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Evolving Conversations and Community Dynamics: An LDA Analysis of Topic Evolution and Community Influence Regarding EU elections

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#### **ABSTRACT**

Abstract - This research delves into the discourse surrounding the 2019 and 2024 EU elections on Reddit, a platform known for its distinct community-driven dynamics. Employing descriptive statistics and natural language processing techniques, we analyze posts and comments mentioning these elections to examine subreddit behavior, identify trending topics, and pinpoint the most influential subreddits in shaping these discussions. Our findings reveal a predominantly neutral sentiment on Reddit, contrasting with the affective polarization observed in other social media platforms. Thematic analysis uncovers diverse topics, ranging from domestic politics in France and Germany to Brexit-related discussions in the UK. We observe shifts in influential subreddits over time, reflecting evolving political landscapes and user engagement patterns.

**Keywords**—Reddit, European Union, elections, sentiment analysis, topic modeling, online communities, political discussion.

#### INTRODUCTION

Despite the growing significance of social media in political communication, research exploring European matters through the lens of Reddit data remains notably scarce.

This study aims to fill this gap by pioneering an exploration of Reddit posts and comments mentioning the EU elections of 2019 and 2024. Leveraging descriptive statistics and natural language processing techniques, we address three key research questions: 1) How do subreddits behave towards EU elections posts, and has this behavior changed over time? 2) What are the most discussed topics on relevant subreddits, and have they evolved? 3) Which subreddits contribute most significantly to these topics, and does this influence shift over time?

By answering these questions, we seek to uncover patterns in public discourse, identify emerging trends, and shed light on the distinct role that Reddit plays in shaping and reflecting political sentiment surrounding European elections

#### LITERATURE REVIEW

Following the Cambridge Analytica scandal (Schneble et al., 2018; Tarigan, 2019), the significant influence of social media on electoral processes has become indisputable to scholars and users (Afriat et al., 2020; Brown, 2020). Considering the importance of EU elections in composing European Parliament, a legislative body directly elected by European citizens that shapes the European Union's laws, policies, and budget, scholars have indeed dedicated significant effort to studying the impact of social medias on

public discourse and sentiment surrounding European elections(Obholzer & Daniel, 2016; Sandberg & Öhberg, 2017; Trenchs et al., 2023).

Reddit's use as a data source, particularly in Big Data research, has grown significantly (Proferes et al., 2021), spanning numerous disciplines, from politics (Massachs et al., 2020; Mills, 2018) to technologies(Ruan & Lv, 2022).

While political communication has been already studied using Twitter (Nulty et al., 2016; Tuñón-Navarro & Bouzas-Blanco, 2023), and others social medias(Gerbaudo et al., 2019), it is undeniable that Reddit may follow a different behavior due to its distinct features.

Firstly, Reddit's structure, centered around topic-specific subreddits, fosters in-depth discussions and community building within niche interest areas. Secondly, the prevalence of anonymity and pseudonymity on Reddit contributes to a distinct communication style characterized by candor and openness, albeit with potential drawbacks related to echo chamber or misinformation, as it is typical in other socials (Shin et al., 2017). Thirdly, Reddit's emphasis on community interaction and discussion, driven by upvotes, downvotes, and extensive comment threads, encourages deeper engagement with content compared to the quick reactions and shorter conversations prevalent on Twitter and Facebook. Fourthly, Reddit's decentralized moderation model, where volunteer moderators set rules within their respective subreddits, differs significantly from the centralized, algorithm-driven approaches employed by Twitter and Facebook(Bene et al., 2022).

Therefore, it might be plausible that the communication style may differ, to have their voice heard, redditors must be less reliant on personal branding and more focused on contributing substantive content that resonates with the specific interests and norms of the community. This emphasis on content quality over personal identity could potentially lead to a more thoughtful and informed discourse, although the risk of groupthink and echo chamber effects remains a concern(Cinelli et al., 2021; Terren & Borge, 2021).

#### **METHODOLOGY**

#### I. Data Collection

PRAW has been used to streamline Reddit API, which serves as the official programmatic gateway for accessing Reddit's vast data repository. Using the "search" endpoints, we queried using the terms 'eu election', 'european parliament election', collecting only posts written in English.

#### **II. Data Processing**

To complement Reddit API data, sentiment analysis was performed on each post and comment using TextBlob, a Python library for natural language processing. Sentiment is represented as a floating-point value ranging from -1 (negative) to 1 (positive), reflecting the nuanced nature of emotions expressed in the text.

The raw dataset presents the attributes:

Key	Description	on Reddit
	Subreddit (community) from which the	yes
subreddit	post originates.	
post_id	Unique identifier for the post.	yes
post_title	Title of the post.	yes
post_author	Username of the post creator.	yes
post_text	Main text content of the post (if applicable).	yes
post_sentiment	Numerical sentiment score of the post title and post text.	No
comments_senti ment	List of sentiment scores for each comment.	No
comments_bodi es	List of the text content of each comment.	yes
comments_leng ht	List of comment lengths (character count).	No
comments_auth or	List of usernames for each comment author.	yes
comments_num	Total number of comments.	Yes, but manually calculated
comments_senti ment_mean	Average sentiment score across all comments.	No
comments_senti ment_std_dev	Standard deviation of comment sentiments.	No
created_utc	Timestamp (UTC) of post creation.	yes
upvote_score	Number of upvotes the submission received.	yes
upvote_ratio	Percentage of upvotes out of all votes.	yes
url	Direct link to the Reddit post.	yes

However, the dataset was further refined, as the Reddit search algorithm retrieves results containing individual search terms, and then the data was partitioned into 2019 and 2024 datasets, each representing a 5-year window centered 2.5 years before and after the election (Fig.1).

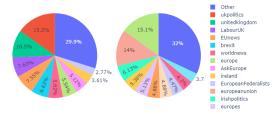


Figure 2- Top10 subreddits Dataset 2019 and Dataset 2024

#### III. Analytical Strategy

# RQ1: 1) How do subreddits behave towards EU elections posts, and has this behavior changed over time?

Table I indicates a diverse range of subreddits, encompassing those focused on European countries, regions, and politics (r/unitedkingdom, r/europeanunion, r/EUnews), others representing various political ideologies (r/Conservative, r/socialism, r/neoliberal), and platforms for (r/worldnews, news and discussion r/ukpolitics, r/irishpolitics). Niche interests are also represented (r/MapPorn, r/PropagandaPosters), while subreddits like r/AskEurope and r/AskBalkans foster interaction among diverse users. The "subscribers" column reveals a wide range in popularity, from millions of subscribers for general news subreddits to fewer than 100 for highly specialized ones, suggesting varying levels of activity and community engagement.

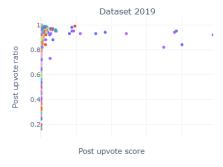




Figure 1 - Upvote ratio and Upvote score

Aggregated subreddit statistics (Table II and Table III) show that post volume fluctuates. In 2024, some subreddits were highly active (r/europeanunion, r/europe) compared to others (r/PropagandaPosters, r/Scotland). High engagement, measured by Upvote Ratio, indicates positive feedback and interaction. Comment diversity, quantified by the standard deviation of comment sentiment, also varies. Larger subreddits like r/europeanunion and r/europe exhibit more balanced sentiment distributions for both posts and comments, potentially reflecting broader user bases with diverse perspectives. Smaller, more focused subreddits may display more pronounced sentiment biases in either posts or comments.

Figure 2 shows a clear negative correlation between upvote score (net score of a post or comment, calculated as the number of upvotes minus the number of downvotes) and upvote ratio (proportion of upvotes out of the total number of votes, upvotes plus downvotes). This means that as the number of upvotes on a post increases, the ratio of upvotes to downvotes (or possibly total votes) tends to decrease. In addition, the majority of posts in both datasets have relatively low upvote scores (concentrated below 10,000). In 2024, a higher proportion of posts garnered substantial upvote scores compared to 2019, potentially indicating increased visibility or popularity of certain content. However, the negative correlation between upvote score and upvote ratio persists across both datasets. This suggests that the fundamental relationship between post visibility and the proportion of positive to negative votes remains relatively stable, implying that increased visibility does not necessarily equate to universal acclaim. This shift may be due to the fact that posts with higher visibility (more

upvotes) are more likely to attract downvotes as well, thus lowering the upvote ratio. This could be due to increased exposure to diverse opinions and potential for disagreement, however, this would also confirm that the Reddit does not suffer of an affective polarization, characterized by intense negative feelings between partisan groups(lyengar et al., 2012), but rather it is rather characterized by a neutral tone, even when it comes to disagreement.

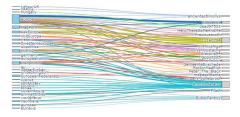


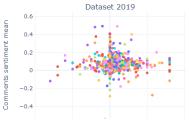
Figure 3 - Active redditors per subreddit (2024)



Figure 4- Active redditors per subreddit (2019)

At the same time Figure 3 and Figure 4 identify active users, defined as subredditors with more than 5 contributions in at least 3 different subreddits. Each line represents an author, and the subreddits they interact with are indicated by the points on the line. The thickness of the line connecting an author to a subreddit represents the frequency of the interaction (e.g., number of comments or posts). It was meant to test the echo chamber effect, however, due to Reddit restrictions (error 403), it was impossible to retrieve additional posts and comments using just the author id. Therefore, it is only noticeable that redditors publish and comment on several subreddits and that in the 2024 dataset most active subreddits have introduce an automatic moderator (*AutoModerator*).

Figure 5 seems to represent a weak correlation between post sentiment and average comment sentiment. While some subreddits show a tendency for positive posts to attract positive comments (and vice versa), this is not consistent across all subreddits. Other factors, such as the subreddit's topic, community culture, and moderation policies, likely play a more significant role in shaping comment sentiment than the sentiment expressed in the original post.



Post sentiment

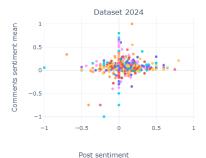


Figure 5 - Mean of comment sentiment and Post sentiment

Posts and comments related to EU elections seems to draw a picture of Reddit as a social media, that keeps a neutral sentiment not falling victim of affective polarization, as many other social media, however, further analysis may be needed taking into consideration a moderation policy that each subreddit may or may not apply (automatic or not). In addition, the echo chamber effect requires further analysis.

### RQ2: What are the most discussed topics on relevant subreddits, and have they evolved?

Latent Dirichlet Allocation (LDA)(Blei et al., 2002), a widely recognized topic modelling approach (Gottfried et al., 2021; Nastiti et al., 2021), was employed to uncover thematic structures within a corpus of Reddit text data. LDA was selected due to its ability to identify coherent topics without prior domain knowledge, handle sparse input, and produce interpretable results with fewer topics compared to wordembedding methods(Egger & Yu, 2022), considering that 1) Prior domain knowledge is not necessarily required 2) Finds coherent topics when correct hyperparameter 3) tuning is applicable 4) deal with sparse input, if neede 5) The number of topics is generally smaller than word-embedding based approaches; thus, it is easier to be interpreted 6) One document can contain several different topics (Mixed membership extraction)

Prior to LDA model training, the text data underwent a series of preprocessing steps. Emojis, URLs, punctuation, and underscores (associated with hashtags) were removed to minimize noise and focus on semantically meaningful content. The text was then tokenized into individual words, which were subsequently lowercased. Common English stopwords, as well as Reddit-specific terms and frequent election-related words, were removed to enhance topic clarity and distinctiveness. However, to preserve nuanced meaning and capture multi-word expressions, bigrams and trigrams were retained in the analysis.

Keeping in mind that tuning LDA models can be computationally expensive, we started with a smaller range of parameters and expand as needed. As all the other hyperparameters, they were tuned manually consulting the pyLDAvis, an interactive visualization tool designed to interpret LDA models, instead of using coherence metrics (e.g., C\_V, UMass).

The pyLDAvis visualization employs a two-panel layout to facilitate topic model interpretation. The left panel displays topics as circles in a two-dimensional space, their size correlating with prevalence within the corpus. Inter-topic distances reflect semantic similarity, with closer proximity suggesting greater relatedness.

The right panel presents a bar chart illustrating the most salient terms for selected topics. Bar length denotes term relevance, with blue bars representing corpus-wide frequency and red segments indicating topic-specific significance. The  $\lambda$  slider adjusts term relevance calculation: lower values prioritize topic uniqueness, while higher values emphasize general frequency.

Figures 6 and 7 depict a model tuned on the 2024 dataset, excluding lemmatization and stemming, which although recommended by scholars were producing less accurate topic clustering. A no\_below=10 parameter ensured only terms appearing in at least ten documents were considered, while no\_above=0.5 filtered out overly common terms exceeding 50% document prevalence.

Topic 4 within the LDA model distinctly centres on French politics, particularly from a conservative or right-wing perspective. The prominence of ideological terms ("right," "left," "far-right") alongside references to France and President Macron indicates a focus on domestic political issues. Emotionally charged language and references to contentious topics like immigration suggest discussions characterized by strong opinions and potential for disagreement. The topic's relative isolation within the Intertopic Distance Map emphasizes its unique thematic focus, while the circle size underscores the prevalence of French political discourse within the analyzed Reddit corpus.

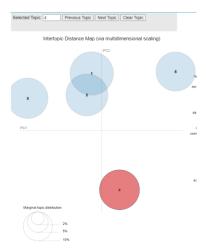


Figure 6 - Intertopic Distance Map (Dataset 2024)

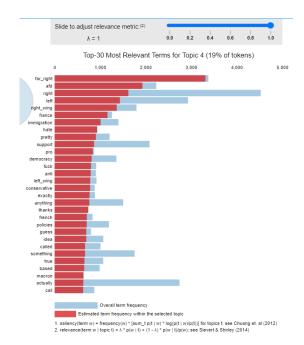


Figure 7- Top-30 Most Relevant Terms for Topic 4 (Dataset 2024)

In Figure 8, the analysis of relevant terms ("germany," "still," "vote," "left," "many") suggests that Topic 5 pertains to German politics, potentially centering around the European Union (EU) elections or a similar political event in Germany. The terms indicate discussions about voting, political parties, and election outcomes. The prominence of the term "left" and the mention of "greens" could indicate a focus on left-leaning parties, particularly the German Green Party, and their performance in the elections.

Considering the Greens' significant representation in the Greens/European Free Alliance (EFA) group after the 2019 EU elections, Topic 5 might be exploring the party's evolving political landscape. The shift in political discourse, prioritizing social security over climate change due to the Ukraine war, could be a central theme within this topic. This change may have sparked internal debates within the party and influenced voter perceptions, potentially impacting their performance in subsequent elections.

In order to maintain consistency in model tuning, Figures 9 and 10 present a model trained on the 2019 dataset using the same hyperparameters as the 2024 model: excluding lemmatization and stemming, with no\_below=10 and no\_above=0.5. Notably, the Intertopic Distance Map for the 2019 dataset revealed a reduction in distinct topics to only four. However, tuning manually the model, consulting the interptopic distance map, topics were reduce to 4.

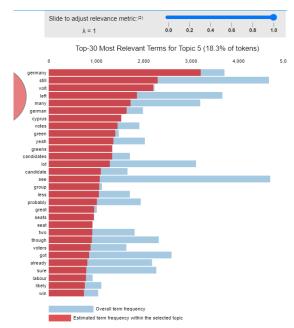


Figure 8 - Top-30 Most Relevant Terms for Topic 5

Topic 3, as revealed through the topic modeling visualization, centres on the political discourse surrounding the United Kingdom's withdrawal from the European Union (Brexit). This interpretation is substantiated by the prevalence of salient terms intrinsically linked to the Brexit process. References to the "Labour" and "Conservative" parties, the primary political factions involved in the Brexit debate, underscore the partisan nature of the discourse. The inclusion of terms like "votes," "party," "government," and "mps" further emphasizes the centrality of political processes and institutions in shaping the Brexit trajectory. The term "deal" likely alludes to the protracted negotiations surrounding the withdrawal agreement between the UK and the EU, a focal point of political contention. The presence of the terms "remain" and "leave," representing the two opposing camps in the referendum, highlights the fundamental question at the heart of the Brexit debate. The mention of "EÜ" reinforces the pivotal role of the European Union in this discourse.

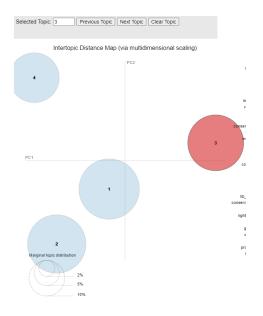


Figure 9- Intertopic Distance Map (Dataset 2019)

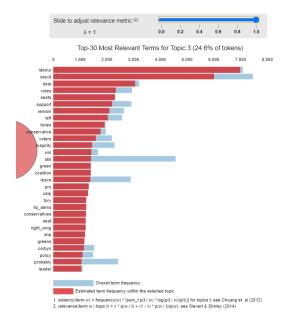


Figure 10 - Top-30 Most Relevant Terms for Topic 3

The most relevant topics regards Germany and France and UK, this is probably due to a repetition effect, the most common discussions regards the most powerful and influencing countries in the EU that are the one that have more media coverage also in other countries, the one that covered or covers the larger number of seats



Figure 11 - 2024 EU Election seats

## RQ3: Which subreddits contribute most significantly to these topics, and does this influence shift over time?

To identify the most influential subreddits in shaping specific topical discussions, a network graph visualization was utilized (Figure 12). This approach represents topics as colored circular nodes, with edges connecting them to either rectangular nodes (indicating subreddits) or gray circular nodes (representing the top five words extracted per topic using Latent Dirichlet Allocation (LDA)).



Figure 12 – Topic Graph (Dataset 2019)

Figure 12, analyzing data from 2019, reveals that the primary contributors across all identified topics were predominantly the subreddits r/unitedkingdom, r/EUnews, r/ukpolitics, and r/LabourUK.

In Figure 13, which examines the 2024 dataset, r/europe emerges as the most significant contributor to at least three out of the four LDA-extracted topics. Another major contributor is r/europeanunion. Notably, r/irishpolitics contributed to topic 4, while r/EUnews exhibited a reduced contribution compared to 2019. Additionally, r/worldnews, r/EuropeanParliament, and r/EuropeanFederalists contributed equally across the various topics.

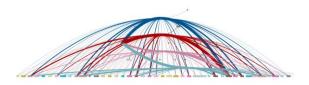


Figure 13 - Topic Graph (Dataset 2024)

Based on the analysis presented in Figures 12 and 13, we can definitively conclude that the contribution of subreddits to shaping discussions on specific topics is not uniform across time. This non-uniformity is evident in both the prominence of different subreddits across different years (e.g., the increased significance of r/europe in 2024) and the varying levels of participation within the same subreddits across different topics within a given year.

For a more detailed visualization of these findings, we recommend consulting the graph folder within the accompanying GitHub repository.

#### CONCLUSIONS

This finding suggests a dynamic landscape of online discourse, where the influence of different communities waxes and wanes depending on the specific issues being discussed and the broader socio-political context. Further investigation into the factors driving these fluctuations could provide valuable insights into the evolution of online communities and their role in shaping public opinion.

This study on Reddit discourse surrounding EU elections in 2019 and 2024 has revealed several key findings, including a predominantly neutral sentiment and diverse key topics. However, limitations exist, such as the exclusion of non-English posts and emojis, asymmetrical data between the two elections, and the need for more nuanced topic modeling per subreddit.

Future research should address these limitations by incorporating multilingual analysis, investigating the role of emojis, utilizing a more balanced dataset, and conducting longitudinal analyses. Additionally, studying the impact of automated moderation and the potential for echo chambers, as well as exploring Reddit's influence on real-world political outcomes, would further enhance our understanding of the platform's role in political discourse.

Despite these limitations, this research offers valuable insights into the unique characteristics of Reddit as a platform for political communication, emphasizing its potential for understanding nuanced public opinion and the evolving political landscape.

#### **DATA AVAILABILITY**

To ensure reproducibility, the research process, data collection, and analysis scripts are documented in a Jupyter Notebook available on the project's GitHub repository: <a href="https://github.com/ailine-luconi/Reddit-dynamics-in-eu-elections">https://github.com/ailine-luconi/Reddit-dynamics-in-eu-elections</a>

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### **APPENDIX**

TABLE I - Subreddit and their details

subreddit	created_utc	subscribers	description
worldnews	25/01/2008	38268137	A place for major news from around the world, excluding US-internal news.
dataisbeautiful	14/02/2012	20946044	DataIsBeautiful is for visualizations that effectively convey information.
			Aesthetics are an important part of information visualization, but pretty pictures are not the sole aim of this subreddit.
technology	25/01/2008	16702351	Subreddit dedicated to the news and discussions about the creation and use of technology and its surrounding issues.
politics	06/08/2007	8548384	/r/Politics is for news and discussion about U.S. politics.
europe	25/01/2008	6869690	Europe: 50 (+6) countries, 230 languages, 746M people… 1 subreddit.
MapPorn	21/05/2011	4224681	High quality images of maps.
unitedkingdom	02/04/2008	3400249	For the United Kingdom of Great Britain (England, Scotland, Wales) and Northern Ireland; News,
conspiracy	25/01/2008	2116644	Politics, Economics, Society, Business, Culture, discussion and anything else UK related.  This is a forum for free thinking and for discussing issues which have captured your imagination.
conspiracy	20/01/2000	2110044	Please respect other views and opinions, and keep an open mind. Our goal is to create a fairer and more transparent world for a better future.
AskEurope	15/06/2012	1451902	Ask Europeans questions about their countries!
Conservative	25/01/2008	1097094	The largest conservative subreddit.
ireland	03/03/2008	934163	https://discord.gg/conservative  An all-island subreddit for discussion of Irish news, politics, culture, history and society.
poland	29/07/2008	872893	The official English language subreddit for Poland and Polish news. Questions get answered, recommendations get recommended, and - you know - things get done.
germany	27/05/2008	849073	English-language discussions related to Germany.
PropagandaPosters	23/03/2010	618502	A subreddit for propaganda collectors, enthusiasts, or all who are fascinated by propaganda as an insight into history, sociology, perspective, and manipulation through art and other mediums
anime_titties	07/05/2020	504473	World Politics and News
			https://discord.gg/dhMeAnNyzG https://lemmy.world/c/anime_titties
ukpolitics	08/03/2008	492124	Political news and debate concerning the United Kingdom.
			Rules detailed here: https://www.reddit.com/r/ukpolitics/wiki/rules
hungary	08/06/2009	487067	Tartalom ami MagyarorszÃjggal, a magyar kultðrÃjval kapcsolatos, illetve témÃjk amik érdekesel lehetnek a tagok szÃjmÃjra.
Scotland	28/07/2008	473774	Scotland - all things Scotland, Scottish and Scot here.
socialism	29/06/2008	458011	An international community for socialists, to discuss current events in our world from our anti-capitalist perspective(s). Certain knowledge of socialism is expected from participants. This is not a space for non-socialists. Please be mindful of our rules before participating, as they are actively enforced.
	07/10/0000	0.4005.4	New to socialism? Please visit r/Socialism_101 prior to participating here.
Destiny	27/10/2008	242054	Hub for all things Destiny (the streamer, not the game).
pakistan	26/01/2008	226089	The Front Page of Pakistani Reddit!
2westerneurope4u	09/04/2022	225194	Ironic ultranationalistic memes about Western European countries (Netherlands, Luxembourg, Germany, France, Italy, Spain, Portugal, Greece, UK, Ireland, Denmark (incl. Greenland), Norway, Sweden, Finland, Iceland, Switzerland, Austria, Flanders & Wallonia) You will learn more about European culture here than anywhere else on Reddit.
CanadaPolitics	25/09/2010	223446	Polite discussions about Canadian politics.
YUROP	03/03/2013	174982	YUROP is a shrine to the awesomeness of the continent, islands, regions, member and non-member states of Her Greatest Europa, the progressive Union of Peace, home of the freest health care, the finest food and the diversest and liberalest of them all.
neoliberal	14/04/2011	168589	Trains, free trade, and open borders; trans rights and taco trucks on every corner.
bristol	17/08/2009	152706	Please read the sidebar for more information.  Bristol UK
AskBalkans	05/03/2019	140494	Questions about the Balkan states answered! New users check out our Wiki or FAQ page, get to know
EnoughTrumpSpam	07/09/2015	99109	our community and it's rules.  Because the amount of Trump spam is *too damn high!* Enough Đ¢Ñ€Đ°Đ¼Đ¿ Spam
AntiTrumpAlliance	02/01/2017	68638	An alliance among all who oppose convicted felon Donald Trump's actions, positions, cabinet, supporters, policies, or motives. This alliance includes anyone from the left or the right; anyone from any country of states any man woman or child.
LabourUK	13/02/2014	66304 57882	any religion or lack thereof; anyone from any country or state; any man, woman or child.  A subreddit for breaking news and discussion concerning the British Labour Party, the broader Labour movement in the UK, and UK politics. The Labour Party is a democratic socialist party led by Keir Starmer, elected leader in 2020. It is the largest party in the UK with around 400,000 members, with a significant presence in the Scottish Parliament and the Senedd. If you're a Liberal Democrat, a Green or even a Conservative, you'll find us a worthwhile community to follow.  A respectful, cozier space for discussion of and about European issues. Tolerance and civility is the
			standard we strive for.

brexit	19/09/2014	56004	A place to debate and discuss the UK's exit from the European Union. Please debate general UK topics (non-brexit related) elsewhere, such as r/ukpolitics
interactivebrokers	27/08/2014	52739	Unaffiliated subreddit of Interactive Brokers, a popular multinational brokerage firm. It is often best known for its trader workstation, API's, and low margins. It operates the largest electronic trading platform in the U.S. by number of daily average revenue trades. The company brokers stocks, options, futures, EFPs, futures options, forex, bonds, and funds.
armenia	02/11/2008	51169	There is a good sense of community here. It is a place for civil, open-minded and constructive dialogue related to quality links or text posts on topics of interest connected to Armenia. Everyone is welcome to participate. Please remember that this is a sub dedicated to the country of Armenia. Posts containing news or issues related to the diaspora should go on r/Armenian instead.
cyprus	17/05/2009	42121	Welcome to Cyprus, the jewel of the Mediterranean sea.
europeanunion	20/02/2012	41694	The EU's news & official content in one place.
Luxembourg	25/07/2010	39503	Official Subreddit for the Grand Duchy of Luxembourg. Keep it chique, speak your mind and welcome your friends to join the conversation!
EuropeanFederalists	14/12/2013	22614	A multilingual subreddit for those who are dedicated to the establishment of a democratic and federal European Union.
EUnews	31/03/2009	20642	News and discussion about the EU, EU territories, members of the Council of Europe or other European nations
irishpolitics	25/04/2011	19660	r/irishpolitics is a forum dedicated to discussion of Politics in Ireland.
imaginaryelections	07/01/2018	16488	A place to share imaginary elections
centerleftpolitics	17/09/2017	13244	A place for moderately left leaning people to discuss and share ideas about global politics and world news.
tories	07/05/2011	13079	This is a subreddit for British conservatives to talk about the UK Conservative and Unionist party as well as conservatism more generally.
the_schulz	24/11/2016	11749	[Closed for good.](https://www.youtube.com/watch?v=yctDMFMlvHE)
LibDem	15/04/2009	10231	Welcome to the unofficial Liberal Democrat subreddit. This is a subreddit for the UK Liberal Democrats Party.
			Please feel free to discuss all topics related to the Lib Dems. Please read the rules before you post.  Feel free to visit us on our discord at: https://discord.gg/NxYEpGe9He
eu	22/02/2006	6597	For in-depth discussion and analysis of policies and events pertaining to the European Union - EU - Europe
VoltEuropa	27/06/2018	5796	We believe in a united Europe that values its citizens and residents, who are able to fulfill their unique potential and continuously strive to achieve together the highest standards of human, social, environmental, and technical development.
YAPms	21/07/2019	5581	The place to share political maps and join the community. We make memes more than we predict elections to be honest. It's a very serious addiction. We're looking to expand for more bipartisan representation.
eulaw	13/04/2014	5294	"The Election Mafia― -Red Eagle Politics  Subreddit for discussion of European Union law and related topics.
EuropeanArmy	23/11/2018	4883	A multilingual place for anything related to current European national armies, navies, coast guards,
MHOC	28/05/2014	4497	police and air forces as well as a future European Army.  Vote. Debate. Legislate.
Disinfo	19/07/2009	3526	Committed to tracking and analyzing disinformation, active measures, propaganda and conspiracy
ukipparty	18/11/2012	3506	movements.  This sub reddit is a UKIP forum for supporters or anyone from any end of the political spectrum that
UnitedKingdomPolitic s	06/01/2018	2712	wants to know more about the real UKIP and get all the latest news.  Political articles and debate concerning the United Kingdom.  Robust debate is encouraged, and political views from a wide spectrum are tolerated here. No particular political opinion is favored here and contributions are judged by quality rather than perspective.  This subreddit opts-out of r/All.
NordicUnion	30/07/2011	2203	This Subreddit represents the wish for a union between all autonomous Nordic countries under one Nordic parliament that would only have strict enumerated powers in the Nordic constitution.  A Nordic Union would most likely be accepted by most of the world's countries and population because the Scandinavian subcontinent has almost always been referred to as a collaboration between the nordic states.
colchester	06/08/2011	1982	The Reddit home of Colchester, Essex, UK
Article13	13/06/2018	1465	A subreddit for discussion of Article 13 of the "Proposal for a Directive of the European Parliament and of the Council on copyright in the Digital Single Market* and how we can protest it.
acteuropa	04/12/2016	1435	ActEuropa is a movement fighting for a strong and sovereign Europe in an uncertain world.
Gotterfunken	19/10/2018	1427	Gotterfunken Federal Council, a European Reddit mods multilingual community.
EuropeanPeoples	18/05/2016	867	Celebrating Europe, and all those people who make it their home
Delete_The_Donald	18/08/2016	622	This sub is dedicated to compiling evidence that /r/The_Donald is consistently breaking the Reddit content policies and Reddiquette. /r/European was quarantined due to its hateful core message and its repeated offenses against Reddit rule.
TwoPresidents	17/04/2018	492	A sub calling for the governments of the world to adopt dual executive leadership.
Crimea	01/03/2014	430	
ModelNZParliament	30/09/2017	397	We are a community of political enthusiasts who have come together to debate and legislate in the setting of the NZ Parliament!
JonathanPie	04/11/2018	312	Jonathan Pie is the comedy sensation who satirises the world of politics and the media. A frustrated news reporter known for venting his spleen in unguarded "off-camera― rants.
UKPoliticsAMA	21/05/2011	261	Ir/UKpoliticsAMA is a directory of AMAs("Ask me Anything― ) from elected officials (MPs, Local Clirs, Devolved representatives) campaigners, journalists and so on who are based in the UK.

			We used to host our own, but found it much more suitable to direct to where these AMAs are
			happening in the bigger subs!
modelparliament	13/04/2015	249	~~Reddit Model Parliament of Australia (Old)~~
			Archived.
MartinOMalley	21/09/2013	226	A subreddit dedicated to the American politician and social leader Martin O'Malley (D).
ModelAustralia	07/07/2015	207	Reddit's Model Australian Political Simulation!
EYP	20/03/2013	203	This is a subreddit for anyone involved or interested in the European Youth Parliament (EYP) to submit
			and discuss anything and everything to do with EYP.
TeenagerCity	13/06/2019	117	A subreddit where an actual government of teenagers exists
worldliberalism	10/03/2016	115	An international subreddit for discussion of liberal politics, philosophy, and news from a liberal
			perspective.
ModelNZMP	23/07/2018	92	
Tigerstaden	02/12/2012	84	Official subreddit of Tigerstaden - town located in -,+ sector on the Civcraft server.
CDU_CSU	10/09/2015	84	Als Union oder Unionsparteien werden in Deutschland die beiden Schwesterparteien CDU und CSU
			bezeichnet. Im Deutschen Bundestag bilden sie eine gemeinsame Fraktion, die CDU/CSU-
			Bundestagsfraktion.
			Ihre Jugendorganisation ist die Junge Union (JU).
meumeta	04/02/2016	64	The meta matters of the Model European Union, part of the Model World
ModelAustraliaHR	07/01/2016	51	The House of Representatives chamber for the Model Parliament of Australia at /r/ModelAustralia
TheWorkersPartyGB	02/05/2024	24	The official page for the Workers Party of Britain. The Workers Party of Britain, also called the Workers
			Party of Great Britain or Workers Party GB, is a socialist political party in the United Kingdom, formed
			in December 2019 and led by George Galloway, the Member of Parliament for Rochdale since a 2024
			by-election.
MNZElection12	27/12/2019	17	The campaign for the 12th General Election to the Model New Zealand Parliament.

TABLE II – Aggregated Statistics Dataset 2019

	l	1	1	1	1	1	1	1	1	1		Ī
subreddit	post_id_count	post_sentiment_mean	post_sentiment_std	comments_num_sum	comments_num_mean	comments_num_std	post_upvote_score_mean	post_upvote_score_std	post_upvote_ratio_mean	post_upvote_ratio_std	comments_sentiment_std_ dev_mean	comments_sentiment_std_ dev_std_dev
ukpoli tics	181	0.05950 6	0.1894 55	26259	145.077 3	176.43 04	270.8895	828.267	0.77779	0.19423 5	0.22109	0.049919
united kingd	125	0.05955 4	0.1947 93	9711	77.688	123.29	190.856	425.641 6	0.7752	0.19761 7	0.208916	0.074009
om Labou	91	0.04706	0.1147	1679	18.4505	24.759	16.04396	27.5362	0.81208	0.15121	0.198087	0.090416
rUK EUne	90	2	26 0.1808	3	5 0.03333	85 0.2346	2.511111	1.78158	8 0.96244	0.09778	0.176777	
ws brexit	79	0.01371 0.04828	91 0.1740	3348	3 42.3797	41 67.404	49.65823	1 113.735	4 0.77822	8 0.21489	0.211292	0.068771
		7	92		5	88		6	8	9		
world news	67	0.00316	0.2114 45	6067	90.5522 4	199.71 82	2260.119	8568.98 2	0.76373 1	0.14605 8	0.205705	0.074964
europ e	66	0.04135 8	0.1191 34	15385	233.106 1	217.80 98	2522.379	7346.46 4	0.88984 8	0.08585 3	0.223306	0.032572
AskEu rope	61	0.07205	0.1671 93	3307	54.2131	68.765 33	36.2623	101.391 5	0.80623	0.13225 2	0.193162	0.047526
irelan d	43	0.03684 8	0.1833 83	1607	37.3720 9	54.200 7	76.32558	236.589 6	0.81837 2	0.16060 8	0.227864	0.054271
Europ eanFe deralis ts	33	0.08339	0.1438 99	621	18.8181 8	31.947 67	32.78788	45.4902 2	0.92212	0.10349 4	0.228447	0.084425
neolib eral	32	0.02270 9	0.0610 17	1118	34.9375	69.009 55	129.9375	289.251	0.90281 3	0.09997 5	0.201367	0.077701
LibDe m	32	0.06331	0.1349 27	295	9.21875	10.213	31.84375	21.2650	0.91156 2	0.10392 6	0.176822	0.080804
Scotla	29	0.00653	0.0798 68	1119	38.5862 1	41.417 32	117.6897	332.212 9	0.83862	0.19260 8	0.240718	0.069073
nd MapP orn	26	0.07027	0.1841 76	703	27.0384	34.273 58	72.65385	80.8014 6	0.885	0.08486	0.22451	0.072306
tories	26	0.05402	0.1332 73	475	18.2692 3	24.040 89	12.30769	9.54890	0.84115	0.15736	0.206438	0.097504
irishp olitics	20	0.01882 8	0.0827	140	7	9.4423 46	13.35	10.7765	0.9065	0.08707	0.206809	0.110229
europ eanpa rliame nt	18	0.07936 7	0.1288 08	68	3.77777 8	5.5789 05	18.11111	9.68861 6	0.87833 3	0.07261 9	0.18782	0.082571
YURO P	17	0.10214 6	0.1338 74	613	36.0588 2	67.905 7	144.1176	312.674 9	0.94588	0.04717 8	0.212707	0.085591
eu	15	0.02526	0.1208 02	34	2.26666	3.0581 66	5.133333	4.18955 6	0.77466 7	0.14894	0.122695	0.090786
bristol	13	0.11875 7	0.2968 64	140	10.7692	14.423 09	21.61538	30.6799	0.74538 5	0.17529	0.204045	0.12474
germa ny	13	0.05027	0.0784 07	711	54.6923	134.38 03	334.6154	807.544 5	0.73384	0.24727	0.158798	0.072631
polan d	11	0.07411	0.1473 99	434	39.4545 5	41.907 91	37.54545	72.8853 4	0.71272 7	0.15900	0.241505	0.048665
Conse	10	0.06680	0.2928	236	23.6	31.704	155.6	213.165	0.775	0.13986	0.226705	0.06082
rvative acteur opa	8	6 0.07679 3	0.1091 34	51	6.375	19 8.7983 36	13.25	7 13.8021 7	0.90625	0.08467 4	0.142114	0.099
politic s	8	0.06295	0.1842 36	167	20.875	26.275 67	544.375	737.193 9	0.90625	0.09884	0.229242	0.107116
datais beauti ful	8	0.06295	0.1018 56	1173	146.625	233.45 17	4530.625	8859.69 4	0.89	0.09531 9	0.251099	0.092326
imagin aryele ctions	7	0.03375 3	0.0593 83	97	13.8571 4	9.6510 55	65.71429	32.2578 9	0.94428 6	0.06629 7	0.232397	0.071338
Destin y	7	0.06408 1	0.1493 01	341	48.7142 9	43.103 42	152.1429	242.407	0.92	0.05656 9	0.22109	0.095011
europ es	7	0.00351	0.0962 67	20	2.85714 3	4.3369 95	13.28571	13.1999 3	0.90714 3	0.09621 4	0.134352	0.087828
center leftpol itics	6	0.08411	0.0964 62	30	5	6.7527 77	21.66667	13.3516 5	0.94333	0.07229	0.240372	0.13005
sociali sm	6	0.09345 2	0.1124 07	131	21.8333 3	16.005 21	142.6667	190.365 6	0.80333 3	0.31238 9	0.180917	0.056526
	ı	ı <del>-</del>	٠,	i		1 - 1	1				I	i

hunga	4	0.08474	0.0847	37	9.25	2.9860	21.25	20.5973	0.7825	0.13865	0.137979	0.096228
ry		8	21			79		3		4		
cypru s	4	0.02297	0.0499 11	91	22.75	14.174 51	11.25	9.06917 9	0.7925	0.12996 8	0.23759	0.08499
Propa ganda Poster s	3	0.05	0.1092 91	332	110.666 7	184.76 29	1410.333	2396.01	0.96	0.01	0.162213	0.074781
techn ology	3	0.01515 2	0.0262 43	9	3	1	5	4.58257 6	0.56666 7	0.11150 5	0.401968	0.243592
ukippa rty	3	0.02083	0.0360 84	23	7.66666 7	13.279 06	10.33333	13.0511 8	0.68666 7	0.16441 8	0.192246	
Article 13	3	- 0.05878	0.2576 57	16	5.33333 3	3.2145 5	42	26.6270 5	0.98666 7	0.02309 4	0.146443	0.158867
YAPm s	2	0.07713 6	0.1090 87	11	5.5	6.3639 61	10	4.24264 1	0.915	0.02121 3	0.2387	
pakist an	2	0	0	26	13	18.384 78	24.5	34.6482 3	0.56	0.32526 9	0.26001	
Luxem bourg	2	0.09436 3	0.1334 5	19	9.5	9.1923 88	21	12.7279 2	0.88	0.07071 1	0.176772	0.084502
Enoug hTrum pSpa m	2	0.0625	0.0883 88	6	3	4.2426 41	80	76.3675 3	0.89	0.07071	0.304564	
armen ia	1	0.08690 7		41	41		22		0.84		0.158039	
VoltEu ropa	1	0.09786 8		2	2		4		0.83		0	
Europ eanAr my	1	0		16	16		93		1		0.173835	
Canad aPoliti cs	1	0.20626 5		29	29		7		0.56		0.130127	

TABLE III - Aggregated Statistics Dataset 2024

			1	1									
subreddit	post_id_count	post_sentiment_mean	post_sentiment_std	comments_num_sum	comments_num_mean	comments_num_std	post_upvote_score_mean	post_upvote_score_std	post_upvote_ratio_mean	post_upvote_ratio_std	comments_sentiment_std_ dev_mean	comments_sentiment_std_ dev_std_dev	
europ e	182	0.04363 3	0.1684 67	23004	126.395 6	201.73 43	850.8297	2929.58 6	0.81549 5	0.15055 9	0.220479	0.094947	
europ eanuni on	169	0.03863 4	0.1817 78	291	1.72189 3	5.2723 05	9.621302	11.7381 6	0.90053 3	0.11883 5	0.224429	0.110672	
irishp olitics	74	0.05287 9	0.1048 53	1765	23.8513	33.034 1	17.02703	19.0586 5	0.78864 9	0.18673 3	0.210609	0.072689	
irelan d	65	0.03412 9	0.1162 84	10745	165.307 7	163.55 34	203.0308	352.487 6	0.752	0.18693 4	0.235178	0.049871	
europ es	62	0.03050 3	0.1431 56	124	2	3.9959	5.774194	5.73290 6	0.86629	0.12295 9	0.150749	0.122148	
europ eanpa rliame nt	59	0.07182 5	0.1763 1	89	1.50847 5	3.0814 96	12.05085	11.1392 8	0.93169 5	0.08652 6	0.244308	0.167482	
EUne ws	59	0.06742 3	0.1561 18	19	0.32203 4	0.6000 19	7.813559	4.46238 9	0.95423 7	0.0646	0.016211	0.016441	
Europ eanFe deralis ts	54	0.04443 3	0.1040 12	651	12.0555 6	18.602 51	49.55556	82.2111 1	0.92907 4	0.09915 2	0.174865	0.086882	
world news	52	0.03288	0.1518 22	4383	84.2884 6	174.20 33	1521.788	4647.02 3	0.84903 8	0.10146 5	0.190774	0.086851	
YURO P	45	0.08431 6	0.1711 55	1787	39.7111 1	82.308 9	432.3111	706.455 1	0.92088 9	0.08638 8	0.218158	0.117075	
2west erneur ope4u	39	0.06657 7	0.1956 78	4899	125.615 4	148.13 5	405.5641	496.593 7	0.84717 9	0.16489 1	0.237618	0.076195	
anime _titties	36	0.01647 9	0.1001 34	778	21.6111 1	39.800 41	56.52778	129.857 8	0.76222 2	0.12471 9	0.237125	0.044737	
neolib eral	30	0.05825 1	0.1481 85	2069	68.9666 7	198.68 68	71.73333	128.438 9	0.94866 7	0.04174 9	0.180503	0.114649	
VoltEu ropa	30	0.02475 4	0.1283 83	312	10.4	14.306 02	61.26667	64.3781 6	0.93933 3	0.13266 3	0.306233	0.220784	
MapP orn	27	0.07937 3	0.1340 49	5850	216.666 7	235.86 22	2078.815	3675.93 6	0.90666 7	0.10859 2	0.231062	0.031564	
cypru s	27	0.06813	0.1085 31	1300	48.1481 5	46.046 55	36.33333	35.9390 5	0.76222	0.13284	0.188808	0.055306	
AskEu rope	25	0.12532 8 0.01346	0.2001 06 0.1154	1772	70.88	110.60 19 11.696	30.44 102.8333	41.8579 7 152.751	0.704	0.22090 7 0.03865	0.182676 0.212036	0.055557	
imagin aryele ctions	18	1	65	162	1	6	102.8333	7	3	4	0.212036	0.11963	
Luxem bourg	14	0.04849 1	0.1183 63	523	37.3571 4	53.233 31	12.78571	15.2425 4	0.75571 4	0.21215 8	0.212801	0.072426	
germa ny	14	0.11107 9	0.1829 13	513	36.6428 6	89.005 28	62.21429	185.333 5	0.64071 4	0.23023 3	0.178905	0.061598	
eu	11	0.04542 8	0.1635 71	16	1.45454 5	2.7336 29	4.272727	4.05193 6	0.77	0.19844	0.224532	0.145442	
sociali sm	10	0.10311 7	0.1884 94	99	9.9	12.714 38	72	152.739 4	0.885	0.12304	0.171926	0.085341	
techn ology datais	10	0.02102 3 0	0.0638 37 0	60 397	6 44.1111	6.8313 01 76.878	45.1 171.5556	57.1945 316.875	0.758	0.14489 8 0.13411	0.163787 0.21582	0.051823	
beauti ful	9				1	87		316.875	9	0.13411	0.21302	0.000101	
Conse rvative	9	- 0.01815	0.1681 05	75	8.33333 3	11.853 27	32.22222	41.3393 8	0.63666 7	0.11853 3	0.331066	0.112036	
ukpoli tics	9	0.00054 9	0.0961 82	4122	458	361.68 36	75.77778	153.296 9	0.80666 7	0.19602 3	0.196358	0.063421	
AskBa Ikans	8	0.03299	0.0836 77	392	49	41.942 14	42.5	64.3938 8	0.86875	0.08983	0.226054	0.061124	
Gotter funke n	8	0.10719 7	0.0605 39	2	0.25	0.7071 07	4.5	2.50713 3	0.9025	0.18986 8	0.293786		
conspi racy	7	0.12373 9	0.1886 64	586	83.7142 9	148.78 14	131	167.378 8	0.66142 9	0.14915 6	0.154296	0.051299	
YAPm s	6	- 0.08333	0.2041 24	72	12	13.711 31	19.16667	22.0854 4	0.89666 7	0.09605 6	0.279368	0.070298	
Destin y	6	0.02836 7	0.0876 47	401	66.8333 3	46.901 67	77.66667	64.4815 2	0.83166 7	0.20546 7	0.232196	0.037598	

hunga	5	0.07223	0.1107	97	19.4	18.420	14.4	12.3409	0.786	0.14775	0.199257	0.052442
ry		1	7			1		9				
Labou rUK	5	0.19635 7	0.2450 84	308	61.6	58.607 17	44.8	39.2708 5	0.81	0.08972 2	0.215408	0.018353
armen ia	4	0.15257 3	0.1658 14	85	21.25	19.855 73	26.5	21.6256	0.825	0.12503 3	0.244585	0.055147
Scotla nd	4	0.07970 8	0.0734 15	117	29.25	9.3941 47	8	14.6969 4	0.5425	0.24581 5	0.222538	0.04407
Europ eanAr my	3	0.04747 5	0.0963 35	0	0	0	10	4.35889 9	0.91333 3	0.04618 8		
Disinf o	3	0.02777 8	0.0787 64	7	2.33333 3	4.0414 52	20	14.4222 1	1	0	0.120793	
LibDe m	2	0.07549 5	0.0240 32	48	24	22.627 42	16.5	6.36396 1	0.965	0.04949 7	0.304223	0.029622
united kingd om	2	0.15	0.1414 21	296	148	178.19 09	849	1159.65 5	0.965	0.02121 3	0.184935	0.090166
Canad aPoliti cs	1	-0.25		51	51		67		0.88		0.179055	
politic s	1	-0.25		122	122		1489		0.97		0.277683	
bristol	1	0.11666 7		91	91		56		0.91		0.224107	
tories	1	- 0.25408		29	29		11		0.68		0.067038	
Propa ganda Poster s	1	0.125		176	176		1284		0.96		0.258254	
brexit	1	0.3		77	77		348		0.98		0.2036	