'stories regions.csv': Contains stories related to regions.
- 4. 'stories sport.csv': Contains stories related to sports.
- 5. 'stories marocains-du-monde.csv': Contains stories related to Moroccans living abroad.
- 6. 'stories economie.csv': Contains stories related to the economy.
- 7. 'stories orbites.csv': Contains stories related to space.
- 8. 'stories faits-divers.csv': Contains miscellaneous stories or incidents.
- 9. 'stories art-et-culture.csv': Contains stories related to art and culture.
- 10. 'stories tamazight.csv': Contains stories related to the Amazigh (Berber) language and culture.
- 11. 'stories societe.csv': Contains stories related to society.

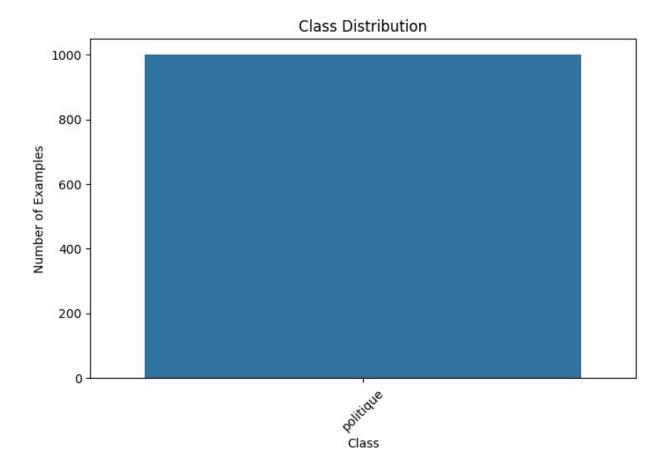
Let's analyze each dataset individually:

Dataset: stories politique.csv

- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "politique" category.
- The top 10 frequent 2-grams (word pairs) in the stories are related to political terms, like "رئيس الحكومة" (Prime Minister), "مجلس النواب" (House of Representatives), and "الأمين العام" (General Secretary), indicating that the stories indeed cover political topics.

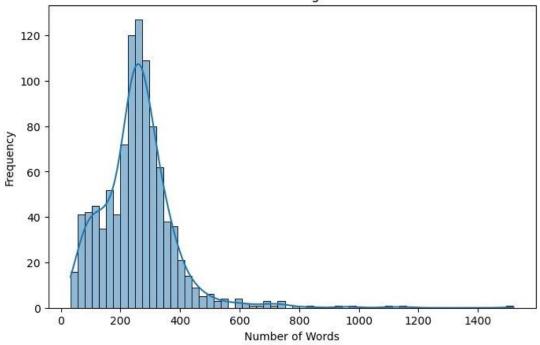
- Class Distribution: All 1000 entries belong to the "politique" category.
- Top 2-grams: Frequent word pairs include "مجلس النواب," "العدالة والتنمية," and others.
- Length of Examples in Words: The average story contains around 258 words, with a minimum of 32 words and a maximum of 1520 words.
- Length of Examples in Letters: The average story contains around 1856 letters, with a minimum of 196 letters and a maximum of 10661 letters.

```
--- Individual File Analysis for stories_politique.csv ---
<class 'pandas.core.frame.DataFrame'>RangeIndex:
1000 entries, 0 to 999 Data columns (total 7
columns):
                        Non-Null Count Dtypent64
       Column
                                              object
                                              object
       Unnamed: 0 1000 non-null
 0
                                              object
 1
       id
                        1000 non-null
                                              object
       -1+1-
                        1000 --- ---
                                              object
       topic
                        1000 non-null
dtypes: int64(1), object(6)memory
usage: 54.8+ KB None
Class Distribution:politique
                  1000
Name: topic, dtype: int64
```



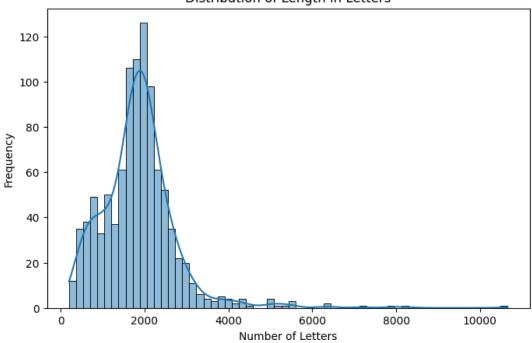
```
Top 10 Frequent 2 -grams:
رئيس الحكومة: 441
ُ مُجلَّس النواب: 410
العدالة والتنمية: 402
الأمينَ العاّم: 353
محمد السادس: 321
الأصالة والمعاصرة: 291
الملك محمد: 290
مشروع القانون: 252
الديَّن العثماني: 217
سعد الدين: 215
Length of Examples in Words:
count
          1000.000000
           257.986000
mean
           128.889465
std
            32.000000
min
25%
            187.000000
            253.000000
50%
75%
           308.000000
          1520.000000
max
Name: num_words, dtype: float64
```





```
Length of Examples in Letters:
            1000.000000
count
            1855.676000
mean
std
             927.632054
min
             196.000000
            1353.000000
25%
          1842.500000
2209.750000
10661.000000
50%
75%
max
Name: num_letters, dtype: float64
```





Dataset: stories medias.csv

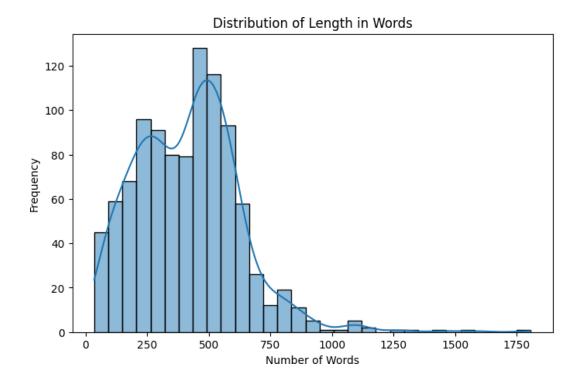
- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "medias" category.
- The top 10 frequent 2-grams (word pairs) in the stories are related to media topics, like "أخبار اليوم" (News of the day) and "الأحداث المغربية" (Moroccan events).

- Class Distribution: All 1000 entries belong to the "medias" category.
- Top 2-grams: Frequent word pairs include "أخبار اليوم," "الأحداث المغربية," "فيروس كورونا"," and others.
- Length of Examples in Words: The average story contains around 415 words, with a minimum of 35 words and a maximum of 1807 words.
- Length of Examples in Letters: The average story contains around 2920 letters, with a minimum of 232 letters and a maximum of 12193 letters.

```
--- Individual File Analysis for stories medias.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
     Column
                 Non-Null Count Dtype
#
 0
     Unnamed: 0 1000 non-null
                                 int64
                 1000 non-null
                                 object
 1
     id
 2
     title
                 1000 non-null
                                 object
 3
     date
                 1000 non-null
                                 object
 4
                 1000 non-null
                                 object
     author
 5
                 1000 non-null
                                 object
     story
                 1000 non-null
                                 object
     topic
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
medias
          1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
أخبار اليوم: 841
الأحداث المغربية: 702
فيروس كورونا: 330
النيابة العامة: 328
محمد السادس: 275
وأضافت الجريدة: 252
التواصل الاجتمايّي: 248
خبر آخر: 243
ووفق المنبر: 226
رصيف صحافة: 225
Length of Examples in Words:
          1000.000000
count
           414.966000
mean
           213.819339
std
            35.000000
min
25%
           250.750000
50%
           426.500000
75%
           545.000000
          1807.000000
max
Name: num_words, dtype: float64
```



```
Length of Examples in Letters:

count 1000.000000

mean 2920.459000

std 1497.502209

min 232.000000

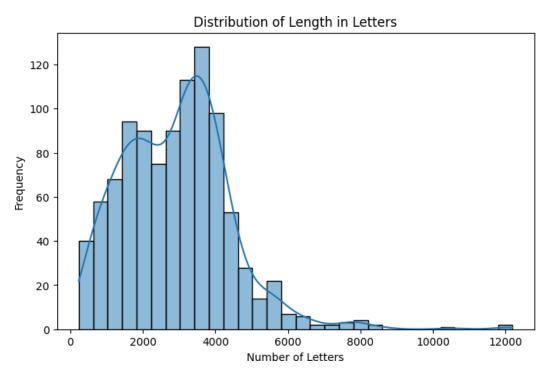
25% 1771.000000

50% 2982.500000

75% 3805.750000

max 12193.000000

Name: num_letters, dtype: float64
```

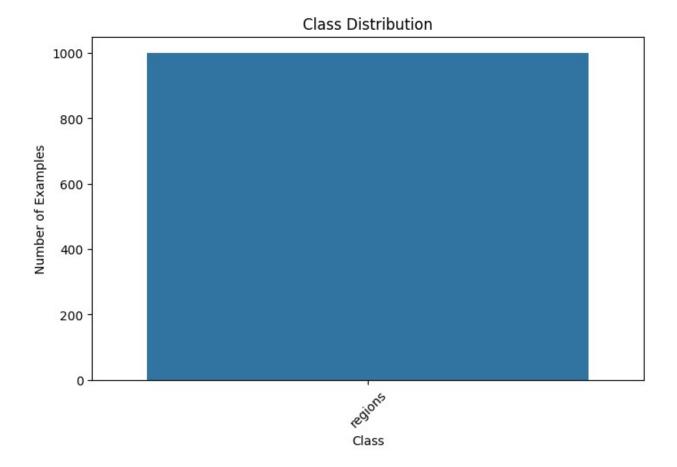


Dataset: stories regions.csv

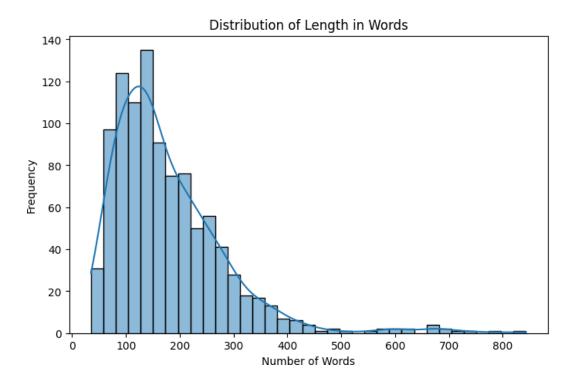
- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "regions" category.
- The top 10 frequent 2-grams (word pairs) in the stories are related to regional topics, like "كورونا المستجد" (Case in the region).

- Class Distribution: All 1000 entries belong to the "regions" category.
- Top 2-grams: Frequent word pairs include "19 كورونا "كورونا المستجد," "بفيروس كورونا," "كورونا المستجد," "بفيروس كورونا," "كوفيد 19"
- Length of Examples in Words: The average story contains around 178 words, with a minimum of 35 words and a maximum of 843 words.
- Length of Examples in Letters: The average story contains around 1248 letters, with a minimum of 252 letters and a maximum of 5841 letters.

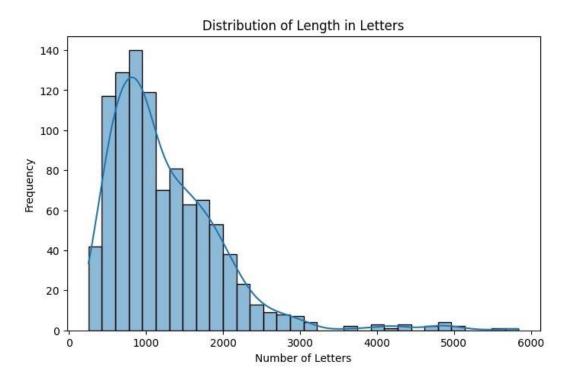
```
--- Individual File Analysis for stories regions.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
                 Non-Null Count Dtype
 # Column
 0
     Unnamed: 0 1000 non-null
                                int64
 1
    id
                 1000 non-null
                                object
 2
    title
                 1000 non-null
                                object
 3
     date
                 1000 non-null
                                object
 4
     author
                 1000 non-null
                                object
 5
     story
                 1000 non-null
                                object
     topic
                1000 non-null
                                object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
regions
          1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
كورونا المستجد: 515
بفيروس كورونا: 500
كوفيد 19: 432
حالةً بإقليم: 354
الدار البيضاء: 351
فيروسُ كورونا: 274
بني ملال: 263
المديرية الجهوية: 227
الجهوية للصحة: 220
إصابة جديدة: 207
Length of Examples in Words:
           1000.000000
count
mean
            177.859000
std
            106.605947
             35.000000
min
25%
            104.000000
50%
            151.000000
75%
            222.500000
            843.000000
Name: num_words, dtype: float64
```



```
Length of Examples in Letters:
count 1000.00000
          1247.73300
mean
           752.44526
std
min
           252.00000
25%
           732.75000
          1054.00000
50%
75%
          1610.25000
          5841.00000
max
Name: num_letters, dtype: float64
```

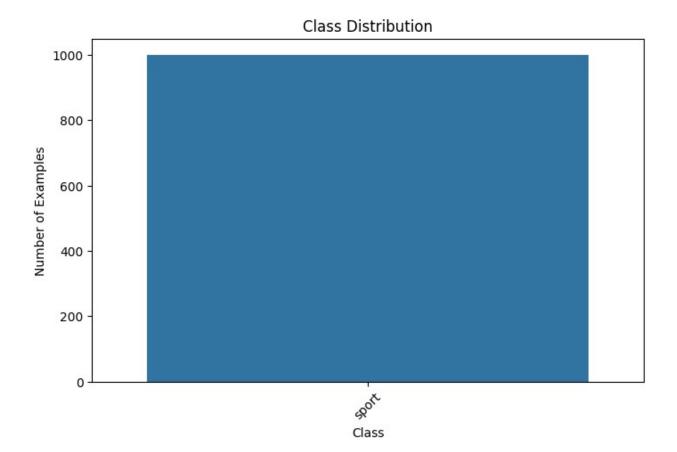


Dataset: stories sport.csv

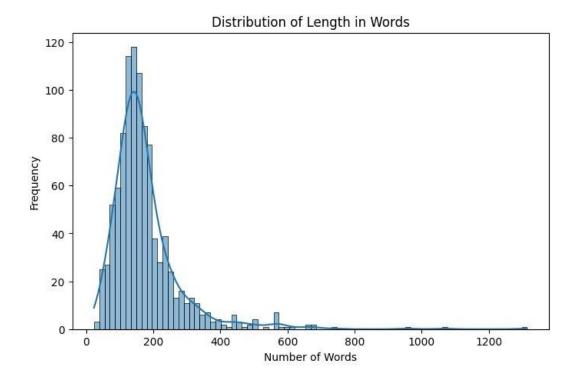
- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "sport" category.
- The top 10 frequent 2-grams (word pairs) in the stories are related to sports, such as " كرونا (Football), "كورونا المستجد" (Moroccan Royal Family), and "كورونا المستجد" (New coronavirus).

- Class Distribution: All 1000 entries belong to the "sport" category.
- Top 2-grams: Frequent word pairs include "لكرة القدم," "فيروس كورونا," "الدولي المغربي," and others.
- Length of Examples in Words: The average story contains around 176 words, with a minimum of 23 words and a maximum of 1314 words.
- Length of Examples in Letters: The average story contains around 1200 letters, with a minimum of 142 letters and a maximum of 8681 letters.

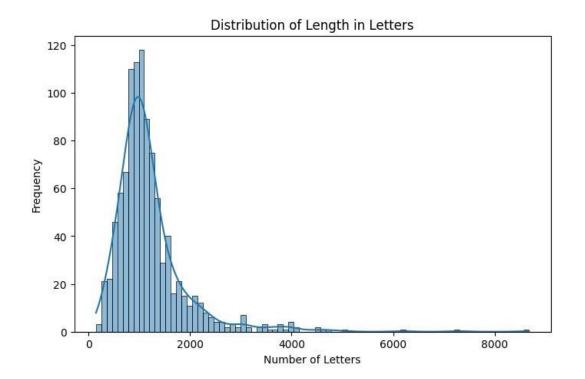
```
--- Individual File Analysis for stories sport.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
   Column
                Non-Null Count Dtype
   Unnamed: 0 1000 non-null
                               int64
         1000 non-null
                               object
1
2
    title
               1000 non-null
                               object
3
               1000 non-null
                               object
    date
                1000 non-null
                               object
    author
5
                1000 non-null
                               object
    story
    topic
                1000 non-null
                               object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
sport 1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
لكرة القدم: 1038
غيروس كورونا: 372
الدولي المغربي: 317
كرة القدم: 284
البالغ العمر: 250
الموسم الحالي: 239
كورونا المستجد: 229
الملكية المغربية: 193
المغربية لكّرة: 174
الطاقم التقني: 148
Length of Examples in Words:
count
            1000.000000
mean
             175.528000
             108.658547
std
              23.000000
min
25%
             118.000000
50%
             150.500000
75%
             197.000000
            1314.000000
max
Name: num_words, dtype: float64
```



```
Length of Examples in Letters:
count 1000.000000
          1199.855000
mean
           741.178671
std
           142.000000
min
25%
           809.000000
50%
          1027.000000
75%
          1342.500000
          8681.000000
max
Name: num_letters, dtype: float64
```

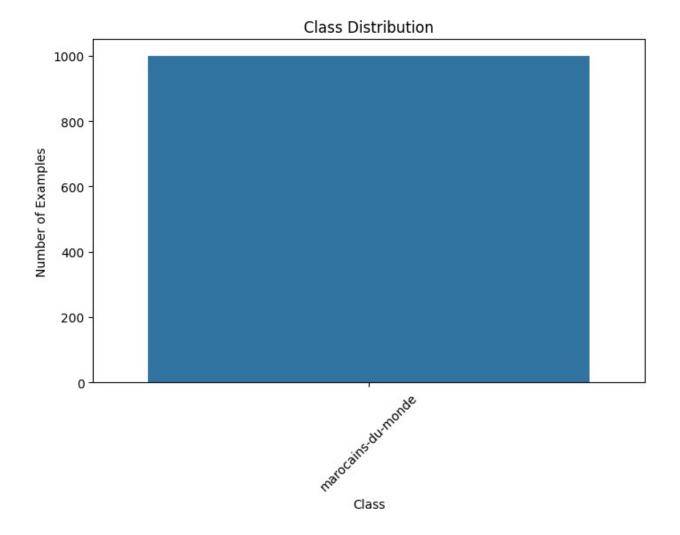


Dataset: stories marocains-du-monde.csv

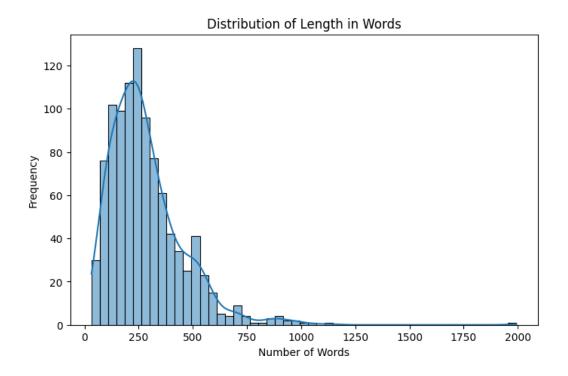
- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "marocains-du-monde" category (Moroccans living abroad).
- The top 10 frequent 2-grams (word pairs) in the stories are related to Moroccans living abroad, such as "الجالية المغربية" (Moroccan community) and "مغاربة العالم" (Moroccans of the world).

- Class Distribution: All 1000 entries belong to the "marocains-du-monde" category.
- Top 2-grams: Frequent word pairs include "المقيمين بالخارج" "المقيمين بالخارج" "nad others.
- Length of Examples in Words: The average story contains around 283 words, with a minimum of 32 words and a maximum of 1994 words.
- Length of Examples in Letters: The average story contains around 2028 letters, with a minimum of 225 letters and a maximum of 13864 letters.

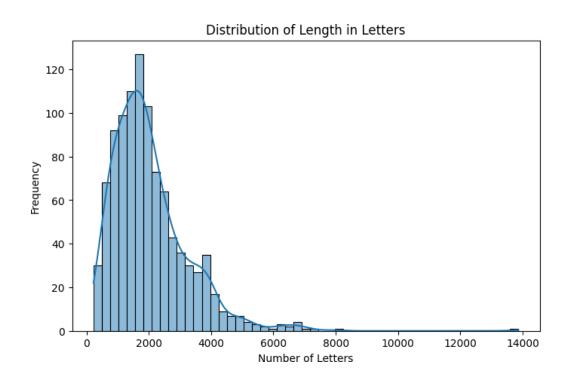
```
--- Individual File Analysis for stories marocains-du-monde.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
    Column
                 Non-Null Count Dtype
    Unnamed: 0 1000 non-null
                                 int64
                 1000 non-null
     id
                                 object
     title
                 1000 non-null
                                 object
     date
                 1000 non-null
                                 object
                 1000 non-null
     author
                                 object
                 1000 non-null
                                 object
     story
                 1000 non-null
     topic
                                 object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
Class Distribution:
marocains-du-monde
                      1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
الجالية المغربية: 610
مغاربة العاّلم: 476
المقيمين بالخارج: 372
المغاربة العالقين: 354
أُفَراد الجالية: 273
المغربية المقيمة: 222
فيروس كورونا: 221
المغاربة المقيمين: 218
محمد السادس: 176
بالمغاربة المقيمين: 163
Length of Examples in Words:
count
           1000.000000
            283.390000
mean
            173.448443
std
min
             32.000000
25%
            164.000000
50%
            247.000000
75%
            357.250000
          1994.000000
max
Name: num_words, dtype: float64
```



```
Length of Examples in Letters: count 1000.000000
           2027.658000
mean
std
           1231.865623
            225.000000
min
           1186.000000
25%
50%
           1785.500000
           2549.500000
75%
          13864.000000
max
Name: num_letters, dtype: float64
```



Dataset: stories economie.csv

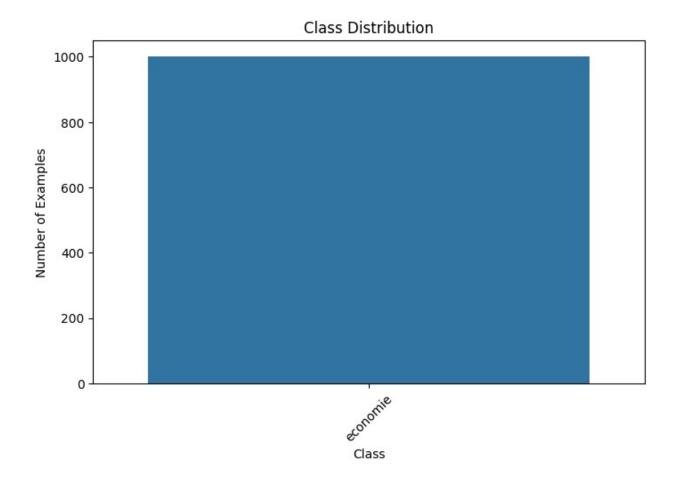
- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "economie" category (economy).
- The top 10 frequent 2-grams (word pairs) in the stories are related to economic terms, such as "مليار درهم" (Billion dirhams) and "جائحة كورونا" (Coronavirus pandemic).

Here are some insights and summary statistics:

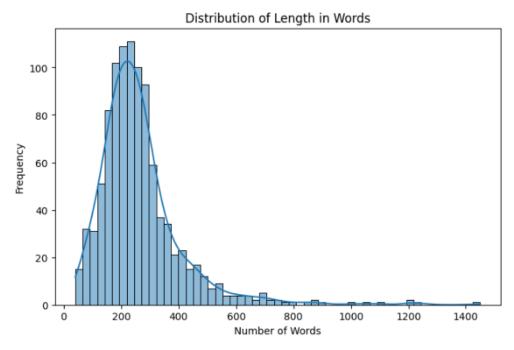
Class Distribution: All 1000 entries belong to the "economie" category.

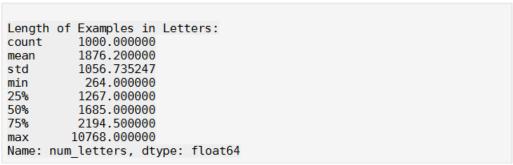
- Top 2-grams: Frequent word pairs include "كورونا المستجد" and others.
- Length of Examples in Words: The average story contains around 265 words, with a minimum of 40 words and a maximum of 1450 words.
- Length of Examples in Letters: The average story contains around 1876 letters, with a minimum of 264 letters and a maximum of 10768 letters.

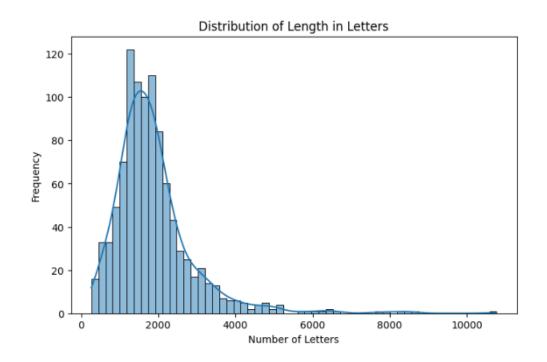
```
--- Individual File Analysis for stories economie.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
    Column
               Non-Null Count Dtype
                _____
0 Unnamed: 0 1000 non-null int64
                1000 non-null object
 1
    id
   title 1000 non-null
 2
                               object
3
    date
               1000 non-null
                               object
4
    author
                1000 non-null
                               object
5
               1000 non-null
    story
                               object
    topic
                1000 non-null
                               object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
economie
           1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
مليّار درهم: 586
فيروس كورونا: 508
كورونا المستجد: 312
كوفيد 19: 304
الحجر الصحي: 279
جائحة كوروناً: 256
مليارات درهم: 251
مُليُون درَهمٰ: 246
السنة الجارية: 238
الاقتصاد والمالّية: 210
Length of Examples in Words:
           1000.000000
count
mean
             264.703000
             147.975178
std
             40.000000
min
25%
             179.000000
50%
            238.500000
75%
            309.000000
           1450.000000
max
Name: num_words, dtype: float64
```





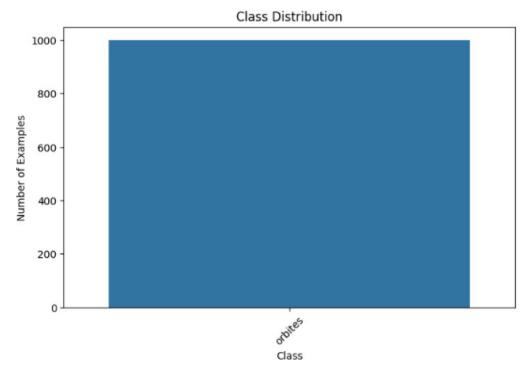


Dataset: stories orbites.csv

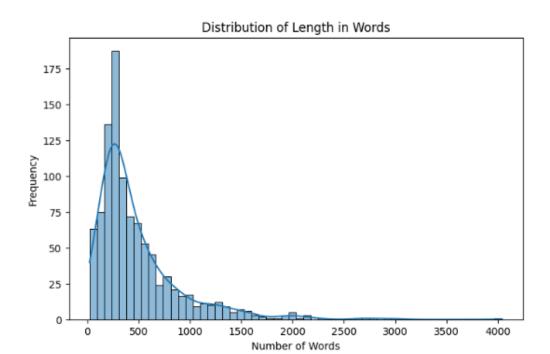
- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "orbites" category (space-related).
- The top 10 frequent 2-grams (word pairs) in the stories include terms related to space and events like "الأمم المتحدة" (Coronavirus) and "الأمم المتحدة" (United Nations).

- Class Distribution: All 1000 entries belong to the "orbites" category.
- Top 2-grams: Frequent word pairs include "محمد السادس, 19 "محمد السادس, and others." "محمد السادس, and others."
- Length of Examples in Words: The average story contains around 481 words, with a minimum of 21 words and a maximum of 4040 words.
- Length of Examples in Letters: The average story contains around 3413 letters, with a minimum of 123 letters and a maximum of 27217 letters.

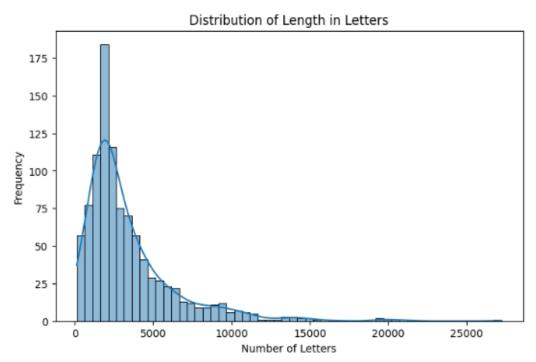
```
--- Individual File Analysis for stories orbites.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
                Non-Null Count Dtype
    Column
    Unnamed: 0 1000 non-null
                                int64
1
                1000 non-null
                                object
    id
2
    title
                1000 non-null
                                object
                1000 non-null
                                object
    date
    author
                1000 non-null
                                object
    story
                1000 non-null
                                object
    topic
                1000 non-null
                                object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
          1000
orbites
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
فيروسٰ كورونا: 414
كوفيد 19: 402
محمد السادس: 330
الولايات المتحدة: 289
الملك محمد: 277
جائحة كورونا: 246
الحجر الصحي: 234
الأمم المتحدة: 212
كورونا المستجدد 195
صلى الله: 192
Length of Examples in Words:
          1000.000000
count
           480.672000
mean
std
           429.339582
            21.000000
min
25%
           229.750000
50%
           333.500000
75%
           594.250000
          4040.000000
Name: num_words, dtype: float64
```



```
Length of Examples in Letters:
count
          1000.000000
mean
          3412.555000
std
          3006.370769
min
           123.000000
25%
          1640.000000
50%
          2395.500000
75%
          4170.000000
max
         27217.000000
Name: num_letters, dtype: float64
```

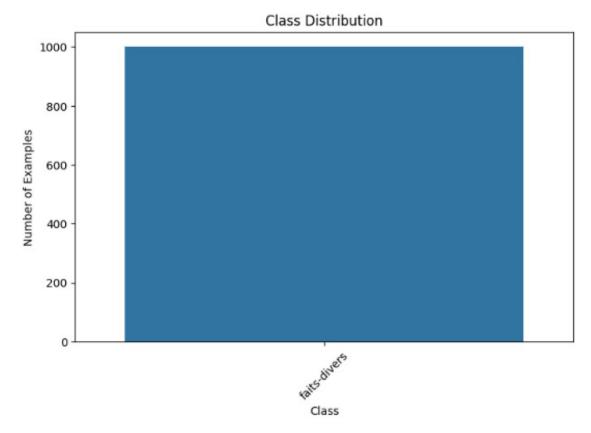


Dataset: stories faits-divers.csv

- The dataset contains 1000 entries and 7 columns.
- The class distribution shows that all examples belong to the "faits-divers" category (miscellaneous incidents).
- The top 10 frequent 2-grams (word pairs) in the stories include terms related to incidents and authorities like "النيابة العامة" (Public Prosecution) and "الشرطة القضائية" (Judicial Police).

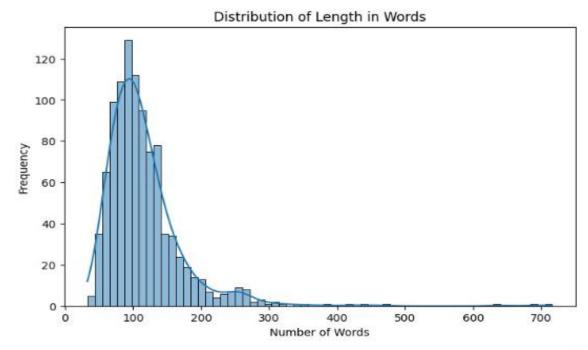
- Class Distribution: All 1000 entries belong to the "faits-divers" category.
- Top 2-grams: Frequent word pairs include "النيابة العامة," "العامة المختصة," "الحراسة النظرية," and others.
- Length of Examples in Words: The average story contains around 116 words, with a minimum of 33 words and a maximum of 716 words.
- Length of Examples in Letters: The average story contains around 803 letters, with a minimum of 264 letters and a maximum of 4862 letters.

```
--- Individual File Analysis for stories faits-divers.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
    Column Non-Null Count Dtype
    Unnamed: 0 1000 non-null
                                int64
1
    id
               1000 non-null object
2
    title
                1000 non-null
                                object
3
                1000 non-null
    date
                                object
    author
 4
                1000 non-null
                               object
5
    story
                1000 non-null
                                object
    topic
                1000 non-null
                              object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
faits-divers
              1000
Name: topic, dtype: int64
```

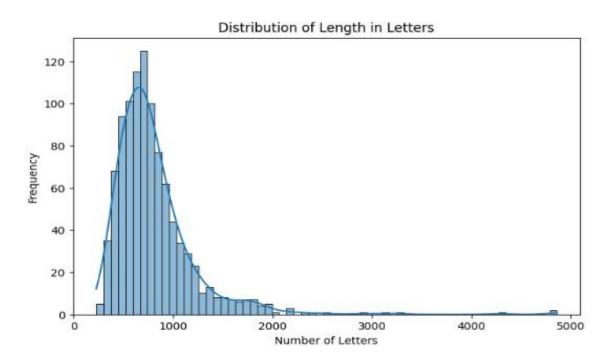


```
Top 10 Frequent 2 -grams:
النيابة العامة: 730
العامة المختصة: 554
الحراسة النظرية: 408
الّدرك الملكّي: 343
تدبير الحراسة: 239
مصادر هسبریس: 239
إِشْرَافِ النّيابة: 228
الشرطة القضائية: 225
لَلْأَمَنَ الوطني: 221
رهن إِشارة: 215
Length of Examples in Words:
count
          1000.0000
           116.4600
mean
std
            60.3919
min
            33.0000
25%
            80.0000
50%
           104.0000
75%
           134.2500
           716.0000
max
```

Name: num words, dtype: float64



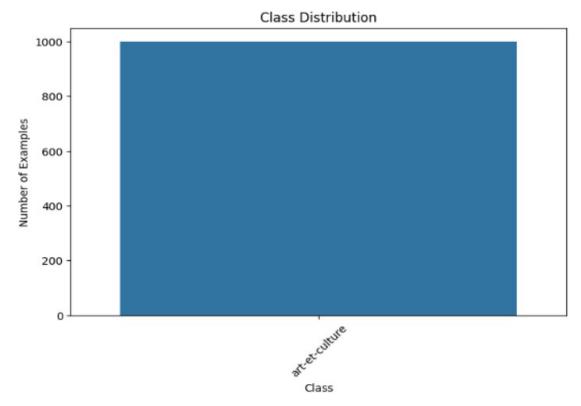
```
Length of Examples in Letters:
count 1000.000000
mean 802.796000
std 418.832727
min 226.000000
25% 553.000000
50% 712.500000
75% 922.250000
max 4862.000000
Name: num_letters, dtype: float64
```



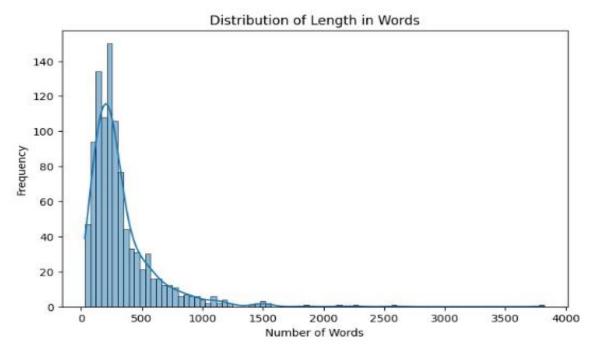
- The class distribution shows that all examples belong to the "art-et-culture" category (art and culture).
- The top 10 frequent 2-grams (word pairs) in the stories include terms related to culture, art, and social media like "وزارة الثقافة" (Ministry of Culture) and "التواصل الاجتماعي" (Social media).

- Class Distribution: All 1000 entries belong to the "art-et-culture" category.
- Top 2-grams: Frequent word pairs include "وزارة الثقافة," "فيروس كورونا," "التواصل الاجتماعي," and others.
- Length of Examples in Words: The average story contains around 327 words, with a minimum of 31 words and a maximum of 3823 words.
- Length of Examples in Letters: The average story contains around 2299 letters, with a minimum of 217 letters and a maximum of 25279 letters.

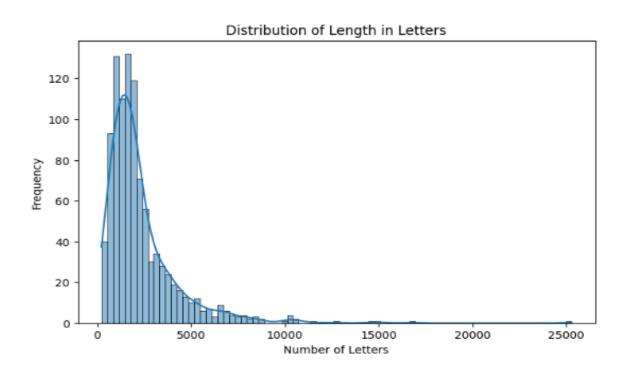
```
--- Individual File Analysis for stories art-et-culture.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
    Column
                Non-Null Count Dtype
    Unnamed: 0 1000 non-null
Θ
                                int64
1
    id
                1000 non-null
                                object
2 title
                1000 non-null
                                object
3
    date
                1000 non-null
                                object
    author
                1000 non-null
                                object
5
    story
                1000 non-null
                                object
    topic
                1000 non-null
                                object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
art-et-culture
                 1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
وزارة الثقافة: 151
فيروس كورونا: 138
والشباب والرياضة: 135
الثقافة والشباب: 132
التواصل الأجتماعي: 127
اللغة العربية: 116
محمد السادس: 100
جائحة كورونا: 95
الدار البيّضّاء: 95
وزير الثقافة: 87
Length of Examples in Words:
count
           1000.000000
mean
            327.024000
std
            292.535564
min
            31.000000
25%
            158.000000
50%
            245.500000
75%
            384.250000
max
           3823.000000
Name: num_words, dtype: float64
```



```
Length of Examples in Letters:
count
          1000.000000
mean
          2298.729000
std
          2014.367807
           217.000000
min
25%
          1103.500000
50%
          1742.000000
75%
          2668.250000
max
         25279.000000
Name: num_letters, dtype: float64
```

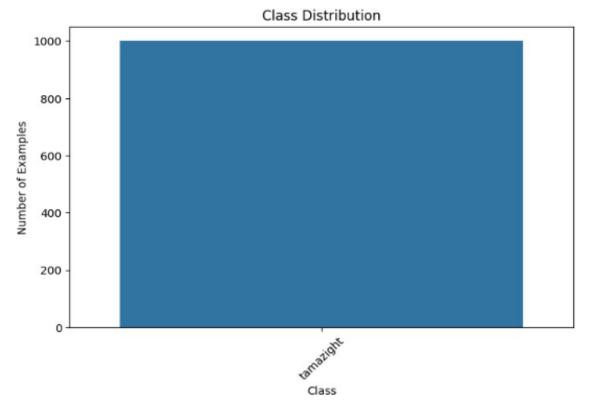


Dataset: stories_tamazight.csv

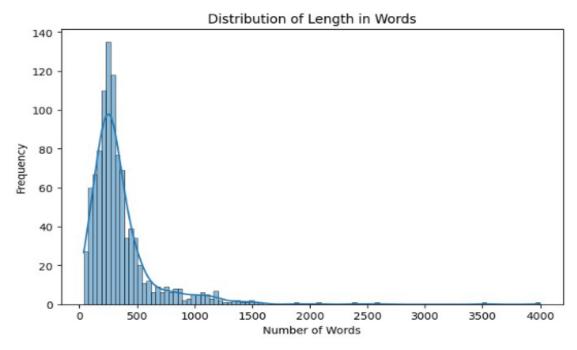
- The 'stories_tamazight.csv' dataset comprises 1,000 entries and 7 columns. A
- Il examples in this dataset are categorized under the "tamazight" topic, demonstrating a balanced class distribution.
- Top 10 frequent 2-grams (word pairs) in the stories primarily revolve around Amazigh (Berber) language and cultural themes. Noteworthy 2-grams include "اللغة الأمازيغية" (The Amazigh language), "الثقافة الأمازيغية" (Amazigh culture), and other phrases that reflect the rich Amazigh heritage.

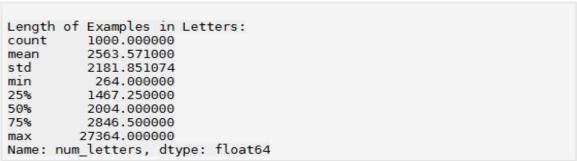
- Class Distribution: All 1,000 entries belong to the "tamazight" category.
- Top 2-grams: Frequent word pairs highlight Amazigh language and cultural themes.
- Length of Examples in Words: Stories range from short to long narratives, with an average of approximately 357 words.
- Length of Examples in Letters: The average story consists of around 2333 letters, revealing the diversity in story lengths.

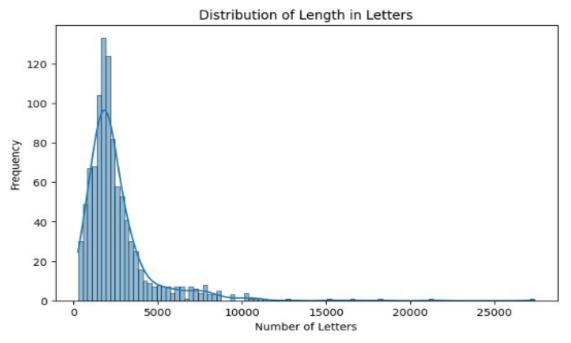
```
--- Individual File Analysis for stories tamazight.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
    Column
                Non-Null Count Dtype
    Unnamed: 0 1000 non-null
Θ
                                int64
 1
    id
                1000 non-null
                                object
              1000 non-null
2
    title
                                object
 3
    date
                1000 non-null
                                object
     author
 4
                1000 non-null
                                object
 5
                1000 non-null
                                object
     storv
     topic
                1000 non-null
                                object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
tamazight
           1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
اللغة الأمازيغية: 900
القانون التنظيمي: 622
للثقافة الأمازيغية: 548
الطابع الرسمي: 521
الملكَّي للَّثقافةُ: 501
الحركة الأمازيغية: 449
الرسمي للأمازيغية: 446
المعهد الملكي: 417
السنة الأمازيغية: 381
مشروع القاّنون: 322
Length of Examples in Words:
count
          1000.000000
mean
            357.165000
std
            315.515775
min
             38.000000
25%
            200.750000
50%
            275.000000
75%
            395.000000
           3999.000000
Name: num_words, dtype: float64
```



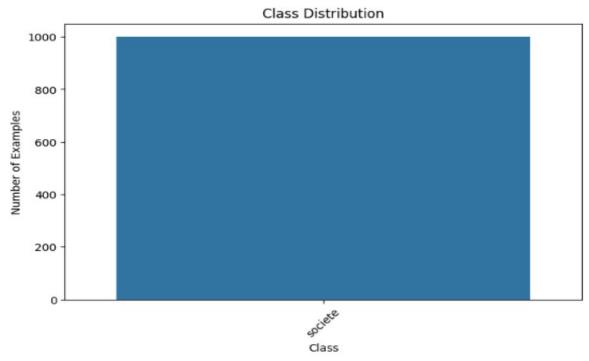




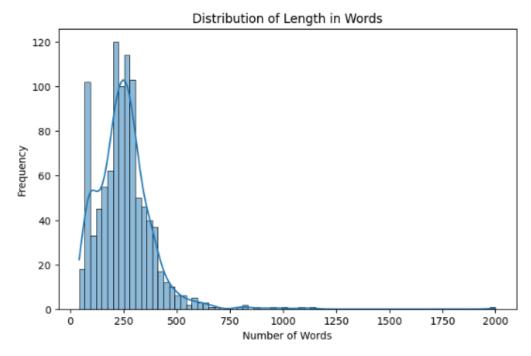
- The 'stories societe.csv' dataset includes 1,000 entries and 7 columns.
- Similar to the previous dataset, all examples fall under the "societe" topic, demonstrating a uniform class distribution.
- The top 10 frequent 2-grams (word pairs) in the stories predominantly pertain to societal topics and issues. Notable 2-grams comprise "كوفيد (Ministry of Health), "19 اوزارة الصحة" (COVID-19), and other phrases related to social and health matters, indicating that the stories encompass a wide range of societal themes.

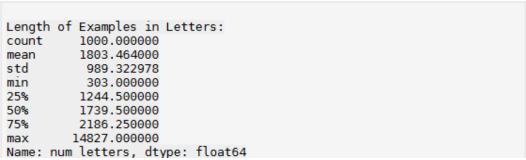
- Class Distribution: All 1,000 entries belong to the "societe" category.
- Top 2-grams: Frequent word pairs highlight various societal topics and health-related matters.
- Length of Examples in Words: Stories vary in length, with an average of approximately 253 words.
- Length of Examples in Letters: The average story consists of around 1803 letters, indicating diversity in the complexity and depth of societal narratives.

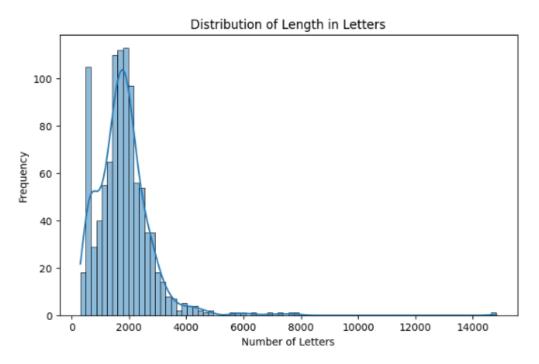
```
--- Individual File Analysis for stories_societe.csv ---
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):
   Column
               Non-Null Count Dtype
   Unnamed: 0 1000 non-null
                               int64
0
    id 1000 non-null
                               object
1
               1000 non-null
                               object
2
    title
               1000 non-null
                               object
   date
    author
               1000 non-null
                               object
   story
               1000 non-null
                               object
6 topic
               1000 non-null
                               object
dtypes: int64(1), object(6)
memory usage: 54.8+ KB
None
Class Distribution:
societe 1000
Name: topic, dtype: int64
```



```
Top 10 Frequent 2 -grams:
 وزارة الصحة: 471
كوفيد 19: 428
 التربية الوطنية: 347
فيروس كورونا: 333
بفيروس كورونا: 289
الحجر الصحى: 271
 كورونا المستجدد 256
وزارة التربية: 222
هسبريس الإلكترونية: 212
الدخول المدرسي: 191
Length of Examples in Words:
 count
            1000.000000
              253.744000
 mean
 std
              138.229359
               42.000000
 min
 25%
              173.000000
 50%
              244.000000
 75%
              306.000000
max
            2000.000000
Name: num_words, dtype: float64
```







Summary of each dataset analysis:

I have performed analysis on various CSV files, each representing different topics or classes (e.g., politique, medias, regions, sport, etc.). Here are the insights from the analysis:

1. Dataset Information:

- The dataset contains a total of 1000 entries in each CSV file.
- The data has 7 columns: 'Unnamed: 0', 'id', 'title', 'date', 'author', 'story', and 'topic'.
- The 'topic' column represents the class distribution for each file.

2. Class Distribution:

- Each CSV file represents a specific topic, and each topic has 1000 examples.
- The class distribution shows the number of examples for each topic.

3. Top 10 Frequent 2-grams:

- For each CSV file, the top 10 most frequent 2-grams have been identified based on the 'story' content.
- The 2-grams represent pairs of adjacent words that appear most frequently in the text.

4. Length of Examples:

- The length of examples is analyzed in terms of word count and letter count.
- The word count statistics (mean, standard deviation, min, max) for each file indicate the average and variation in the number of words per example.
- The letter count statistics (mean, standard deviation, min, max) for each file indicate the average and variation in the number of letters per example.

Overall, the analysis gives an overview of the content and distribution of each CSV file, providing valuable insights into the data and its characteristics for each topic.

Overview Analysis of All 'stories' Files

Here are the insights from the analysis:

1. Dataset Information:

- The combined dataset contains a total of 11,000 entries.
- Each entry has 7 columns: 'Unnamed: 0', 'id', 'title', 'date', 'author', 'story', and 'topic'.
- The 'topic' column represents the class distribution for each entry.

2. Class Distribution:

- Each 'stories' file corresponds to a specific topic, and there are 1,000 examples for each topic.
- The class distribution shows the number of examples for each topic, and all topics have an equal number of examples.

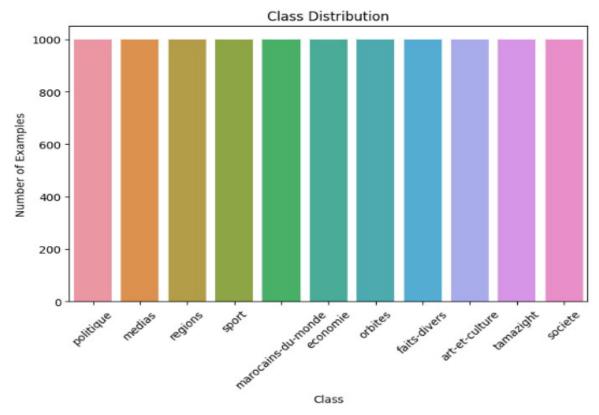
3. Top 10 Frequent 2-grams:

- The top 10 most frequent 2-grams have been identified based on the 'story' content across all 'stories' files.
- The most common 2-grams include phrases related to "فيروس كورونا" (Coronavirus), " كوفيد " (COVID-19), and other related terms.

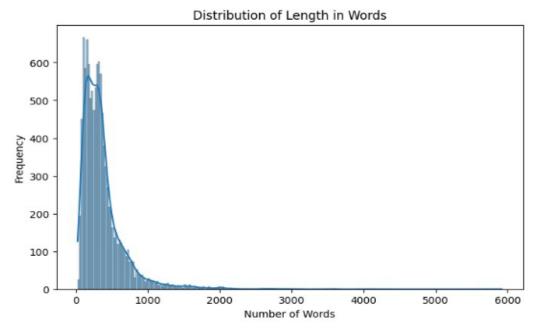
4. Length of Examples:

- The length of examples is analyzed in terms of word count and letter count.
- The 'num_words' column provides statistics (count, mean, standard deviation, min, 25%, 50%, 75%, max) for the number of words in each example.
- The 'num_letters' column provides statistics (count, mean, standard deviation, min, 25%, 50%, 75%, max) for the number of letters in each example.

Overall, the analysis gives an overview of the content and distribution of the 'stories' dataset, providing valuable insights into the data and its characteristics. The dataset contains various topics, and each example has a different length in terms of words and letters. The top frequent 2-grams suggest the prevalence of certain phrases and topics in the stories.



```
Top 10 Frequent 2 -grams:
فيروس كورونا: 2839
كوفيد 19: 2247
كورونا المستجد: 1943
محمد السادس: 1561
الحجر الصحي: 1509
الدار البيضاء: 1443
النيابَة الْعامة: 1262
جائحة كورونا: 1256
رئيس الحكومة: 1232
بفيروس كورونا: 1230
Length of Examples in Words:
count
          11000.000000
mean
            370.494909
std
            330.396957
min
             24.000000
25%
            173.000000
            298.000000
50%
75%
            439.000000
max
           5920.000000
Name: num_words, dtype: float64
```



```
Length of Examples in Letters:
count 11000.000000
mean 2333.271636
std 2032.348676
min 134.000000
25% 1101.000000
50% 1889.000000
75% 2780.250000
max 34371.000000
Name: num_letters, dtype: float64
```

