

PartySOME Codebook

The PartySOME dataset is a collection of social media activities from political parties in 34 different countries across Facebook, Twitter, Instagram, and YouTube. The codebook provides an overview of the parties covered in the dataset, details on coverage limitations to be aware of, and a description of the variables included in the dataset.

Coverage of the dataset

To begin with, Figure 1 represents the data collection status for all parties by country, as identified in the ParlGov dataset, that had at least one seat in parliament from 2005 to 2023. Coverage is complete in most countries. In many cases, data collection was not completed due to the absence of an official account. For the remaining cases, data collection is either not completed (“Collection not completed”) or only partially completed (“Minor incompletions”) for some party-platforms. This is due to a lack of access to the account caused by platform restrictions at the time of the original scraping or updates, or due to account restrictions (documented in “Other”). These cases are detailed for each platform in the following sections.

Information on missing data for Facebook

On Facebook, data collection incompleteness for some parties arises from three main issues.

First, the SPD in Germany had a restricted Facebook account, limiting access to some users. As a result, the data could not be retrieved and is marked as “Other” in the *fb_status* variable.

Second, after data collection, we figured out that there were missing data in the facebook posts of most of the Italian parties. This is due to the fact that the Crowdtangle API has limitations in the number of posts that could be retrieved at the same time, and so we proceeded timeframe by timeframe, inadvertently missing out the posts from 2012-01-01 to 2018-09-01, as shown in Figure 2.

Third, the other parties that could not be fully collected were one that were originally identified as parties to be included but were we did not have access anymore at the moment we wanted

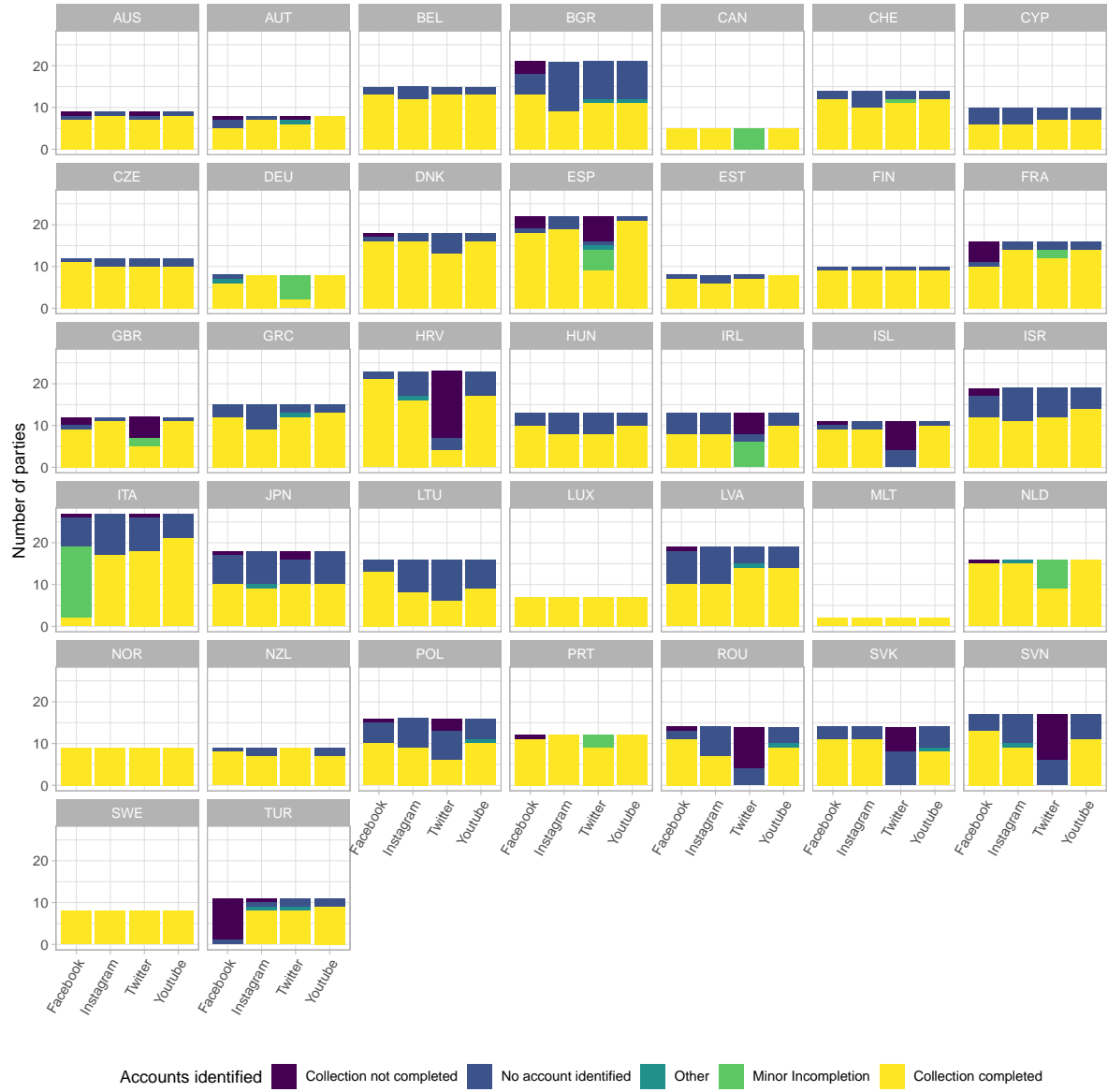


Figure 1: Account identification and data collection of the PartySOME dataset

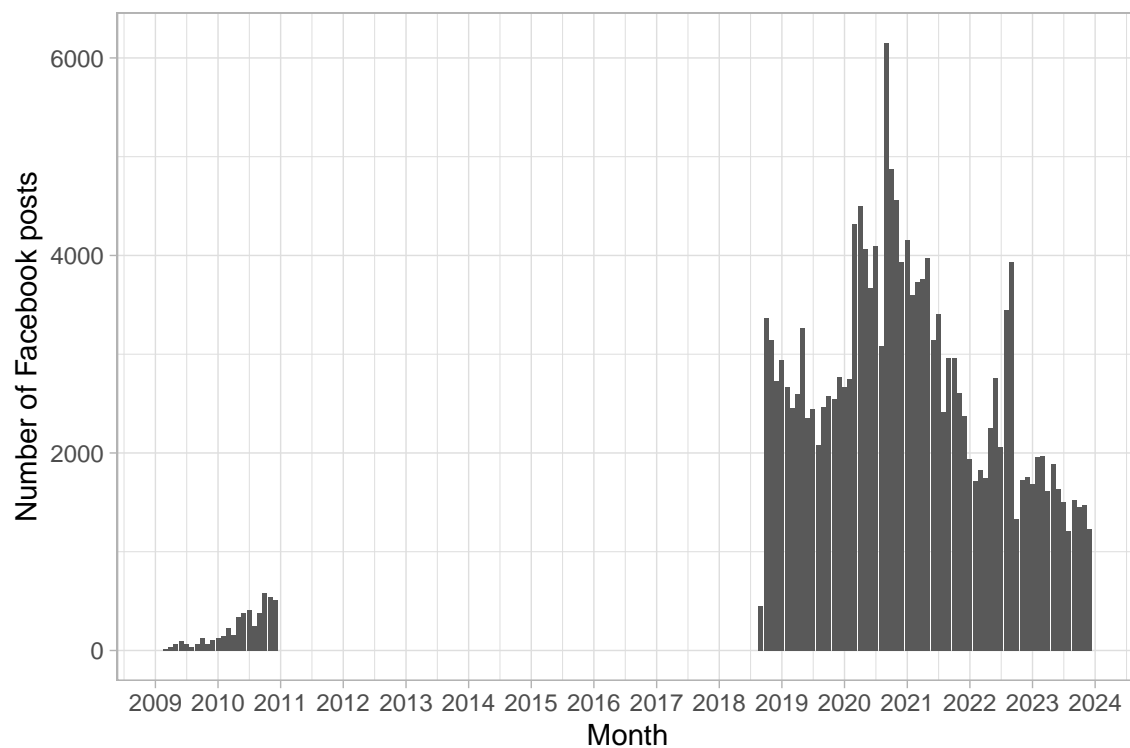


Figure 2: Monthly number of posts collected for Italian parties on Facebook for parties with Incomplete data

to collect the data. Most of them are small parties or parties that do not exist anymore but also include the full data collection for Turkey that could not be completed due to restrictions in the access to the Facebook API.

Table 1: Parties with incomplete data on Facebook

Country	ID	Party name	Status	Party creation	Party dissolution
AUS	2259	PUP	Collection not completed	2013-04-01	NA
AUT	1536	BZO	Collection not completed	2005-03-17	NA
BGR	544	NDSV	Collection not completed	2001-04-06	NA
BGR	636	RZS	Collection not completed	2005-01-01	2013-01-01
BGR	2362	BBZ	Collection not completed	2014-01-01	NA
DNK	1892	Sbf	Collection not completed	1906-01-01	NA
ESP	385	Bai	Collection not completed	2011-09-29	NA
ESP	551	UPyD	Collection not completed	2007-09-29	2020-12-06
ESP	894	CiU	Collection not completed	1978-09-19	2001-12-01
FRA	401	PR	Collection not completed	1901-06-21	NA
FRA	1058	NC	Collection not completed	2008-05-29	NA
FRA	1101	MF	Collection not completed	1994-11-20	2018-06-25
FRA	1492	PRG	Collection not completed	1972-01-01	NA
FRA	2078	AC	Collection not completed	2009-06-27	NA
GBR	1023	SDLP	Collection not completed	1970-08-21	NA
GBR	2731	APoNI	Collection not completed	1970-04-21	NA
ISL	587	B-H	Collection not completed	2009-01-01	2012-01-01
ISR	732	R ;H	Collection not completed	1977-01-01	NA
ISR	1846	Raam	Collection not completed	1996-01-01	NA
ITA	2156	SC	Collection not completed	2013-01-04	2019-07-24
JPN	247	NPD	Collection not completed	2005-08-18	NA
LVA	1520	PCTVL	Collection not completed	1998-08-03	NA
NLD	2109	50+	Collection not completed	2009-01-01	NA
POL	987	LPR	Collection not completed	2001-05-30	NA
PRT	107	PPM	Collection not completed	1974-05-23	NA
ROU	2130	PP-DD	Collection not completed	2011-01-01	2015-06-29
TUR	240	BBP	Collection not completed	1993-01-29	NA
TUR	329	DSP	Collection not completed	1985-11-14	NA
TUR	408	MHP	Collection not completed	1969-02-09	NA
TUR	507	SHP ;CHP	Collection not completed	1985-11-03	NA
TUR	901	AKP	Collection not completed	2001-08-14	NA
TUR	2572	HDP	Collection not completed	2012-10-15	NA
TUR	2702	IYI	Collection not completed	2017-10-25	NA

TUR	2895	YSPG	Collection not completed	2012-11-24	NA
TUR	2896	TIP	Collection not completed	2017-11-07	NA
TUR	2897	YRP	Collection not completed	2018-11-23	NA

Information on missing data for Twitter

On Twitter, the incompleteness of the data collection is primarily due to restrictions that prevented the full collection of data for some parties or the updating of data for certain parties in 2023. While most of the Twitter data for the identified accounts was collected or updated by the end of 2023, we were unable to update the data for all parties or to collect data for some others. Figure 3 shows the number of parties for each month of Twitter data collection update. This variable is documented in the dataset as *tw_collection_update*. We also could not collect full twitter data from several countries such as Slovenia, Iceland, Slovakia and Romania.

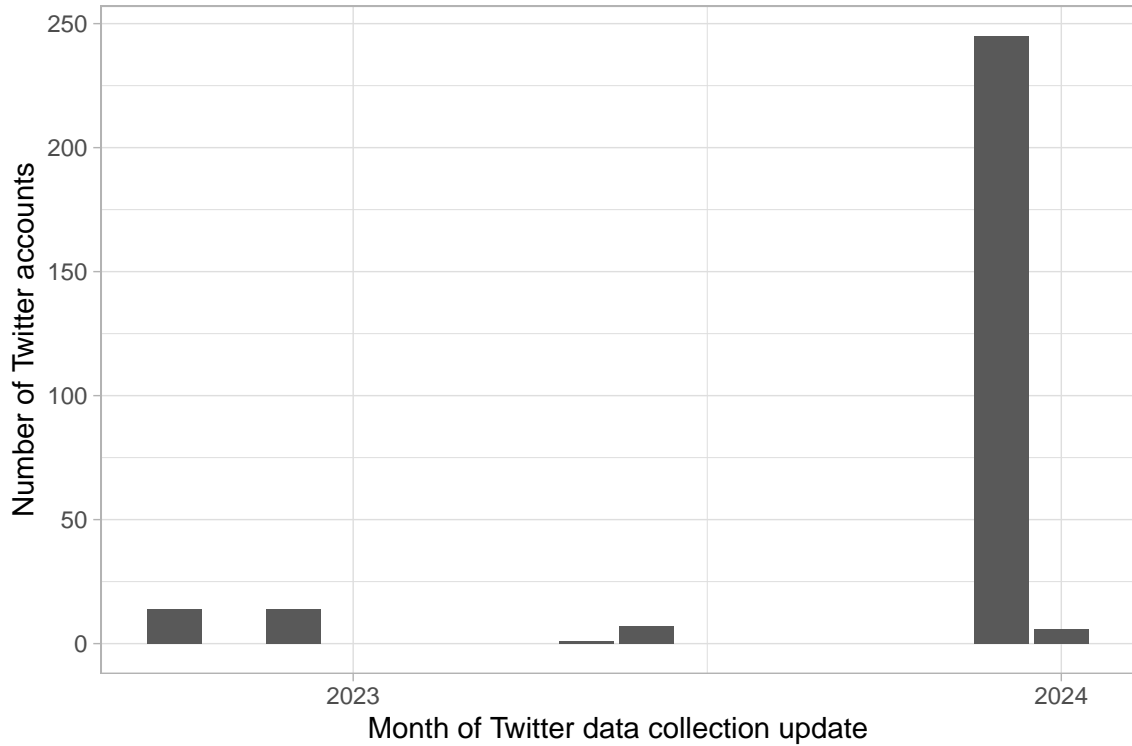


Figure 3: Month of Twitter data collection update for parties

Furthermore, Table 2 lists the parties with incomplete data on Twitter with “Minor incompleteness” as status for those with missing temporal coverage, “Collection not completed” for those who could not be accessed at all and “Other” for accounts that were suspended or empty when we tried to access them.

Table 2: Parties with incomplete data on Twitter

Country	ID	Party name	Status	Party creation	Update
AUS	2258	Katter	Collection not completed	2011-06-05	NA
AUT	1536	BZO	Collection not completed	2005-03-17	NA
AUT	2651	PILZ	Other	2017-06-26	NA
BGR	2871	BV	Other	2022-05-05	NA
CAN	296	CCF ;NDP	Minor Incompletion	1961-08-03	2022-10-10
CAN	368	LP	Minor Incompletion	1868-07-01	2022-10-10
CAN	448	BQ	Minor Incompletion	1995-06-15	2022-10-10
CAN	1255	CPC	Minor Incompletion	1867-07-01	2022-10-10
CAN	1259	GPC	Minor Incompletion	1983-01-01	2022-10-10
CHE	1226	S	Minor Incompletion	1992-01-01	NA
DEU	543	FDP	Minor Incompletion	1948-12-11	2022-12-15
DEU	558	SPD	Minor Incompletion	1875-05-27	2022-12-15
DEU	772	B90/Gru	Minor Incompletion	1980-01-13	2022-12-15
DEU	791	PDS ;Li	Minor Incompletion	2007-06-16	2022-12-15
DEU	808	CDU	Minor Incompletion	1946-01-08	2022-12-15
DEU	1180	CSU	Minor Incompletion	1945-06-26	2022-12-15
ESP	118	PCE ;IU	Minor Incompletion	1986-04-29	2022-12-19
ESP	385	Bai	Minor Incompletion	2011-09-29	2023-05-13
ESP	2375	Cs	Minor Incompletion	2006-07-09	2022-12-19
ESP	2376	P	Minor Incompletion	2014-01-17	2022-12-19
ESP	2603	EHB	Collection not completed	2011-04-03	NA
ESP	2604	EM ;GCE	Collection not completed	2015-11-01	NA
ESP	2605	CDC ;JxCat	Collection not completed	2015-07-01	NA
ESP	2606	ECP	Collection not completed	2015-10-01	NA
ESP	2607	C ;AV	Collection not completed	2010-01-25	2023-12-31
ESP	2723	NA+	Other	2019-03-11	NA
ESP	2792	CUP	Collection not completed	1986-12-14	NA
ESP	2804	Equo	Minor Incompletion	2011-06-04	2022-12-19
FRA	2273	UDI	Minor Incompletion	2012-09-18	2022-12-18
FRA	2399	DLR ;DLF	Minor Incompletion	2008-11-23	2022-12-14
GBR	311	Plaid	Minor Incompletion	1925-08-05	2022-12-19
GBR	319	DUP	Collection not completed	1971-09-30	NA
GBR	1023	SDLP	Collection not completed	1970-08-21	NA
GBR	1057	R	Collection not completed	2004-01-25	NA
GBR	1210	UUP	Collection not completed	1905-03-03	NA
GBR	1284	SNP	Minor Incompletion	1934-04-07	2022-12-19

GBR	2731	APoNI	Collection not completed	1970-04-21	NA
GRC	2780	EL	Other	2015-06-28	NA
HRV	1384	HNS-LD	Collection not completed	1990-10-13	NA
HRV	1465	HSS	Collection not completed	1904-12-22	NA
HRV	1493	SPH	Collection not completed	1990-11-03	NA
HRV	1627	IDS	Collection not completed	1990-02-14	NA
HRV	2134	HSU	Collection not completed	1996-04-29	NA
HRV	2135	HDSSB	Collection not completed	2006-05-06	NA
HRV	2182	HL-LR	Collection not completed	2010-02-27	NA
HRV	2193	HGS	Collection not completed	2009-09-25	NA
HRV	2270	SDA	Collection not completed	1990-06-20	NA
HRV	2612	ZiZi	Collection not completed	2011-06-02	NA
HRV	2614	NS	Collection not completed	2014-11-28	NA
HRV	2615	Most	Collection not completed	2012-11-17	NA
HRV	2628	MB	Collection not completed	2015-03-28	NA
HRV	2772	P	Collection not completed	2013-01-01	NA
HRV	2809	DP	Collection not completed	2020-02-29	NA
HRV	2810	M!	Collection not completed	2019-02-01	NA
IRL	280	FF	Minor Incompletion	1926-03-23	2022-10-10
IRL	318	Lab	Minor Incompletion	1912-05-28	2022-10-10
IRL	1014	SP	Collection not completed	1996-01-01	NA
IRL	1393	FG	Minor Incompletion	1933-09-08	2022-10-10
IRL	1573	Green	Minor Incompletion	1981-12-03	2022-10-10
IRL	1804	PBPA	Collection not completed	2005-10-01	NA
IRL	2217	SF	Minor Incompletion	1905-01-01	2022-10-10
IRL	2619	DS	Minor Incompletion	2015-07-15	2022-10-10
IRL	2621	IC	Collection not completed	2014-01-01	NA
IRL	2776	D-PRB	Collection not completed	2014-01-01	NA
IRL	2795	A	Collection not completed	2019-01-28	NA
ISL	1006	Sam	Collection not completed	2000-05-05	NA
ISL	1342	Sj	Collection not completed	1929-05-25	NA
ISL	1455	F	Collection not completed	1916-12-16	NA
ISL	2205	Pi	Collection not completed	2012-11-24	NA
ISL	2632	FlF	Collection not completed	2016-01-27	NA
ISL	2633	V	Collection not completed	2014-06-01	NA
ISL	2655	M	Collection not completed	2017-09-24	NA
ITA	927	AIE	Collection not completed	2007-01-01	NA
JPN	2136	JReP	Collection not completed	NA	NA
JPN	2826	JaRep	Collection not completed	2015-11-02	NA

LVA	1100	S	Other	2009-11-21	NA
NLD	345	D66	Minor Incompletion	1966-10-14	2023-06-13
NLD	357	SP	Minor Incompletion	1972-10-22	2023-06-13
NLD	742	PvdA	Minor Incompletion	1946-02-09	2023-06-13
NLD	756	GL	Minor Incompletion	1989-03-01	2023-06-13
NLD	990	PvdD	Minor Incompletion	2022-10-28	2023-06-13
NLD	1409	VVD	Minor Incompletion	1948-01-24	2023-06-13
NLD	2641	DENK	Minor Incompletion	2015-02-09	2023-06-13
POL	207	SRP	Collection not completed	1992-01-10	NA
POL	629	SLD	Collection not completed	1991-07-01	NA
POL	664	PSL	Collection not completed	1895-01-01	NA
PRT	251	CDS-PP	Minor Incompletion	1974-07-19	2022-10-10
PRT	514	PCP	Minor Incompletion	1921-03-06	2022-10-10
PRT	1295	CDU	Minor Incompletion	1987-01-01	2022-10-10
ROU	888	PNT-CD	Collection not completed	1989-12-01	NA
ROU	948	UDMR	Collection not completed	1989-12-25	NA
ROU	1015	PNL	Collection not completed	1990-01-15	NA
ROU	1120	PSD	Collection not completed	1993-07-10	NA
ROU	2129	FC	Collection not completed	2014-01-01	NA
ROU	2130	PP-DD	Collection not completed	2011-01-01	NA
ROU	2395	PMP	Collection not completed	2014-01-29	NA
ROU	2646	USR ;PLUS	Collection not completed	2016-08-21	NA
ROU	2647	PLR ;ALDE	Collection not completed	2015-09-19	NA
ROU	2807	AUR	Collection not completed	2019-09-19	NA
SVK	220	Smer	Collection not completed	1999-11-08	NA
SVK	1072	SNS	Collection not completed	1990-03-07	NA
SVK	1432	KDH	Collection not completed	1990-02-17	NA
SVK	1460	SaS	Collection not completed	2009-03-28	NA
SVK	1620	MH	Collection not completed	2009-09-30	NA
SVK	2623	SR	Collection not completed	2015-11-10	NA
SVN	16	SLS	Collection not completed	1988-05-12	NA
SVN	179	SDS	Collection not completed	1989-02-16	NA
SVN	706	ZL-SD	Collection not completed	1993-05-20	NA
SVN	981	SNS	Collection not completed	1991-03-17	NA
SVN	1047	NSI	Collection not completed	2000-08-04	NA
SVN	1252	LDS	Collection not completed	1994-03-12	NA
SVN	1587	DeSUS	Collection not completed	1991-01-01	NA
SVN	1987	LZJ-PS	Collection not completed	2011-10-22	NA
SVN	2337	ZaAB	Collection not completed	2014-05-31	NA
SVN	2668	LMS	Collection not completed	2014-05-31	NA

SVN	2670	L	Collection not completed	2014-03-01	NA
TUR	2572	HDP	Other	2012-10-15	NA

Information on missing data for Instagram

Regarding Instagram, only three accounts could not be scraped despite being identified. These are: the HSP in Croatia, where the account exists but is empty; 50+ in the Netherlands, where data exists but could not be retrieved due to unresolved technical issues; and DeSUS in Slovenia, DPP in Japan and HDP in Turkey which have an account but which is restricted, preventing data collection.

Table 3: Parties with incomplete data on Instagram

Country	ID	Party name	Status	Party creation	Party dissolution
HRV	1044	HSP	Other	1990-02-25	NA
JPN	2827	DPP	Other	2018-05-07	NA
NLD	2109	50+	Other	2009-01-01	NA
SVN	1587	DeSUS	Other	1991-01-01	NA
TUR	2572	HDP	Other	2012-10-15	NA

Information on missing data for Youtube

For YouTube, the data could not be collected for four accounts which were identified. These are: the BV in Bulgaria from which the Youtube link from the website was not working and the account could not be found, Korwin in Poland whose channel was described as not available, the PP-DD in Romania and Siet' in Slovakia whose accounts were empty.

Table 4: Parties with incomplete data on Youtube

Country	ID	Party name	Status	Party creation	Party dissolution
BGR	2871	BV	Other	2022-05-05	NA
POL	2602	KORWIN	Other	2015-01-22	NA
ROU	2130	PP-DD	Other	2011-01-01	2015-06-29
SVK	2624	S	Other	2014-06-12	2022-12-20

Variables in the aggregated dataset

country_name_short: Country name abbreviation, ISO 3166-1 alpha-3. The countries available are: Australia (AUS), Austria (AUT), Belgium (BEL), Bulgaria (BGR), Canada (CAN), Croatia (HRV), Cyprus (CYP), Czech Republic (CZE), Denmark (DNK), Estonia (EST), Finland (FIN), France (FRA), Germany (DEU), Greece (GRC), Hungary (HUN), Iceland (ISL), Ireland (IRL), Italy (ITA), Israel (ISR), Japan (JPN), Latvia (LVA), Lithuania (LTU), Luxembourg (LUX), Malta (MLT), Netherlands (NLD), New Zealand (NZL), Norway (NOR), Poland (POL), Portugal (PRT), Romania (ROU), Slovakia (SVK), Slovenia (SVN), Spain (ESP), Sweden (SWE), Switzerland (CHE), Turkey (TUR), United Kingdom (GBR).

party_id: Unique identifier for the party (ParlGov dataset)

party_name : Party name (ParlGov dataset)

party_name_eng: Party name in English (ParlGov dataset)

party_name_short: Party name abbreviation (ParlGov dataset)

party_created_date: Date when the party was created, compiled from Wikipedia. When no precise date was available, the first day of the month or of the year was used.

party_end_date: Date when the party was dissolved, compiled from Wikipedia.

website: URL of the party's website, compiled from google searches.

fb_handle: Facebook handle of the party.

fb_scraping: Whether facebook data is available for the party.

fb_status : Status of the facebook data collection. The possible values are: "Collection completed", "Incomplete collection", "No account identified", "Collection not completed", "Other".

fb_accounty_type: Type of facebook account. The possible values are either "party" or "leader".

fb_page_created: Date when the facebook page was created.

fb_date_min: Date of the first facebook post collected.

fb_date_max: Date of the last facebook post collected.

fb_posts_n: Number of facebook posts collected.

fb_type_img_n : Number of images in the facebook posts collected.

fb_type_video_n : Number of videos in the facebook posts collected.

fb_collection_update : Date of the last update of the data collection for the party's facebook account.

insta_handle: Instagram handle of the party.

insta_scraping: Whether instagram data is available for the party.

insta_status : Status of the instagram data collection. The possible values are: “Collection completed”, “Incomplete collection”, “No account identified”, “Collection not completed”, “Other”.

insta_accounty_type: Type of instagram account. The possible values are either “party” or “leader”.

insta_page_created: Date when the instagram page was created. As this information is not available in the data collected, the date of the first post was used as a proxy.

insta_date_min: Date of the first instagram post collected.

insta_date_max: Date of the last instagram post collected.

insta_posts_n: Number of instagram posts collected.

insta_type_img_n : Number of instagram posts of the type “image”.

insta_type_video_n : Number of instagram posts of the type “video”.

insta_type_car_n : Number of instagram posts of the type “carousel”.

insta_collection_update : Date of the last update of the data collection for the party’s instagram account.

tw_handle: Twitter handle of the party.

tw_scraping: Whether twitter data is available for the party.

tw_status : Status of the twitter data collection. The possible values are: “Collection completed”, “Incomplete collection”, “No account identified”, “Collection not completed”, “Other”.

tw_accounty_type: Type of twitter account. The possible values are either “party” or “leader”.

tw_page_created: Date when the twitter page was created.

tw_date_min: Date of the first twitter post collected.

tw_date_max: Date of the last twitter post collected.

tw_posts_n: Number of twitter posts collected.

tw_collection_update : Date of the last update of the data collection for the party’s twitter account.

yt_scraping: Whether youtube data is available for the party.

yt_channel_id: Youtube channel id of the party.

yt_channel_url: Youtube channel URL of the party.

yt_status : Status of the youtube data collection. The possible values are: “Collection completed”, “Incomplete collection”, “No account identified”, “Collection not completed”, “Other”.

yt_account_type: Type of youtube account. The possible values are either “party” or “leader”.

yt_page_created: Date when the youtube channel was created.

yt_date_min: Date of the first youtube video collected.

yt_date_max: Date of the last youtube video collected.

yt_videos_n: Number of youtube videos collected.

yt_collection_update : Date of the last update of the data collection for the party’s youtube account.

Variables in the Daily, weekly, monthly and yearly datasets

Additionally, the data is available in different levels of aggregation : daily, weekly, monthly and yearly. These datasets contains the variables day, week, month and year respectively in the “YYYY-MM-DD” format with the corresponding number of posts for that period with the following variables:

Daily data

country_name_short: Country name abbreviation, ISO 3166-1 alpha-3.

party_id: Unique identifier for the party (ParlGov dataset)

party_name_short: Party name abbreviation (ParlGov dataset)

day: Date in the “YYYY-MM-DD” format.

fb_page_created: Date when the facebook page was created.

fb_posts_n_daily: Number of facebook posts for that day.

fb_n_type_img_daily: Number of facebook posts of the type “image” for that day.

fb_n_type_video_daily: Number of facebook posts of the type “video” for that day.

tw_page_created: Date when the twitter page was created.

tw_posts_n_daily: Number of twitter posts for that day.

insta_page_created: Date when the instagram page was created. As this information is not available in the data collected, the date of the first post was used as a proxy.

insta_posts_n_daily: Number of instagram posts for that day.

insta_n_type_img_daily: Number of instagram posts of the type “image” for that day.

insta_n_type_video_daily: Number of instagram posts of the type “video” for that day.

yt_page_created: Date when the youtube channel was created.

yt_videos_n_daily: Number of youtube videos for that day.

Weekly data

country_name_short: Country name abbreviation, ISO 3166-1 alpha-3.

party_id: Unique identifier for the party (ParlGov dataset)

party_name_short: Party name abbreviation (ParlGov dataset)

week: Date in the “YYYY-MM-DD” format.

fb_page_created: Date when the facebook page was created.

fb_posts_n_weekly: Number of facebook posts for that week.

fb_n_type_img_weekly: Number of facebook posts of the type “image” for that week.

fb_n_type_video_weekly: Number of facebook posts of the type “video” for that week.

tw_page_created: Date when the twitter page was created.

tw_posts_n_weekly: Number of twitter posts for that week.

insta_page_created: Date when the instagram page was created. As this information is not available in the data collected, the date of the first post was used as a proxy.

insta_posts_n_weekly: Number of instagram posts for that week.

insta_n_type_img_weekly: Number of instagram posts of the type “image” for that week.

insta_n_type_video_weekly: Number of instagram posts of the type “video” for that week.

yt_page_created: Date when the youtube channel was created.

yt_videos_n_weekly: Number of youtube videos for that week.

Monthly data

country__name__short: Country name abbreviation, ISO 3166-1 alpha-3.

party__id: Unique identifier for the party (ParlGov dataset)

party__name__short: Party name abbreviation (ParlGov dataset)

month: Date in the “YYYY-MM-DD” format.

fb__page__created: Date when the facebook page was created.

fb__posts__n__monthly: Number of facebook posts for that month.

fb__n__type__img__monthly: Number of facebook posts of the type “image” for that month.

fb__n__type__video__monthly: Number of facebook posts of the type “video” for that month.

tw__page__created: Date when the twitter page was created.

tw__posts__n__monthly: Number of twitter posts for that month.

insta__page__created: Date when the instagram page was created. As this information is not available in the data collected, the date of the first post was used as a proxy.

insta__posts__n__monthly: Number of instagram posts for that month.

insta__n__type__img__monthly: Number of instagram posts of the type “image” for that month.

insta__n__type__video__monthly: Number of instagram posts of the type “video” for that month.

yt__page__created: Date when the youtube channel was created.

yt__videos__n__monthly: Number of youtube videos for that month.

Yearly data

country__name__short: Country name abbreviation, ISO 3166-1 alpha-3.

party__id: Unique identifier for the party (ParlGov dataset)

party__name__short: Party name abbreviation (ParlGov dataset)

year: Date in the “YYYY-MM-DD” format.

fb__page__created: Date when the facebook page was created.

fb__posts__n__yearly: Number of facebook posts for that year.

fb_n_type_img_yearly: Number of facebook posts of the type “image” for that year.

fb_n_type_video_yearly: Number of facebook posts of the type “video” for that year.

tw_page_created: Date when the twitter page was created.

tw_posts_n_yearly: Number of twitter posts for that year.

insta_page_created: Date when the instagram page was created. As this information is not available in the data collected, the date of the first post was used as a proxy.

insta_posts_n_yearly: Number of instagram posts for that year.

insta_n_type_img_yearly: Number of instagram posts of the type “image” for that year.

insta_n_type_video_yearly: Number of instagram posts of the type “video” for that year.

yt_page_created: Date when the youtube channel was created.

yt_videos_n_yearly: Number of youtube videos for that year.