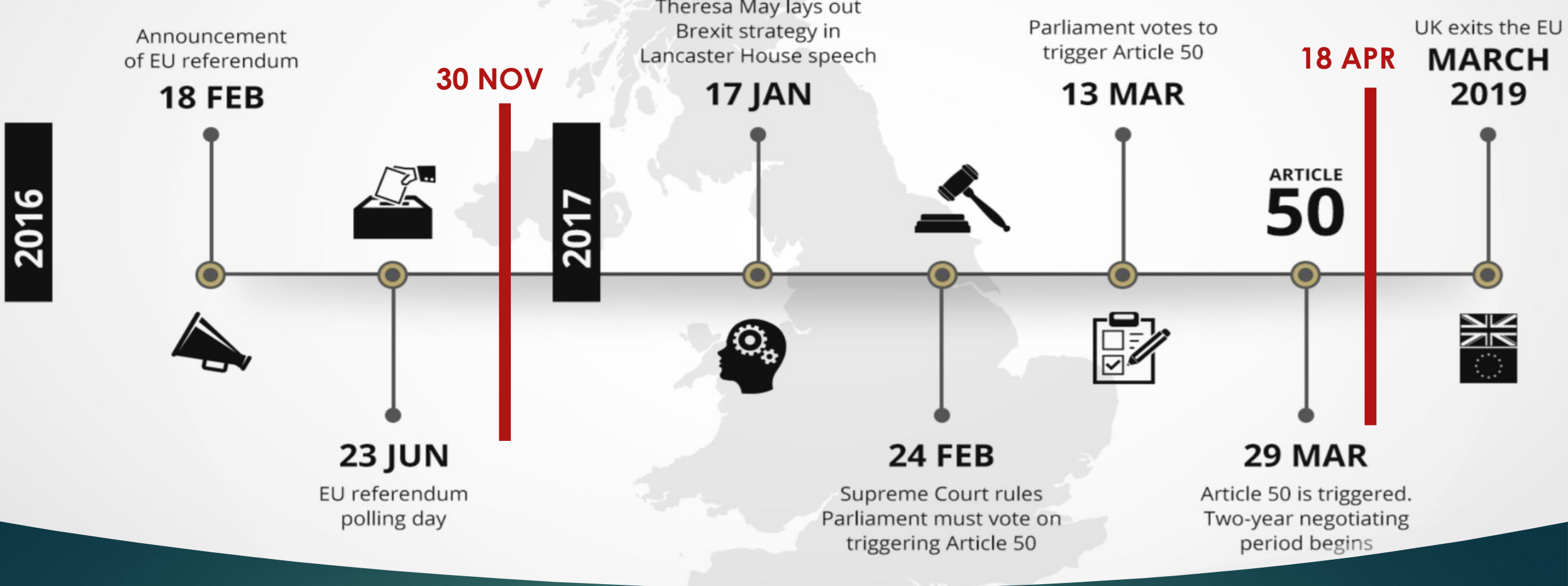


A close-up photograph showing a pair of silver scissors cutting through two flags. On the left is the Union Jack (the flag of the United Kingdom), and on the right is the European Union flag (a blue field with twelve gold stars). The scissors are positioned diagonally, with the blades meeting at the center, creating a sharp point that divides the two flags. The fabric of the flags appears slightly frayed at the cut.

BREXIT NEWS

Balducci Gianmaria 807141
Guidi Alessandro 808865



Dataset

Train_news: 779207 articoli

Test_news: 10000 articoli

	url	date
0	http://www.bloggers4ukip.org.uk/2017/01/snapch...	2017-01-10T14:53:08+00:00
1	http://atosbiz.com/aon-launches-solution-to-he...	2017-01-10T14:53:10+00:00
2	https://www.eventbrite.co.uk/e/we-demand-makin...	2017-01-10T14:53:10+00:00
3	http://www.theregister.co.uk/2017/01/09/ukclou...	2017-01-10T14:53:11+00:00
4	http://www.globalindianinvestments.com/uk-shou...	2017-01-10T14:53:16+00:00

Scraping

- ▶ Newspapers3k

- ▶ Article
- ▶ Title
- ▶ Authors
- ▶ Text
- ▶ Keywords

- ▶ Check

- ▶ Title
- ▶ Keywords
- ▶ Text

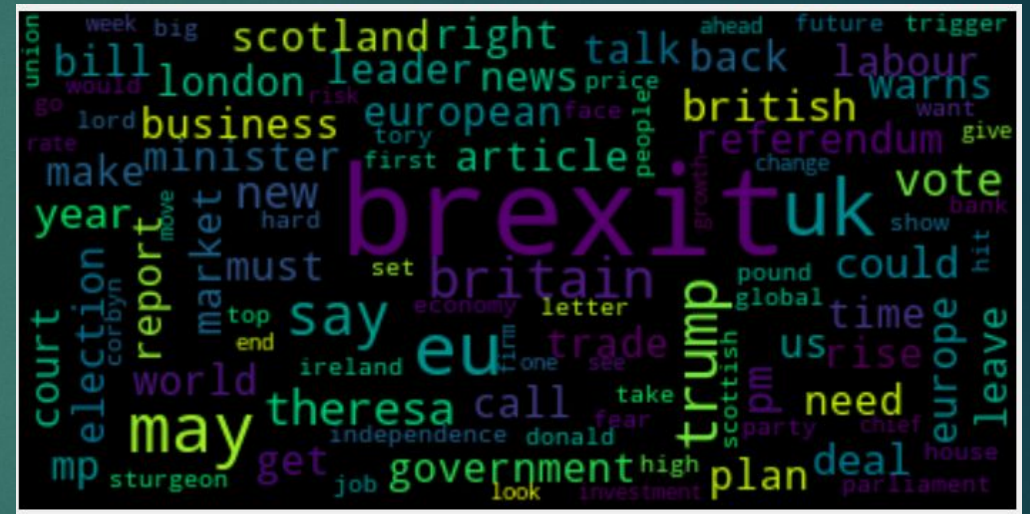


```
topic = [{"voted", "leave", "eu"},
         ["voted", "leave", "europe"],
         ["voted", "leave", "european union"],
         ["eu", "uk", "leave"],
         ["european", "uk", "leave"],
         ["labour party", "europe"],
         ["vote", "referendum", "eu"],
         ["european union", "vote"],
         ["uk", "government", "political"],
         ["exit", "eu", "voted"],
         ["exit", "uk", "voted"]]
```

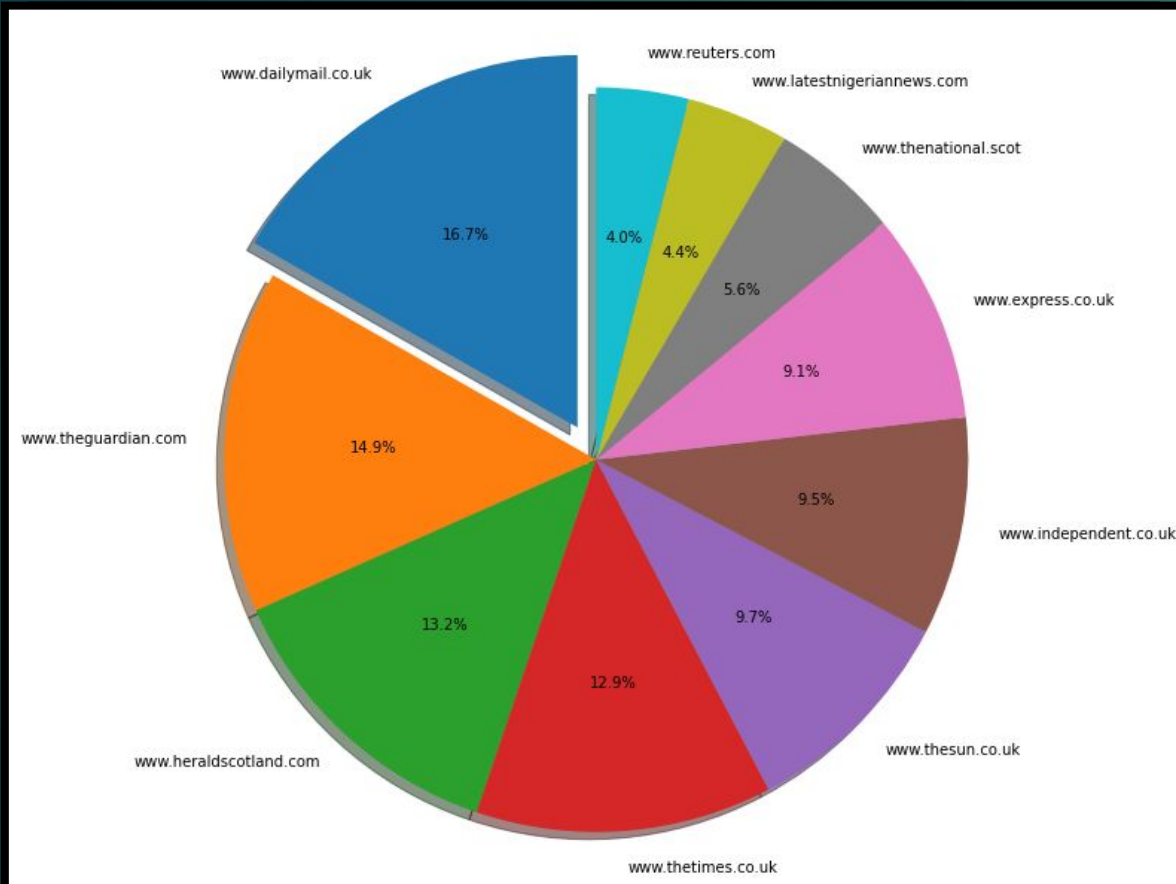
Preprocessing

- ▶ 180 articoli per ogni giorno
- ▶ Data cleaning:
 - ▶ Rimozione caratteri di escape
 - ▶ Rimozione caratteri HTML
 - ▶ Rimozione URL
 - ▶ Rimozione numeri
 - ▶ Gestione negazioni
 - ▶ Tokenizzazione
 - ▶ Rimozione StopWords
 - ▶ Rimozione punteggiatura
 - ▶ Lemmatization

- ## ► WordCloud Titoli



Data Exploration - URL



	url	occurrences	origin	ip	orientation	party
0	www.dailymail.co.uk	983	GB	23.54.196.207	Right-wing	Conservative Party
1	www.theguardian.com	874	GB	151.101.1.111	Centre-left	Labour Party
2	www.heraldsotland.com	772	GB	93.174.10.103	Centrist	NaN
3	www.thetimes.co.uk	756	GB	13.226.50.69	Centre-right	Conservative Party
4	www.thesun.co.uk	567	GB	65.8.183.118	Right-wing	Conservative Party
5	www.express.co.uk	536	GB	65.8.248.71	Right-wing	Conservative Party
6	www.thenational.scot	329	GB	93.174.10.103	Center-left	Scottish National Party
7	www.telegraph.co.uk	222	GB	104.121.97.109	Right-wing	Conservative Party
8	www.irishexaminer.com	195	IE	213.182.13.37	Centrist	NaN
9	www.independent.ie	189	IE	65.8.183.76	Centre-right	NaN
10	www.scotsman.com	172	GB	104.18.2.43	Right wing	NaN
11	www.belfasttelegraph.co.uk	138	GB	13.226.50.43	Centrism	NaN
12	www.mirror.co.uk	124	GB	65.8.183.45	Centre-left	Labour Party
13	www.themalaymailonline.com	122	MY	110.74.168.99	Moderate	NaN
14	www.ft.com	72	GB	151.101.2.109	Centrism	NaN
15	www.newstatesman.com	61	GB	151.101.2.133	Centre-left	Labour Party

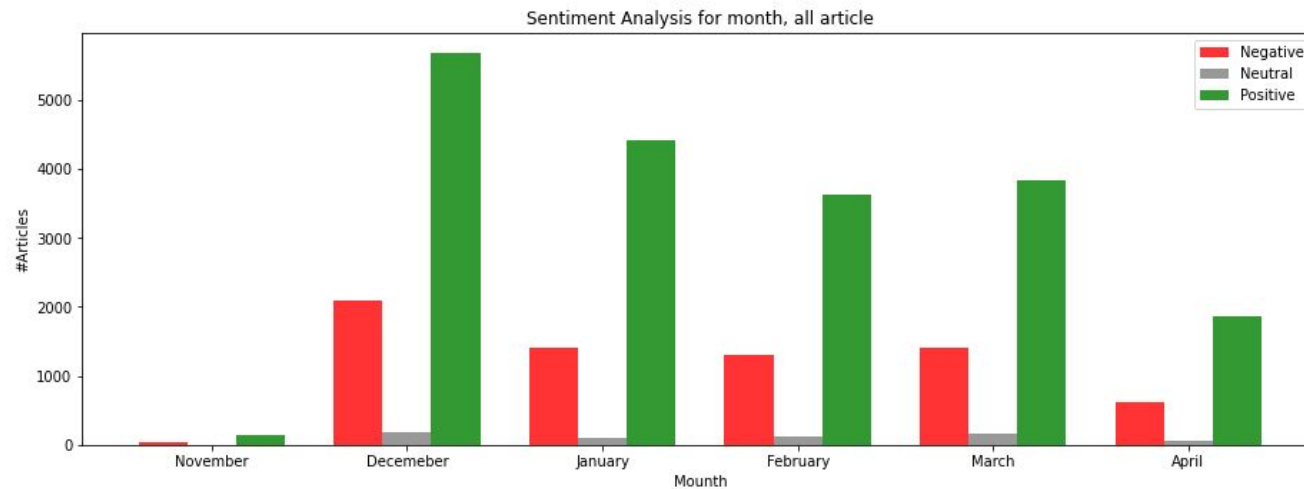
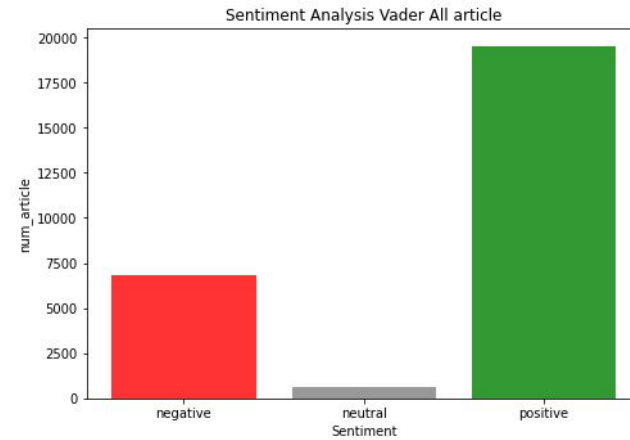
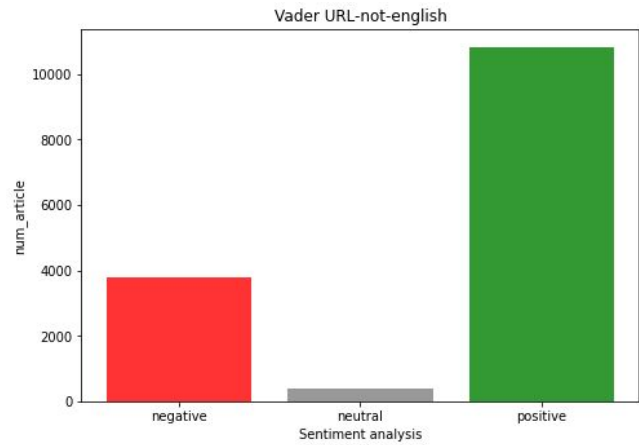
Sentiment Analysis



The diagram consists of two main components. On the left, there is a stack of three rounded rectangles: a red one at the back, a light pink one in the middle, and a white one at the front. The text 'Sentiment analysis' is centered in the pink rectangle. On the right, there is a similar stack of three rounded rectangles: a red one at the back, a light pink one in the middle, and a white one at the front. The text 'Aspect Based sentiment analysis' is centered in the pink rectangle. The entire diagram is set against a dark teal background.

Sentiment
analysis

Aspect Based
sentiment
analysis



Sentiment Analysis - Testuale

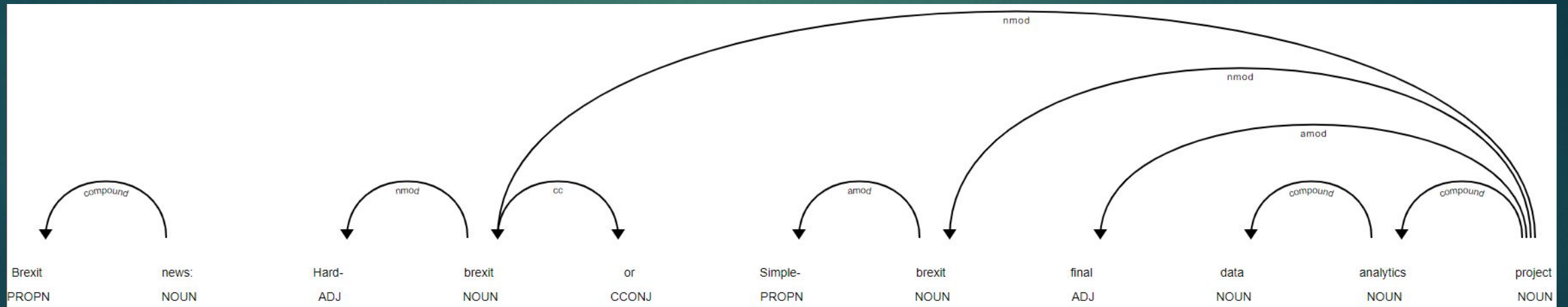
ABSA – Aspect Extraction

- ▶ Rule-based con Spacy dependency parser

Output Aspect Extraction- tupla (aspetto, descrizione)

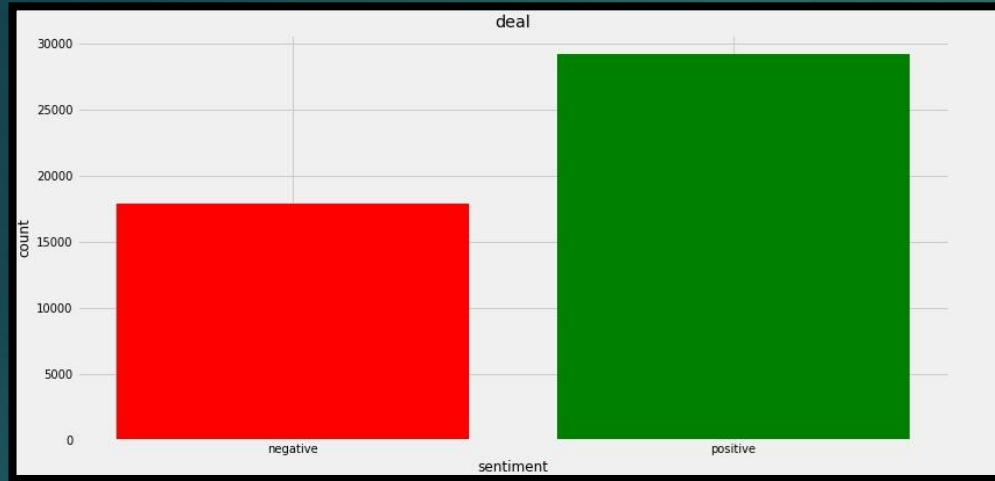
Vader applicato su descrizione M

M : descrizione aspetto
A : aspetto

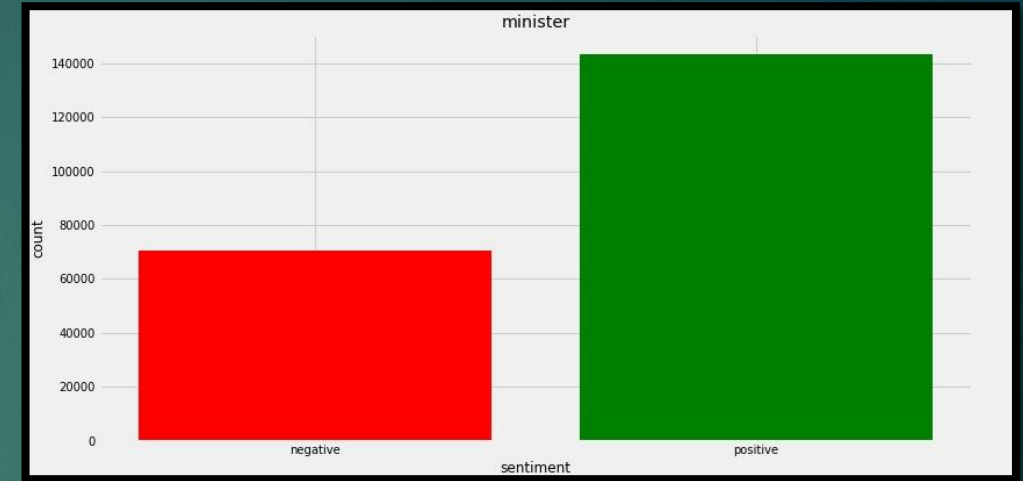


ABSA – Aspect Clustering

Deal



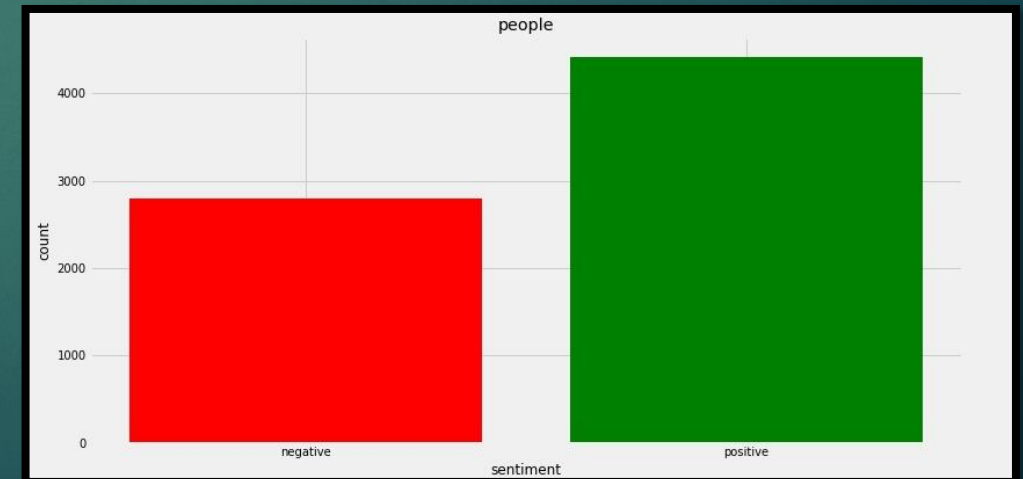
Minister



Firm



People



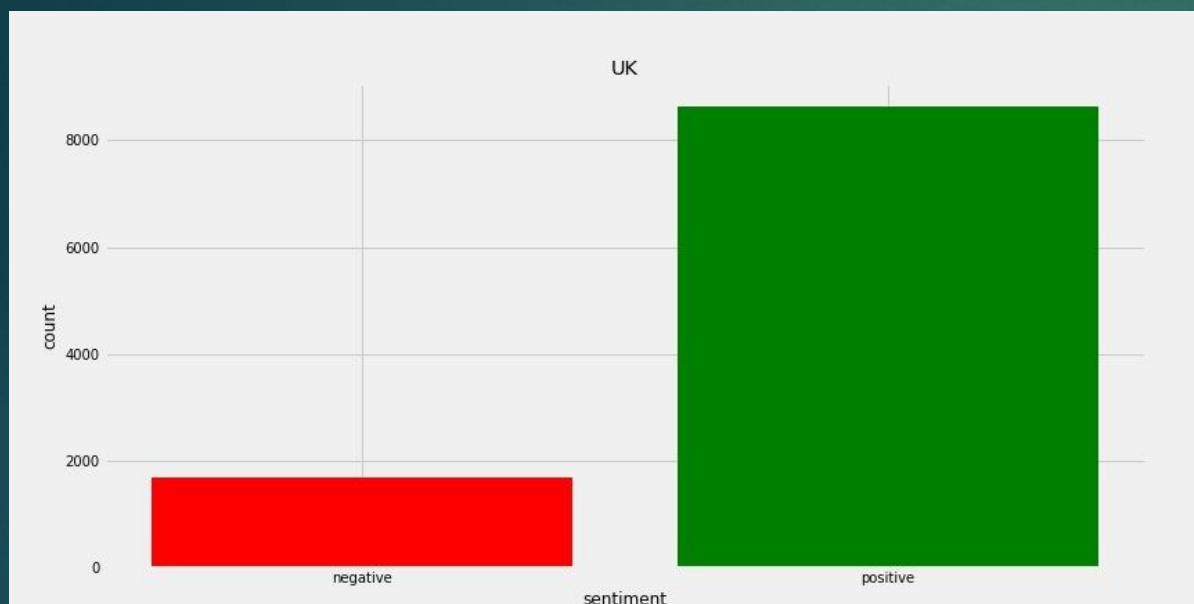
ABSA – Topic specifici

Quali sono i maggiori argomenti citati dagli articoli?

Topics	Aspetti
Labour party	corbyn, labour
Conservative party	conservative, theresa, may
Europe	"brussels", "europe", "union", "europeans", "eurosceptics", "germany", "italy", "euro", "eu"
Brexit	"brexit"
Referendum	"referendum", "vote", "election", "brexit", "poll", "exit"
Deal	"deal", "firm", "meeting", "offer", "future", "negotiation", "decision", "bill"
Economy	"trade", "economy", "market", "bank", "industry", "price", "pound", "tax", "money", "economist"
Immigration	"migration", "immigrant", "migrant", "muslim", "immigration"
USA	"us", "u.s", "trump", "dollar", "donald"
UK	"uk", "country", "britain", "kingdom", "london", "scotland", "england"

Analisi

UK

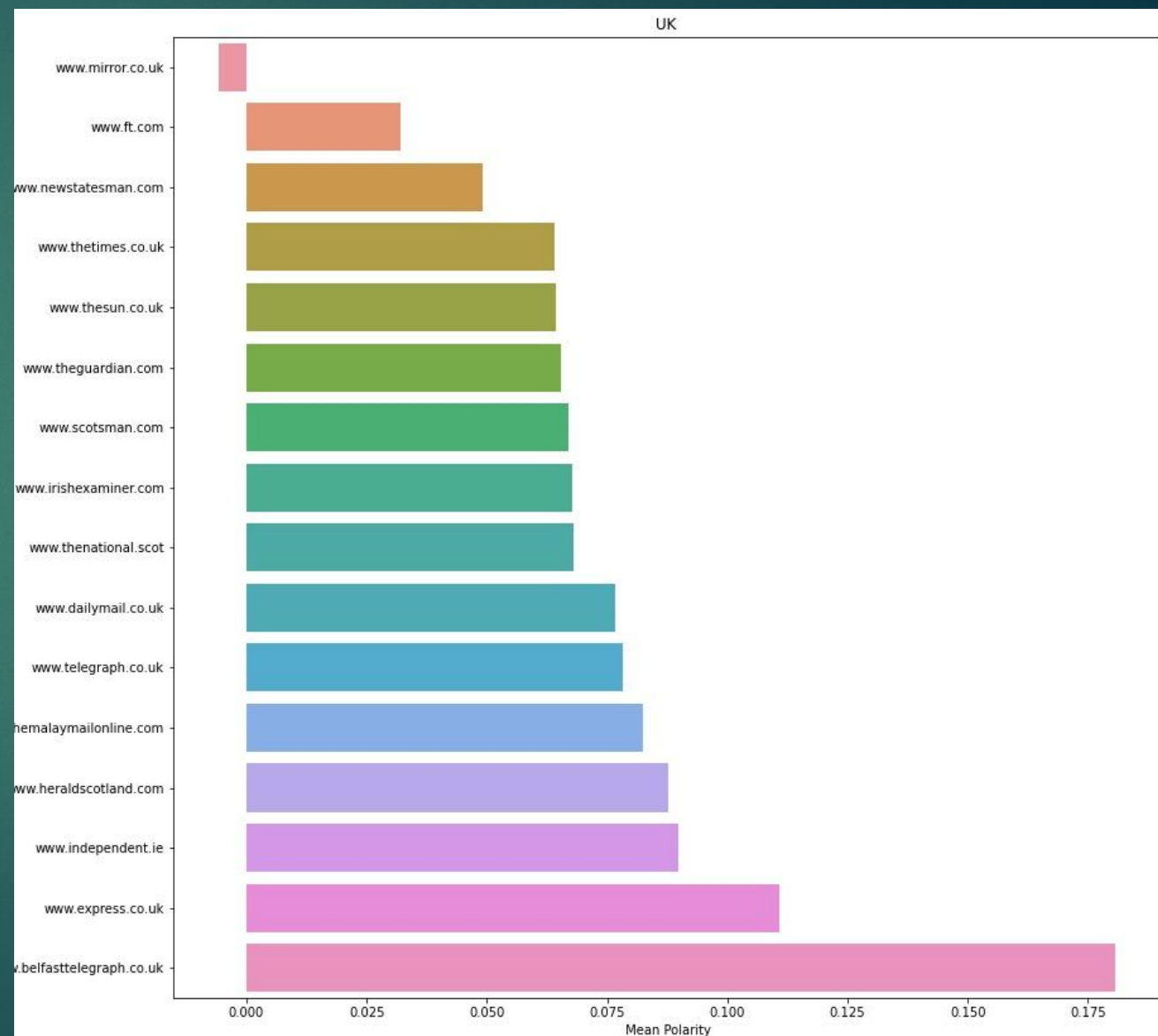


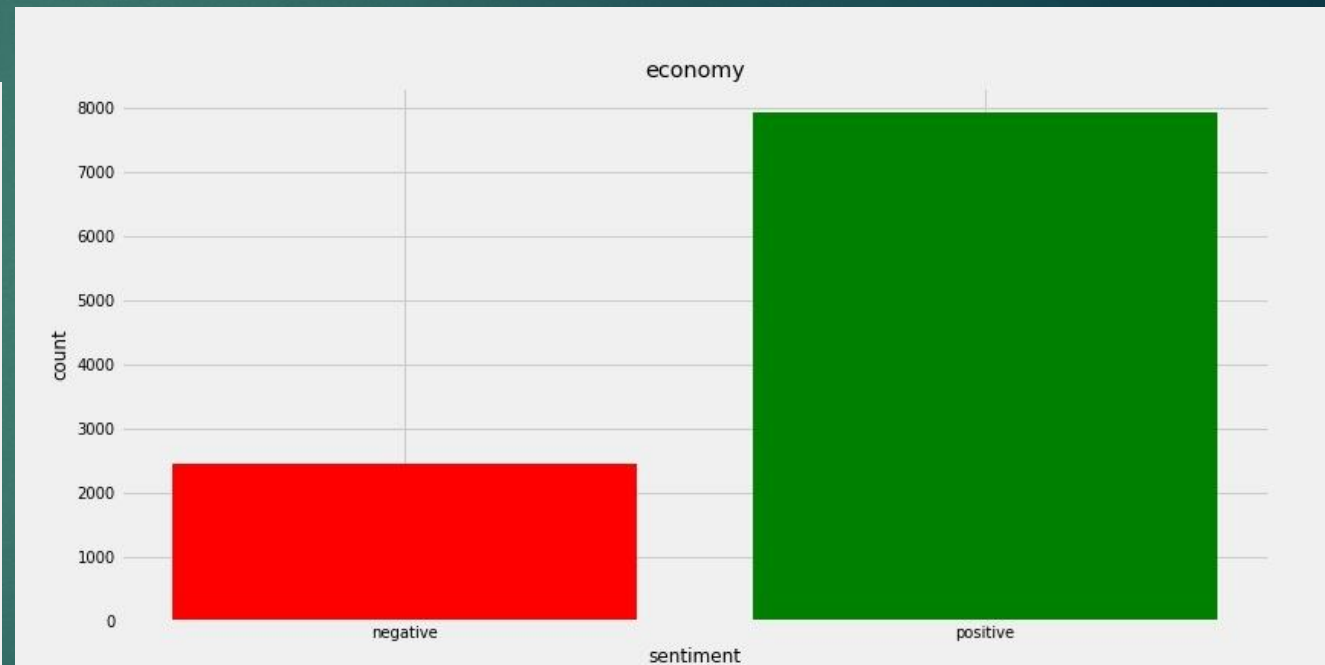
UK

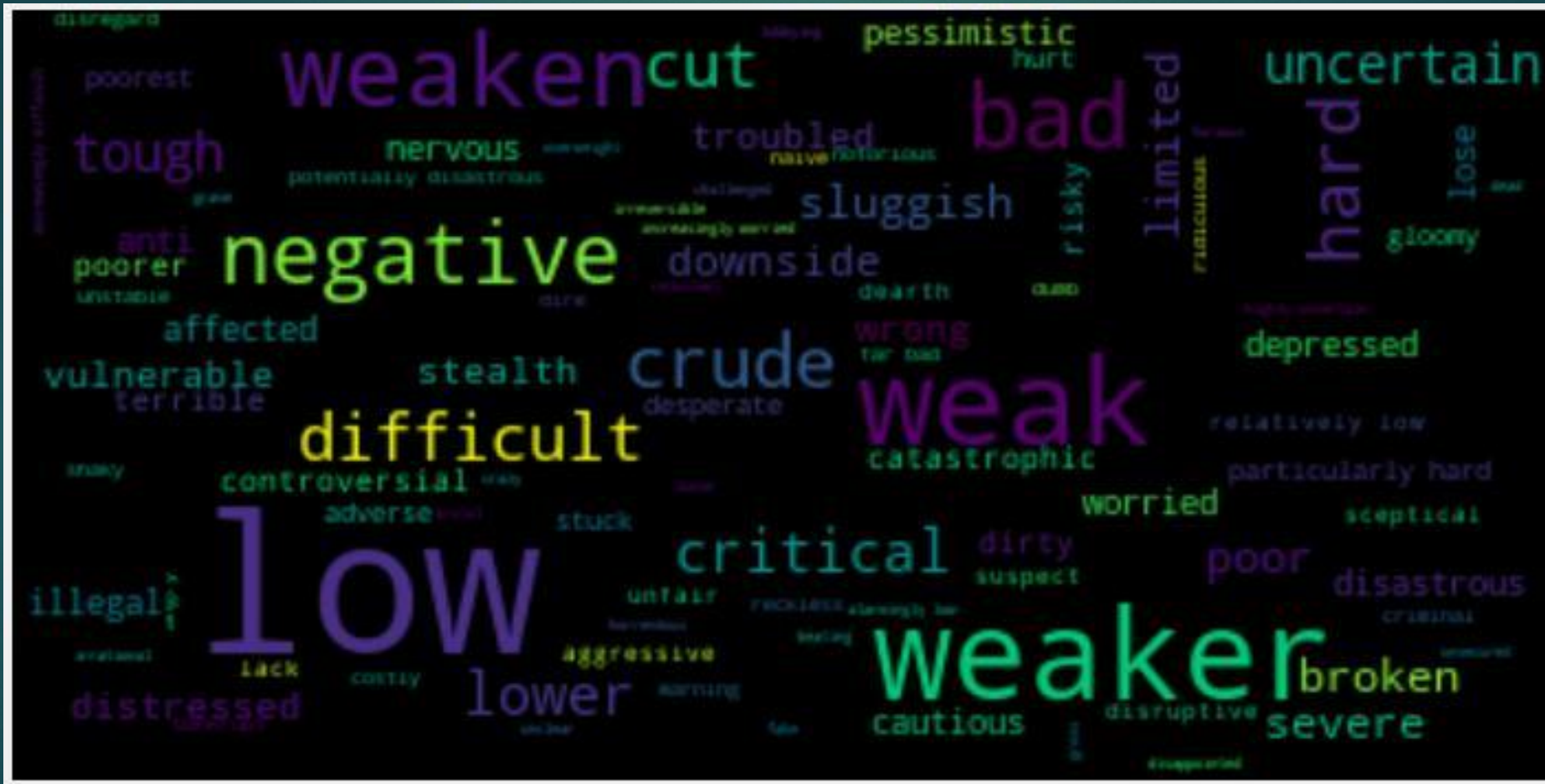


POLARITA': **Positiva**

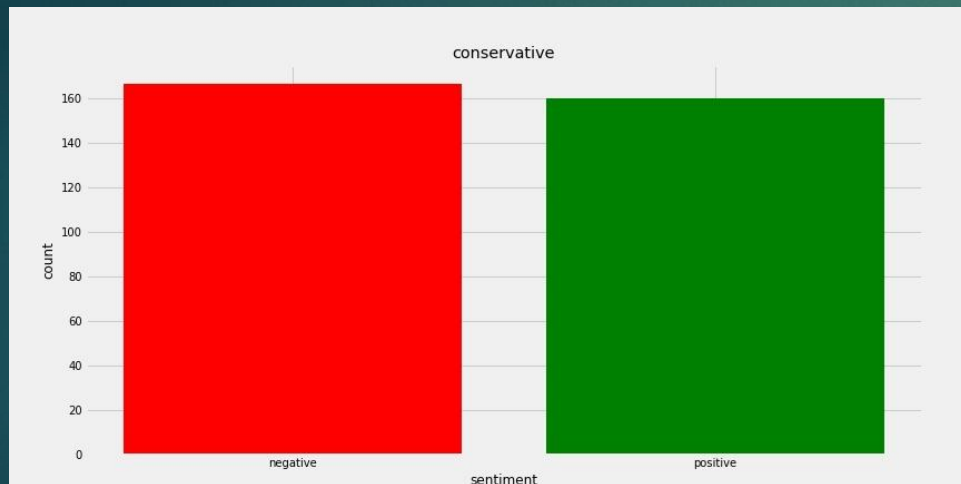
Positivi: Belfasttelegraph (Destra)
Express (Centro-Destra)
Negativi: Mirror (Centro-Sinistra)





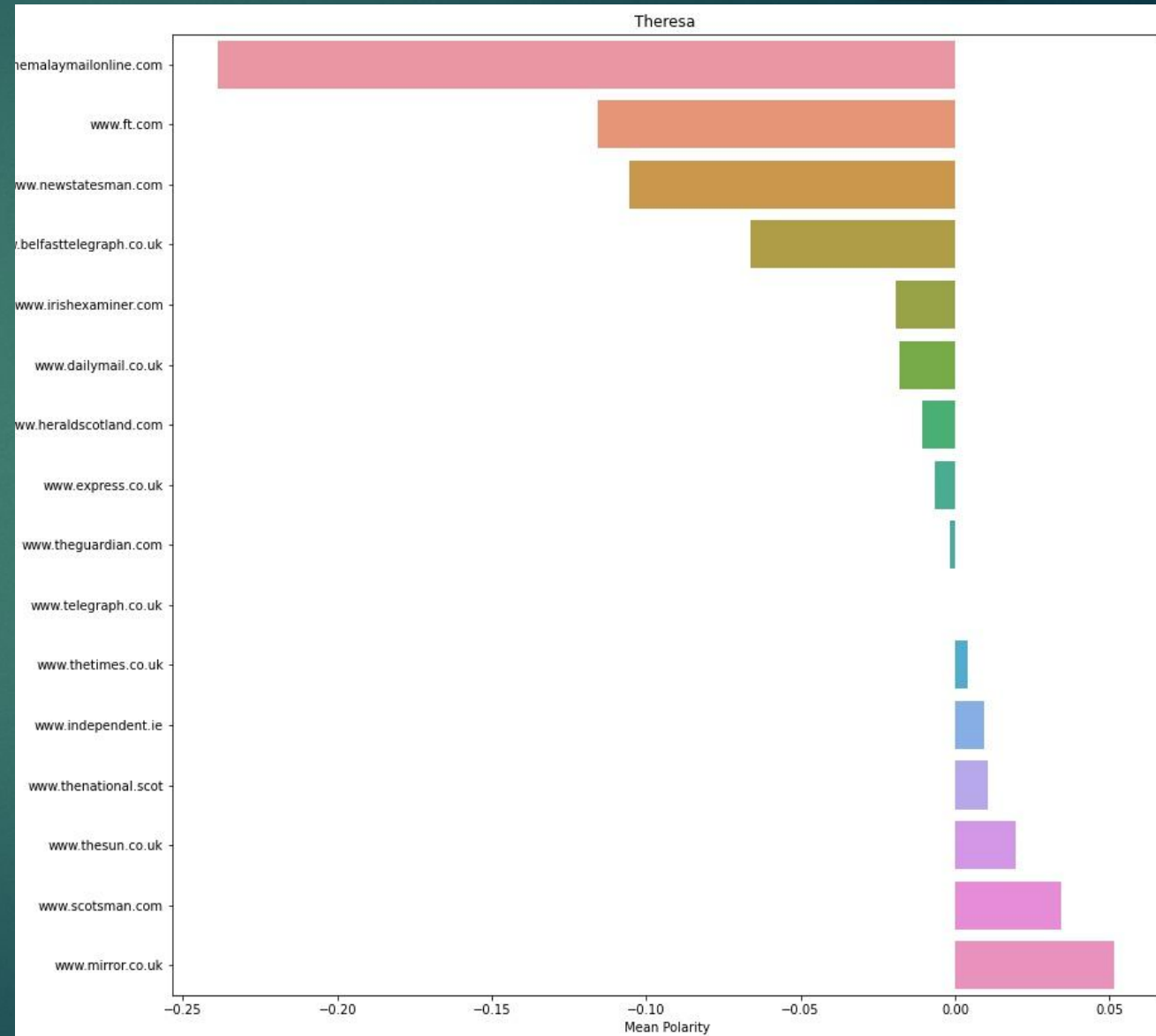


Come si parla di Theresa May?



Positivi: Mirror(Centro-Sinistra)
Scotsman(Destra)

Negativi: The Malay Mail(Moderato)
FT (Centro)





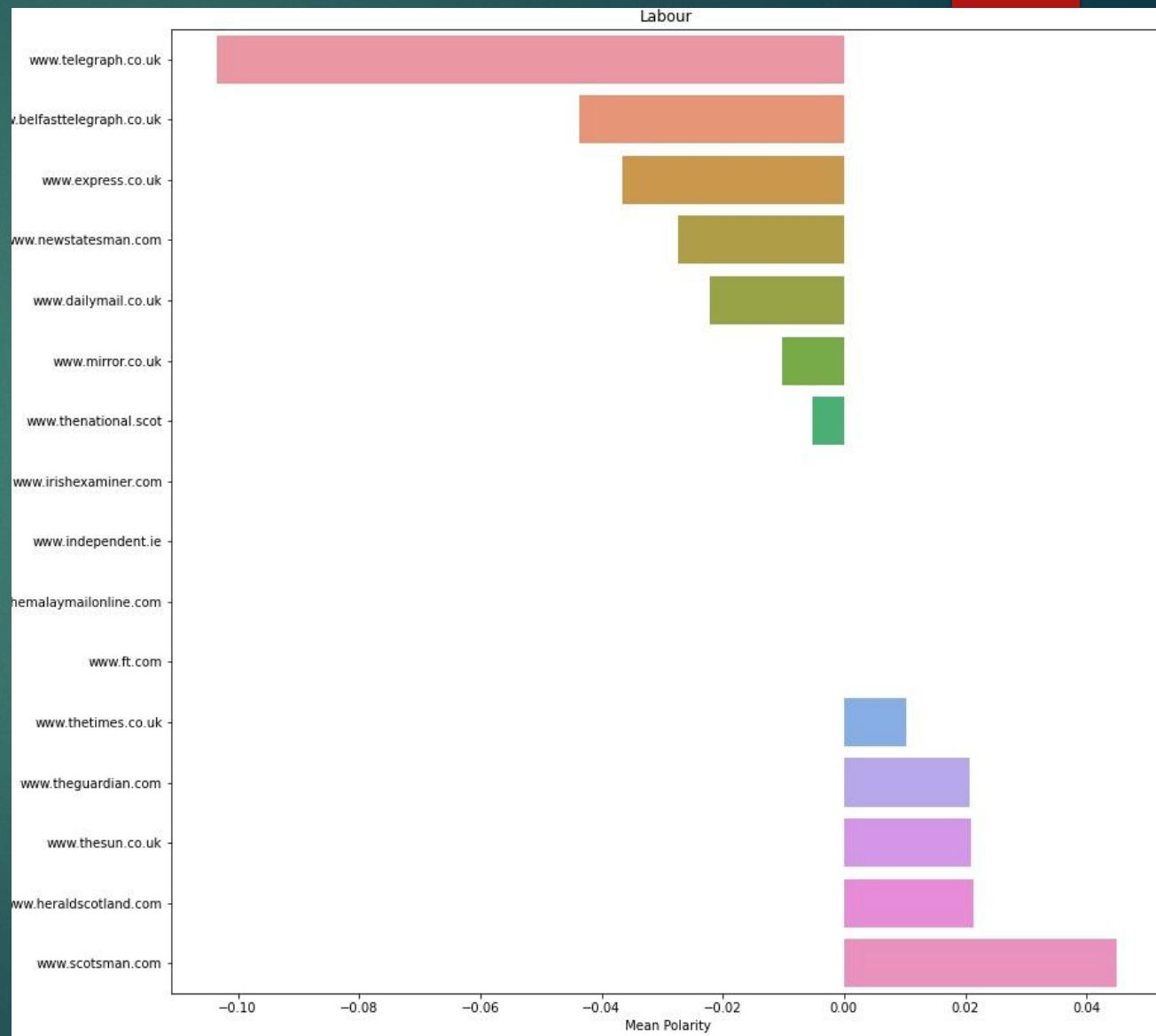
E invece dell'opposizione? Labour party



POLARITA': **Positiva**

Positivi: Scotsman (Destra)
HeraldScotland (Centro)

Negativi: Telegraph (Destra)
Belfasttelegraph (Destra)

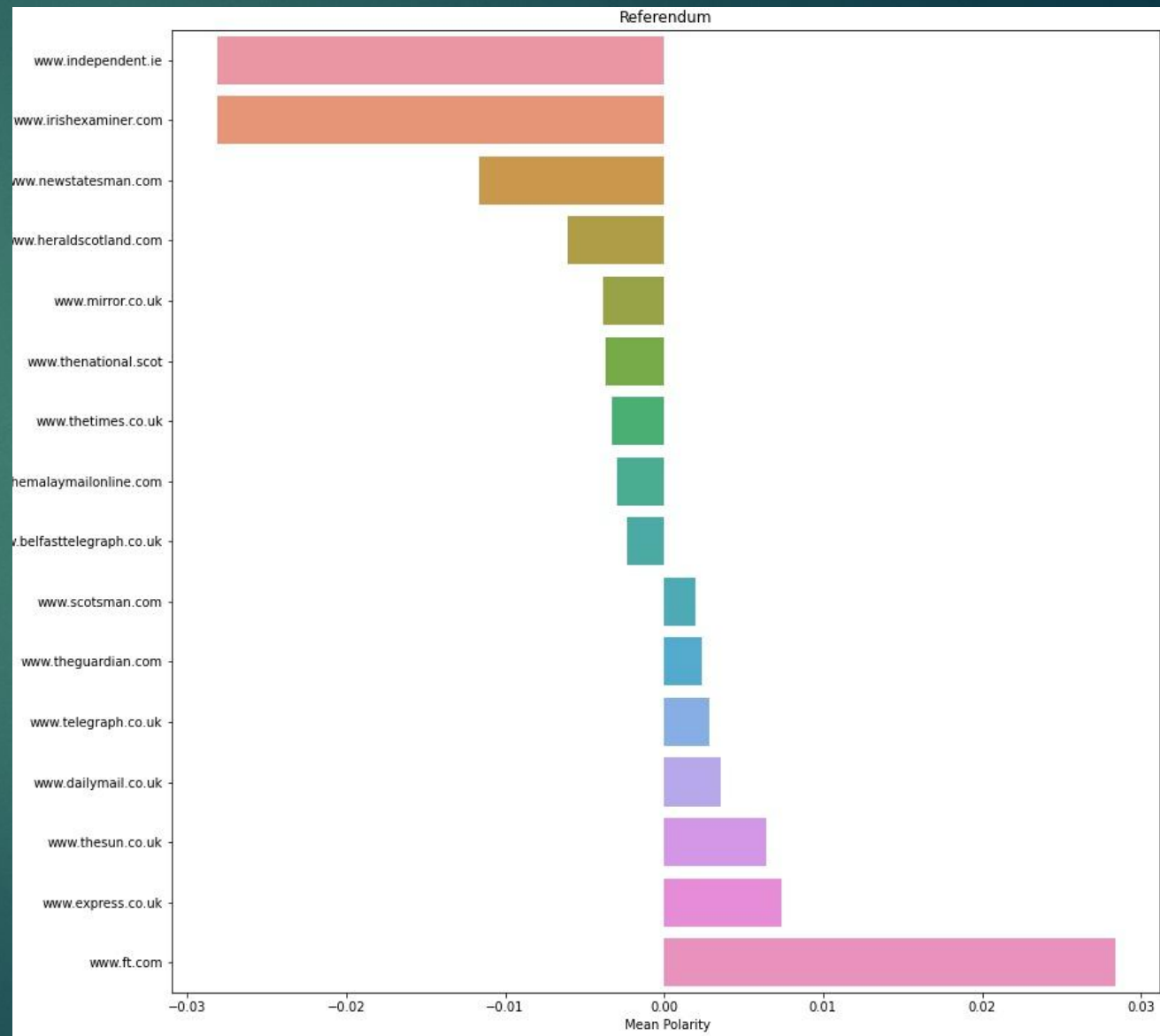


Gli articoli sono influenzati dai giornali con un orientamento politico?

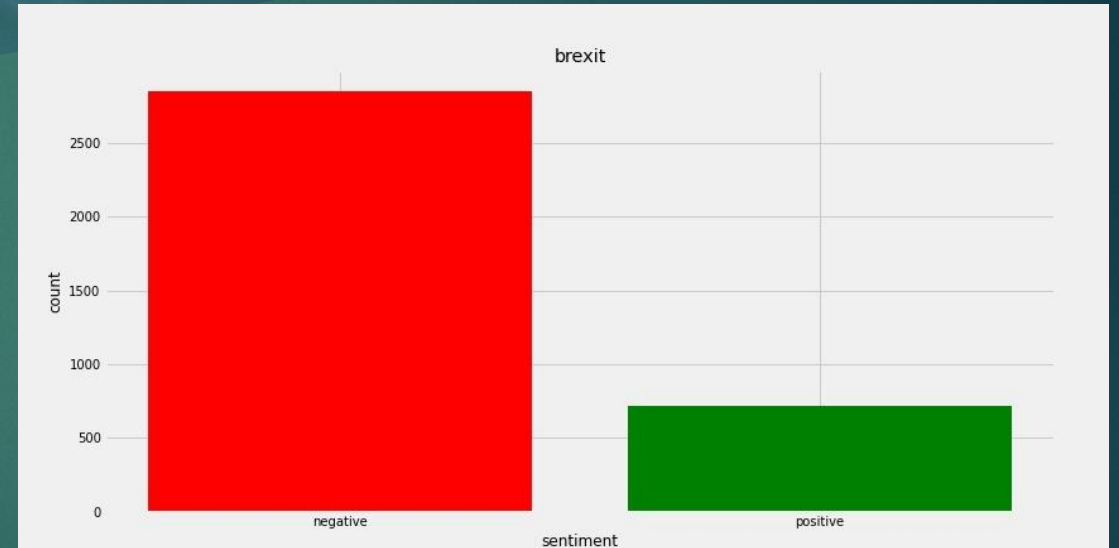
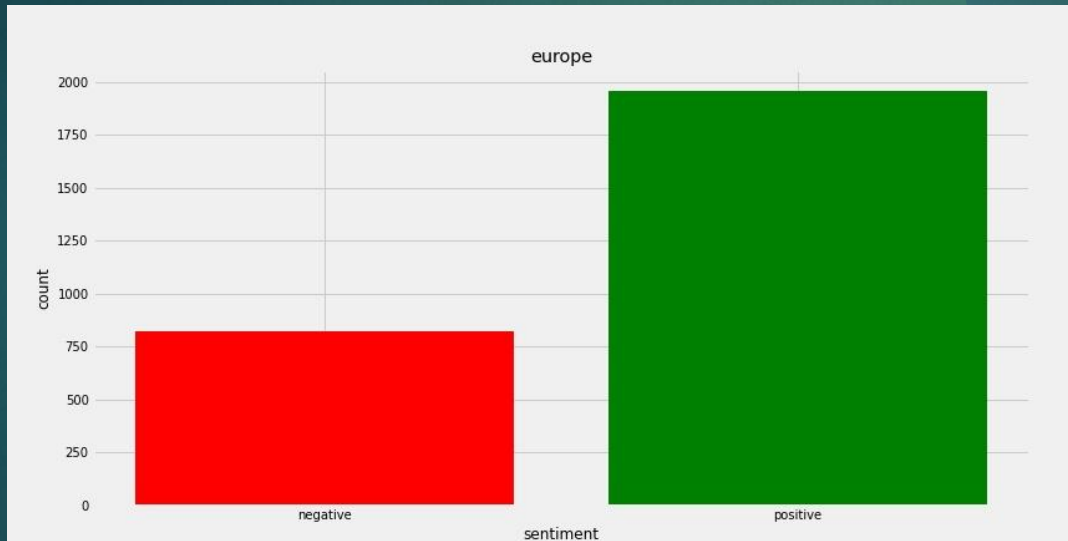
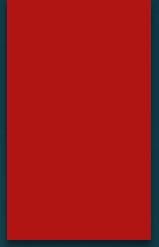


Positivi: FT(Centro)
Express(Destra)

Negativi: Independent(Centro-Destra)
Irish Examiner (Centro)



Rimanere o uscire dall'UE ?

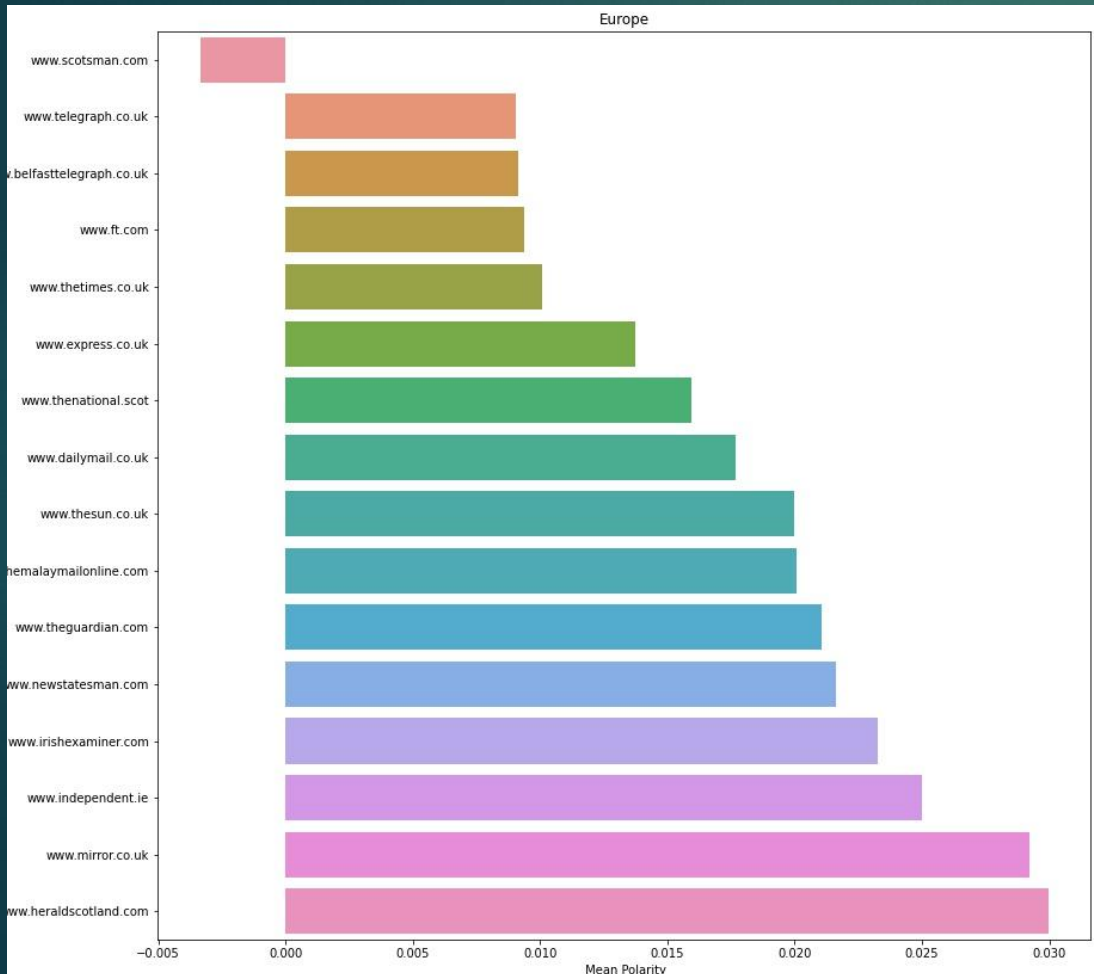


I giornali come si schierano?

Positivi: HeraldScotland(Centro)

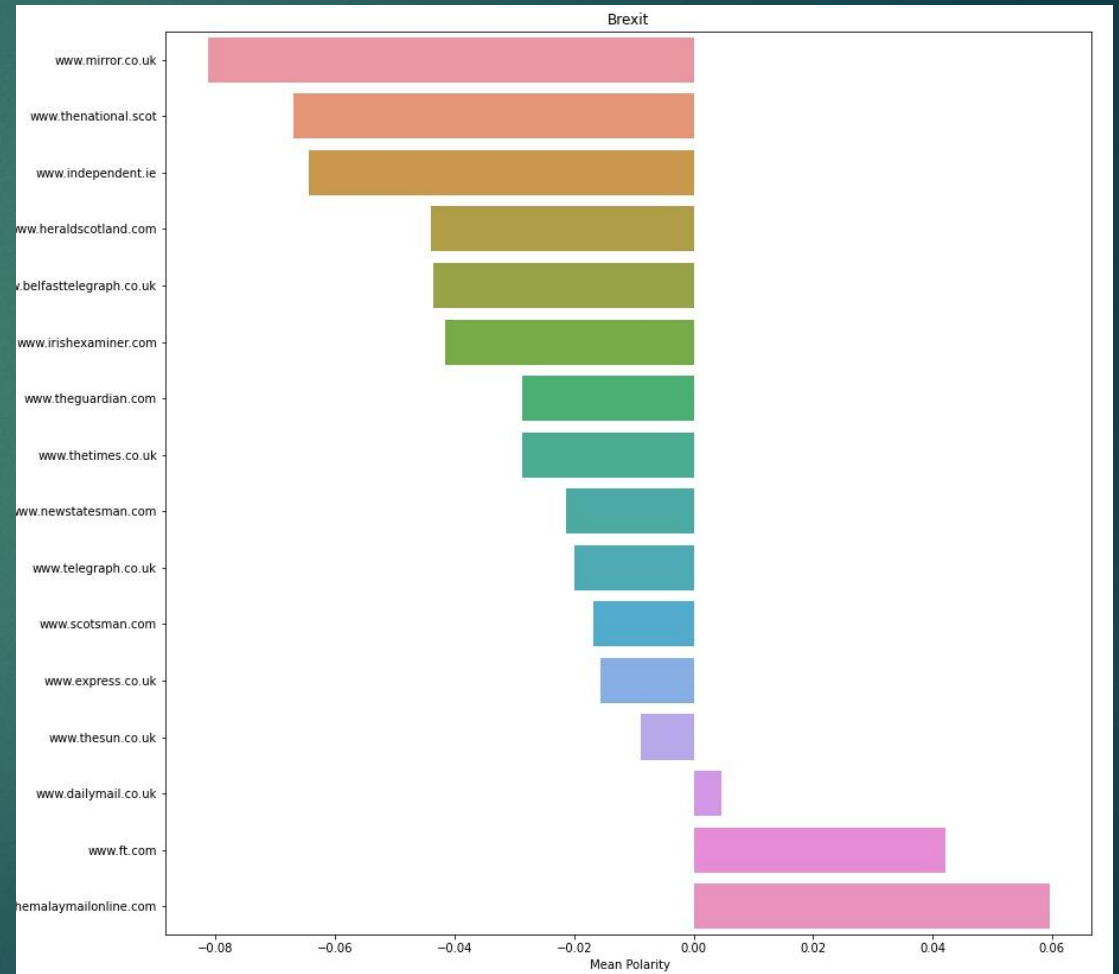
Mirror(Centro-Sinistra)

Negativi: Scotsman(Destra)



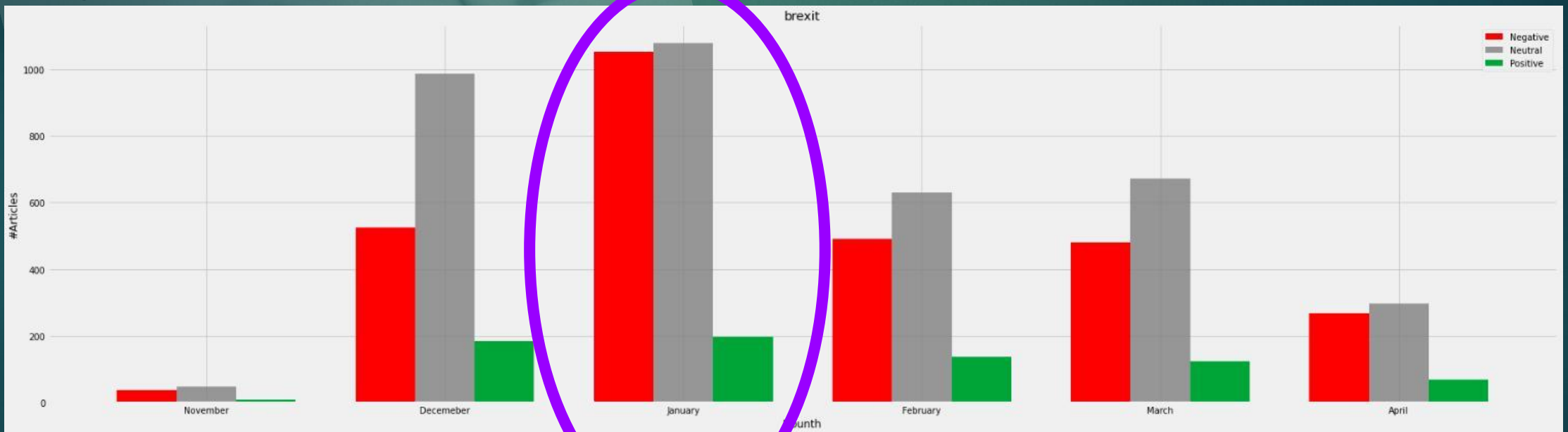
Positivi: The Malay Mail(Moderato)
FT(Centro)

Negativi: Mirror(Centro-Sinistra)
The Nation.scot(Centro-Sinistra)



DEAL-Hard-Brexit o Soft-Brexit

Polarità Brexit per mese



Presentazione alla camera
dell'European Union Bill

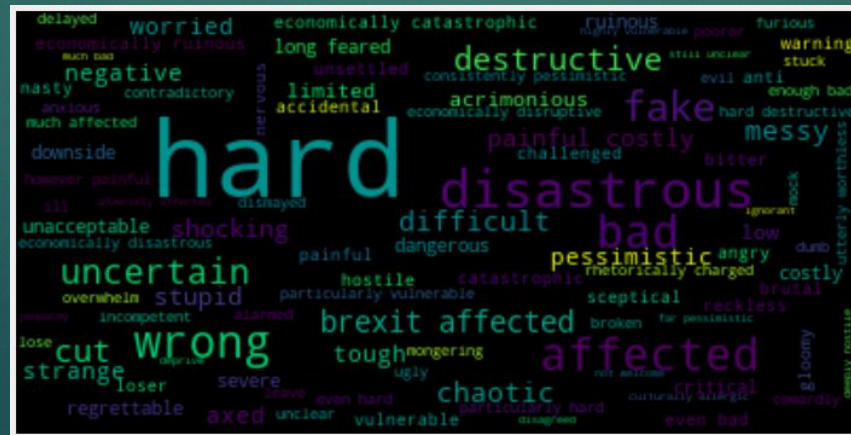
positive wordcloud-deal

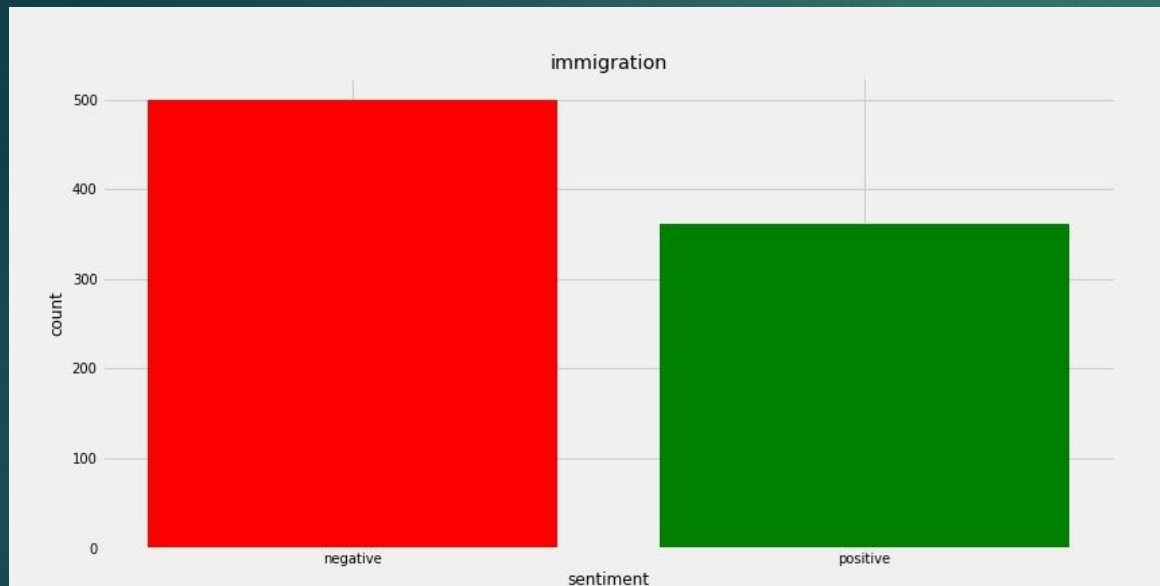


negative wordcloud-deal



negative wordcloud brexit





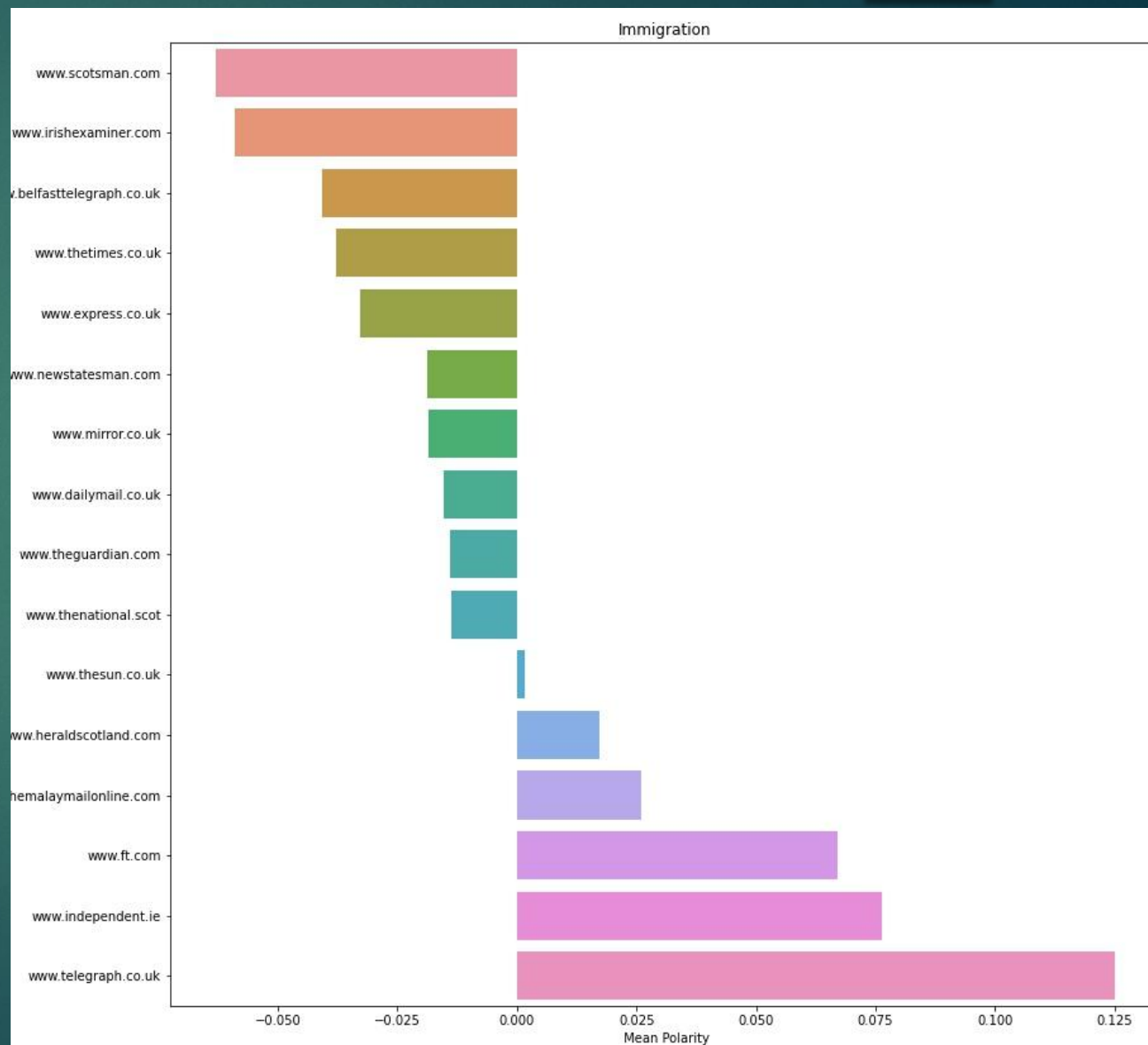
IMMIGRATION



POLARITA': **Negativa**

Positivi: Telegraph (Destra)
Independent (Centro-Destra)

Negativi: Scotsman (Destra)
Irish Examiner (Centro)



Conclusioni

- ▶ Cattive performance della Sentiment Analysis sull'intero articolo
- ▶ Con la Brexit il Regno Unito si “ispira” agli Stati Uniti
- ▶ Sotto l'aspetto economico e commerciale il Regno Unito vuole liberarsi dalle restrizioni imposte dall'UE
- ▶ L'operato e le negoziazioni di Theresa May sono stati molto criticati nell'UK
- ▶ I giornali criticano la Brexit considerandola una decisione troppo rischiosa, rispetto alla sicurezza che c'è all'interno dell' Europa
- ▶ L'immigrazione è un tema che supera gli orientamenti politici che i giornali sostengono, l'UK punta al controllo totale dei propri confini