


Twitter Data Report

27/07/2022




Metadata Statistics

- **# of Users:** 867.934
- **# of Tweets:** 32.098.727
- **# of Unique Tweets:** 21.865.425
- **Daily User Download Counts** 
 - \approx 11.5K daily user downloads with 8 API keys
 - \approx 1.4K daily user downloads with 1 API key

download_count		download_count		download_count		download_count	
date		date		date		date	
18/03/2022	50146	04/05/2022	11516	01/06/2022	10682	29/06/2022	11026
19/03/2022	303	05/05/2022	11001	02/06/2022	9895	30/06/2022	11029
20/03/2022	202	06/05/2022	10739	03/06/2022	9875	01/07/2022	11022
21/03/2022	221	07/05/2022	11508	04/06/2022	9848	02/07/2022	10532
22/03/2022	750	08/05/2022	11473	05/06/2022	9851	03/07/2022	10413
23/03/2022	1440	09/05/2022	11475	06/06/2022	9853	04/07/2022	8801
24/03/2022	1430	10/05/2022	10648	07/06/2022	9864	05/07/2022	6846
25/03/2022	1440	11/05/2022	11514	08/06/2022	9795	06/07/2022	4788
26/03/2022	1440	12/05/2022	11404	09/06/2022	9824	07/07/2022	4095
27/03/2022	1440	13/05/2022	11518	10/06/2022	9824	08/07/2022	3604
28/03/2022	1440	14/05/2022	11398	11/06/2022	9808	09/07/2022	1365
29/03/2022	1417	15/05/2022	11517	12/06/2022	9755	10/07/2022	1363
30/03/2022	1440	16/05/2022	11396	13/06/2022	9863	11/07/2022	1379
31/03/2022	1440	17/05/2022	11267	14/06/2022	9782	12/07/2022	1365
01/04/2022	1439	18/05/2022	11480	15/06/2022	9760	13/07/2022	1363
02/04/2022	1440	19/05/2022	10554	16/06/2022	9760	14/07/2022	1321
03/04/2022	675	20/05/2022	11219	17/06/2022	9797	15/07/2022	1362
23/04/2022	4657	21/05/2022	11398	18/06/2022	9790	16/07/2022	1361
24/04/2022	10705	22/05/2022	4318	19/06/2022	9959	17/07/2022	1362
25/04/2022	7888	23/05/2022	11394	20/06/2022	11120	18/07/2022	1363
26/04/2022	7181	24/05/2022	11303	21/06/2022	11370	19/07/2022	1345
27/04/2022	5834	25/05/2022	11369	22/06/2022	11137	20/07/2022	1359
28/04/2022	4314	26/05/2022	11421	23/06/2022	11075	21/07/2022	1362
29/04/2022	6833	27/05/2022	11280	24/06/2022	11115	22/07/2022	1344
30/04/2022	11518	28/05/2022	11399	25/06/2022	13856	23/07/2022	1354
01/05/2022	11517	29/05/2022	11590	26/06/2022	11170	24/07/2022	1352
02/05/2022	11478	30/05/2022	11277	27/06/2022	11098	25/07/2022	1333
03/05/2022	11517	31/05/2022	11278	28/06/2022	11042	26/07/2022	958

Data Fields

- **Location** ('location')
- **Description** ('description')
- **Name** ('name')
- **Username/handle** ('screen_name')
- **User ID** ('id_str')
- **Date account was created** ('created_at')
- **Province codes** ('province_codes') → Source (location, description) & Province Code
- **Genders** ('genders') → Source (name, screen_name, description) & Gender
- **Following** ('following') → 100 IDs by default
- **Followers** ('followers') → 100 IDs by default
- **Tweets** ('tweets')
 - We request recent **10 tweets** from users' timelines of types: **Original, Retweet, Reply, Quote**
 - We request recent **100 tweets** from users' **Favorites**
 - For each tweet, we get (ref) **tweet ID, (ref) tweet text, tweet type, tweet date**
 - For each tweet, we added **sentiment scores** (negative, neutral, positive) and **named entities**
- **Following count** ('following_count')
- **Followers count** ('followers_count')
- **Date of user downloaded** ('downloaded')
- **Profile picture URL** ('pp')
- **Demographic predictions** ('demog_pred')

-  : Available in User Objects collected earlier
-  : Added by Ali Hürriyetoglu
-  : Added metadata

```
{'location': 'datça',
 'description': 'muğla sıtkı koçman üniversitesi',
 'name': 'bekir deniz oğuz',
 'screen_name': 'deniz_oguz10',
 'id_str': '2971146041',
 'created_at': 'Sat Jan 10 10:02:00 +0000 2015',
 'province_codes': [{'source': 'location', 'pcode': 48},
 {'source': 'description', 'pcode': 48}],
 'genders': [{'source': 'name', 'gender': 'male'}],
 'following': ['1010630730421071872',
 '1332656351038889984',
 '1168513170270539776',
 'followers': ['1332656351038889984',
 '1168513170270539776',
 '1112527208210407424',
 '1081943678422269952',
 'tweets': [{'twit_id_str': '1096826274767650816',
 'twit_txt': "iki Haftadır Konyaspor Aleyhine Kararlar Veriliyor Hakemler Ta
 rafından\\nTamam yukarı sıralarda Olmasını istemiyorlar'da @mehbaykan Sen Spor
 Bakanlığında Ne halt Yiyorsun Kardeşim Nie Müdahale Etmiyorsun @Tahir_Akyurek
 Gibi sende Konya Düşmansın Anlaşıldı.\\n\\n@konyaspor\\n#Konyaspor",
 'type': 'original',
 'twit_date': '190216',
 'senti': {'sent_scores': ['817', '123', '058'], 'version': 0},
 'n_ent': {'entities': [['ORG', 'Konyaspor', 0], ['LOC', 'Konya', 0]],
 'version': 0}}],
 'followers_count': 222,
 'following_count': 42,
 'pp': '1099780887464554496/NJWLjly2_normal.jpg',
 'downloaded': '220614',
 'demog_pred': [{'txt_based': {}},
 'img_based': {'isFemale': 0.0101,
 'isOrg': 0.0092,
 'age': [0.03, 0.8111, 0.1155, 0.0434],
 'version': 0}}]}
```

Tweet Types & Fields

- **Original:** “twt_id_str”, “twt_txt”, “type”, “twt_date”, “senti” (sentiment), “n_ent” (named entities)
- **Retweet:** “ref_twt_id_str”, “ref_twt_txt”, “ref_usr_id_str”, “type”, “twt_date”, “ref_senti” (sentiment), “ref_n_ent” (named entities)

```
{'twt_id_str': '1530899238128852993',  
'twt_txt': 'Fetih ruhunu anlamak istiyorsak, Fatih'i anlamamız gerekir:\n'\n'Ben Sultan Fatihim, önümdüyüm İstanbul'un.\n'Yakarım bu şehri yüzünde bir tebessüm için.\n'\n'Yoksa gül yüzünü güldürmeyen sultanlığı istemem, İstanbul'u '\n'istemem\n'\n'https://t.co/Gle3Xj0v2H',  
'type': 'original',  
'twt_date': '220529',  
'senti': {'sent_scores': ['127', '356', '515'], 'version': 0},  
'n_ent': {'entities': [['ORG', 'Fetih', 0],  
                      ['PER', 'Fatihim,', 0],  
                      ['LOC', 'İstanbul'un.', 0],  
                      ['LOC', 'İstanbul'u', 0]],  
'version': 0}}
```

```
{'ref_twt_id_str': '1069285419504807936',  
'ref_twt_txt': 'Cumhurbaşkanımız Recep Tayyip Erdoğan, resmi temaslarda '\n'bulunmak üzere geldiği Paraguay'da Devlet Başkanı Mario Abdo '\n'Benitez ile baş başa görüşmesinin ardından, heyetler arası '\n'görüşmeye başkanlık etti. https://t.co/mmRAF3As0h,  
'ref_usr_id_str': '1628824092',  
'type': 'retweet',  
'twt_date': '181202',  
'ref_senti': {'sent_scores': ['027', '709', '263'], 'version': 0},  
'ref_n_ent': {'entities': [['PER', 'Recep Tayyip Erdoğan,', 8],  
                          ['LOC', "Paraguay'da", 0],  
                          ['PER', 'Mario Abdo Benitez', 0]],  
'version': 0}}
```

Tweet Types & Fields

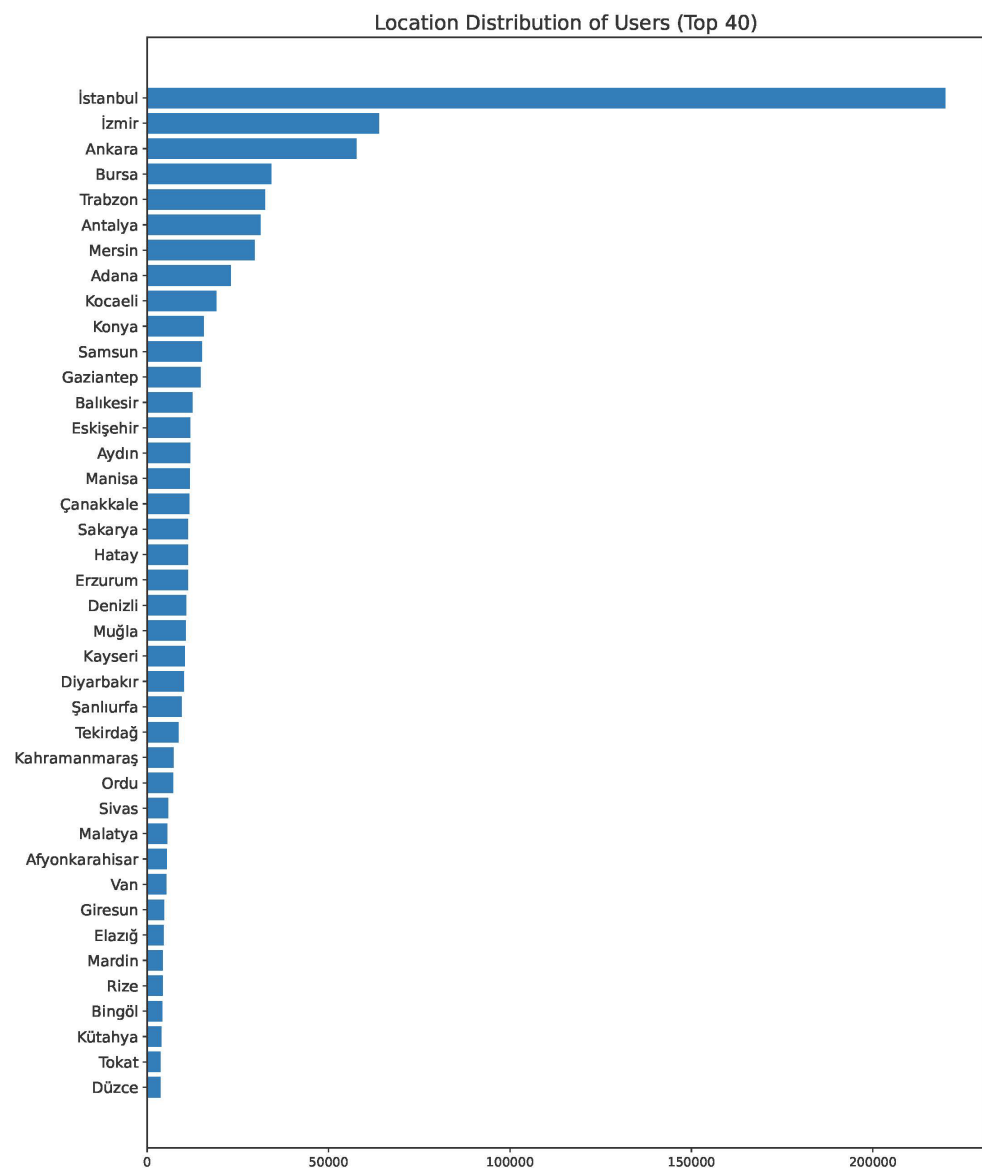
- **Favorite:** “ref_twt_id_str”, “ref_twt_txt”,
“ref_usr_id_str”, “type”, “twt_date”,
“ref_senti”, “ref_n_ent”
- **Reply:** “twt_id_str”, “twt_txt”, “ref_twt_id_str”,
“ref_twt_txt”, “ref_usr_id_str”, “type”,
“twt_date”, “ref_senti”, “ref_n_ent”
- **Quote:** “twt_id_str”, “twt_txt”, “ref_twt_id_str”,
“ref_twt_txt”, “ref_usr_id_str”, “type”,
“twt_date”, “ref_senti”, “ref_n_ent”

```
{'ref_twt_id_str': '1286545038831427584',  
'ref_twt_txt': 'Rüyamızı gerçekleştiren Allah'a şükürler olsun...\n'\n'        'Bir milleti özlemleriyle buluşturan, \n'\n'        'bir vesayeti sona erdiren Recep Tayyip Erdoğan'a\n'\n'        'minnetle...\n'\n'        '\n'\n'        '#AyasofyaCamii',  
'ref_usr_id_str': '18971997',  
'type': 'fav',  
'twt_date': '200724',  
'ref_senti': {'sent_scores': ['023', '065', '910'], 'version': 0},  
'ref_n_ent': {'entities': [['PER', 'Recep Tayyip Erdoğan'a', 8]],  
              'version': 0}}
```

```
{'twt_id_str': '1413951358965850113',  
'twt_txt': '@enginozkoc Çok sinirbozucusun, hemde artık ar damarın çatlamış '\n'        'utanma, sıkılma, mefhumları silinmiş insanlıktan da istifa '\n'        'etmişsiniz, o Tayyip Erdoğan bu ülkenin seçilmiş cumhurbaşkanı '\n'        'günde 20 saat çalışıyor yazırsınız hazır yiyecekler sizi.\n'\n'        '\n',  
'ref_twt_id_str': '1399814856493174785',  
'ref_twt_txt': 'Vatandaşa 1 doz bile yok, Erdoğan'a 3 doz aşı...',  
'ref_usr_id_str': '221790511',  
'type': 'reply',  
'twt_date': '210601',  
'senti': {},  
'n_ent': {},  
'ref_senti': {'sent_scores': ['911', '051', '037'], 'version': 0},  
'ref_n_ent': {'entities': [['PER', 'Tayyip Erdoğan', 0]], 'version': 0}}
```

```
{'twt_id_str': '1525753471319908353',  
'twt_txt': 'Bosna için harika bir şey, Türkiye'ye bakınca hüznü verici.. '\n'        'Kendini bu kadar inkâr ve imha eden bir millet olmamalıydık.. '\n'        'https://t.co/WJfXc8uwni',  
'ref_twt_id_str': '152555309321797632',  
'ref_twt_txt': 'Avrupa'nın en köklü eğitim kurumlarından biri olan, Bosna '\n'        'Hersek'in başkenti Saraybosna'da neredeyse 500 yıldır eğitime '\n'        'devam eden Gazi Hüseyin Bey Medresesi, 472'nci mezunlarını '\n'        'verdi.\n'\n'        'https://t.co/qgC8NM3LP\n'\n'        'Fotoğraflar: MINA https://t.co/LC6EFf9ZLp',  
'ref_usr_id_str': '1367044650951995392',  
'type': 'quote',  
'twt_date': '220514',  
'senti': {},  
'n_ent': {},  
'ref_senti': {'sent_scores': ['333', '118', '547'], 'version': 0},  
'ref_n_ent': {'entities': [['LOC', 'Bosna', 0], ['LOC', 'Türkiye'ye', 0]],  
              'version': 0}}
```

User Statistics – Location



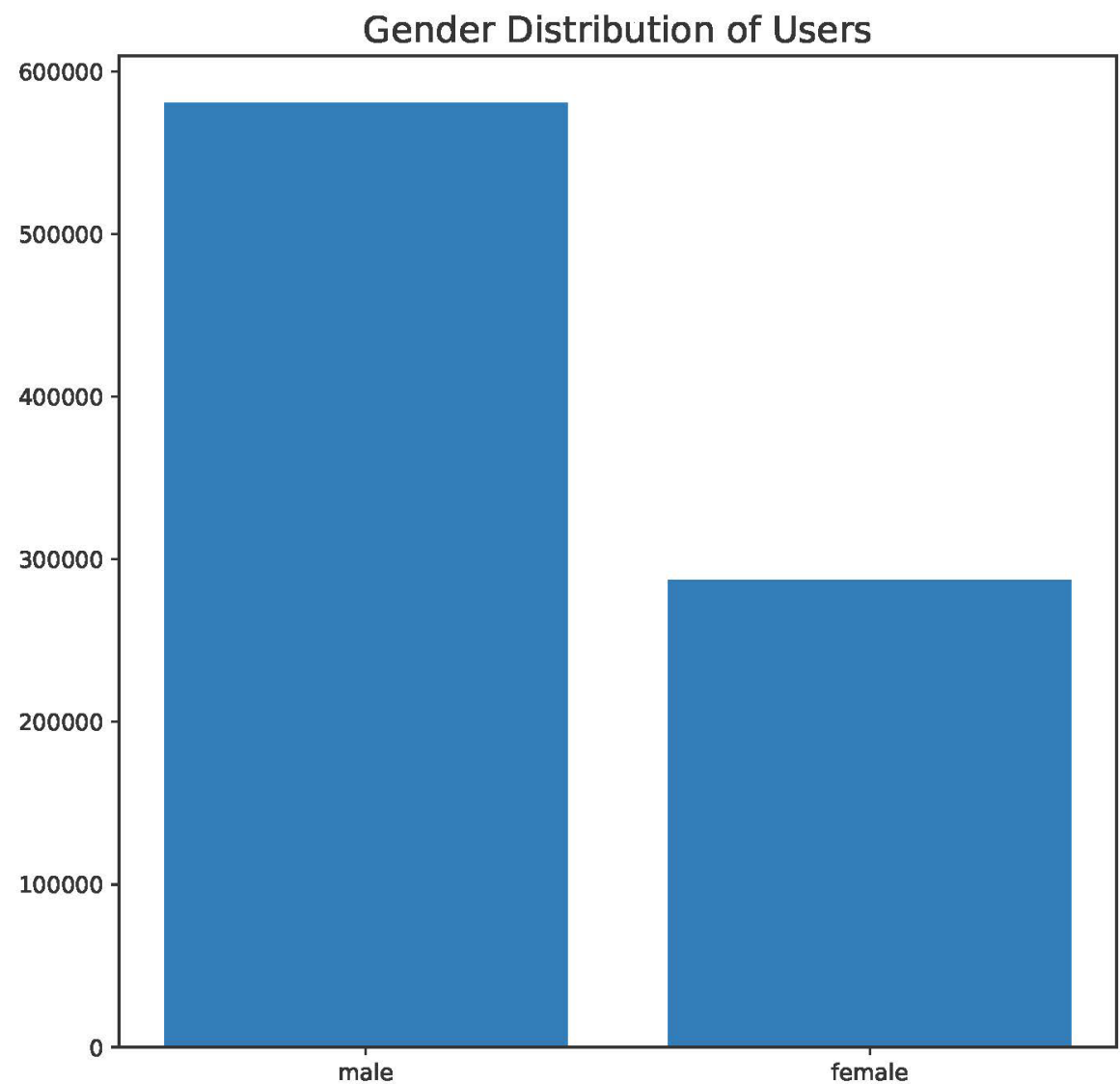
	sehir	user_count
0	İstanbul	219968
1	İzmir	63908
2	Ankara	57686
3	Bursa	34202
4	Trabzon	32463
5	Antalya	31260
6	Mersin	29643
7	Adana	23074
8	Kocaeli	19099
9	Konya	15568
10	Samsun	15106
11	Gaziantep	14724
12	Balıkesir	12531
13	Eskişehir	11898
14	Aydın	11864
15	Manisa	11792
16	Çanakkale	11573
17	Sakarya	11288
18	Hatay	11187
19	Erzurum	11184

	sehir	user_count
20	Denizli	10726
21	Muğla	10661
22	Kayseri	10409
23	Diyarbakır	10126
24	Şanlıurfa	9473
25	Tekirdağ	8583
26	Kahramanmaraş	7302
27	Ordu	7099
28	Sivas	5768
29	Malatya	5500
30	Afyonkarahisar	5400
31	Van	5226
32	Giresun	4654
33	Elazığ	4526
34	Mardin	4340
35	Rize	4294
36	Bingöl	4185
37	Kütahya	3959
38	Tokat	3721
39	Düzce	3698

	sehir	user_count
40	Osmaniye	3698
41	Adıyaman	3667
42	Zonguldak	3641
43	Isparta	3542
44	Edirne	3383
45	Çorum	3117
46	Yozgat	3011
47	Aksaray	2972
48	Batman	2965
49	Amasya	2793
50	Yalova	2744
51	Kastamonu	2707
52	Uşak	2614
53	Kırklareli	2519
54	Bolu	2493
55	Niğde	2493
56	Artvin	2443
57	Ağrı	2309
58	Karabük	2297
59	Çankırı	2152

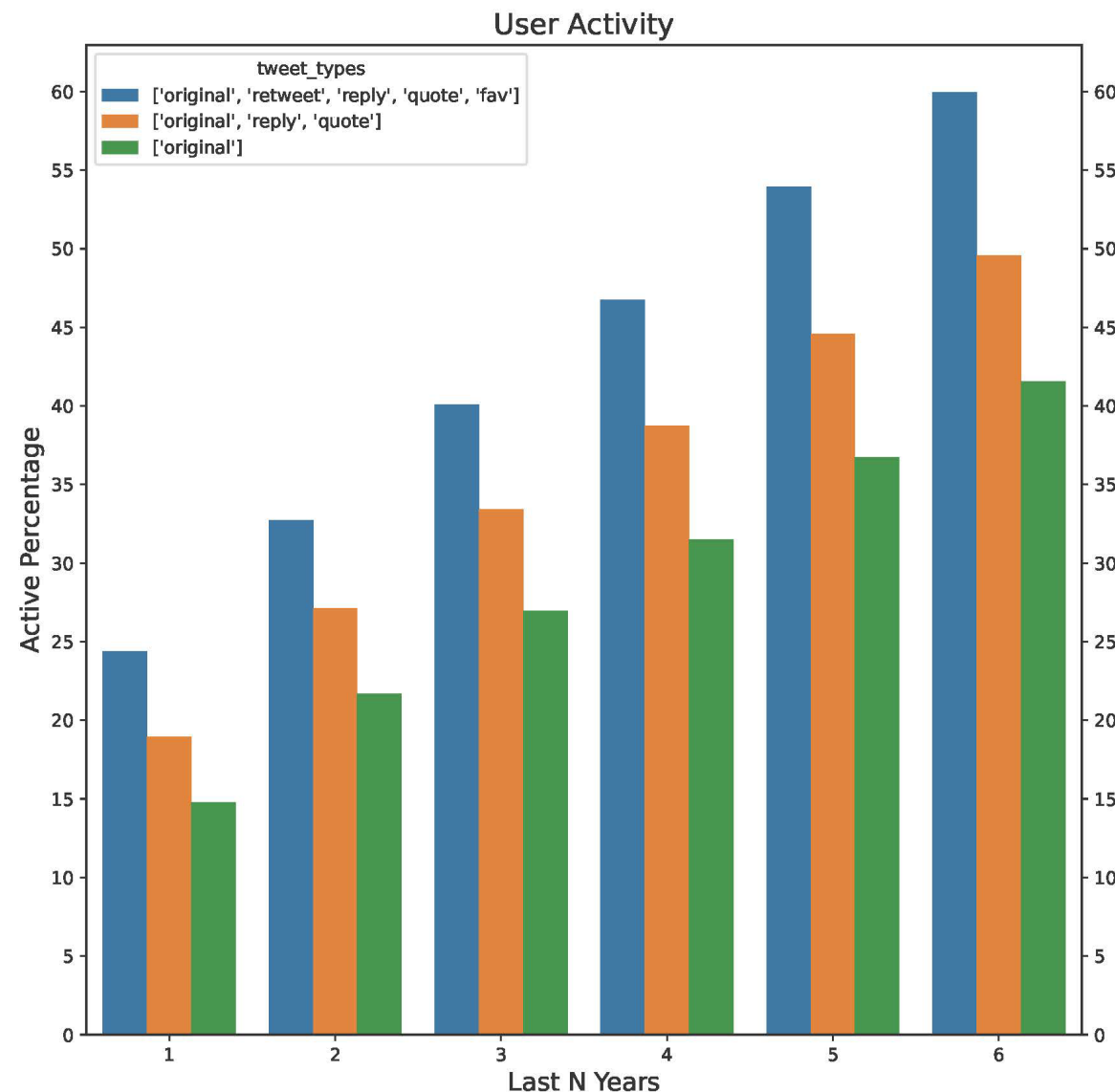
	sehir	user_count
60	Nevşehir	2089
61	Kars	2071
62	Kırıkkale	2021
63	Bartın	2000
64	Muş	1906
65	Sinop	1821
66	Erzincan	1752
67	Bitlis	1679
68	Karaman	1644
69	Burdur	1629
70	Şırnak	1608
71	Bilecik	1528
72	Kırşehir	1442
73	Iğdır	1370
74	Siirt	1271
75	Hakkâri	1231
76	Gümüşhane	1065
77	Ardahan	822
78	Bayburt	762
79	Kilis	647
80	Tunceli	348

User Statistics – Gender



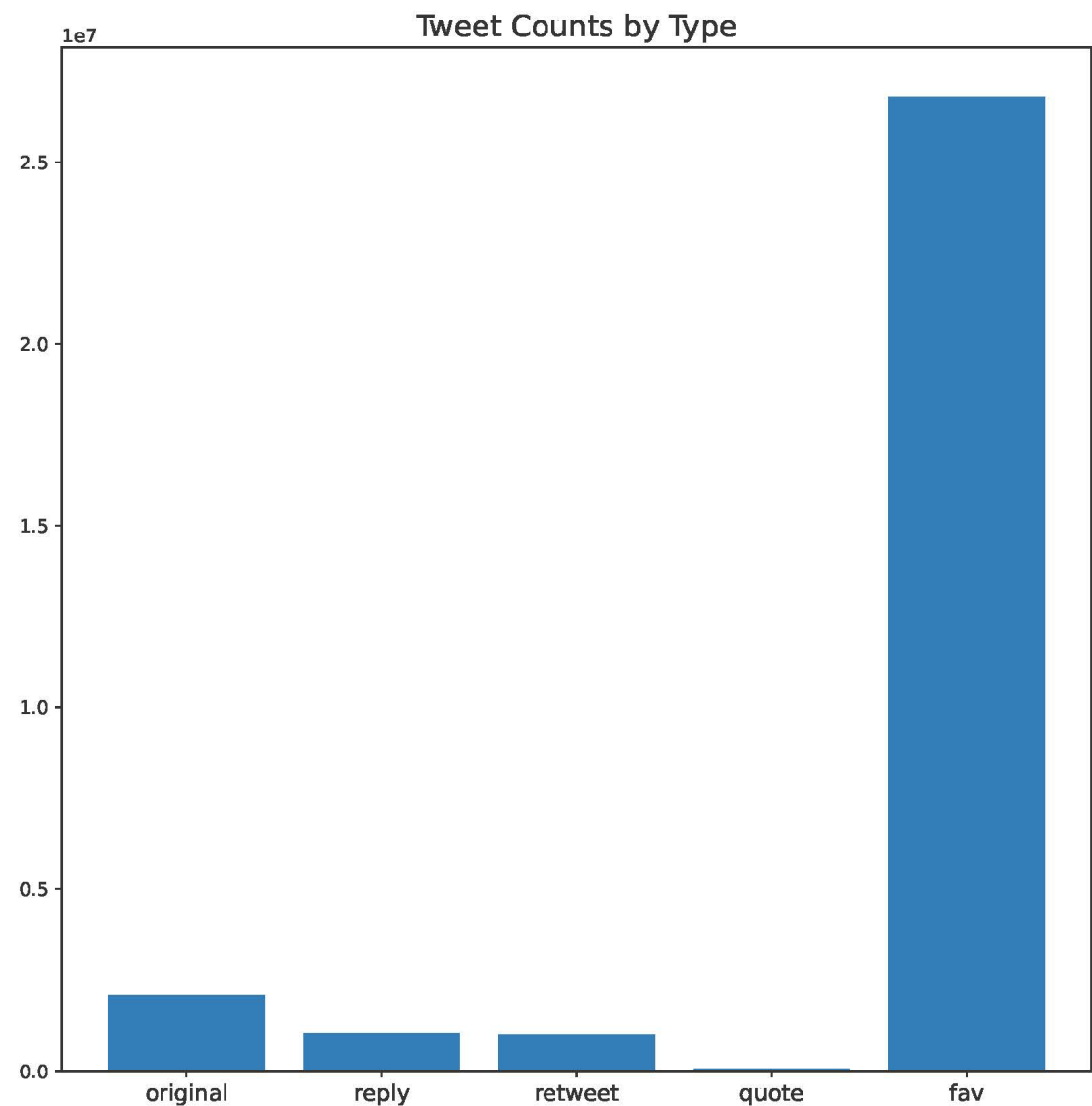
	count	percentages
gender		
male	580668	66.90%
female	287266	33.10%

User Statistics – Activity



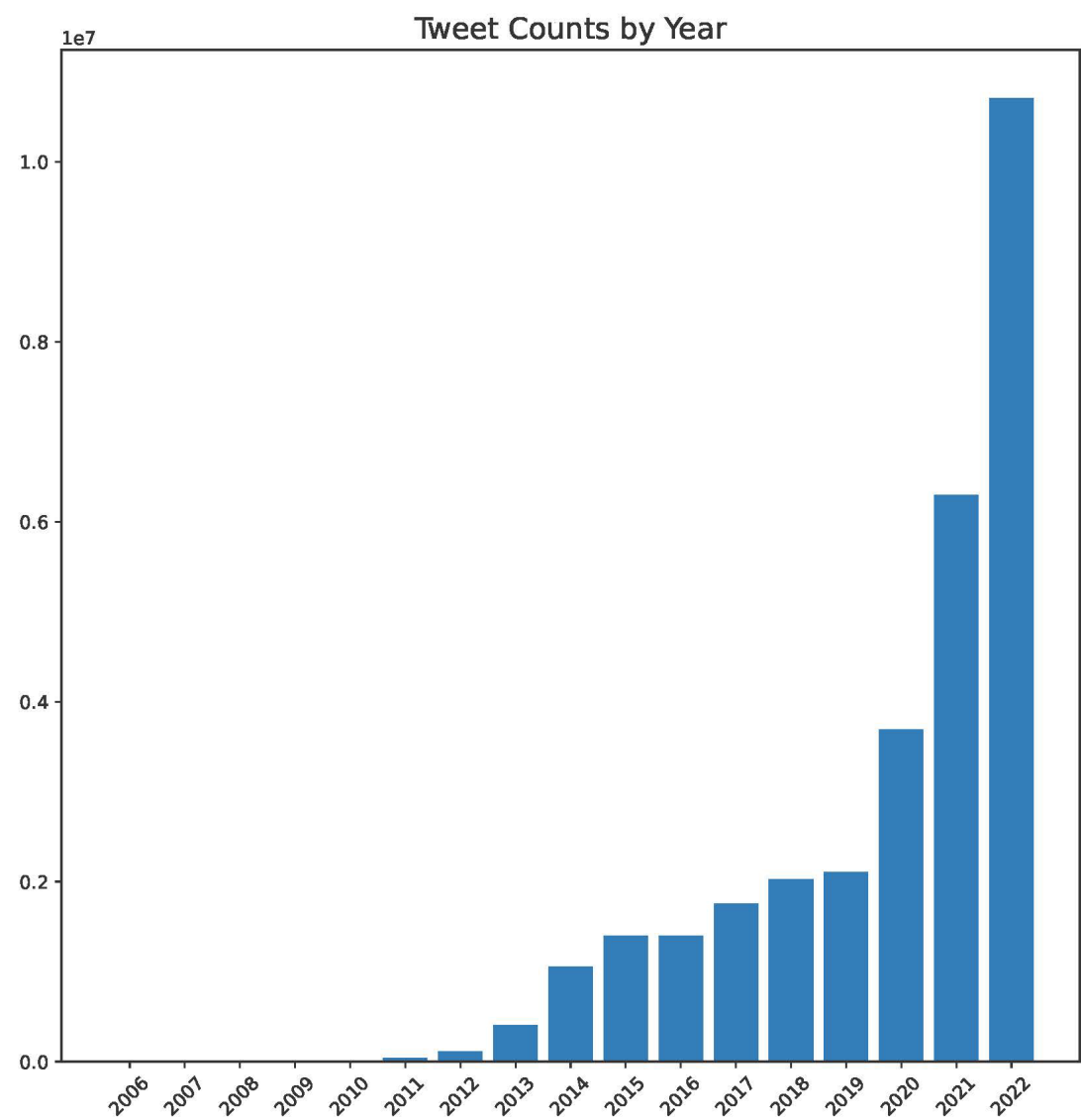
	last_n_years	threshold	tweet_types	active	passive	active_percentage
0	1	2021-07-27	['original', 'retweet', 'reply', 'quote', 'fav']	211798	656136	24.402547
1	2	2020-07-27	['original', 'retweet', 'reply', 'quote', 'fav']	284195	583739	32.743849
2	3	2019-07-27	['original', 'retweet', 'reply', 'quote', 'fav']	347790	520144	40.071019
3	4	2018-07-27	['original', 'retweet', 'reply', 'quote', 'fav']	405575	462359	46.728784
4	5	2017-07-27	['original', 'retweet', 'reply', 'quote', 'fav']	468338	399596	53.960094
5	6	2016-07-27	['original', 'retweet', 'reply', 'quote', 'fav']	520383	347551	59.956517
6	1	2021-07-27	['original', 'reply', 'quote']	164440	703494	18.946141
7	2	2020-07-27	['original', 'reply', 'quote']	235551	632383	27.139276
8	3	2019-07-27	['original', 'reply', 'quote']	289989	577945	33.411411
9	4	2018-07-27	['original', 'reply', 'quote']	336183	531751	38.733706
10	5	2017-07-27	['original', 'reply', 'quote']	386925	481009	44.580003
11	6	2016-07-27	['original', 'reply', 'quote']	430375	437559	49.586144
12	1	2021-07-27	['original']	128247	739687	14.776124
13	2	2020-07-27	['original']	188227	679707	21.686787
14	3	2019-07-27	['original']	233854	634080	26.943754
15	4	2018-07-27	['original']	273472	594462	31.508387
16	5	2017-07-27	['original']	318916	549018	36.744269
17	6	2016-07-27	['original']	360667	507267	41.554657

Tweet Statistics – Tweet Counts by Tweet Type



	count	percentages
tweet_type		
original	2086489	6.73%
reply	1036442	3.34%
retweet	1001839	3.23%
quote	64923	0.21%
fav	26807669	86.48%
total	30997362	100.00%

Tweet Statistics – Tweet Counts by Year



	count	percentages
year		
2006	321	0.001%
2007	37	0.000%
2008	166	0.001%
2009	802	0.003%
2010	4616	0.015%
2011	36885	0.119%
2012	115211	0.372%
2013	408271	1.317%
2014	1054689	3.403%
2015	1399191	4.514%
2016	1398591	4.512%
2017	1754260	5.659%
2018	2026859	6.539%
2019	2102786	6.784%
2020	3691469	11.909%
2021	6295369	20.309%
2022	10707839	34.544%