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Social Network Analysis - Amber Heard Case - Instagram

Adel Abu Hashim & Mahmoud Nagy - November 2021

Investigate Same Text

Adel Abu Hashim

Introduction

This case study aims to help **Amber Heard**

By analyzing new accounts commenting against a victim of a Social Bot Disinformation/Influence Operation.

The dataset with comments data with some text processing.

```
In [1]: import pandas as pd
import os
from datetime import datetime
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sb
import plotly.express as px
import plotly.graph_objects as go
import warnings
import re
import seaborn as sb
import re

warnings.filterwarnings("ignore")

import plotly.io as pio
from helpers import barh, pie, get_top, handler, isnull, bar, bar_peaks, facet_days, SameText

pio.renderers
# pio.renderers.default = "svg"
svg_renderer = pio.renderers["svg"]
svg_renderer.width = 950
svg_renderer.height = 550

%matplotlib inline
import nltk

from nltk.corpus import stopwords
nltk.download('stopwords')
from nltk.tokenize import word_tokenize
import ast
from textblob import TextBlob
from nltk.sentiment import SentimentIntensityAnalyzer
nltk.download('vader_lexicon')

[nltk_data] Downloading package stopwords to
[nltk_data]   C:\Users\Leap\AppData\Roaming\nltk_data...
[nltk_data]   Package stopwords is already up-to-date!
[nltk_data] Downloading package vader_lexicon to
[nltk_data]   C:\Users\Leap\AppData\Roaming\nltk_data...
[nltk_data]   Package vader_lexicon is already up-to-date!
True

Out[1]:
```

```
In [2]: os.chdir("../Data")
```

```
In [3]: # Load comments data with text processing
df_comments = pd.read_csv('comments_text.csv')
```

```
In [4]: df_comments.head()
```

```
Out[4]: message datetime id n_replies n_likes media_id parent_id user_id username is_verified
0 #scarlettjohansson 2020-06-23 17915232430430980 0.0 0.0 2337634847974873088 n 3988263563 scarlettjohansonofficial False https://www.instagram.com/scar
```

#	Emoticon	Date	Post ID	Like	Comment	Share	Link
1	very beautiful 😍 I love you very much ❤️...	2020-06-23 06:54:04	17889474637566402	0.0	0.0	2337634847974873088	n 12302008022 frederic2366 False https://www.instagram.com/p/BzJLWfDgXmU/
2	bombón bello ❤️	2020-06-23 07:14:40	18066076495222844	0.0	0.0	2337634847974873088	n 1521544054 jorgero122129 False https://www.instagram.com/p/BzJLWfDgXmU/
3	stunning	2020-06-23 07:34:23	17859220648997344	0.0	0.0	2337634847974873088	n 4166540200 dexterisgod False https://www.instagram.com/p/BzJLWfDgXmU/
4	why are you so sweet? 🥰	2020-06-23 07:44:30	17889444721569168	0.0	0.0	2337634847974873088	n 8732111508 samuel_co_fer False https://www.instagram.com/p/BzJLWfDgXmU/

Top repeated text

justiceforjohnnydepp or #amberheardisalier #amberheardisanbuser, i am

```
In [5]: get_top(df_comments, 'tokens', 50, 'token_of_repeated_text', 'n_comments')
```

```
46          {'hi'}    970
47          {'preciosa'}   959
48          {'sweet'}    899
49          {"restorethesnyderverse"}  880
```

```
In [5]: get_top(df_comments, 'tokens', 100, 'token_of_repeated_text', 'n_coments')[49:]
```

```
Out[5]:
```

	token_of_repeated_text	n_coments
49	{"restorethesnyderverse"}	880
50	{'great'}	871
51	{'5'}	828
52	{'nedir', 'iyat'}	824
53	{'lol'}	819
54	{'amo'}	812
55	{'movie'}	798
56	{'blue'}	768
57	{'ember', 'heard'}	751
58	{'night'}	749
59	{'woman', 'beautiful'}	744
60	{'sinadeinert', 'sinadeinertcf', 'sinas22'}	731
61	{'super'}	729
62	{'https'}	703
63	{'спасибо'}	696
64	{'ebuser'}	691
65	{'margot'}	676
66	{'damn'}	656
67	{'bitch'}	635
68	{'9'}	628
69	{'johnnydepp'}	622
70	{'beautiful', 'lady'}	616
71	{'birthday', 'happy'}	609
72	{'true'}	596
73	{'best'}	589
74	{'follow'}	575
75	{'gal'}	575
76	{'oh'}	562
77	{'much', 'thank'}	541
78	{'agree'}	532
79	{'goddess'}	527
80	{'left'}	519
81	{'wtf'}	515
82	{'emilia'}	512
83	{'thor'}	511
84	{'ωλε'}	511
85	{'sexy', 'beautiful'}	507
86	{'girl', 'beautiful'}	507
87	{'wow', 'beautiful'}	500
88	{'bellissima'}	494
89	{'much', 'love'}	494
90	{'amberheardisanabuser'}	491
91	{'hello'}	488
92	{'yeah'}	488
93	{'stonecollection', 'jewelrymaker', 'wirework'..}	484
94	{'lindo'}	479
95	{'ilettim', 'dm'}	477
96	{'top'}	470
97	{'ok'}	464
98	{'beautiful'}	451
99	{'batman'}	440

```
In [7]: bar(get_top(df_comments, 'tokens', 10, 'token_of_repeated_text', 'n_coments')[1:], 'token_of_repeated_text', 'n_coments', 'a')
```

justiceforjohnnydepp

- justiceforjohnnydepp
- red
- fuck
- johnnydepp
- amberheardisabuser
- bitch
- abuser

```
In [8]: jd = SomeText(df_comments, "{'justiceforjohnnydepp'}")
```

```
In [9]: jd.head(2)
```

Out[9]:	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	
	2020-11-06 #justiceforjohnnydepp	17:36:10	17843651760465020	0.0	1.0	2436331630714202496	n	7365315035	machelyyyy	False	https://www.instagram.com/machelyyyy
	2020-12-22 #justiceforjohnnydepp	09:48:06	17975070697341218	1.0	2.0	2469408055960567296	n	6225572213	thejohnny_deppfan	False	https://www.instagram.com/thejohnny_deppfan

```
In [10]: jd.n_comments.unique()
```

This comment appeared in 429 shapes

```
In [11]: jd.shapes(15)
```

```
Out[11]: #justiceforjohnnydepp          4862
#justiceforjohnnydepp ❤️           75
#justiceforjohnnydepp ❤️          34
#justiceforjohnnydepp ❤️ ❤️        24
#justiceforjohnnydepp 🌟          20
#justiceforjohnnydepp #justiceforjohnnydepp 15
#justiceforjohnnydepp ❤️          14
@nik.plewa #justiceforjohnnydepp    13
justiceforjohnnydepp                11
#justiceforjohnnydepp 🎉           9
#justiceforjohnnydepp 🎉           8
#justiceforjohnnydepp ❤️           8
#justiceforjohnnydepp ❤️           8
#justiceforjohnnydepp 🎉           7
Name: message, dtype: int64
```

```
In [12]: jd.dates()
```

```
Out[12]: 2020-11-07    347
2020-11-13    243
2020-11-08    170
2020-12-18    169
2020-11-09    158
...
2020-09-23     1
2020-05-05     1
2020-03-30     1
2021-06-19     1
2021-08-18     1
Name: date, Length: 489, dtype: int64
```

```
In [13]: jd.peek(6)
```

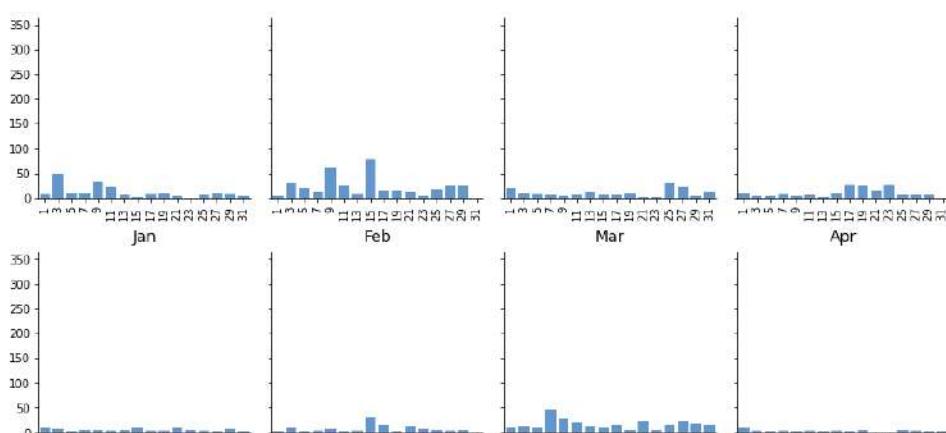
```
In [14]: jd.date_info()
```

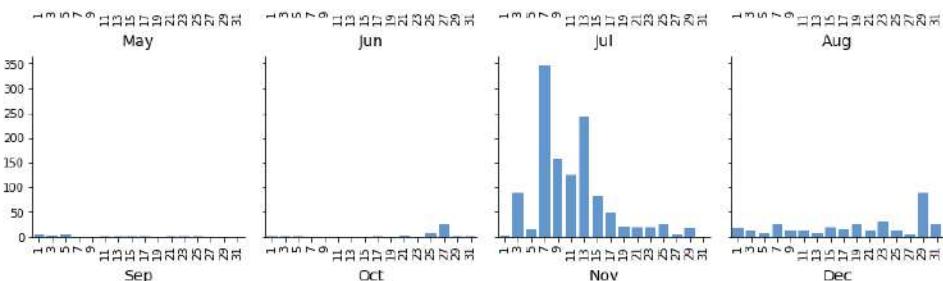
The comments were made between 2018-08-03 and 2021-08-19

n_comments

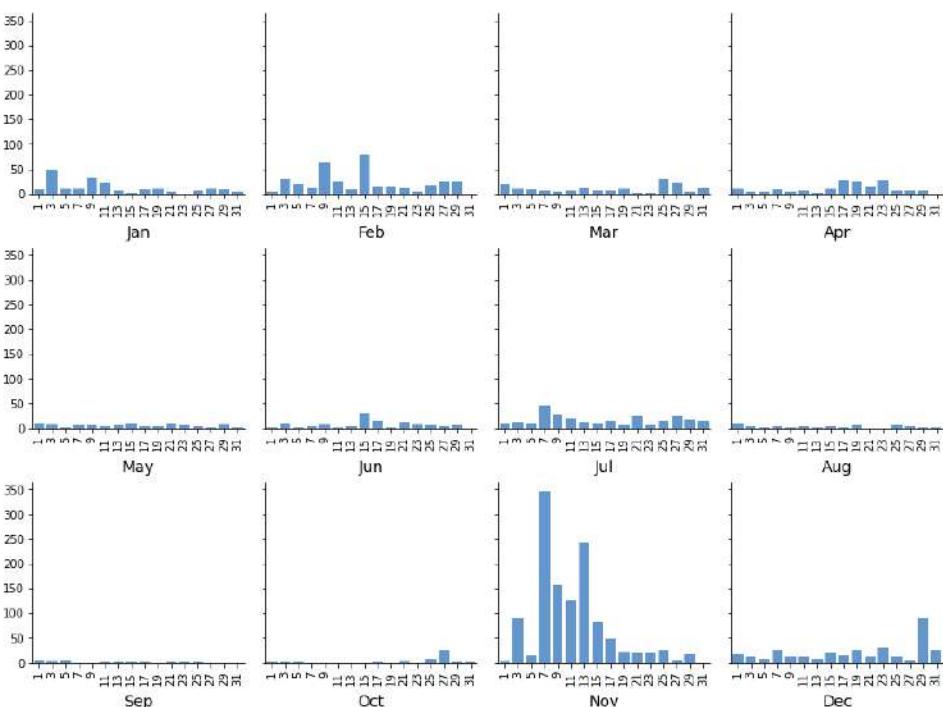
year	n_comments
2018	2
2019	7
2020	4219
2021	1435

Comments Created in Each Day of 2020

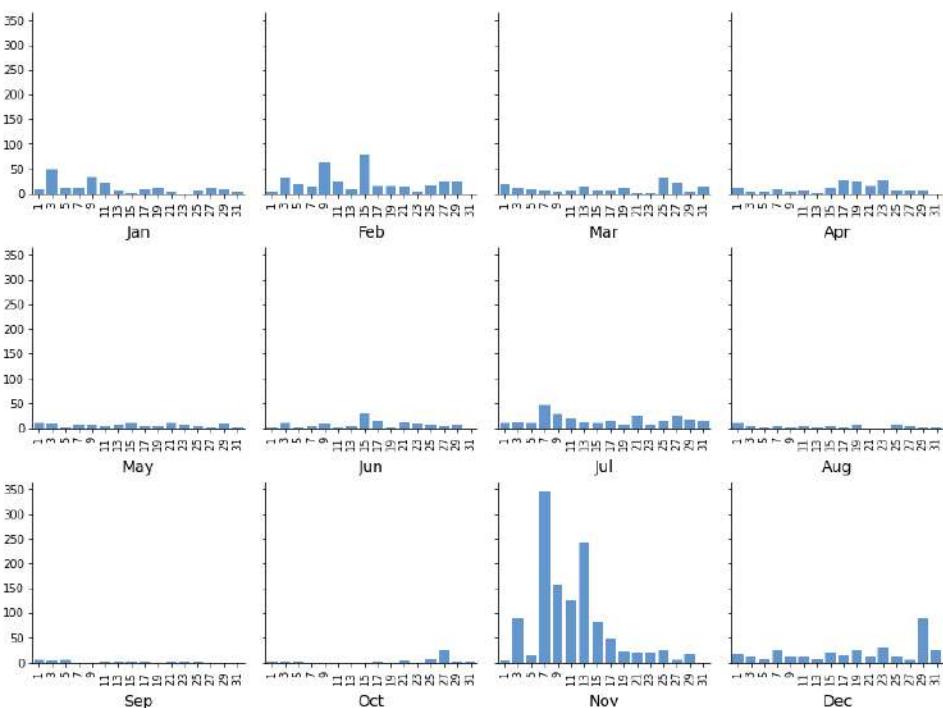




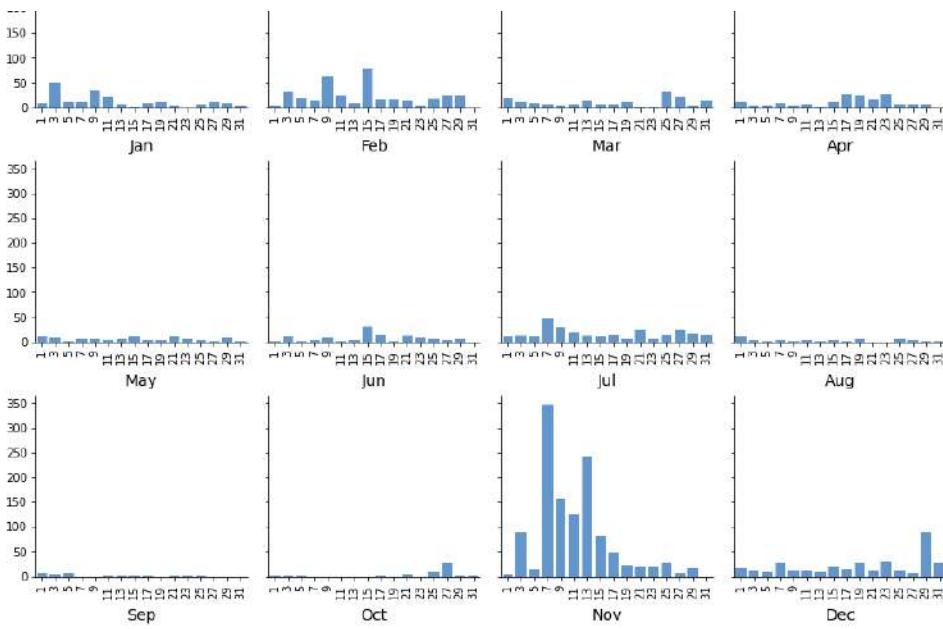
Comments Created in Each Day of 2021



Comments Created in Each Day of 2019



Comments Created in Each Day of 2018



```
In [15]: jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0')
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	dayofmonth
1191800	#justiceforjohnnydepp	2020-02-02 10:56:06	18127433167005480	0.0	0.0	2234618545040374528	n	4738883229	stellaefrancesca	False	...	Feb	2
825184	#justiceforjohnnydepp	2020-02-02 18:29:03	17849590861870334	0.0	1.0	2235065878609521760	n	29125063230	smultronstallte	False	...	Feb	2
825186	#justiceforjohnnydepp	2020-02-02 18:29:42	1789189601459536	0.0	1.0	2235065978609521760	n	29125063230	smultronstallte	False	...	Feb	2
825206	#justiceforjohnnydepp	2020-02-02 21:05:43	17863123885660452	0.0	1.0	2235065878609521760	n	28267646684	octavia.area	False	...	Feb	2
825207	#justiceforjohnnydepp	2020-02-02 21:05:50	17870250130588944	0.0	1.0	2235065878609521760	n	28267646684	octavia.area	False	...	Feb	2
...
23143	#justiceforjohnnydepp	2021-07-05 20:52:44	17889843887320072	0.0	0.0	2607530456751659008	n	13267277793	just_jamella	False	...	Jul	5
279599	#justiceforjohnnydepp	2021-07-05 21:54:02	1796710056402456	0.0	1.0	2611245089148393472	n	3550856714	yecajess	False	...	Jul	5
1232631	#justiceforjohnnydepp	2021-07-06 02:13:57	17916860146734348	0.0	0.0	2548520577264516608	n	11318725283	llands666	False	...	Jul	6
439054	#justiceforjohnnydepp	2021-07-21 09:11:23	17913863992882964	0.0	1.0	2616101915660791808	n	38788829363	farhan.chow.98	False	...	Jul	21
822507	#justiceforjohnnydepp	2021-08-19 19:49:27	17943782908557142	0.0	3.0	2600968169005531136	n	47306538315	soggy.central	False	...	Aug	19

1201 rows × 22 columns

```
In [16]: len(jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0')).username.value_counts().index
```

Out[16]: 545

```
In [17]: jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

username	count
ownage130	64
methxy_01	33
justicie_for_johnny_depp	30
netos_k	30
becauseitsjohnnydepp	29
..	..
briisa_0507	1
aylar_farahadi	1
talia_nehemia	1
iamflo01	1
leorot7	1

Name: username, Length: 545, dtype: int64

```
In [18]: jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

date	count
2020-11-07	143
2020-11-13	81
2020-12-18	77

```
2021-02-15    65
2020-11-06    61
...
2021-04-18    1
2021-07-01    1
2020-07-09    1
2021-06-03    1
2020-07-21    1
Name: date, Length: 168, dtype: int64
```

```
In [19]: list(jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[19]: ['ownage130',
'mathxy_91',
'justicie.for.johnny.depp',
'netos_k',
'becauseitsjohnnydepp',
'alexandr_while',
'azulj.nolasco',
'litsmryml',
'cconnny',
'olvorka',
'johnnydepptime',
'you.rine',
'oh.no.c4rl',
'ballikaya_dafne_7',
'johnny_depp_073',
'johnnydepp_-fp',
'bruises.0945',
'camiferreira96',
'violetgb',
'jdjazmin12',
'machelyyyy',
'nadia_2030',
'hani_cockatiel',
'p_rctr',
'yahaliza_2005',
'mackenzilaplanete',
'johnny_1883_gs',
'johnyiddep_fan',
'felixever',
'karoline_cristina_korol',
'themaurock_officiel',
'elsiesfawv',
'velentinaluna_12',
'tmyzhra',
'ihelive',
'oliverosyessi17',
'oscurita_1313',
'tom_hiddleston_ir',
'cat.under.rock',
'_shay_rae',
'zgg_70',
'murphy_eimhin',
'angi8897',
'julio_beltreann',
'gellert1945',
'chows_lucy_and_logen',
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'maryam_khaledi_77',
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'thisixvalina',
'madineh7837',
'claramaanda',
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'fayruspercz',
'crea.tive1345',
'octavia.area',
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'_nick051206_8k',
'_summerayris._',
'zru_1',
'moonbeam429',
'angelic_bouchard',
'johnny_.dep',
'baboonshko_',
'fans.johnny.depp',
'o_.sabrina_o',
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'kelly.eva8',
'malina_hammett_',
'ninimovingcastle',
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'randomshitzssts',
'inversionesurban',
'ajcommanderhorne66',
'rakel_r.7',
'niyadimitrova16',
```

'divulgao_bahia',
'lunaxmerie12',
'johnnydepp_protection',
'arab.panini.main',
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'love_johnny1',
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'fathimaparuk.xo',
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'dalillette',
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'kail_hrynkiew',
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'katie_the_painter',
'ciortan_elga',
'haj_johnnydepp',
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'marym.d14',
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'cecillagonzalesleone12',
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'fallingneptune333',
'lou3',
'kimidepp20',
'carlos_sin_h',
'tw.mystere',
'ceciliand.v',
'johnny_depp1378',
'ambre23',
'svetlana_moldychcova',
'llacynthia',
'miss_paris6543',
'nich_mieli',
'fate.h145',
'dina_k_r_z',
'kaylamcrudden',
'bubs_music_acc_98',
'i_build_me_you_build_you',
'johnnydepp.lord',
'ethan_ararmstrong',
'bopisabar',
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'billyjoclv3s',
'rahele_.kh01',
'fatemeh_mirlohi_',
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'mankin_wyatt',
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'die_katze7',
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'cecimedina01',
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'ursofiaa',
'tha_batman_the_best',
'ihawah',
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'zeynab_es_haghi',
'gaby_suxo',
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'jason_custer1972',
'habibaloeki',
'just_jameilia',
'mateo_nallan',
'potc_ir',
'jewd_pwed',
'naiararamtos',
'aricitors',
'02dedezembro',
'llsweet_',
'pumpkinyyaa',
'chiarasap1',
'im_awesome913',
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'nacanin_mh42',
'.....'

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'jojobimbobway88',
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'javivilest',
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'pau.reyp',
'liam_.fraser',
'alvaradosomia295',
'valepunk1',
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'rocinha.art.handmade',
'domav1s',
'happyfuckingwhatever_arts',
'sarahghosiri',
'karan_ripiyal',
'leo.shellshock',

```
'briisa_0507',
'aylan._farhadi',
'talia.nehemia',
'iamfl001',
'leorot7']
```

red

- justiceforjohnnydepp
- red
- fuck
- johnnydepp
- amberheardisabuser
- johnnydepp
- abuser

```
In [20]: red = SameText(df_comments, "{'red'}")
```

```
In [21]: red.head(2)
```

```
Out[21]:   message      datetime      id  n_replies  n_likes      media_id  parent_id    user_id  username  is_verified          account_url  year
29711  red  2020-12-12  17889257659768024      0.0      0.0  2461433123156382720      n  22364216171  tahirdarkub  False  https://www.instagram.com/tahirdarkub  2020
29798  red❤️  2020-12-11  18177580201060096      0.0      0.0  2461433123156382720      n  12622401498  somedas104  False  https://www.instagram.com/somedas104  2020
```

```
In [22]: red.n_comments.unique()
```

This comment appeared in 93 shape

```
In [23]: red.shapes(15)
```

```
Out[23]: red           1082
red!          10
red!!         10
red one        9
red.
red.
red.❤️        6
red.😊         5
red red        4
red❤️         4
red❤️         3
red😊          3
red red red     3
red.😊         3
red.😊😊        2
red all over     2
Name: message, dtype: int64
```

```
In [24]: red.dates()
```

```
Out[24]: 2018-04-09    187
2018-04-10    165
2018-04-08    163
2018-06-11    136
2018-06-10     73
...
2020-06-23     1
2020-12-02     1
2018-12-26     1
2018-09-22     1
2018-05-29     1
Name: date, Length: 121, dtype: int64
```

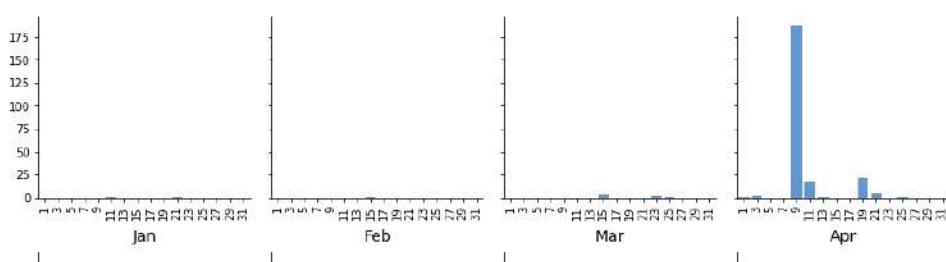
```
In [25]: red.peak(6)
```

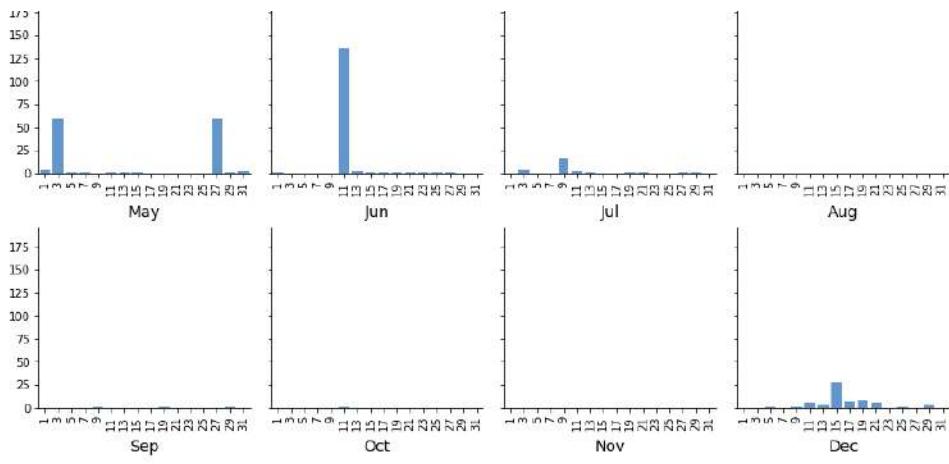
```
In [26]: red.date_info()
```

The comments were made between 2018-03-23 and 2021-07-29

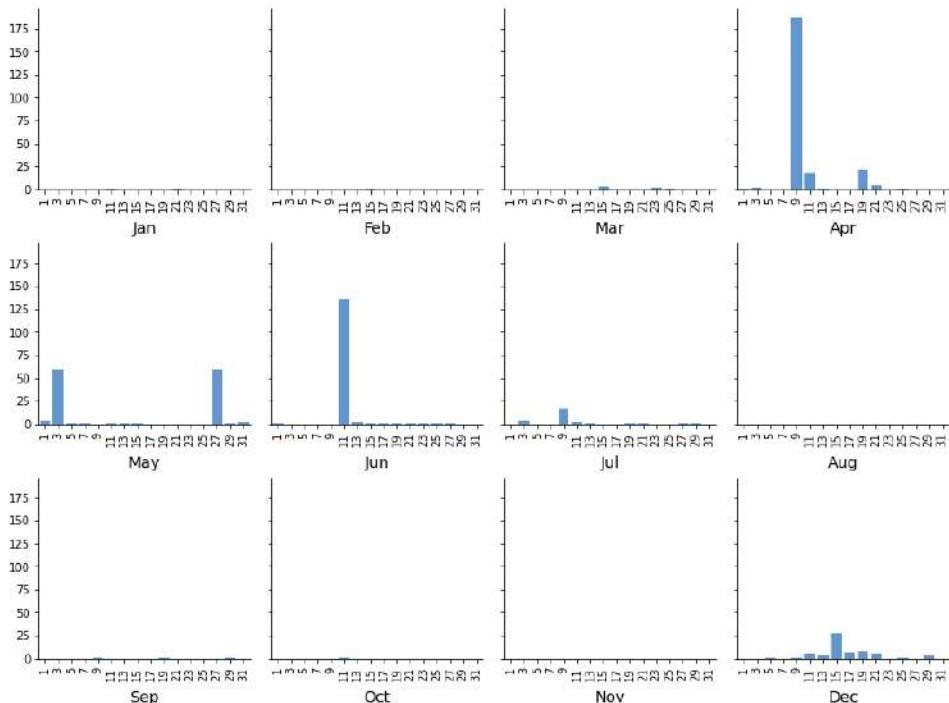
year	n_comments
2018	1052
2019	21
2020	142
2021	24

Comments Created in Each Day of 2020

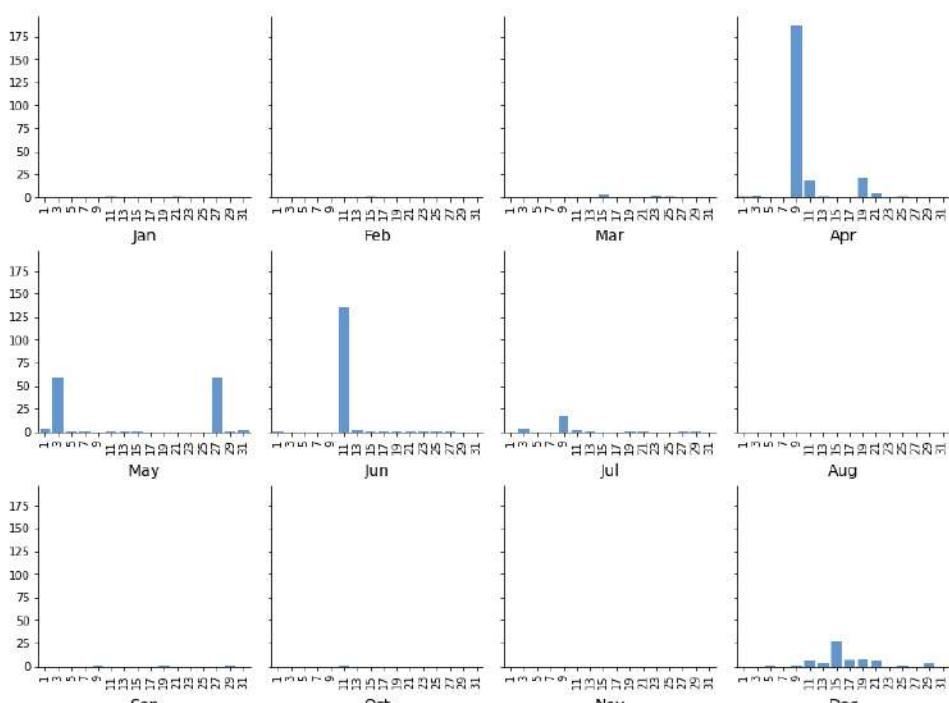




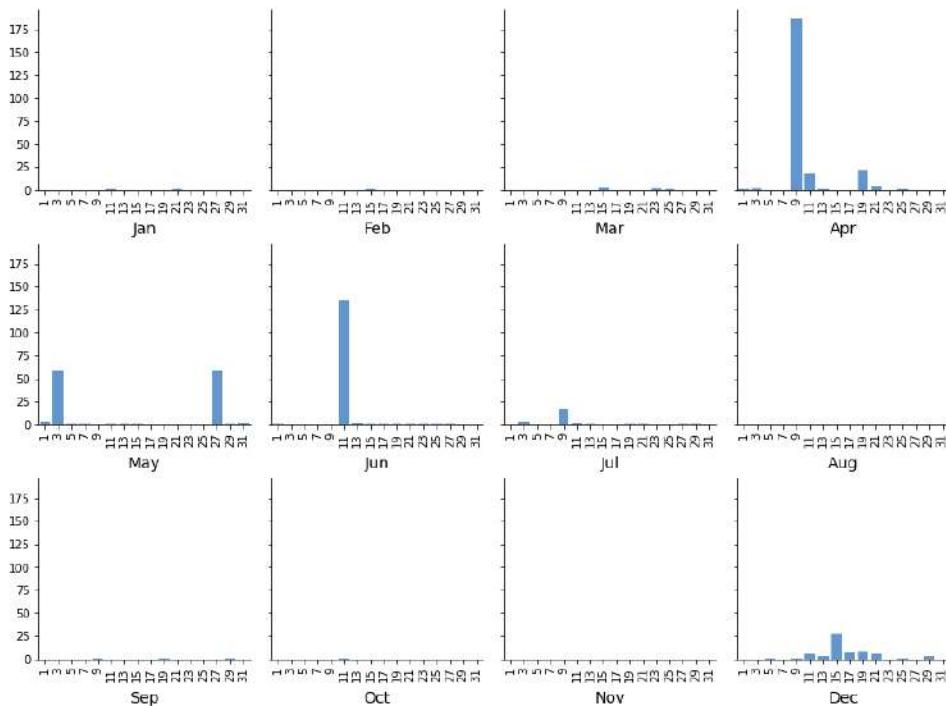
Comments Created in Each Day of 2018



Comments Created in Each Day of 2019



Comments Created in Each Day of 2021



```
In [27]: red.df_timing().query(' days == 0 and hours == 0 and minutes == 0')
```

	message	datetime	Id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	dayofmonth	date	hour
881114	red	2018-04-08 20:39:29	17904406643160700	0.0	1.0	1753156255536862976	n	5372056790	felipecorri_8	False	...	Apr	8	2018-04-08	20
881117	red	2018-04-08 20:40:10	17937083674052876	0.0	0.0	1753156255536862976	n	5677739647	skyleishere_	False	...	Apr	8	2018-04-08	20
881118	red	2018-04-08 20:40:12	17878007896205820	0.0	0.0	1753156255536862976	n	4035509768	therealtybriscoe	False	...	Apr	8	2018-04-08	20
881120	red	2018-04-08 20:40:44	17904237640175672	0.0	0.0	1753156255536862976	n	2195412640	sadiqis0425	False	...	Apr	8	2018-04-08	20
881122	red	2018-04-08 20:41:05	17933469565069218	0.0	0.0	1753156255536862976	n	1529114182	victorville_	False	...	Apr	8	2018-04-08	20
...
648395	red	2020-12-14 20:39:15	18126842983159504	0.0	4.0	2464129509925985792	n	25142564156	elvirapuzo85	False	...	Dec	14	2020-12-14	20
648416	red	2020-12-14 21:16:34	17900409520637234	0.0	1.0	2464129509925985792	n	43613836634	sahartalebi_	False	...	Dec	14	2020-12-14	21
648419	red	2020-12-14 21:21:49	17917917088492358	0.0	1.0	2464129509925985792	n	2235983505	sumetsochka	False	...	Dec	14	2020-12-14	21
648420	red	2020-12-14 21:22:41	17951356558388200	0.0	1.0	2464129509925985792	n	2309643674	kiawaz	False	...	Dec	14	2020-12-14	21
648346	red	2020-12-14 23:03:55	17875318688015776	0.0	1.0	2464129509925985792	n	4115808920	ana_arian_	False	...	Dec	14	2020-12-14	23

241 rows × 22 columns

```
In [28]: len(red.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

Out[28]: 233

```
In [29]: red.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

abe_xiong	2
dont_follow024	2
monotonial01	2
e.horbie_official	2
batboyz42	2
...	
world_of_arrowverse_	1
watchmen_2000	1
ayush.mahapatra_	1
neekarwani_1	1

```
In [30]: iamnoahone      1  
Name: username, Length: 233, dtype: int64
```

```
In [30]: red.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[30]: 2018-04-08    92  
2018-04-09     43  
2018-04-10     32  
2018-06-10     27  
2018-06-11     15  
2018-05-27     12  
2020-12-14      5  
2018-05-03      3  
2018-04-20      3  
2018-05-02      3  
2018-06-12      2  
2018-04-19      1  
2018-04-11      1  
2018-12-10      1  
2018-07-09      1  
Name: date, dtype: int64
```

```
In [31]: list(red.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[31]: ['abe_xiong',  
 'dont_follow024',  
 'monotonial01',  
 'e.horbie_official',  
 'batboyz42',  
 'sharzmahmood',  
 'unkindly_retro18',  
 'just.d.comics',  
 'gabilouzzz',  
 'mikellimos12',  
 'dylankleinmair',  
 'lulzeselite',  
 'savannahm2.0',  
 'superheroesig',  
 '_abdvl_1',  
 '_jluiz05',  
 'henrylupin__',  
 'zaykilo',  
 'cholo561',  
 'kai209',  
 'isalisaalama',  
 'genet_the_great',  
 'yulk97',  
 'mr.pwinglez_',  
 'thenerdyhub',  
 'lamrvan',  
 'harshilrama',  
 'edwardchen7423',  
 'ekin.tds',  
 'kiav.az',  
 'ducodrawings',  
 'ijam10',  
 'victorssouza__',  
 'eduardo_gonzalez0126',  
 'justis_xoxo',  
 'keith_colman__',  
 'zfafd',  
 'popadimon',  
 'luxhooh',  
 'elvirapuozo85',  
 'dc5s_for_me',  
 'johnnycrush',  
 'zlineup_94_tony19',  
 'tyson_and_182_others',  
 'jodonnell13',  
 'chloespops1201',  
 'ashkn__sh',  
 'eric_tran_2434',  
 '_bunny.1',  
 'rare_jango',  
 '_joboc_1',  
 'uaren_d',  
 'jhardy_24',  
 'marquitos_orgulloherculano',  
 'sadiqis0425',  
 'victorvllc',  
 'jesuslaguna89',  
 'skylerishere__',  
 'diornexus',  
 'sergant_dom',  
 '_phorusrhacos',  
 'el.brendinho.sargento',  
 'jacobclark',  
 'chi.oregan',  
 'princesa_kiera',  
 'lucie.rplf',  
 'itspooya1',  
 'kryptonian_cafe',  
 'dc_newgod11',  
 'reejin_astro',  
 'sad_twilight98',  
 'effigyunborn',  
 'kevin_camu17',  
 'ansen.the.wilde',  
 'm.kimber23',  
 'the_finnimus_clan',  
 'jaxsonder',  
 'sumetsochka',  
 'bogdano_ostahic',  
 'will.se17',  
 'blinde.timothe',  
 'jackson_turiak',  
 'dominiquecrs',  
 'kona_amirov',  
 'iunonelava' ]
```

'sommer_solo_','darth_sidious_official','human_shadow_and_others','ana_arian_','the_joking_spider','tomaswtc','ethan.e15','angry_space_guy','celeperinsen','reecheverrial1','caleb_lees21','finkdoodle','dylan.a.villa','d.royall1','lionkickz','lukaskoruscak','mattnloiz','hpotterova','iamjoshuahoward','filip.solomon','bookspopsmugs','beauweslyk','robinistheles','pierito05','eben.drawings','_saundhit_','prithviraj_','yilmazniyazimert','502.dayton','davideimmesi','nitinverma97','_zizley_','aidat.sol','jacob_333','ethan.yf','del_tecooo','_accio.killjoy_','professionalisti','bobbyoliverpoptart','_m.f.w_','r.feilke554','bia.jayjay01','not_active_mane','abelhiolso','iamvictortarin','10060mr.nobody','scarlet_widow18','kenneth.zulgram','therealtybriscoe','enrique.cts','nick_potvin','some_tired_guy','gag_javi','stayready_999','bloomsdaughter','alphamexiko25','that_flash_guy','knightfall1413','janalie_.tang','keagan.hudson','jocykings_','rg_mark','jcmel5','sergioa_nino','safeevan2947','doubled_beats','jokerthadon','dq1909','maks_loik_191','ftm_nouri','keyvatkins512','hritikeshpawan','m_hero09','constantinegahring','joseph_hargreaves19','axel_grm','bla_ble','_james_valerio_','the.road.so.far.convention','tau_a_hey','baydenjack','dddnjf_','_s_hu_','xoxochitl21','kyogre_sea_king','yoboi Brandon_','ssspetrova','fancevonhorn','shgomissgo','igdud_','kaycee2holly','augusto_h_d_m','kleakola','doctor_apo','najstcroix','luisjosepepepix_','r.arjunrajj08_','kxkingg','m.kzmchik','calfeeman','the_undead_skeleton','skinnydove01','mp302002','sam_johnstone_','hazretiezgl','geekcenter','jrules_z7','carlos22595','xkkw30scj2i','pogi1911',

```
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'fvfurqim',
'juju_silva_silva',
'isaiyahparadok',
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'ethanwallace2022',
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'oldmancharles_x34',
'whiteravenlegion',
'zion.nnn',
'nfismydad',
'adhimasrizqal',
'kuroski.daniel',
'comicgatemay2',
'david_dark13',
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'olcx.deadman',
'sahil_xxii',
'leglesslegolegoles',
'nerdy_bolz_club',
'campana_art',
'123spidergeek',
'yoziproduc',
'rajiscriven_',
'jahnisparks',
'yungmari_17',
'sincerely_anthony',
'_ayemikay_',
'pedrohrk_',
'aidann_1986',
'dicandracyva',
'world_of_arrowverse_',
'watchmen_2000',
'ayush.mehopatra_',
'geeksworld',
'iamnoahone']
```

In []:

fuck

- justiceforjohnnydepp
- red
- fuck
- johnnydepp
- amberheardisabuser
- johnnydepp
- abuser

In [32]:

```
fuck = SomeText(df_comments, "'{fuck}'")
```

In [33]:

```
fuck.head(2)
```

Out[33]:

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	accou
311	fuck no!	2021-03-01 14:12	17908807253671416	0.0	0.0	2507566752144024576	n	42788636	chris_california_831	False	https://www.instagram.com/chris_california_831
6707	fuck	2018-03-18 37:00	17927802805067942	0.0	0.0	1741639216007327744	n	4134100562	mannydworld	False	https://www.instagram.com/mannydworld

In [34]:

```
fuck.n_commnets_unique()
```

This comment appeared in 384 shape

In [35]:

```
fuck.shapes(15)
```

Out[35]:

fuck her	185
fuck	80
fuck no	75
fuck you	63
fuck off	47
what the fuck	39
fuck that	17
fuck u	15
fuck her.	9
fuck no!	8
fuck it	7
fuck this	6
the fuck?	5
fuck her!	5
fuck 🚫	5

Name: message, dtype: int64

In [36]:

```
fuck.dates()
```

Out[36]:

2020-11-13	48
2020-11-24	19
2020-11-14	19
2020-12-14	19
2020-11-23	18
	..
2020-07-15	1
2019-01-02	1
2021-06-30	1
2020-06-02	1

```
2020-05-21      1  
Name: date, Length: 427, dtype: int64
```

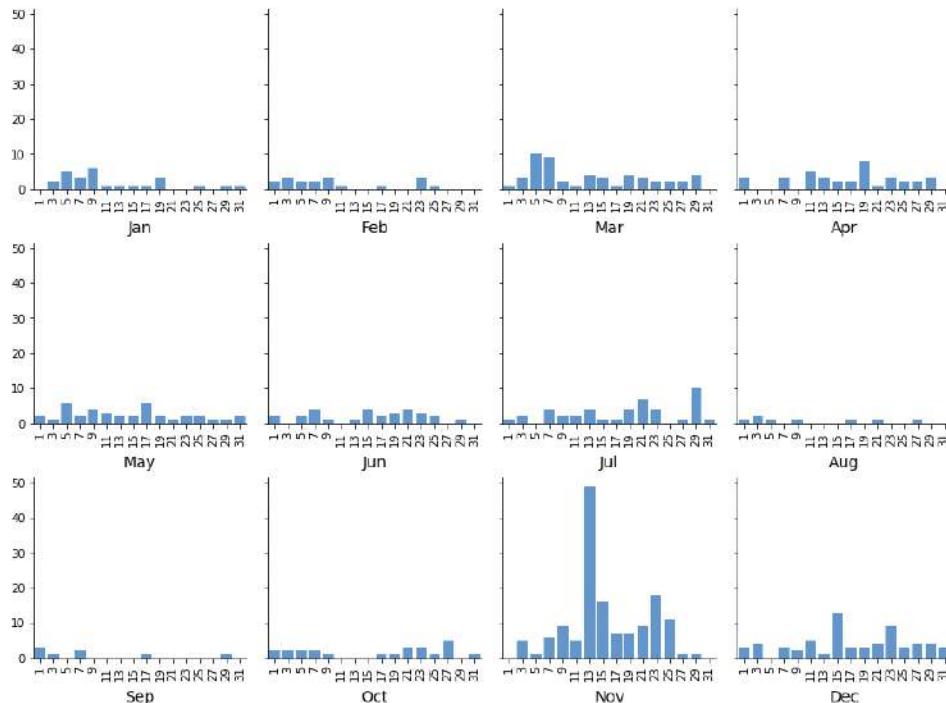
```
In [37]: fuck.peak(6)
```

```
In [38]: fuck.date_info()
```

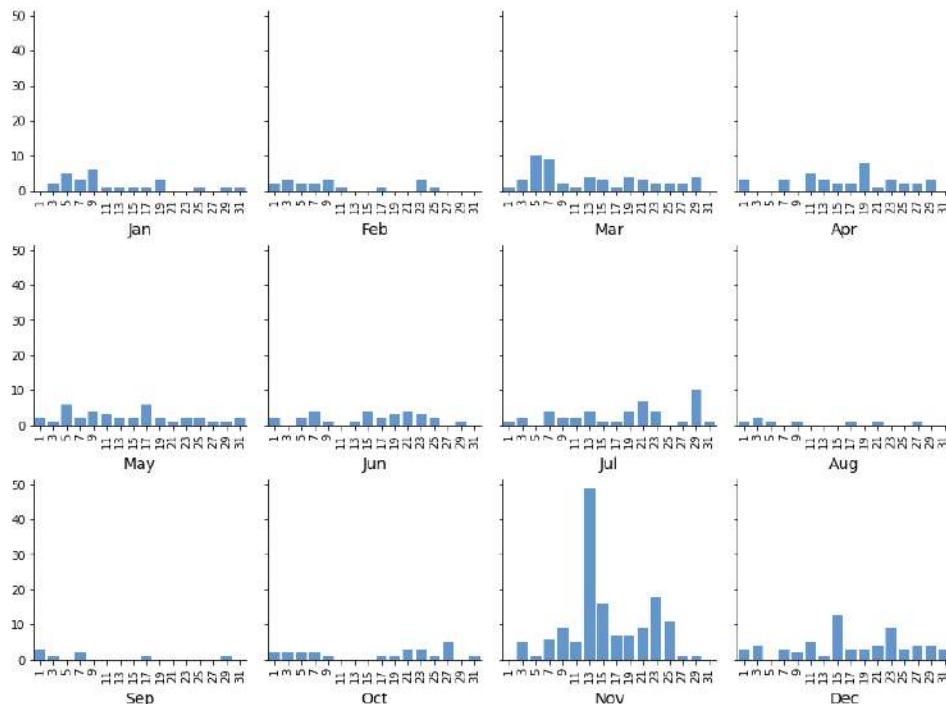
```
The comments were made between 2018-03-14 and 2021-08-06
```

```
year  
2018      116  
2019       86  
2020      580  
2021     206  
n_comments
```

Comments Created in Each Day of 2021

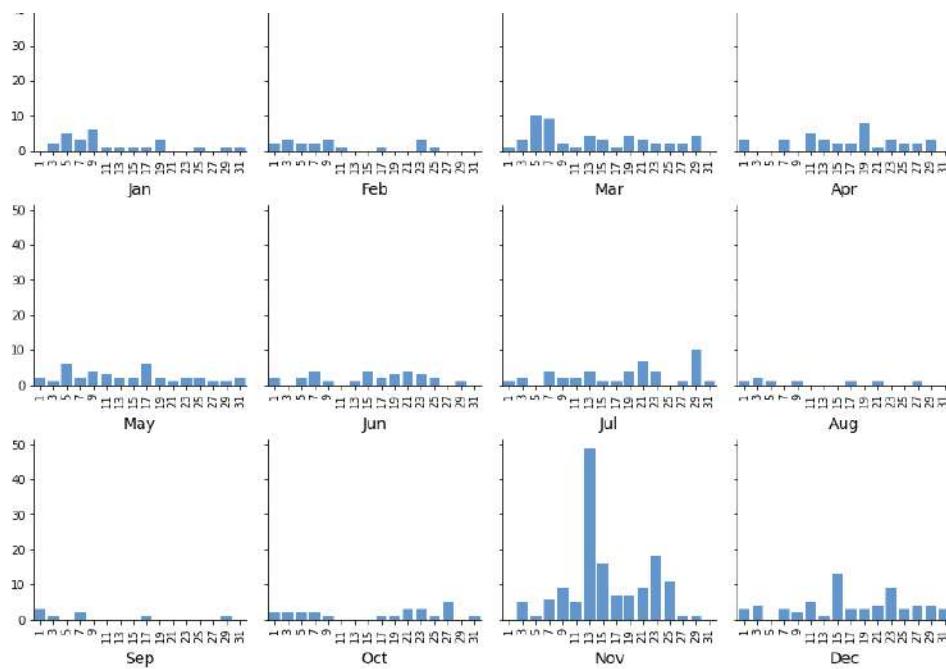


Comments Created in Each Day of 2018

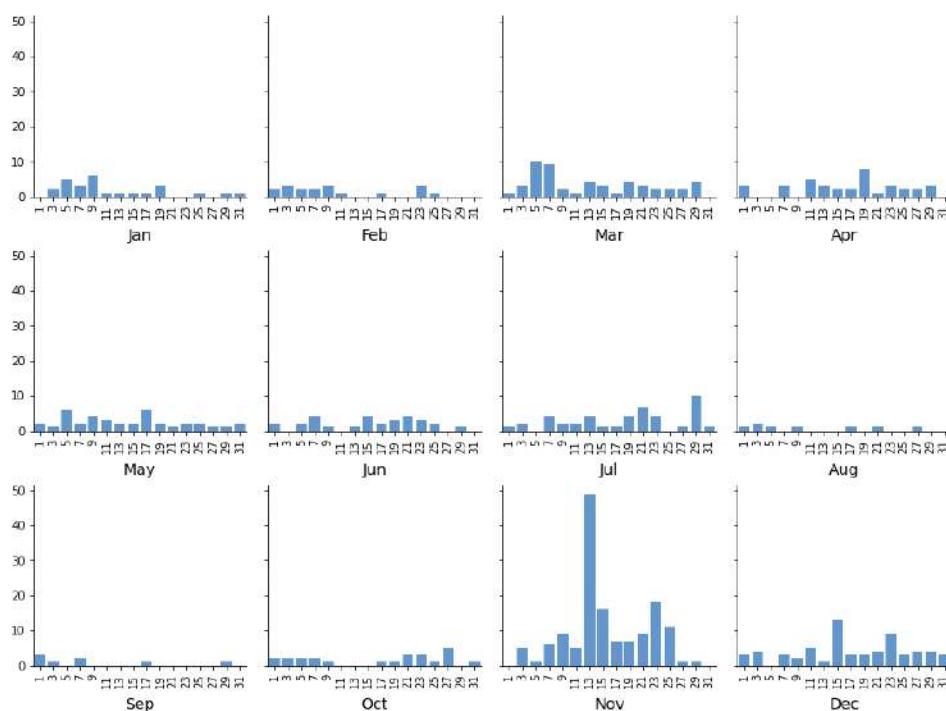


Comments Created in Each Day of 2020





Comments Created in Each Day of 2019



```
In [39]: fuck.df_timing().query(' days == 0 and hours == 0 and minutes == 0')
```

Out[39]:		message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month
	703998	fuck this no.	2018-07-30 15:21:32	17944113784085700	0.0	1.0	1834884415730529024	n	4002550560	just.dc.comics	False	...	Jul
	1247110	fuck	2019-02-04 06:31:55	17850355063328028	0.0	1.0	1971465053200510976	n	6291112232	mystical_petrova	False	...	Feb
	1294808	what the fuck	2020-07-08 10:45:53	17850358628163168	0.0	0.0	2348863105612431872	n	27222255411	bieberdepp	False	...	Jul
	613643	tuck you	2020-07-29 09:04:09	17848061804236980	0.0	0.0	2358886038704110592	n	4521967692	anthony.apel	False	...	Jul
	613644	fuck you	2020-07-29 09:04:13	18154117582033700	0.0	0.0	2358886038704110592	n	4521967692	anthony.apel	False	...	Jul
	613645	fuck her	2020-07-29 09:04:14	18146180068069228	0.0	0.0	2358886038704110592	n	4521967692	anthony.apel	False	...	Jul
	993275	fuck u	2020-08-24 20:22:30	17864863435020180	0.0	0.0	2376909184569769472	n	38713622568	loneshamim_official	False	...	Aug

662768	fuck	2020-10-01 02:17:16	17846737325367284	0.0	0.0	2385017715847743488	n	42029694287	sera22wsip	False	...	Oct
701880	what the fuck	2020-11-13 00:50:42	17850633350266608	0.0	6.0	2441092489643747840	n	5988213152	dianpetrella	False	...	Nov
701712	fuck em then	2020-11-13 01:47:12	17861091788236038	0.0	0.0	2441092489643747840	n	2242147210	callizapprov3d	False	...	Nov
701583	fuck off	2020-11-13 02:31:57	17872769942044344	0.0	0.0	2441092489643747840	n	5442472631	fuckface	False	...	Nov
760857	fuck her.	2020-11-13 04:26:06	18083247421223620	0.0	0.0	2441077924284353024	n	209881236	alison_overby	False	...	Nov
914045	fuck them all	2020-11-18 19:53:15	17887349302748090	0.0	0.0	2440271583151053312	n	42678021336	mobina.n.motammed	False	...	Nov
112332	@marie_kennedyxx fuck you 🤦‍♂️	2020-11-26 19:48:27	17898631102653604	NaN	20.0	2452374813564394496	17055447234337772	44740145042	andmen.1998	True	...	Nov
112374	@chaine_saw fuck you 🤦‍♂️	2020-11-28 23:45:21	18087853030212200	NaN	6.0	2452374813564394496	18122055826157424	44740145042	andmen.1998	True	...	Nov
425802	fuck her	2020-12-14 21:38:37	18149481685100244	0.0	0.0	2464164719269089280	n	13851127947	_adhaaan_	False	...	Dec
425729	fuck no!	2020-12-14 22:37:01	17870405409087792	0.0	0.0	2464164719269089280	n	2304110027	two guysoneticket1	False	...	Dec
991367	fuck her	2021-03-05 12:18:28	18099528481216076	0.0	0.0	2522523773284904960	n	22882154082	hoseinsarsam	False	...	Mar
6994	fuck her	2021-03-05 13:49:51	17871214958259696	0.0	1.0	2522478876649482240	n	22882154082	hoseinsarsam	False	...	Mar
1221672	fuck her	2021-03-07 10:35:13	1820148015100880	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...	Mar
1221673	fuck her	2021-03-07 10:35:15	17906882305696276	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...	Mar
1221674	fuck her	2021-03-07 10:35:18	18108701020203168	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...	Mar
1221675	fuck her	2021-03-07 10:35:20	17916047903591194	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...	Mar
1221676	fuck her	2021-03-07 10:35:22	17926131598522820	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...	Mar
1221678	fuck her	2021-03-07 10:35:29	17958452857396076	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...	Mar
1221679	fuck her	2021-03-07 10:35:32	17863595020356298	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...	Mar
762531	fuck her	2021-03-19 22:42:45	17863341371491268	0.0	0.0	2532794910547761152	n	22882154082	hoseinsarsam	False	...	Mar
384425	fuck her	2021-04-02 18:01:02	18063027676282768	0.0	0.0	254237651300517376	n	22882154082	hoseinsarsam	False	...	Apr
135667	fuck her	2021-04-11 06:34:44	17944661560460100	0.0	0.0	2545251427037387264	n	22882154082	hoseinsarsam	False	...	Apr
135668	fuck her	2021-04-11 06:34:47	18054826297305156	0.0	0.0	2545251427037387264	n	22882154082	hoseinsarsam	False	...	Apr
832585	fuck her	2021-04-14 18:54:29	17870368103483040	0.0	0.0	2550378315439159296	n	22882154082	hoseinsarsam	False	...	Apr
832586	and again fuck her	2021-04-14 18:54:44	18155215105182976	0.0	0.0	2550378315439159296	n	22882154082	hoseinsarsam	False	...	Apr
1031911	fuck you	2021-05-08 08:06:14	17901129472965214	0.0	1.0	2581266956676920832	n	18273664838	call.me.chelse	False	...	May
872920	fuck you @angel_amber_heard	2021-07-22 21:47:46	18020789368310488	0.0	1.0	2623432508656555008	n	5420098672	theelifyren	False	...	Jul

34 rows × 22 columns

```
In [48]: len(fuck.timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
Out[48]: 17
```

```
In [41]: fuck.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[41]:
```

hosein.sarsam	15
anthony.opcl	3
andmen.1998	2
mobina.n.motammed	1
twoguysoneticket1	1
sara22uslp	1
call.me.chelse	1
mystical_petrova	1
bieberdepp	1
calizapprov3d	1
dantepetrella	1
adnaan	1
loneshamim_official	1
allison_overby	1
thealifaryan	1
just.dc.comics	1
fuckfaze	1

Name: username, dtype: int64

```
In [42]: fuck.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[42]:
```

2021-03-07	7
2020-11-13	4
2020-07-29	3
2021-04-11	2
2021-04-14	2
2021-03-05	2
2020-11-28	2
2020-12-14	2
2020-11-18	1
2018-07-30	1
2020-08-24	1
2021-05-26	1
2020-07-08	1
2020-10-01	1
2021-03-19	1
2019-02-04	1
2021-07-22	1
2021-04-02	1

Name: date, dtype: int64

```
In [43]: list(fuck.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[43]:
```

- 'hosein.sarsam'
- 'anthony.opcl'
- 'andmen.1998'
- 'mobina.n.motammed'
- 'twoguysoneticket1'
- 'sara22uslp'
- 'call.me.chelse'
- 'mystical_petrova'
- 'ieberdepp'
- 'calizapprov3d'
- 'dantepetrella'
- '_adnaan_'
- 'loneshamim_official'
- 'allison_overby'
- 'thealifaryan'
- 'just.dc.comics'
- 'fuckfaze'

johnnydepp

- justiceforjohnnydepp
- red
- fuck
- johnnydepp
- amberheardisanabuser
- bitch
- abuser

```
In [44]: jd = SameText(df_comments, "{'johnnydepp'}")
```

```
In [45]: jd.head(2)
```

```
Out[45]:
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	accour	
4124	@johnnydepp	2020-04-11 06:46	18	1810867351120448	0.0	0.0	2242882880333473280	n	1441261892	mompreneur06	False	https://www.instagram.com/mompreneur
7621	@johnnydepp.cl	2021-06-04 35:11	15	17876667587426594	0.0	1.0	2596223551650236928	n	6011964892	sparrowdepp3	False	https://www.instagram.com/sparrowd

```
In [46]: jd.n_comments_unique()
```

This comment appeared in 148 shape

```
In [47]: jd.shapes(15)
```

```
Out[47]:
```

@johnnydepp	361
#johnnydepp	42
@johnnydepp ❤️	16
😍 @johnnydepp	8
😍 @johnnydepp	6
😍 @johnnydepp	5
	1

```

@johnnydepp 💙
@johnnydepp ❤️❤️❤️
@johnnydepp "we are with you"♥
@johnnydepp 😊
@johnnydepp 🍁
@johnnydepp 💚
johnnydepp
@johnnydepp ♥
just a face of a liar█████justice for #johnnydepp
Name: message, dtype: int64

```

```
In [48]: jd.dates()
```

```

Out[48]:
2020-11-02    120
2020-11-03     48
2020-08-13     25
2020-08-03     21
2020-08-14     16
...
2020-12-19      1
2020-08-08      1
2021-03-21      1
2021-01-10      1
2020-09-15      1
Name: date, Length: 185, dtype: int64

```

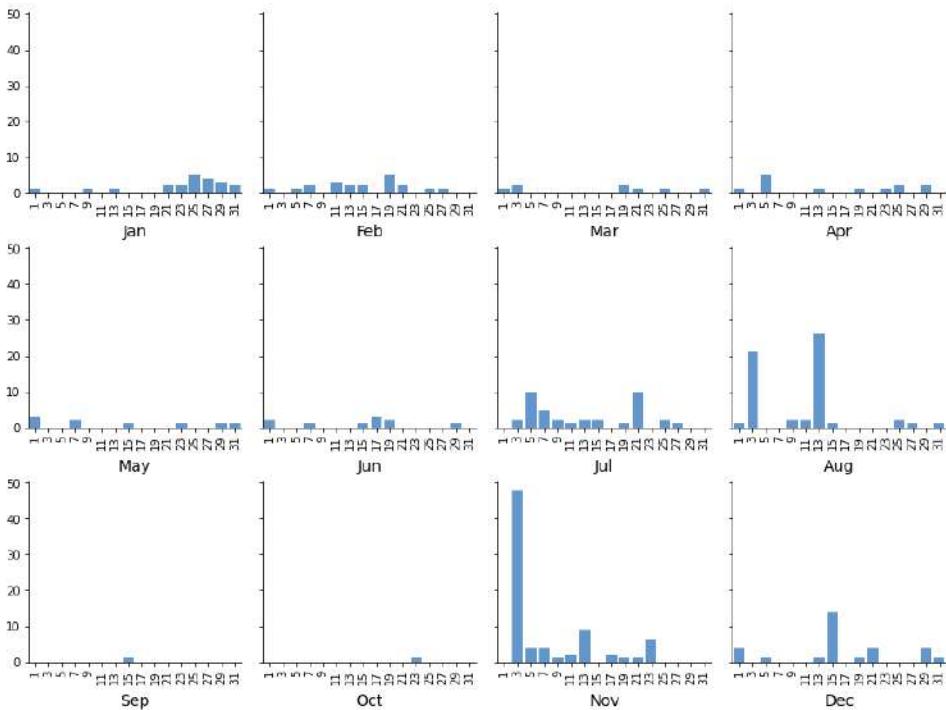
```
In [49]: jd.peak(6)
```

```
In [50]: jd.date_info()
```

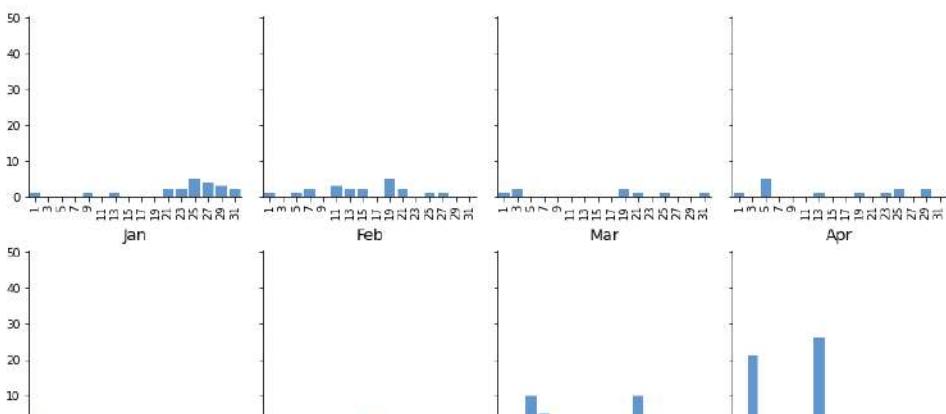
The comments were made between 2018-02-10 and 2021-08-13

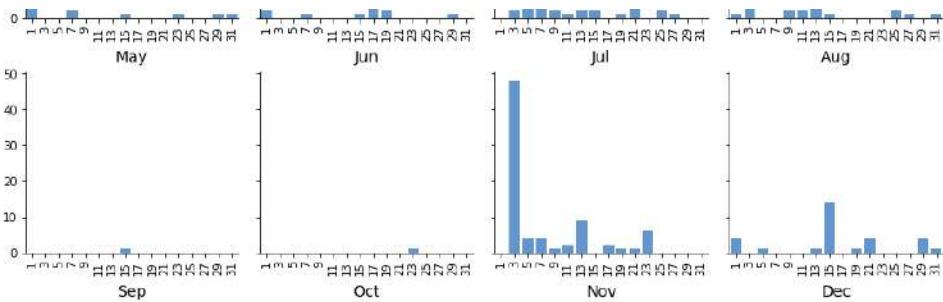
year	n_comments
2018	4
2019	1
2020	469
2021	148

Comments Created in Each Day of 2020

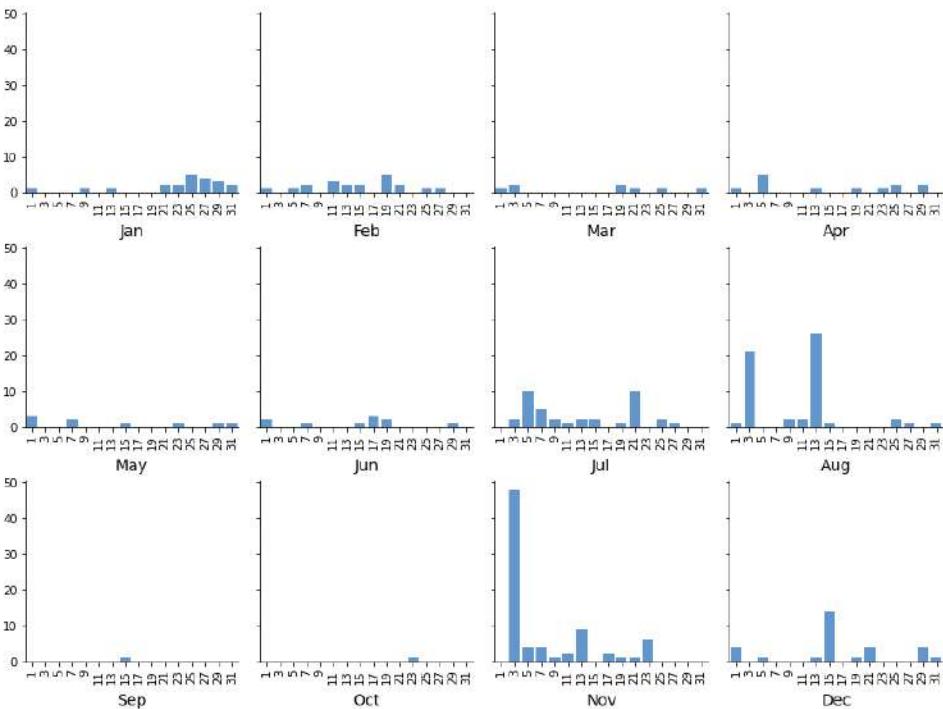


Comments Created in Each Day of 2021

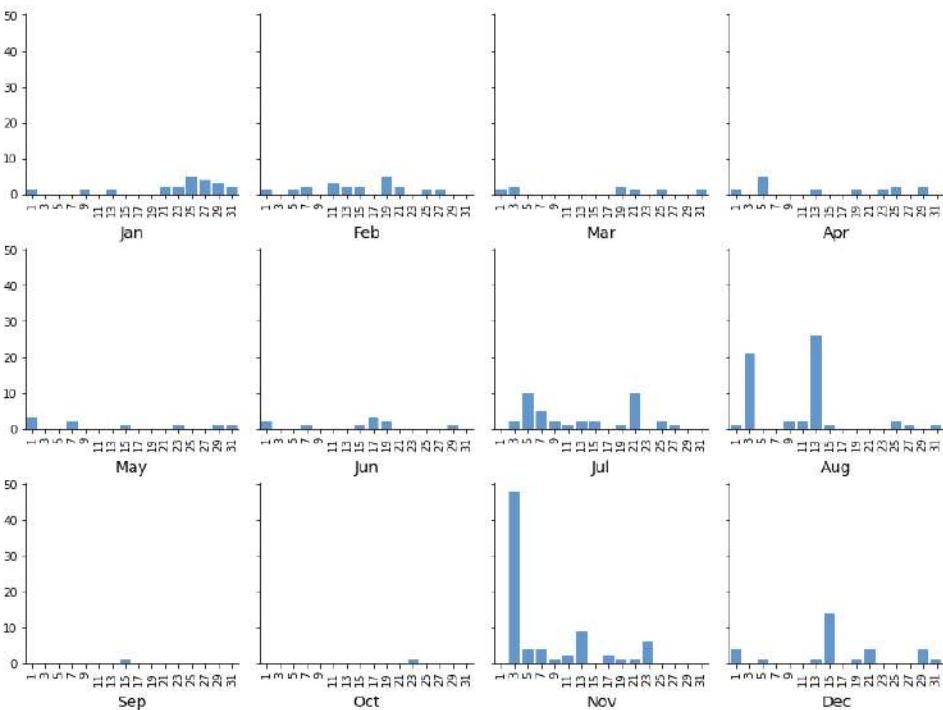




Comments Created in Each Day of 2019



Comments Created in Each Day of 2018



```
In [51]: jd.df_timing().query('days == 0 and hours == 0 and minutes == 0')
```

```
Out[51]:   message      datetime       id  n_replies  n_likes      media_id  parent_id    user_id  username  is_verified ...  month  dayofmonth  date  ho
          2018-02-
746318  #johnnydepp  10 17910453229112538      0.0     0.0  1684941435018044416      n  2194277189  @iforlifely  False  ...  Feb        10  2018-
```

			18:57:13																		
1138194	@johnnydepp	2020-06-30 15:05:58	10015226330304628	0.0	2.0	2342950723368841216	n	12029614163	inmn_hstm	False	...	Jun	30	2020-06-30							
1138195	@johnnydepp	2020-06-30 15:06:08	17878594450712180	0.0	2.0	2342950723368841216	n	12029614163	inmn_hstm	False	...	Jun	30	2020-06-30							
18382	@johnnydepp	2020-07-05 18:05:55	17844957536255768	0.0	1.0	2346596933296266752	n	33655292307	jJohnnydepp	False	...	Jul	5	2020-07-05							
18383	@johnnydepp	2020-07-05 18:05:55	17928629803395402	0.0	1.0	2346596933296266752	n	33655292307	jJohnnydepp	False	...	Jul	5	2020-07-05							
...	
1322728	@johnnydepp	2021-04-05 22:15:58	17865348129148464	0.0	0.0	2433649528107118080	n	33915725897	sara24_4yio	False	...	Apr	5	2021-04-05							
1322729	@johnnydepp	2021-04-05 22:16:06	18146797312094416	0.0	0.0	2433649528107118080	n	33915725897	sara24_4yio	False	...	Apr	5	2021-04-05							
1322730	@johnnydepp	2021-04-05 22:16:12	17902633585771468	0.0	0.0	2433649528107118080	n	33915725897	sara24_4yio	False	...	Apr	5	2021-04-05							
1322731	@johnnydepp	2021-04-05 22:16:21	18003580802252436	0.0	0.0	2433649528107118080	n	33915725897	sara24_4yio	False	...	Apr	5	2021-04-05							
578844	@johnnydepp	2021-06-20 18:14:37	18233840056037240	0.0	0.0	2600244701090880512	n	4366220388	hany_kzz	False	...	Jun	20	2021-06-20							

261 rows × 22 columns

```
In [52]: len(jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
Out[52]: 67

In [53]: jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()

Out[53]: _jas_min_pr_-      20
mar_._mj                 15
nargess1485                12
aida_parsa86                11
why.becauseofwhynils                9
..
_naomi_seyuri                1
thatgorlyouknow                1
wnnnq                1
okakart                1
19omid86                1
Name: username, Length: 67, dtype: int64

In [54]: jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()

Out[54]: 2020-11-02      101
2020-11-03        40
2020-08-13        12
2020-12-15        11
2020-08-14        10
2020-07-21         9
2020-07-05         8
2020-10-02         7
2020-11-06         7
2020-08-26         7
2020-11-23         5
2021-02-14         4
2021-04-05         4
2020-08-28         4
2020-11-10         4
2020-11-13         4
2020-11-05         3
2020-06-30         2
2021-02-18         2
2020-07-07         2
2020-08-03         2
2021-02-10         1
2021-01-25         1
2020-08-24         1
2018-02-10         1
2020-09-24         1
2020-11-04         1
2021-06-20         1
2020-11-07         1
2021-02-22         1
2021-02-19         1
2021-01-28         1
2021-02-21         1
2020-07-06         1
Name: date, dtype: int64

In [55]: list(jd.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
Out[55]: ['_jas_min_pr_-',
'mar_._mj',
'nargess1485',
'aida_parsa86',
'why.becauseofwhynils',
'johnny_depp_073',
'johnnydepp.lovers.2020']
```

```
'elina_5489',
'grindelwald.in',
'johnnydeppfaans',
'parni_da88',
'tini_karol_our_idols',
'mariamfarzam',
'kimia_nikzad',
'johnnydeppfanturkey58',
'deppvid.ir',
'depthead.area',
'fctbgcdsdrg',
'jackiehoydepp2',
'cityof_stars',
'haj_johnnydepp',
'madineh7837',
'johnnydepp.artist',
'expectsmaps',
'j00hnydepp',
'sara24_4yio',
'_nikox.l',
'depthead_ir',
'_anersisyannn',
'johnnydepp_fnp',
'merry_forsterova',
'drarry_lgbt',
'johnnyidep_fan',
'__diamondsss',
'art_diaris',
'_johnny_depp.1',
'depheditz',
'noooo234567',
'empire.of.lilyrose.depp',
'johnny.depp_tr',
'taranehaliousti_purple',
'innn_hstn',
'johnnydeppism',
'i.am.captain.jack.sparrow',
'imia_sh',
'babikateb',
'marisol_torres',
'netflix_serials',
'nimriee',
'jchnnnydpp',
'ladawhatyoudoing',
'rayhanfreitas_',
'machelyyyyy',
'milad.mrsh',
'jjforlife.y',
'parsa_@far173pv',
'truth.magicc',
'nazanink2007',
'hany_kzz',
'elisalortiz',
'stila_kurd',
'_ghazal1963',
'_naomi_sayuri',
'thatgorlyouknow',
'wnnnq',
'okakart',
'19omid86']
```

amberheardisanabuser

- justiceforjohnnydepp
- red
- fuck
- johnnydepp
- amberheardisanabuser
- bitch
- abuser

```
In [56]: amberheardisanabuser = SameText(df_comments, "[\"amberheardisanabuser\"]")
```

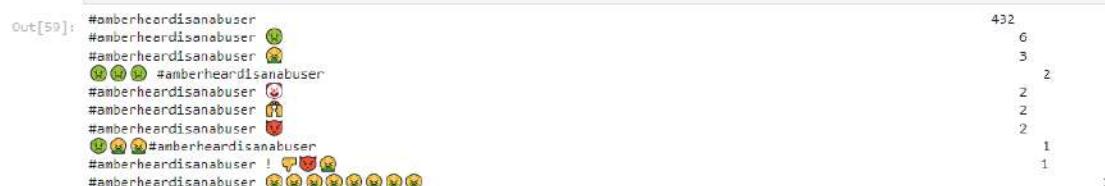
```
In [57]: amberheardisanabuser.head(2)
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	a
2021-01-	6062 #amberheardisanabuser	04 10:35:58	17892481600794708	0.0	1.0	2455472094631451136	n	29803639	spirit_ualspirit	False	https://www.instagram.com/spirit_ualspirit
2020-11-	10688 #amberheardisanabuser	11 19:07:01	17876513899966318	0.0	1.0	2438882288443426304	n	4537577699	youreignbyjazi	False	https://www.instagram.com/youreignbyjazi

```
In [58]: amberheardisanabuser.n_comments_unique()
```

This comment appeared in 49 shape

```
In [59]: amberheardisanabuser.shapes(15)
```



```

 #amberheardisanabuser
@sorin1956.nola #amberheardisanabuser
 #amberheardisanabuser
#amberheardisanabuser #amberheardisanabuser #amberheardisanabuser #amberheardisanabuser #amberheardisanabuser
#amberheardisanabuser !!!
Name: message, dtype: int64

```

```
In [60]: amberheardisanabuser.dates()
```

```
Out[60]:
2020-12-18    43
2020-12-29    22
2020-12-19    18
2020-11-09    12
2020-11-08    11
...
2021-07-21     1
2021-06-14     1
2020-07-08     1
2020-03-28     1
2021-08-02     1
Name: date, Length: 194, dtype: int64
```

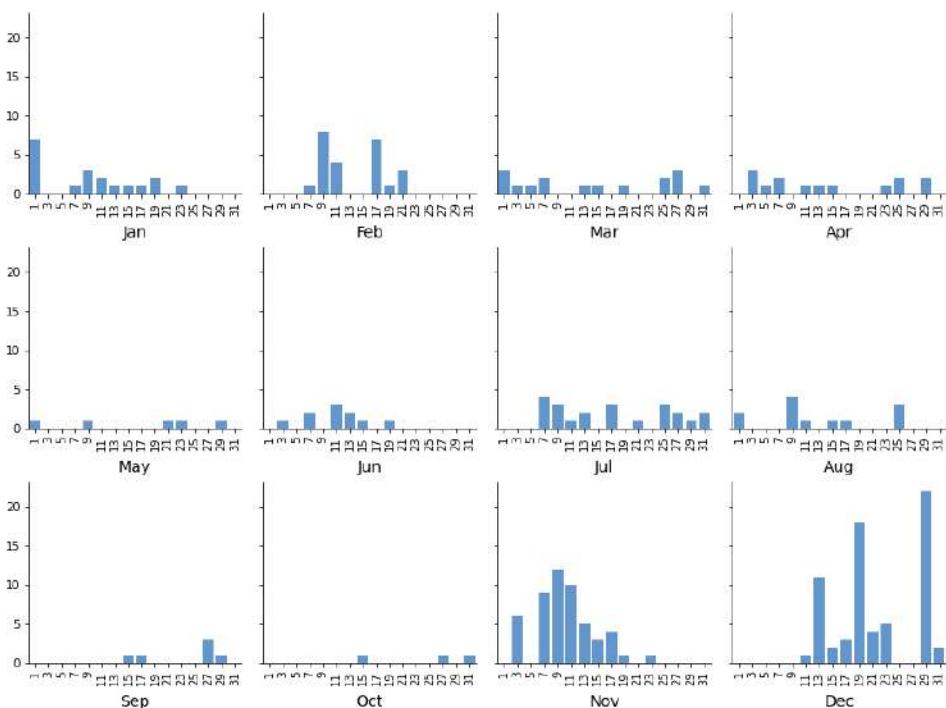
```
In [61]: amberheardisanabuser.peak(6)
```

```
In [62]: amberheardisanabuser.date_info()
```

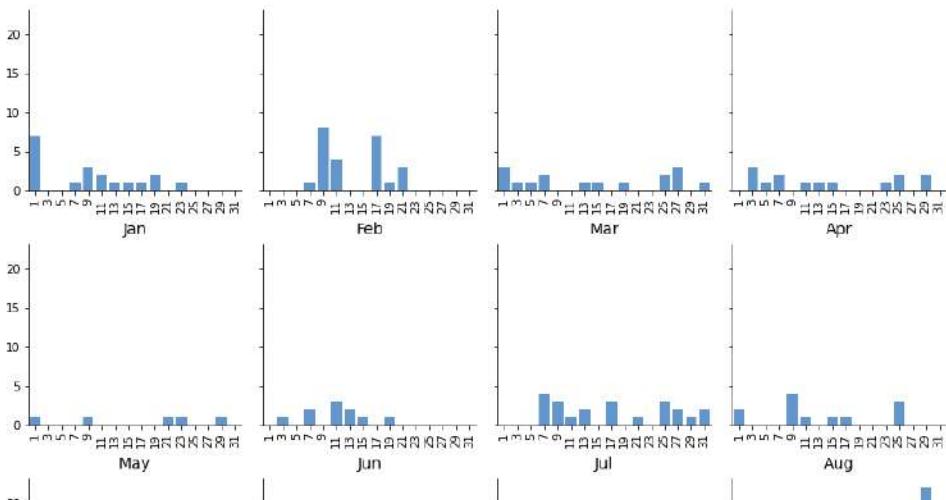
```
The comments were made between 2019-03-13 and 2021-08-18
n_comments
```

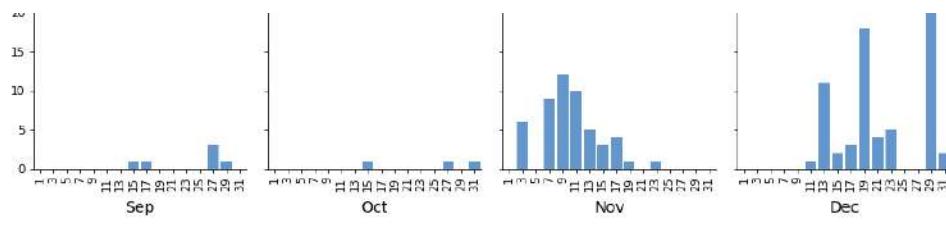
year	n_comments
2019	10
2020	354
2021	127

Comments Created in Each Day of 2021



Comments Created in Each Day of 2020





```
Out[65]: fans.depthead      6
amn666sia      6
marie_kennedyxx    4
tanja;jurgec      3
divulgaaa.bahia    3
ballikaya_defne_7    3
johnnydepp_fnp      2
its_offical_sophie1    2
youreignbyjazi    2
shiniganmi      2
zhra.006      2
alic.sara20      2
shellpoll26      2
llsweet_      1
racheltw_      1
alessiainnocenzii    1
vict.or7363      1
_connie_svd      1
johnny.depp.is.innocent  1
vandevanderbilt    1
majjcili1      1
finnx07x      1
crea.tive1345    1
sxphie.ritxhie    1
lovylysilva    1
_depp_fan_      1
labatiperra1_oficial  1
jdbestmoments    1
freyja_beads    1
tomenage17      1
truth.magicc      1
em_fauch      1
khrisfairbs      1
v.i.c.k.y22      1
itsbigbadwolf    1
nathanael;david_ignotuslux  1
iamatefehr      1
_delaрам.s      1
jette.crn      1
m3hwish      1
Name: username, dtype: int64
```

```
In [66]: amberheardisanabuser.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[66]: 2020-12-19      6
2020-11-08      6
2020-12-18      6
2020-11-09      5
2020-12-29      4
2021-07-02      3
2021-01-28      3
2020-11-11      3
2020-11-12      3
2020-09-27      2
2021-02-17      2
2020-11-13      2
2020-12-14      2
2020-12-13      2
2020-11-30      1
2020-02-04      1
2019-06-11      1
2020-04-03      1
2020-07-25      1
2020-11-10      1
2021-01-01      1
2021-02-24      1
2021-01-20      1
2020-12-23      1
2020-02-11      1
2021-07-08      1
2020-02-09      1
2020-11-07      1
2021-05-08      1
2021-01-14      1
2021-08-18      1
Name: date, dtype: int64
```

```
In [67]: list(amberheardisanabuser.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[67]: ['fans.depthead',
 'amn666sia',
 'marie_kennedyxx',
 'tanja;jurgec',
 'divulgaaa.bahia',
 'ballikaya_defne_7',
 'johnnydepp_fnp',
 'its_offical_sophie1',
 'youreignbyjazi',
 'shiniganmi',
 'zhra.006',
 'alic.sara20',
 'shellpoll26',
 'llsweet_',
 'racheltw_',
 'alessiainnocenzii',
 'vict.or7363',
 '_connie_svd',
 'johnny.depp.is.innocent',
 'vandevanderbilt',
 'majjcili1',
 'finnx07x',
 'crea.tive1345',
 'sxphie.ritxhie',
 'lovylysilva',
 '_depp_fan_',
 'labatiperra1_oficial',
 'jdbestmoments',
 'freouis_beade'
```

```
'tomeimage17',
'truth.magicc',
'em_fouch',
'khrisfeainbs',
've.i.c.h.y22',
'itsbigbadwolf_',
'nathansealdavid_ignotuslux',
'iamatefehr',
'_delarams_s',
'jette.crn',
'm3hwish']
```

bitch

- justiceforjohnnydepp
- red
- fuck
- johnnydepp
- amberheardisanabuser
- bitch
- abuser

```
In [68]: bitch = SameText(df_comments, "('bitch')")
```

```
In [69]: bitch.head(2)
```

```
Out[69]:   message      datetime      id  n_replies  n_likes      media_id  parent_id    user_id  username  is_verified  account_url  year
          2020-05-
2007  ⚡bitch  2020-05-28  18108118336137032  0.0  0.0  2318954103417754624  n  28017117210  fati_elf  False  https://www.instagram.com/fati_elf  2020
          2020-10-
13241  bitch  2020-10-02  18121203734084004  0.0  0.0  2410871604390144512  n  21224014173  eriel_d2234  False  https://www.instagram.com/eriel_d2234  2020
```

```
In [70]: bitch.n_comments.unique()
```

This comment appeared in 204 shape

```
In [71]: bitch.shapes(15)
```

```
Out[71]: bitch            305
what a bitch           25
she is a bitch         12
she's a bitch          11
this bitch             10
such a bitch            9
bitch.                 6
that bitch              6
a bitch                6
she's a bitch           6
bitch!                 6
the bitch               4
bitch...                4
she is bitch            4
die bitch               4
Name: message, dtype: int64
```

```
In [72]: bitch.dates()
```

```
Out[72]: 2020-11-13    24
2020-11-10    18
2020-11-17    15
2020-11-14    14
2020-11-15    11
...
2021-02-28     1
2020-10-21     1
2021-01-31     1
2019-10-19     1
2020-03-22     1
Name: date, Length: 330, dtype: int64
```

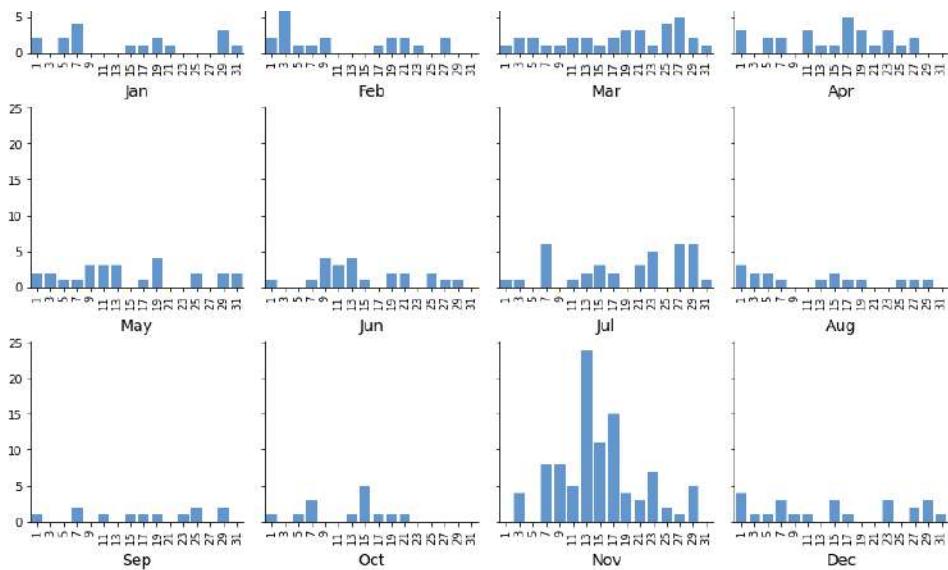
```
In [73]: bitch.peak(6)
```

```
In [74]: bitch.date_info()
```

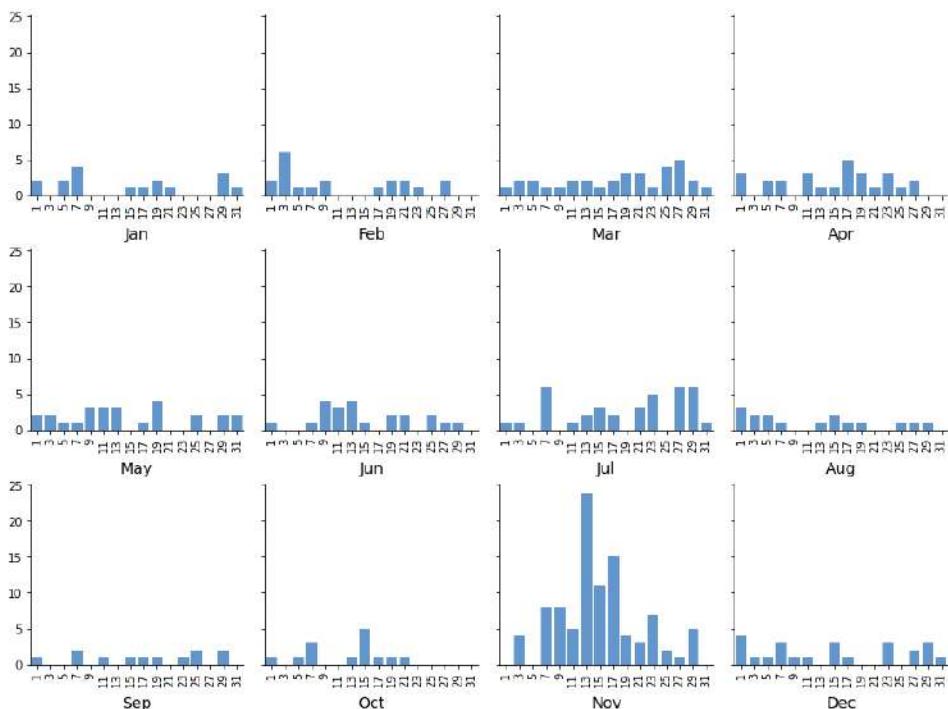
```
The commentes were made between 2018-03-15 and 2021-07-27
   n_comments
year
2018        24
2019        49
2020       439
2021       123
```

Comments Created in Each Day of 2020

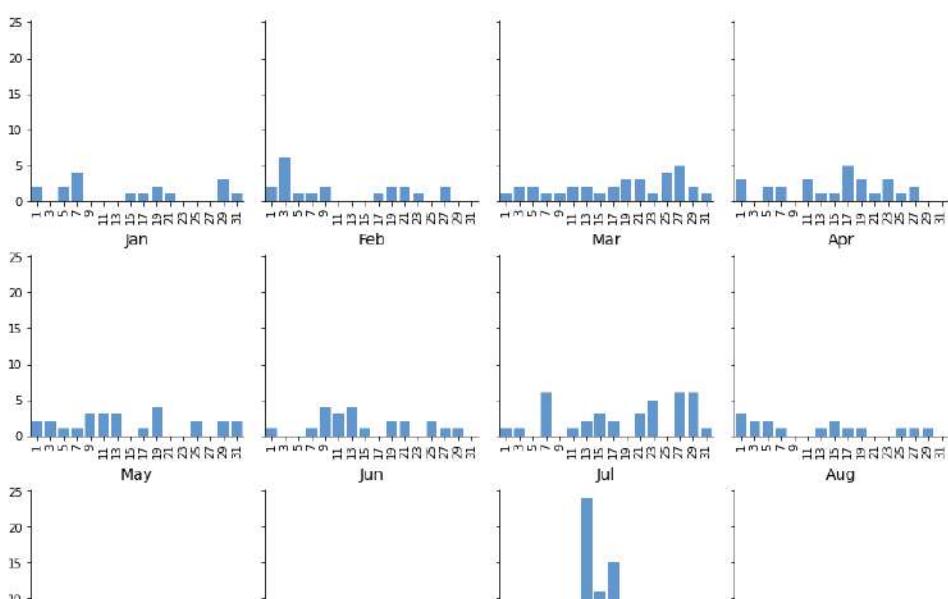


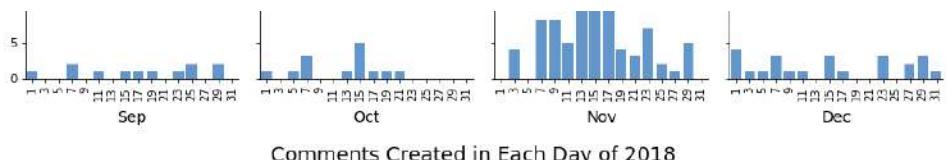


Comments Created in Each Day of 2019

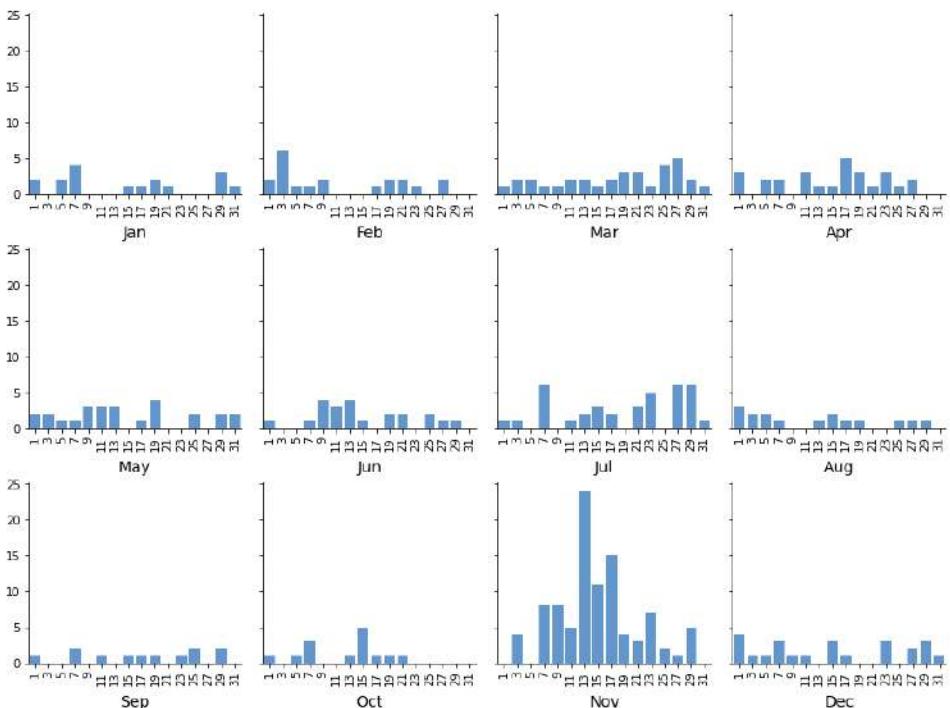


Comments Created in Each Day of 2021





Comments Created in Each Day of 2018



In [75]: `bitch.df_timing().query(' days == 0 and hours == 0 and minutes == 0')`

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	dayofmonth	date
1229089	bitch	2019-03-08 17:26:20	18026222842118630	0.0	0.0	1985099304046877440	n	5939912790	fan_page_johnny_depp_	False	...	Mar	8	2019-03-08
501768	bitch	2019-03-08 17:26:37	17977972660210946	0.0	1.0	1985668774775715584	n	5939912790	fan_page_johnny_depp_	False	...	Mar	8	2019-03-08
522123	she is very bitch 🙀	2020-04-08 01:34:53	17852263517952664	0.0	0.0	2282245534171745536	n	17436168751	trolljuve	False	...	Apr	8	2020-04-08
487558	bitch	2020-05-16 03:22:55	17865379309808328	0.0	0.0	2309968291977200128	n	6898785154	adamelsharkawy_bizg	False	...	May	16	2020-05-16
651021	bitch	2020-08-06 20:14:50	17890045375612116	0.0	0.0	2367574519165341696	n	16845227655	lazy.star.arts	False	...	Aug	6	2020-08-06
1137802	she's a bitch	2020-11-08 21:39:57	17872490417046656	0.0	0.0	2437740775658571776	n	8450281000	kiranstauch	False	...	Nov	8	2020-11-08
330085	bitch	2020-11-10 17:34:48	17877023923958774	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	Nov	10	2020-11-10
330086	bitch	2020-11-10 17:34:49	17914249486492694	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	Nov	10	2020-11-10
330087	bitch	2020-11-10 17:34:51	178688385230068712	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	Nov	10	2020-11-10
330088	bitch	2020-11-10 17:34:53	18016508680288180	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	Nov	10	2020-11-10
330089	bitch	2020-11-10 17:34:54	17866190621142328	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	Nov	10	2020-11-10
330090	bitch	2020-11-10 17:34:55	17976942970324236	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	Nov	10	2020-11-10
330091	bitch	2020-11-10 17:34:57	17908588768532734	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	Nov	10	2020-11-10
981573	bitch	2020-11-10 17:37:07	17889464563101986	0.0	0.0	2439421207701709824	n	2926711002	florachirico	False	...	Nov	10	2020-11-10

486665	bitch	2020-11-13 18:08:26	18108726945169616	0.0	14.0	2441542982908089056	n	5743398975	mattnash8506	False	...	Nov	13	2020-11-13
1276495	bitch	2020-11-14 02:07:47	17889153793737400	0.0	0.0	2441737730657456640	n	2987294245	kudzmaboss	False	...	Nov	14	2020-11-14
414486	a bitch	2021-01-06 12:32:49	17867581637261956	0.0	0.0	2470967131330535424	n	44998918295	hamidreza66_rezapoor	False	...	Jan	6	2021-01-06

17 rows × 22 columns

```
In [76]: len(bitch.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[76]: 9
```

```
In [77]: bitch.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[77]: florachirico      8
fan_page_johnny_depp_   2
mattnash8506            1
troll.juve               1
hamidreza66_rezapoor    1
adamelsharkawy_bigz    1
kiranstauch              1
kudzmaboss                1
lazy.star.arts           1
Name: username, dtype: int64
```

```
In [78]: bitch.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[78]: 2020-11-10    8
2019-03-08    2
2020-11-13    1
2020-08-06    1
2020-11-14    1
2021-01-06    1
2020-11-08    1
2020-04-08    1
2020-05-16    1
Name: date, dtype: int64
```

```
In [79]: list(bitch.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[79]: ['florachirico',
 'fan_page_johnny_depp_',
 'mattnash8506',
 'troll.juve',
 'hamidreza66_rezapoor',
 'adamelsharkawy_bigz',
 'kiranstauch',
 'kudzmaboss',
 'lazy.star.arts']
```

abuser

- justiceforjohnnydepp
- red
- fuck
- johnnydepp
- amberheardisabuser
- bitch
- abuser

```
In [80]: abuser = SameText(df_comments, "{'abuser'}")
```

```
In [81]: abuser.head(2)
```

```
Out[81]: message      datetime      id  n_replies  n_likes      media_id  parent_id      user_id      username  is_verified      account_url  yes
        2020-06-02 17855522417019074      0.0      0.0  2314639163877400576      n  33874114164  rashidrazaarr  False  https://www.instagram.com/rashidrazaarr  202
        2021-01-20 17927162719491116      0.0      0.0  2469954445721169408      n  479691086  theashwindsor  False  https://www.instagram.com/theashwindsor  202
```

```
In [82]: abuser.n_commnets_unique()
```

This comment appeared in 202 shape

```
In [83]: abuser.shapes(15)
```

```
Out[83]: abuser          346
she is an abuser       21
she's an abuser        20
abuser.                 20
#abuser.                15
she's on abuser         12
abuser 🐱              7
she's on abuser.        6
abuser 🎃              6
abuser ❤️              6
...
```

```
abuser:  
the abuser      5  
abuser (1)      4  
an abuser       4  
she is a abuser 4  
Name: message, dtype: int64
```

```
In [84]: abuser.dates()
```

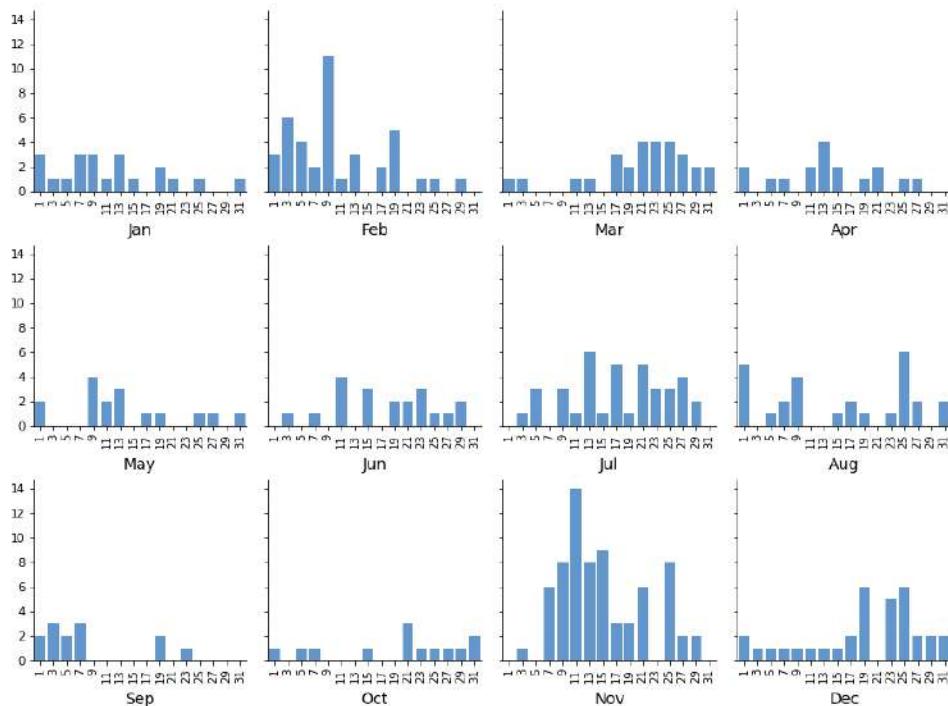
```
Out[84]:  
2020-11-12    18  
2020-11-11    14  
2020-02-20    13  
2020-02-09    11  
2020-11-15     9  
..  
2019-05-09     1  
2019-04-11     1  
2020-02-20     1  
2020-02-25     1  
2019-03-17     1  
Name: date, Length: 326, dtype: int64
```

```
In [85]: abuser.peak(6)
```

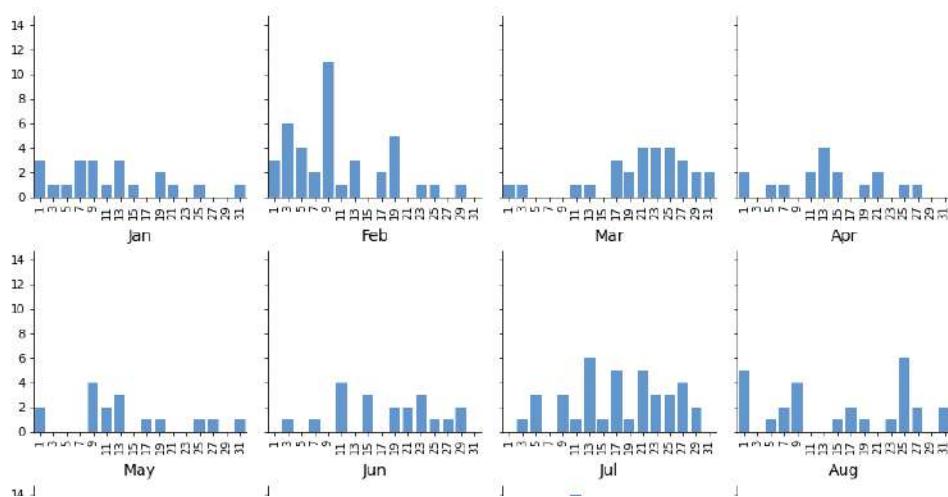
```
In [86]: abuser.date_info()
```

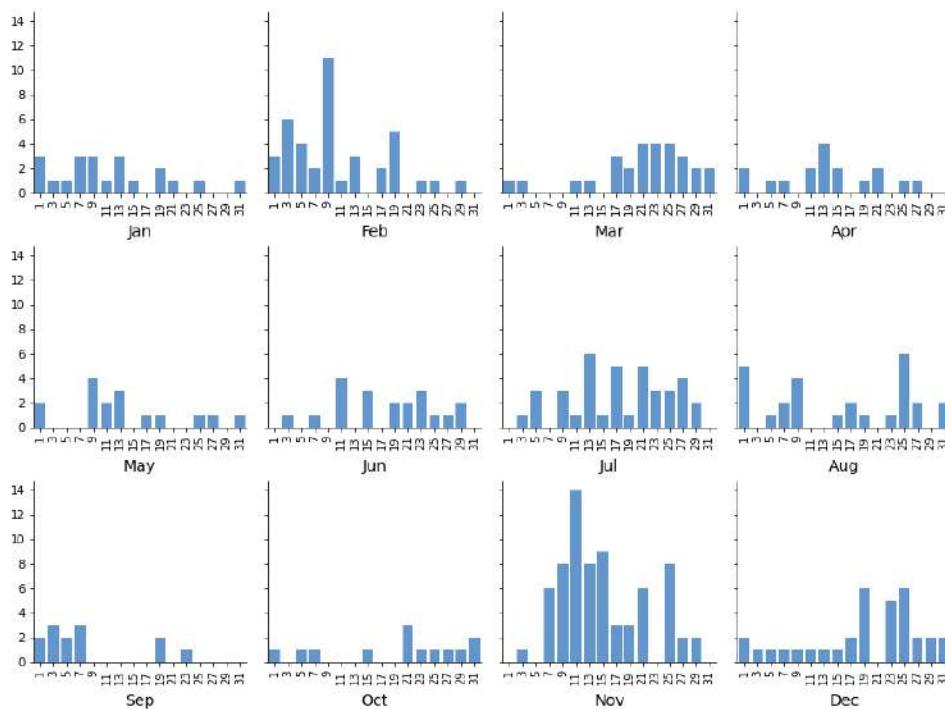
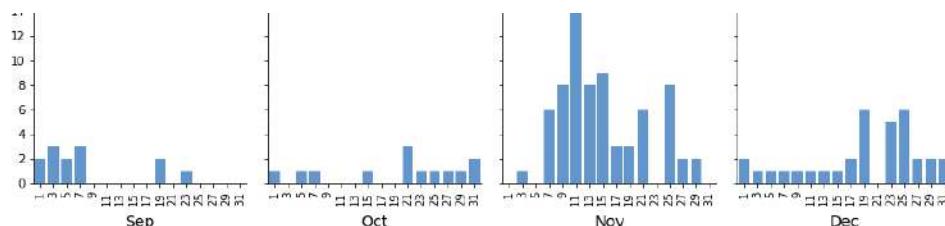
```
The comments were made between 2018-08-01 and 2021-08-27  
n_comments  
year  
2018        4  
2019       39  
2020      469  
2021     179
```

Comments Created in Each Day of 2020

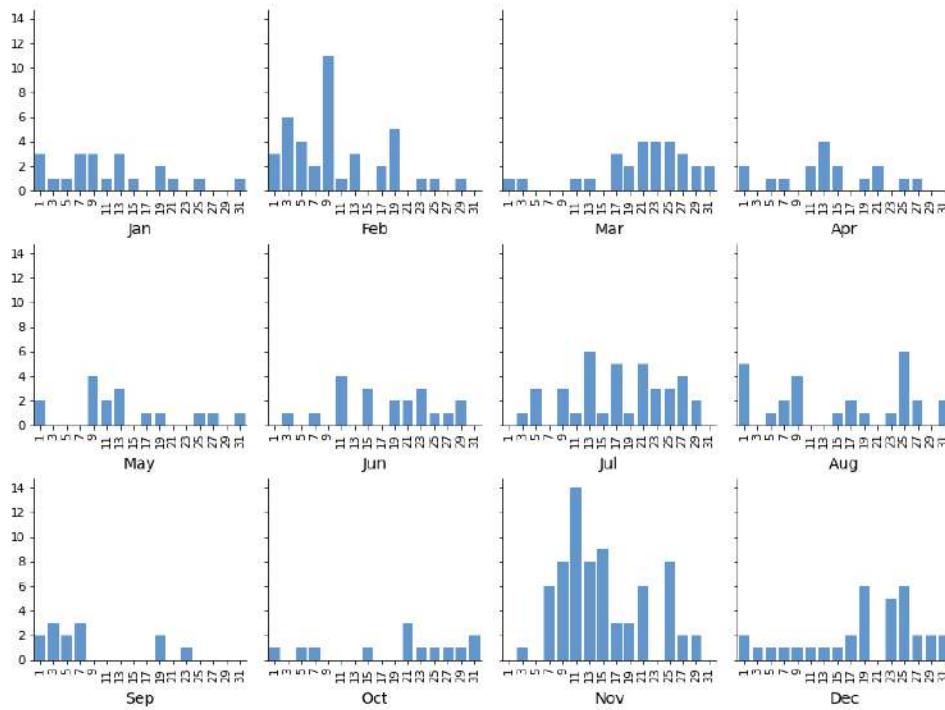


Comments Created in Each Day of 2021





Comments Created in Each Day of 2018



```
In [87]: abuser_df_timing().query('days == 0 and hours == 0 and minutes == 0')
```

Out[87]:	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	day
961414	@ya_itsbianca she's an abuser	2019-11-02 09:35	17882058750444878	NaN	2.0	217273325314526464	18042982330202736	5638405846	jov4lyfe	True	...	Nov	
961399	@roman_reigns4234 she's an abuser	2019-11-10	17853600713645996	NaN	2.0	217273325314526464	18080094295189332	5638405846	jov4lyfe	True	...	Nov	

Q2:1058														
961399	@peppered_she's an abuser	2019-11-02 11:24	10	17849732134710176	NoN	0.0	217273325314526464	18000795786142088	5638405846	jov4lyfe	True	...	Nov	
1219184	#abuser	2020-02-09 03:38	02	17870008615589434	0.0	1.0	2234783109899626752	n	10450781962	gravesveraniego	False	...	Feb	
107195	abuser	2020-02-10 41:05	06	17844359917945592	0.0	0.0	2237716588123688704	n	4137159689	gentlyhands	False	...	Feb	
...	
76576	abuser 🚫	2021-06-21 11:23	10	17877183389399918	0.0	0.0	2581080313982604288	n	47047202725	marymagdalene_27	False	...	Jun	
298765	abuser 🚫	2021-06-21 11:36	10	17910745402863866	0.0	0.0	2581236137986890752	n	47047202725	marymagdalene_27	False	...	Jun	
139561	abuser 🚫	2021-06-23 00:24	11	17901408518000848	0.0	0.0	2593008441506973696	n	47047202725	marymagdalene_27	False	...	Jun	
1254521	she's an abuser.	2021-07-03 00:02	21	17935419472570474	0.0	2.0	2622202537958978560	n	47897666763	jem.weaver	False	...	Jul	
831911	abuser	2021-07-21 44:45	26	17968616797425508	0.0	0.0	2626285359389928448	n	4563921421	jdjazmin12	False	...	Jul	

65 rows × 22 columns

```
In [88]: len(abuser.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

Out[88]: 34

```
In [89]: abuser.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[89]:
arcilopisces          10
lisa_lavelledbaby      6
marymagdalene_27        5
nerheeiram              3
jov4lyfe                3
andre_skywalker2005      3
jared_m716                2
gentlyhands                2
skseeha                  2
reid.wilks                2
bby_rona                  2
liloandstitches_            2
beancat42                  2
mygkg_                      1
shifftychameleon           1
jklockk                    1
jem.weaver                  1
want.it.now.clothing           1
obeymichydollie           1
amndme                      1
multi_fandom.aesthetics           1
conor_longley_              1
catartresse                1
babygirlashx                1
jdjazmin12                  1
timw77                      1
mxhaliae                   1
lina.puletova                1
macthamerice                1
gravesveraniego               1
georgebouaoun                1
marie_kennedyxx                1
archknightt                  1
afh_zl                      1
Name: username, dtype: int64
```

```
In [90]: abuser.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[90]:
2020-02-20    10
2020-11-12     8
2021-06-10     4
2020-11-13     3
2020-12-10     3
2019-11-10     3
2020-11-11     3
2021-01-12     2
2020-12-25     2
2020-12-14     2
2020-09-07     2
2020-03-04     2
2020-02-06     2
2020-02-14     1
2021-01-09     1
2020-11-10     1
2020-02-09     1
2020-11-21     1
2020-08-09     1
2021-06-11     1
2020-11-15     1
2020-09-19     1
2020-08-25     1
2021-07-26     1
2020-11-28     1
2020-11-29     1
... 1
```

```
2020-02-02    1  
2021-01-20    1  
2020-12-23    1  
2020-11-20    1  
2021-01-01    1  
2021-07-21    1  
Name: date, dtype: int64
```

```
In [91]: list(abuser.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[91]: ['arielapisces',  
          'lisa_levaleebaby',  
          'marymagdalene_27',  
          'nerheeiram',  
          'jov4lyfe',  
          'andre_skywalker2005',  
          'jared_m716',  
          'gentlyhands',  
          'skseeha',  
          'reid.wilks',  
          'bby_rona',  
          'liloandstitches_',  
          'beancet42',  
          'mgkg_~',  
          'shifftychameleon',  
          'jklockk',  
          'jem.weaver',  
          'want.it.now.clothing',  
          'obeymichyydolie',  
          'amndme',  
          'multi.fandom.aesthetics',  
          'conor_longley_~',  
          'catartresse',  
          'babygirltashx',  
          'jdjazmin12',  
          'tim777',  
          'mxhaliee',  
          'lina.pulatova',  
          'macthanenace',  
          'gravesveraniego',  
          'georgebouaoun',  
          'marie_kennedyxx',  
          'archknightt',  
          'afh.zl']
```

Languages

```
In [92]: df_comments['clean_text']
```

```
Out[92]: 0      #scarlettjohansson #alexandradaddario #emiliac...  
1      very beautiful i love you very much  
2      bombon bello  
3      stunning  
4      why are you so sweet?  
      ...  
1434513      hermosa como una diosa  
1434514      truly the most beautiful sexiest lady in this ...  
1434515      damn  
1434516      beautiful  
1434517      wow  
Name: clean_text, length: 1434518, dtype: object
```

```
In [93]: df_comments['clean_text'].head(100).apply(lambda x: TextBlob(x).detect_language() if len(x) >= 3 else 'unknown').value_counts()
```

```
Out[93]: en      65  
es       8  
unknown  7  
ar       7  
fr       2  
fa       2  
pt       2  
it       2  
co       1  
su       1  
jw       1  
hu       1  
ja       1  
Name: clean_text, dtype: int64
```

Sentiment Analysis

```
In [94]: sia = SentimentIntensityAnalyzer()
```

```
In [95]: sia.polarity_scores("liar")
```

```
Out[95]: {'neg': 1.0, 'neu': 0.0, 'pos': 0.0, 'compound': -0.5106}
```

```
In [96]: top = get_top(df_comments, 'tokens', 100, 'token_of_repeated_text', 'n_coments')[1:]
```

```
In [97]: top['token_of_repeated_text'] = top['token_of_repeated_text'].map(ast.literal_eval)
```

```
In [98]: top['len'] = top['token_of_repeated_text'].map(len)
```

```
In [99]: top = top.query("len==1")
```

```
In [100]: top['sen'] = top.query("len==1").token_of_repeated_text.apply(lambda x: list(x)[0]).map(sia.polarity_scores)
```

```
In [101]:
```

```

In [101]: {'neg': 0.0, 'neu': 0.0, 'pos': 1.0, 'compound': 0.5594}

Out[101]: 

In [102]: top['neg'] = top['sen'].apply(lambda x: x['neg'])
top['pos'] = top['sen'].apply(lambda x: x['pos'])
top['neu'] = top['sen'].apply(lambda x: x['neu'])
top['compound'] = top['sen'].apply(lambda x: x['compound'])
top.drop(columns=['sen'], inplace=True)

Out[102]: 

In [103]: top.query('neg==1')

Out[103]:   token_of_repeated_text n_coments len neg pos neu compound
  45          (fuck)        988     1  1.0  0.0  0.0  -0.5423
  64          (abuser)       691     1  1.0  0.0  0.0  -0.5574
  66          (damn)        656     1  1.0  0.0  0.0  -0.4019
  67          (bitch)       635     1  1.0  0.0  0.0  -0.5859
  81          {wtf}         515     1  1.0  0.0  0.0  -0.5859

In [104]: df_comments['nltk'] = df_comments.clean_text.map(sia.polarity_scores)

In [105]: df_comments['neg'] = df_comments['nltk'].apply(lambda x: x['neg'])
df_comments['neu'] = df_comments['nltk'].apply(lambda x: x['neu'])
df_comments['pos'] = df_comments['nltk'].apply(lambda x: x['pos'])

In [106]: neg = df_comments.query("neg > 0.7")
neg.head()

Out[106]:   message      datetime      id  n_replies  n_likes      media_id  parent_id  user_id  username  is_verified ...  month  dayofmonth  date  hour
  140  damn  2021-05-26  17904712792912808      1.0      1.0  2582226441222863360      n  27603887986  kabirloveswaffles  False  ...    May      26  2021-05-26    18
  311  fuck no  2021-03-11  17908897253671416      0.0      0.0  2507566752144024576      n  42788636  chris_california_831  False  ...    Mar      11  2021-03-11    1
  449  abuser  2020-05-02  17855522417019074      0.0      0.0  2314639163877400576      n  33874114164  rashidrazarr  False  ...    Jun      2  2020-06-02    3
  450  maniac  2020-06-02  17907048154443380      0.0      0.0  2314639163877400576      n  33874114164  rashidrazarr  False  ...    Jun      2  2020-06-02    3
  470  damn  2019-10-03  17876322472443392      0.0      0.0  2145406120948505600      n  7761050186  heavenlyjclena  False  ...    Oct      3  2019-10-03    18

5 rows × 22 columns

```

```

In [107]: get_top(neg, 'tokens', 50, 'token_of_repeated_text', 'n_coments')

Out[107]:   token_of_repeated_text  n_coments
  0          set()            2303
  1          {'fuck'}           736
  2          {'damn'}           579
  3          {'bitch'}           536
  4          {'abuser'}           492
  5          {'wtf'}             430
  6          {'fake'}             325
  7          {'bitch', 'fuck'}     211
  8          {'disgusting'}        206
  9          {'hell'}              161
  10         {'gross'}             147
  11         {'amber', 'fuck'}     137
  12         {'hote'}              125
  13         {'iar'}               121
  14         {'fire'}              113
  15         {'shit'}              108
  16         {'ugly'}               96
  17         {'cunt'}               95
  18         {'badass'}              90
  19         {'crazy'}              80
  20         {'vick'}               79

```

21	{'boring'}	79
22	{'holy', 'shit'}	71
23	{'sad'}	70
24	{'ugh'}	68
25	{'horrible'}	66
26	{'meh'}	60
27	{'lies'}	53
28	{'boycott'}	52
29	{'poor', 'johnny'}	51
30	{'disagree'}	49
31	{'bitch', 'fucking'}	48
32	{'whore'}	48
33	{'sucks'}	46
34	{'stupid'}	46
35	{'stop'}	45
36	{'baby', 'poor'}	44
37	{'ass'}	44
38	{'dead'}	44
39	{'evil'}	43
40	{'crying'}	43
41	{'poor', 'child'}	42
42	{'terrible'}	42
43	{'witch'}	41
44	{'damn', 'hot'}	39
45	{'amberheard', 'fuck'}	39
46	{'crazy', 'bitch'}	38
47	{'dick'}	37
48	{'nasty'}	36
49	{'lame'}	35

In [108]: neg.username.value_counts()

```
Out[108]: murphyderlene    54
pimp_tee41      46
hosein.sersam    25
vincentantonygah1  21
marymagdalene_27  21
..
hamid_hrh       1
lucytherittlecalico  1
mlynasalviano    1
dukesh_schnei    1
vaneyanezleiva   1
Name: username, Length: 14582, dtype: int64
```

In [109]: neg

		message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month
140		damn❤️🔥	2021-05-18:20:41	17904712792912008	1.0	1.0	2502226441222863360		n_27603887986	kebirloveswaffles	False	..	May
311		fuck no!	2021-03-01:14:12	17908887253671416	0.0	0.0	2507566752144024576		n_42788636	chris_california_831	False	..	Mar
449		abuser	2020-06-03:33:14	17855522417019074	0.0	0.0	2314639163877400576		n_33874114164	rashidrazaarr	False	..	Jun
450		maniac	2020-06-03:33:26	17907048154443380	0.0	0.0	2314639163877400576		n_33874114164	rashidrazaarr	False	..	Jun
470		damn👉	2019-10-10:23:17	17876322472443302	0.0	0.0	2145406120948505600		n_7761050186	heavenlyjelena	False	..	Oct
1434245	
1434316	@carolinrichardson2	bad bunny	2021-02-04:23:54:14	17874945044136934	0.0	0.0	2501045780046403072		n_3206506992	refaeomoss	False	..	Feb
1434388	ridiculous 😂	...	2021-02-04:21:55:01	18181478053068344	NaN	0.0	2501045780046403072	18190860831034288	7900091665	anki1612	True	..	Feb
1434388	pwolikku freaky❤️	...	2018-10-09:31:09	17964948715143384	0.0	1.0	1894877819029241600		n_7005260670	anoop_yadavu	False	..	Oct

143441	fuck you bitch go to hell #justiceforjohnnydepp	2020-04-15 06:12:53	17879018464594864	0.0	2.0	2287184439750218496	n	28958908275	sexion31	False	..	Apr
1434515	damn	2021-06-04 02:54:43	17917284615672022	0.0	0.0	2587873259499131904	n	185358236	jpmjg	False	..	Jun

16856 rows × 22 columns

```
In [110]: neg[neg.tokens.str.contains(r'amber')]
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	dayofmonth	dat
1939	amber shit	2021-02-04 11:32:50	17882188013023344	0.0	0.0	2501470194445040128	n	4614822272	mhhch	False	..	Feb	4	2021-02-0
9480	fuck amber	2020-09-06 02:50:31	17877845062810768	0.0	0.0	2390110189421393920	n	3980632071	jess_the_mess77	False	..	Sep	6	2020-09-0
18334	i hate amber	2020-07-06 09:09:36	17872784506811200	2.0	2.0	2346596933296266752	n	36883362954	johnnydepp_fan1jd	False	..	Jul	6	2020-07-0
18376	@amberheard fuck u bitch	2020-07-05 18:00:31	17852571080106452	0.0	0.0	2346596933296266752	n	36392220999	sherlockfanzone	False	..	Jul	5	2020-07-0
19164	fuck amber	2021-08-09 12:13:23	17897092082298220	0.0	0.0	261084080094475136	n	12734794317	raha1379f	False	..	Aug	9	2021-08-0
1401194	fu amber	2020-07-23 00:32:09	17857020359092794	0.0	1.0	2359083540417979368	n	17652296508	h.o.s.e.n.82	False	..	Jul	23	2020-07-0
1405709	wtf bitch ? @amberheard	2020-12-15 15:36:04	18048132517279692	0.0	0.0	2459030980178097152	n	3882185411	alirez_w_ft	False	..	Dec	15	2020-12-0
1415519	hell to the yes!!! fuck that cunt @amberheard	2020-06-04 05:41:51	17843569601200772	0.0	0.0	2323465097073564872	n	182133842	blancanieves4	False	..	Jun	4	2020-06-0
1427306	fuck amber	2020-09-07 23:28:55	17937578911390640	0.0	0.0	2393053123253973504	n	2957662025	blacknwhite_wishes	False	..	Sep	7	2020-09-0
1430210	bitch amber	2020-10-01 20:55:07	17939090365394258	0.0	0.0	2409695112801921024	n	28671185739	mje681	False	..	Oct	1	2020-10-0

524 rows × 22 columns

```
In [111]: neg[neg.tokens.str.contains(r'amber')].username.value_counts()
```

dana_milash	14
depftime_	8
marymagdalene_27	5
val.verhoeff	4
natchayaleejin	3
..	
toyibaxo	1
grandpas_lost_wheelchair	1
sed_nibble17	1
goddess_de1_rey_	1
roswithaewald	1
Name: username, Length: 472, dtype: int64	

```
In [112]: neg[neg.tokens.str.contains(r'amber')].tokens.value_counts()
```

```

Out[112]: 
{'hate': 1000}
{'amberheard', 'fuck'}
{'kill', 'amber'}
{'hate', 'amber'}
{'bitch', 'amber'}
{'scumbag', 'domestic', 'amber', 'turd', 'abusing'}
{'make', 'suffer', 'wht', 'domestic', 'amber', 'ass', 'bitch', 'violence', 'johny', 'fuck'}
{'disgusting', 'abuser', 'amber', 'heard'}
{'lying', 'amberheard'}
{'nasty', 'amber'}
Name: tokens, Length: 185, dtype: int64

```

```
In [113]: neg[neg.tokens.str.contains(r'dep')].tokens.value_counts()
```

```

Out[113]: 
{'bitch', 'justiceforjohnnydepp', 'fuck'}      9
{'abuser', 'justiceforjohnnydepp'}               6
{'kill', 'amber', 'justiceforjohnnydepp'}         3
{'bitch', 'justiceforjohnnydepp'}               3
{'liar', 'justiceforjohnnydepp'}                 3
...
{'waste', 'justiceforjohnnydepp', 'evil', 'space'} 1
{'justiceforjohnnydepp', 'bullshit'}              1
{'johnny', 'hate', 'johnnydepp', 'love', 'poor'}   1
{'bitch', 'abused', 'johnny', 'depp'}              1
{'justiceforjohnnydepp', 'little', 'whore', 'coward'} 1
Name: tokens, Length: 66, dtype: int64

```

```
In [114]: neg['datetime'] = pd.to_datetime(neg["datetime"])
```

```
In [115]: neg = neg.sort_values("datetime")
```

```
In [116]: neg[neg.tokens == "{'amber', 'fuck'}"].datetime.diff().dt.components.iloc[:, 0:3].query('days==0 and hours == 0')
```

```

Out[116]: 
    days hours minutes
1344623 0.0 0.0 1.0
376056 0.0 0.0 200
89096 0.0 0.0 0.0
1357662 0.0 0.0 570
1259490 0.0 0.0 31.0
900111 0.0 0.0 53.0

```

```

In [119]: 
neg["datetime"] = pd.to_datetime(neg["datetime"])
neg = neg.sort_values("datetime")
neg["diff"] = neg.datetime.diff()
neg = pd.concat([neg, neg["diff"].dt.components.iloc[:, 0:3]], axis=1)

```

```
In [120]: neg.head()
```

```

Out[120]: 
   message      datetime          id n_replies n_likes media_id parent_id user_id   username is_verified ... clean_text token
1010484      fake 2016-11-24 17844671281151890     0.0     0.0 1389984234218743040      n 2049928720 umadbro_okay  False ...      fake {'fake'}
578188 @87eomma 2017-11-20 17912895229037640    NaN     1.0 1652293776704360704 17902744924068104 316472313 dameriqac  True ... @87eomma dead! {'dead' 
       dead! 😊😊 18:19:55
250843      very 2018-03-05 17910399265069244     0.0     0.0 1728361924450930432      n 6640469970 s_j_sachin  False ...      very dangers {'dangers'
599334      savage 2018-03-13 17930108311017120     0.0     0.0 1733766274968111104      n 313841074 wthomas80  False ... savage 101 {'savage' 
        101
599336      dead 2018-03-13 17902420786157408     0.0     0.0 1733766274968111104      n 5682117369 Skyrah_  False ...      dead {'dead'
       😊💀 03:49:17

```

5 rows × 26 columns

```

In [124]: get_top(neg, 'tokens', 50, 'token_of_repeated_text', 'n_comments')[1:]

```

```

Out[124]: 
   token_of_repeated_text  n_comments
1          {'fuck'}           736
2          {'damn'}            579
3          {'bitch'}            536
4          {'abuser'}            492
5             {'wtf'}            430
6             {'fake'}            325
7          {'bitch','fuck'}        211
8          {'disgusting'}          206
9             {'hell'}            161

```

10	{'gross'}	147
11	{'ambo'r', 'fuck'}	137
12	{'hete'}	125
13	{'lair'}	121
14	{'fire'}	113
15	{'shit'}	108
16	{'ugly'}	96
17	{'cunt'}	95
18	{'badass'}	90
19	{'crazy'}	80
20	{'sick'}	79
21	{'bullshit'}	76
22	{'holy', 'shit'}	71
23	{'sad'}	70
24	{'ugh'}	68
25	{'horrible'}	66
26	{'meh'}	60
27	{'lie'}	53
28	{'boycott'}	52
29	{'poor', 'johnny'}	51
30	{'disagree'}	49
31	{'whore'}	48
32	{'bitch', 'fucking'}	48
33	{'sucks'}	46
34	{'stupid'}	46
35	{'stop'}	45
36	{'ass'}	44
37	{'baby', 'poor'}	44
38	{'dead'}	44
39	{'crying'}	43
40	{'evil'}	43
41	{'terrible'}	42
42	{'poor', 'child'}	42
43	{'witch'}	41
44	{'amberheard', 'fuck'}	39
45	{'damn', 'hot'}	39
46	{'crazy', 'bitch'}	38
47	{'dick'}	37
48	{'nasty'}	36
49	{'shit', 'oh'}	35

```
In [125]: bar(get_top(neg, 'tokens', 10, 'token_of_repeated_text', 'n_comments')[1:], 'token_of_repeated_text', 'n_comments', 'a')
```

fuck

- f*ck
- damn
- b*tch
- abuser
- wtf
- disgusting
- hell

```
In [126]: fuc = SameText(df_comments, "{'fuck'}")
```

```
In [127]: fuc.head(2)
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	dayofmonth	date	hour
311	fuck no!	2021-03-11 01:14:12	17908887253671416	0.0	0.0	2507566752144024576	n	42788636	chris_california_831	False	...	Mar	11	2021-03-11	1
6707	fuck	2018-03-24 18:37:00	17927802805067942	0.0	0.0	1741639216007327744	n	4134100562	mannydworld	False	...	Mar	24	2018-03-24	18

2 rows × 22 columns

```
In [128]: fuc.n_comments_unique()
```

This comment appeared in 384 shape

```
In [129]: fuc.shapes(15)
```

```
Out[129]:
```

message	n
fuck her	165
fuck	80
fuck no	75
fuck you	63
fuck off	47
what the fuck	39
fuck that	17
fuck u	15
fuck her.	9
fuck no!	8
fuck it	7
fuck this	6
the fuck?	5
fuck her!	5
fuck 🐶	5

Name: message, dtype: int64

```
In [130]: fuc.dates()
```

```
Out[130]:
```

date	n
2020-11-13	48
2020-11-24	19
2020-11-14	19
2020-12-14	19
2020-11-23	18
..	
2020-07-15	1
2019-01-02	1
2021-06-30	1
2020-06-02	1
2020-05-21	1

Name: date, Length: 427, dtype: int64

```
In [131]: fuc.peak(6)
```

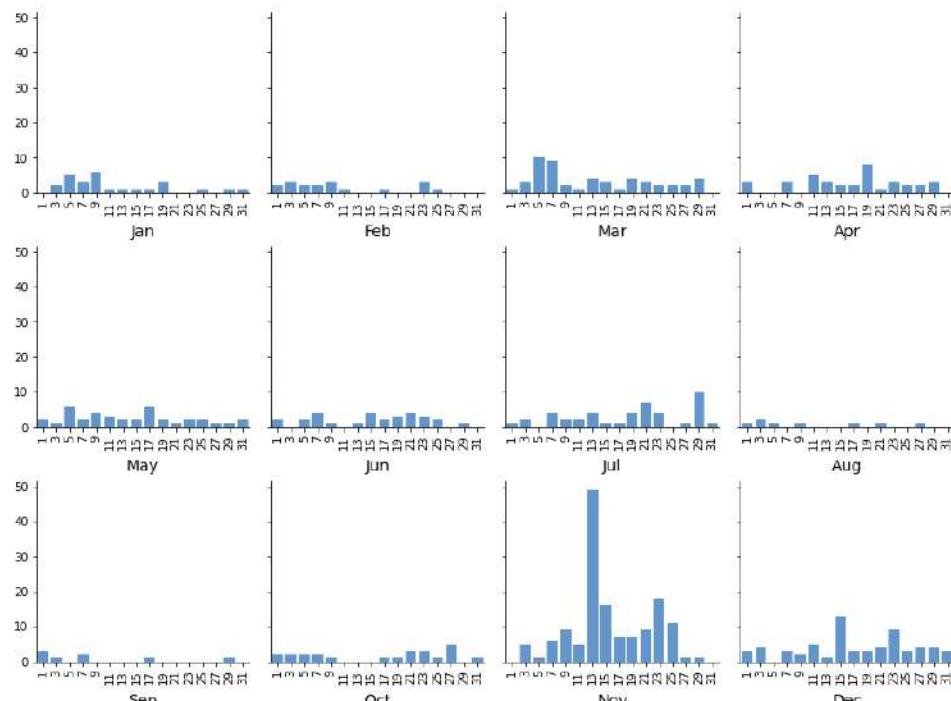
```
In [132]: fuc.date_info()
```

The comments were made between 2018-03-14 and 2021-08-06

n_comments

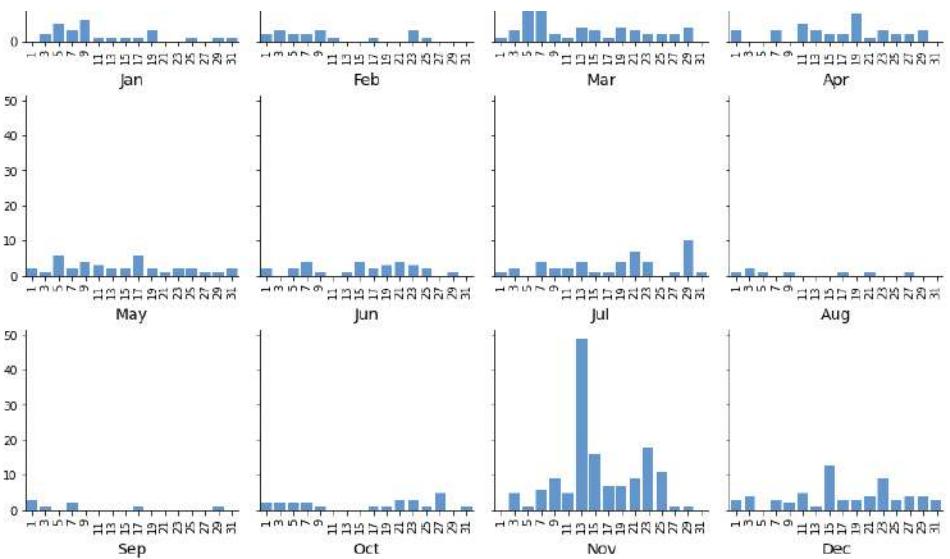
year	n_comments
2018	116
2019	86
2020	580
2021	206

Comments Created in Each Day of 2021

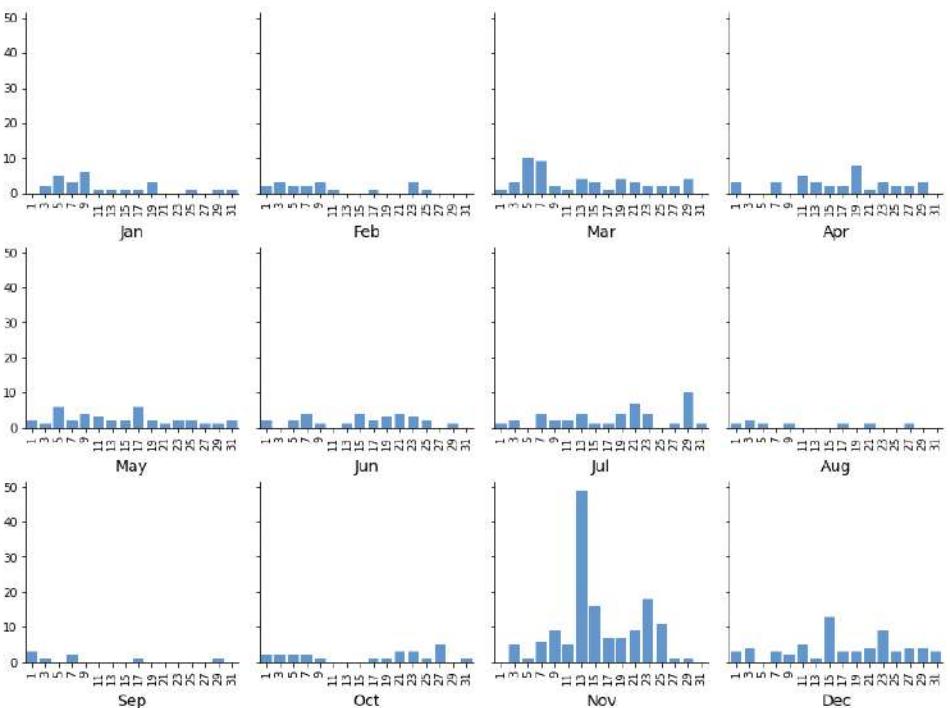


Comments Created in Each Day of 2018

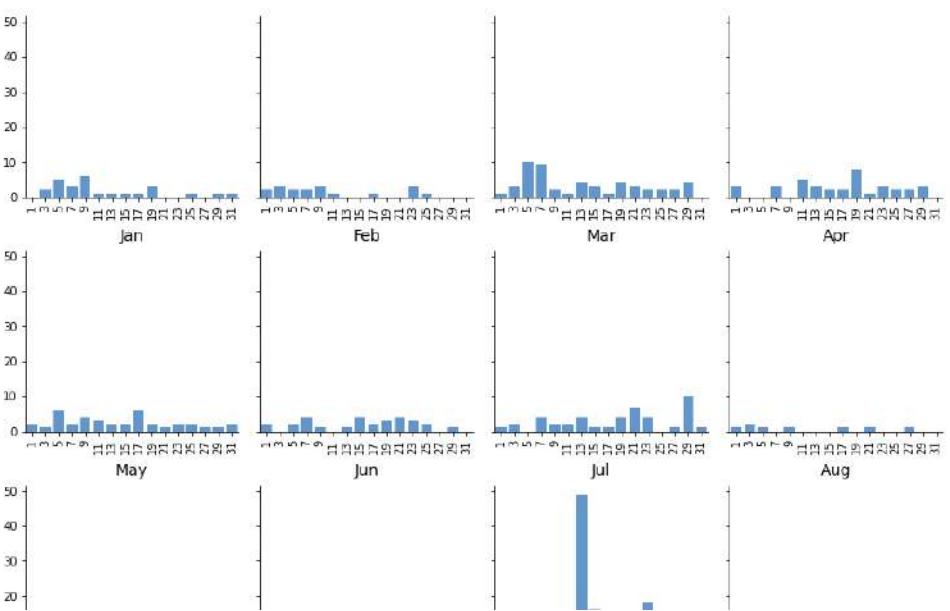


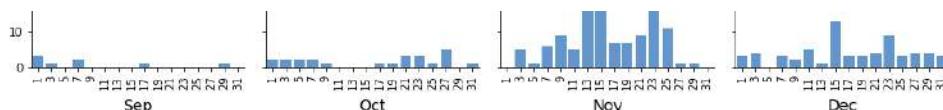


Comments Created in Each Day of 2020



Comments Created in Each Day of 2019





In [134]: `fuc,df_timing().query(' days == 0 and hours == 0 and minutes == 0')`

		message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...
703998		fuck this.no.	2018-07-30 15:21:32	17944113784085700	0.0	1.0	1834884415730529024	n	4002550560	just.dc.comics	False	...
1247110		fuck	2019-02-04 06:31:55	17856355063328028	0.0	1.0	1971465053200510976	n	6291112232	mystical_petrova	False	...
1294808		what the fuck😊	2020-07-08 19:45:53	17850358628163166	0.0	0.0	2348863105612431872	n	27222255411	bieberdepp	False	...
613643		fuck you	2020-07-29 09:04:09	17848061804236980	0.0	0.0	2358886038704110592	n	4521967692	anthony.apel	False	...
613644		fuck you	2020-07-29 09:04:13	18154117582033700	0.0	0.0	2358886038704110592	n	4521967692	anthony.apel	False	...
613645		fuck her	2020-07-29 09:04:14	18146180068069228	0.0	0.0	2358886038704110592	n	4521967692	anthony.apel	False	...
993275		fuck u	2020-08-24 20:22:30	17864863436020180	0.0	0.0	2376909184569769472	n	38713622568	lonechamim_official	False	...
662768		fuck	2020-10-01 02:17:16	17840737325367284	0.0	0.0	2385017715847743488	n	42829694287	sara22wsip	False	...
701880		what the fuck	2020-11-13 00:50:42	17859633350266608	0.0	6.0	2441092489643747840	n	5908213152	dantepetrella	False	...
701712		fuck em then	2020-11-13 01:47:12	17861091788236036	0.0	0.0	2441092489643747840	n	2242147210	cali2approv3d	False	...
701583		fuck off	2020-11-13 02:31:57	17872769942044344	0.0	0.0	2441092489643747840	n	5442472631	fuckfaza	False	...
760857		fuck her.	2020-11-13 04:26:06	18083247421223620	0.0	0.0	2441077924264353024	n	209891236	allison_overby	False	...
914045		fuck them all	2020-11-18 19:53:15	17887349302748090	0.0	0.0	2440271583151053312	n	42678021336	mobin.motammed	False	...
112332	@marie_kennedyxx	fuck you 🤦‍♂️	2020-11-28 19:48:27	17898631102653604	NaN	20.0	2452374813564394496	17855447234337772	44740145042	andmen.1998	True	...
112374	@chainesaw	fuck you 🤦‍♂️	2020-11-28 23:45:21	18087853030212200	NaN	6.0	2452374813564394496	18122055026157424	44740145042	andmen.1998	True	...
425802		fuck her	2020-12-14 21:38:37	18140481685100244	0.0	0.0	2464164719269089280	n	13851127947	_adnaan_	False	...
425729		fuck no!	2020-12-14 22:37:01	17870485409087792	0.0	0.0	2464164719269089280	n	2304110027	twoguysoneticket1	False	...
991367		fuck her	2021-03-05 12:18:28	18099528481216076	0.0	0.0	2522523773284904960	n	22882154082	hoseinsarsam	False	...
6994		fuck her	2021-03-05 13:49:51	17871214958259696	0.0	1.0	2522478876649482140	n	22882154082	hoseinsarsam	False	...
1221672		fuck her	2021-03-07 10:35:13	18201483151008880	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...
1221673		fuck her	2021-03-07 10:35:15	17905882305696276	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...

1221674	fuck her	2021-03-07 10:35:10	18108701020203168	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...
1221675	fuck her	2021-03-07 10:35:20	17916847903591194	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...
1221676	fuck her	2021-03-07 10:35:22	17926131598522820	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...
1221678	fuck her	2021-03-07 10:35:29	17958452857396076	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...
1221679	fuck her	2021-03-07 10:35:32	17863595828356298	0.0	0.0	2523782465302103552	n	22882154082	hoseinsarsam	False	...
762531	fuck her	2021-03-19 22:42:45	17863341371491268	0.0	0.0	2532794910547761152	n	22882154082	hoseinsarsam	False	...
384425	fuck her	2021-04-02 18:01:02	18063027670282768	0.0	0.0	2542376551300517376	n	22882154082	hoseinsarsam	False	...
135667	fuck her	2021-04-11 06:34:44	17944661560460100	0.0	0.0	2545251427037387264	n	22882154082	hoseinsarsam	False	...
135668	fuck her	2021-04-11 06:34:47	18054826297305156	0.0	0.0	2545251427037387264	n	22882154082	hoseinsarsam	False	...
832585	fuck her	2021-04-14 18:54:29	17870368103483040	0.0	0.0	2550378315439159296	n	22882154082	hoseinsarsam	False	...
832586	and again fuck her	2021-04-14 18:54:44	18155215105182976	0.0	0.0	2550378315439159296	n	22882154082	hoseinsarsam	False	...
1031911	fuck you	2021-05-26 08:06:14	17901129472965214	0.0	1.0	2581266956676920832	n	18273664838	call.me.chelse	False	...
872920	fuck you @angel_amber_heard	2021-07-22 21:47:46	18020789368310488	0.0	1.0	2623432508656555008	n	5420098672	thealifaryan	False	...
34 rows × 26 columns											

```
In [135]: len(fuc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
Out[135]: 17

In [136]: fuc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
Out[136]:
hosein.sarsam      15
anthony.apel       3
andmen.1998        2
mobina.n.motammed  1
twoguysoneticket1  1
sara22wslp         1
call.me.chelse     1
mystical_petrova   1
bieberdepp         1
calizapprov3d      1
dantepetrella     1
_.adnaoen          1
loneshamim_officiel 1
allison_overby     1
thealifaryan       1
just.dc.comics      1
fuckfaza           1
Name: username, dtype: int64

In [137]: fuc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
Out[137]:
2021-03-07      7
2020-11-13      4
2020-07-29      3
2021-04-11      2
2021-04-14      2
2021-03-05      2
2020-11-28      2
2020-12-14      2
2020-11-18      1
2018-07-30      1
2020-08-24      1
2021-05-26      1
2020-07-08      1
2020-10-01      1
2021-03-19      1
----- 1
```

```
2019-02-04 1  
2021-07-22 1  
2021-04-02 1  
Name: date, dtype: int64
```

```
In [138]: list(fuc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[138]: ['hossein.serson',  
          'anthony.apel',  
          'andnen.1998',  
          'mobina.n.motammed',  
          'twoguysoneticket1',  
          'sara22wsip',  
          'call.me.chelse',  
          'mystical_petrova',  
          'bieberdepp',  
          'calizapprov3d',  
          'dantepetrella',  
          '_adnaeon_1',  
          'loneshamim_official',  
          'allison_overby',  
          'thealiferyan',  
          'just_dc.comics',  
          'fuckfazai']
```

damn

- f*ck
- damn
- b*tch
- abuser
- wtf
- disgusting
- hell

```
In [140]: dam = SomeText(df_comments, "{'damn'}")
```

```
In [147]: dam.head(2)
```

```
Out[147]: message datetime id n_replies n_likes media_id parent_id user_id username is_verified ... month dayofmonth date hour d  
140 damn 2021-05-26 17904712792912808 1.0 1.0 256222644122263360 n 27603887986 kabirloveswaffles False ... Mey 26 2021-05-26 18  
470 damn 2019-10-03 17876322472443392 0.0 0.0 2145406120948505600 n 7761050186 heavenlyjelena False ... Oct 3 2019-10-03 18
```

2 rows × 22 columns

```
In [148]: dam.n_comments.unique()
```

This comment appeared in 286 shape

```
In [150]: dam.shapes(15)
```

```
Out[150]: damn 155  
damn😊 32  
damn! 32  
damn!!! 31  
damn!! 23  
damn🔥 11  
damn it 11  
damn!!!! 10  
damn 🥰 8  
damn. 8  
damn🔥 8  
damn🔥🔥 7  
damn❤️ 7  
damn... 5  
damn🔥 5  
Name: message, dtype: int64
```

```
In [151]: dam.dates()
```

```
Out[151]: 2021-04-24 7  
2021-06-17 7  
2018-07-21 6  
2018-07-19 5  
2019-08-26 5  
...  
2018-12-08 1  
2021-01-19 1  
2020-08-31 1  
2020-12-17 1  
2020-05-21 1  
Name: date, Length: 433, dtype: int64
```

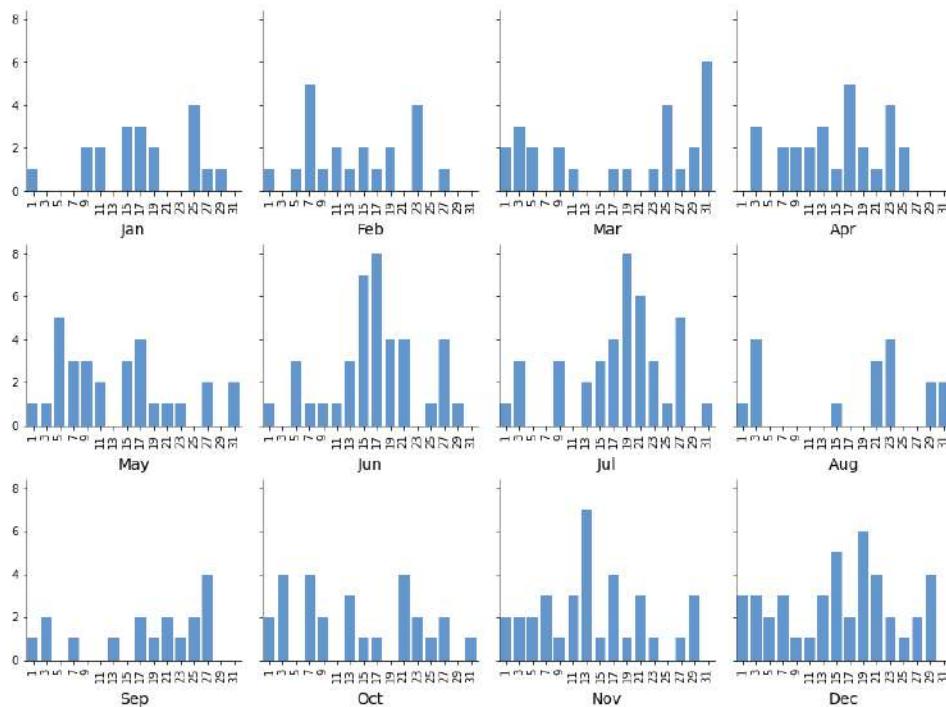
```
In [152]: dam.peak(6)
```

```
In [153]: dam.date_info()
```

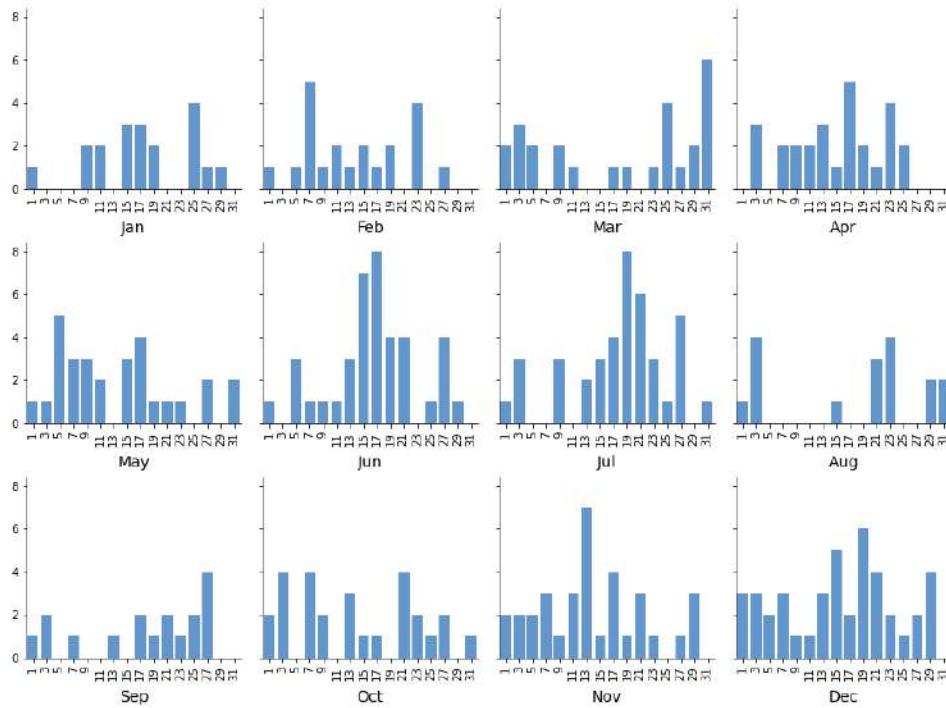
```
The comments were made between 2018-03-23 and 2021-07-31  
n_comments
```

year	
2018	89
2019	181
2020	199
2021	187

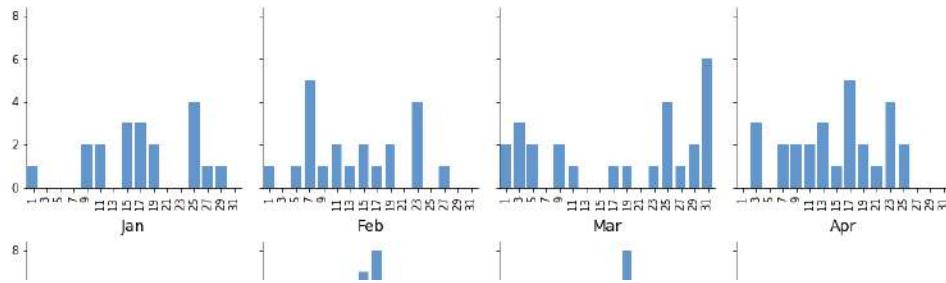
Comments Created in Each Day of 2021

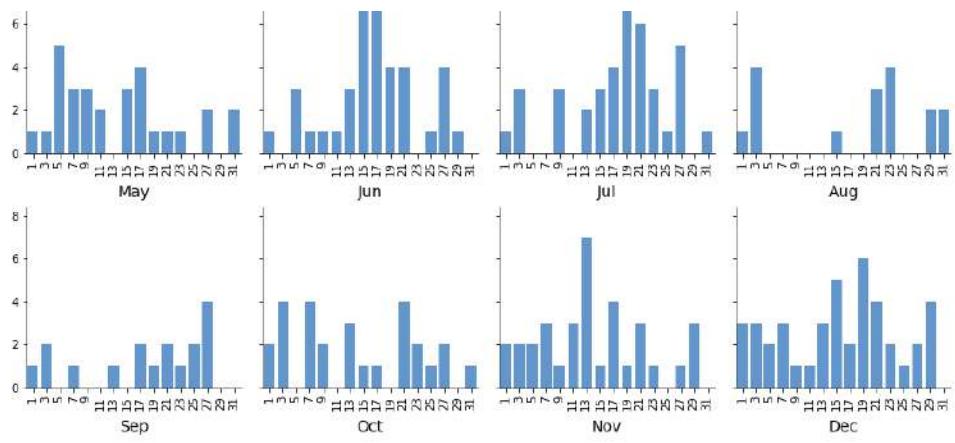


Comments Created in Each Day of 2019

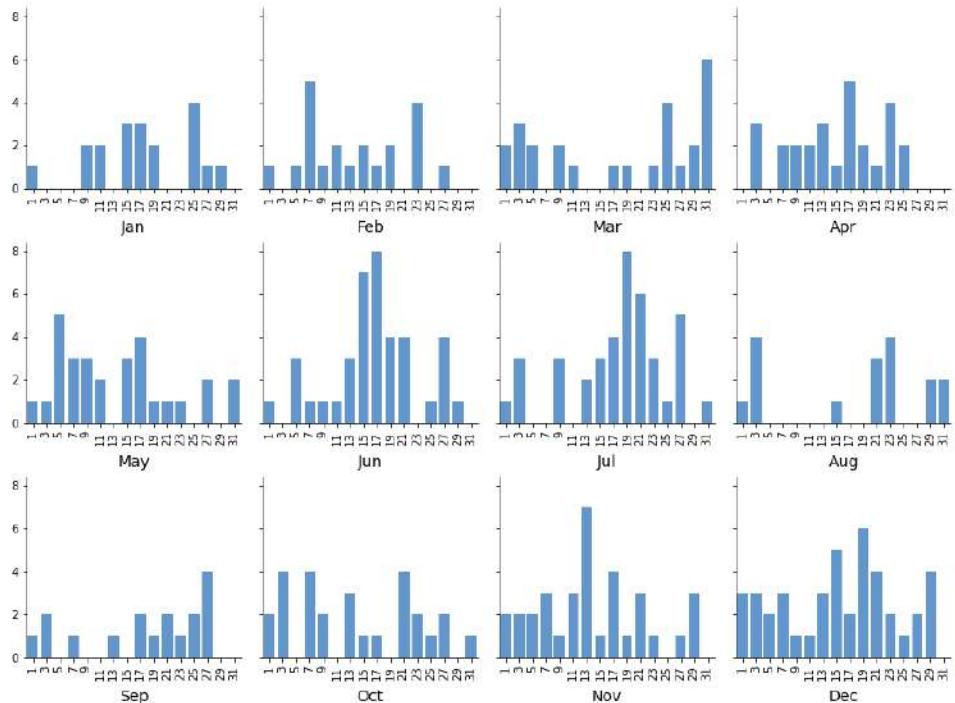


Comments Created in Each Day of 2020





Comments Created in Each Day of 2018



```
In [154]: dam.df_timing().query(' days == 0 and hours == 0 and minutes == 0')
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	clean_text	tokens
921381	damn 😐	2019-08-23 02:28:13	17847697072575450	0.0	0.0	2116175918099971840	n	2520475284	murphydariene	False	...	damn ('damn')	'cor'
63039	damn 😐	2019-08-23 02:20:26	18069760936127024	0.0	0.0	2116236254990483200	n	2520475284	murphydariene	False	...	damn ('damn')	'cor'
713769	damn 😐	2019-08-26 21:34:34	18085860214075028	0.0	0.0	2119125347741580288	n	2520475284	murphydariene	False	...	damn ('damn')	'cor'
1346318	damn 😐	2019-08-26 21:34:50	17847703870572424	0.0	0.0	2118621731704006656	n	2520475284	murphydariene	False	...	damn ('damn')	'cor'
166416	damn 😐	2019-08-26 21:35:02	17086231325395592	0.0	0.0	2119014510009362176	n	2520475284	murphydariene	False	...	damn ('damn')	'cor'
568069	damn 😐	2019-10-07 19:04:57	17845763281684488	0.0	0.0	2149515647142236672	n	2520475284	murphydariene	False	...	damn ('damn')	'cor'
877631	damn 😐	2019-10-30 01:18:28	17862478123547150	0.0	0.0	2165460674758409216	n	2520475284	murphydariene	False	...	damn ('damn')	'cor'
173323	damn	2021-04-19 20:14:58	17893334963046400	NaN	0.0	2555461911735053824	17934099157511292	15048936134	jijoutsi	True	...	damn ('damn')	'cor'

836719	damn!!!	2021-04-24 19:48:57	1790588255810280	0.0	0.0	2553322805699350016	n 37232190897	pimp_tee41	False ...	damn!!!	{'damn!'}	'cor
647391	damn!	2021-04-24 19:49:15	17924095033596504	0.0	0.0	2549752607910161920	n 37232190897	pimp_tee41	False ...	damn!	{'damn!'}	'cor
382088	damn!!!	2021-04-24 19:49:31	17853076661542718	0.0	0.0	2548248905013638656	n 37232190897	pimp_tee41	False ...	damn!!!	{'damn!'}	'cor
1013027	damn!	2021-04-24 19:49:39	17904046129796264	0.0	0.0	2546799721467263488	n 37232190897	pimp_tee41	False ...	damn!	{'damn!'}	'cor
972929	damn!	2021-04-24 19:50:03	18041495896294852	0.0	0.0	2541654650061086208	n 37232190897	pimp_tee41	False ...	damn!	{'damn!'}	'cor
216662	damn	2021-07-03 18:40:17	17883076556299896	0.0	1.0	2609356370015515136	n 3508816804	stevesaitta	False ...	damn	{'damn!'}	'cor

14 rows × 26 columns

```
In [155]: len(dam.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[155]: 4
```

```
In [156]: dam.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[156]: murphydarlene    7
pimp_tee41      5
jjjouts1       1
stevesaitta     1
Name: username, dtype: int64
```

```
In [157]: dam.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[157]: 2021-04-24    5
2019-08-26    3
2019-08-23    2
2021-07-03    1
2019-10-30    1
2019-10-07    1
2021-04-19    1
Name: date, dtype: int64
```

```
In [160]: list(dam.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[160]: ['murphydarlene', 'pimp_tee41', 'jjjouts1', 'stevesaitta']
```

b*tch

- f*ck
- damn
- b*tch
- abuser
- wtf
- disgusting
- hell

```
In [161]: bc = SameText(df_comments, "{bitch}")
```

```
In [162]: bc.head(2)
```

	message	datetime		id	n_replies	n_likes		media_id	parent_id		user_id	username	is_verified	...	month	dayofmonth	date	hour	clear
2007	⌚bitch	2020-05-12:33:49		18108118336137032	0.0	0.0		2318954103417754624	n 28017117210		fati_elf		False ...	May	28	2020-05-28	12		
13241	bitch	2020-10-21:14:21		18121283734084804	0.0	0.0		2410871684390144512	n 21224014173		anel_d2234		False ...	Oct	2	2020-10-02	21		

2 rows × 22 columns

```
In [163]: bc.n_comments_unique()
```

This comment appeared in 204 shape

```
In [164]: bc.shapes(15)
```

```
Out[164]: bitch          305
what a bitch           25
she is a bitch         12
she's a bitch          11
```

```
such a b**ch      44
this bitch       10
such a bitch      9
bitch.          8
that bitch       6
a bitch          6
she's a bitch    6
bitch!          6
the bitch        4
bitch...         4
she is bitch     4
die bitch        4
Name: message, dtype: int64
```

```
In [165]: bc.dates()
```

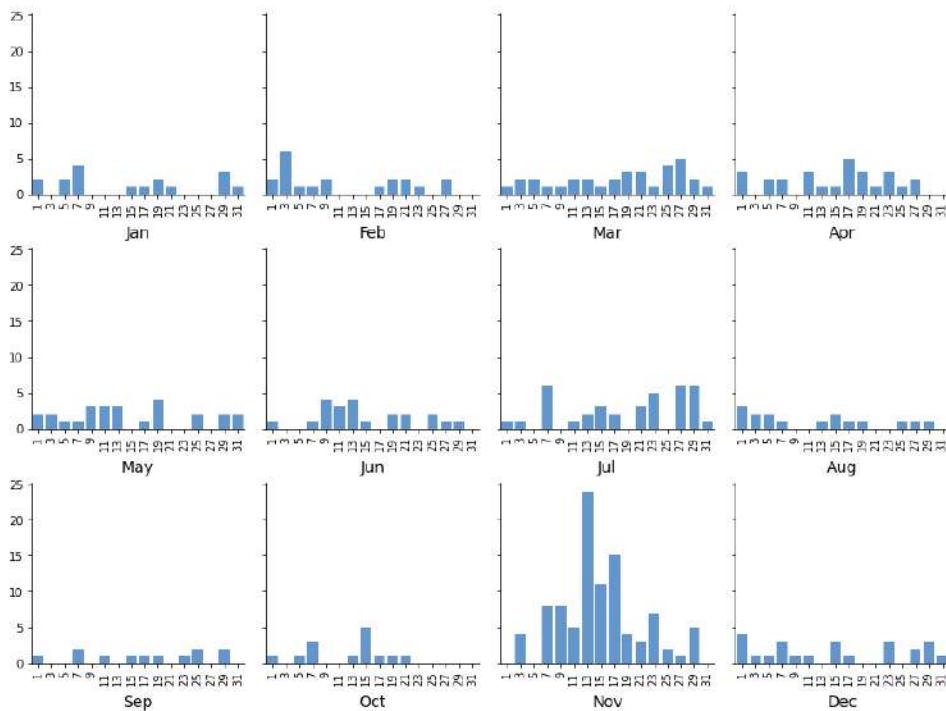
```
Out[165]: 2020-11-13    24
2020-11-10    18
2020-11-17    15
2020-11-14    14
2020-11-15    11
...
2021-02-28     1
2020-10-21     1
2021-01-31     1
2019-10-19     1
2020-03-22     1
Name: date, Length: 350, dtype: int64
```

```
In [166]: bc.peak(6)
```

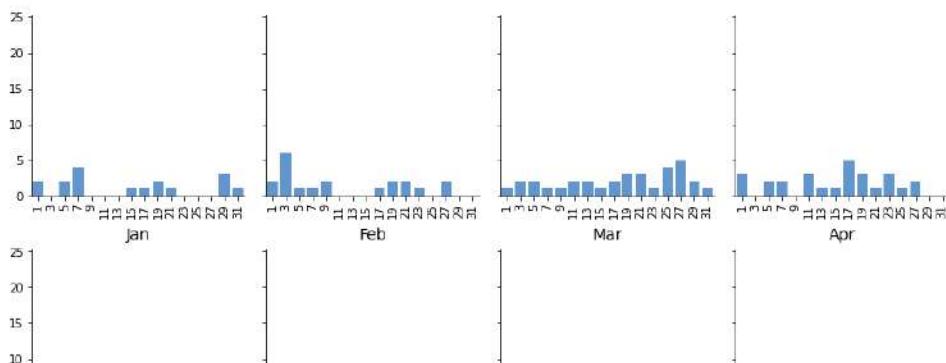
```
In [167]: bc.date_info()
```

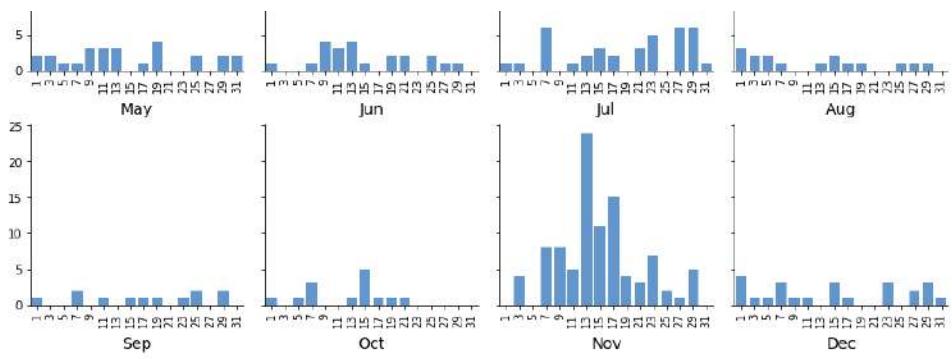
```
The comments were made between 2018-03-15 and 2021-07-27
   n_comments
year
2018      24
2019      49
2020     439
2021    123
```

Comments Created in Each Day of 2020

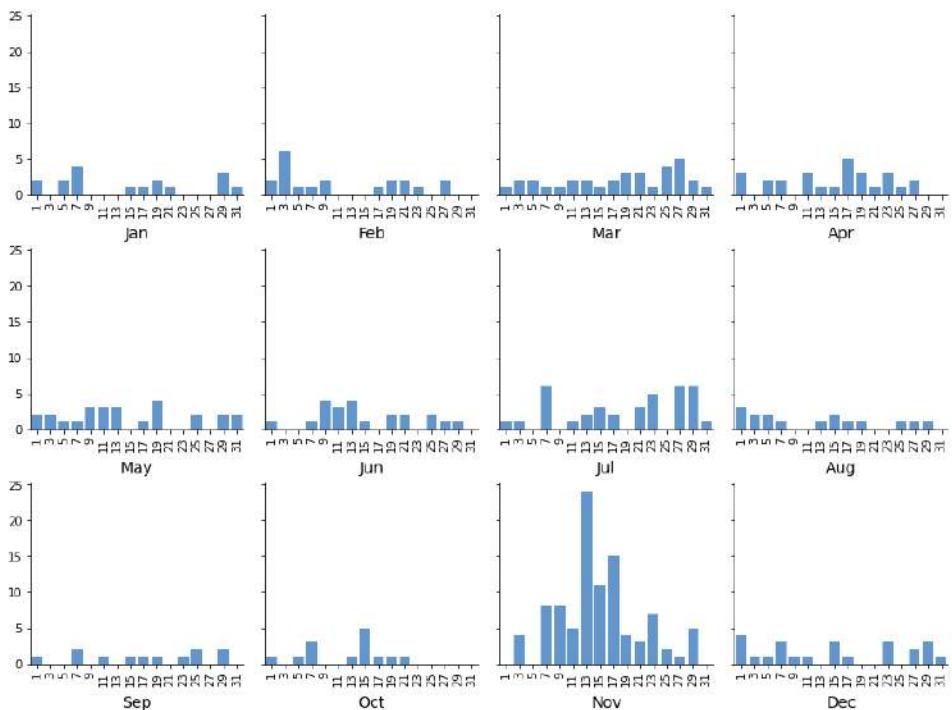


Comments Created in Each Day of 2019

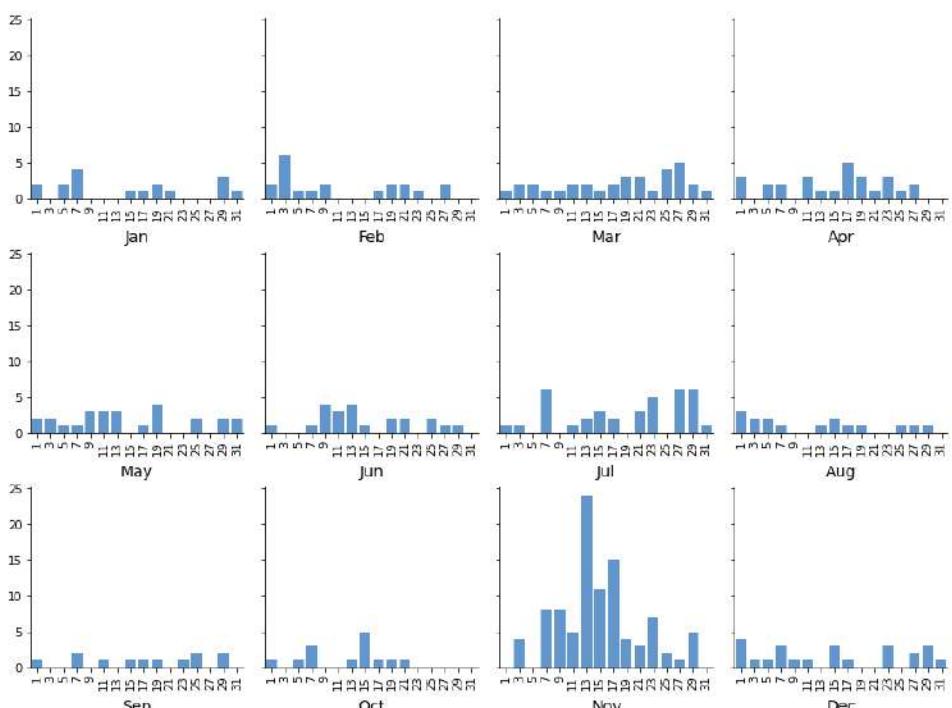




Comments Created in Each Day of 2021



Comments Created in Each Day of 2018



```
In [165]: bc.df_timing().query(' days == 0 and hours == 0 and minutes == 0')
```

```
Out[165]: message datetime      id  n_replies  n_likes  media_id  parent_id    user_id  username  is_verified ... clean_text tokens
```

1229089	bitch	2019-03-08 17:26:20	18026222042118680	0.0	0.0	1985009904046877440	n	5939912790	fan_page_johnny_depp_	False	...	bitch	{'bitch'}	{'neg' 'neu' 'pol: 'comp'}
501768	bitch	2019-03-08 17:26:37	17977972680210946	0.0	1.0	1985668774775715584	n	5939912790	fan_page_johnny_depp_	False	...	bitch	{'bitch'}	{'neg' 'neu' 'pol: 'comp'}
522123	she is very bitch ⬆️ ⬇️ ➡️ ⬅️	2020-04-08 01:34:53	17852263517952664	0.0	0.0	2282245534171745536	n	17436168751	trolljuve	False	...	she is very bitch	{'bitch'}	{'neg' 'neu: 'pol: 'ci'}
487558	bitch	2020-05-16 03:22:55	17865379399080328	0.0	0.0	2309968291977200128	n	6808785154	adamelesharkwy_bigz	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
651021	bitch	2020-08-06 20:14:50	17890045375612116	0.0	0.0	2367574519165341696	n	16846227655	lazy.star.arts	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
1137802	she's a bitch	2020-11-08 21:39:57	17872490417046656	0.0	0.0	2437740775658571776	n	8450281000	kiranstauch	False	...	she's a bitch	{'bitch'}	{'neg' 'neu: 'pol: 'ci'}
330085	bitch	2020-11-10 17:34:48	17877023923958774	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
330086	bitch	2020-11-10 17:34:49	17914249486492694	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
330087	bitch	2020-11-10 17:34:51	17868838523068712	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
330088	bitch	2020-11-10 17:34:53	18016508680288180	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
330089	bitch	2020-11-10 17:34:54	17866190621142328	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
330090	bitch	2020-11-10 17:34:55	17976942970324236	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
330091	bitch	2020-11-10 17:34:57	17908588768532734	0.0	0.0	2437721879497038336	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
981573	bitch	2020-11-10 17:37:07	17869464563101996	0.0	0.0	2439421207701709824	n	2926711002	florachirico	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
486665	bitch	2020-11-13 18:08:26	18108726945169616	0.0	14.0	2441542982908089856	n	5743398975	matnash8506	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
1276495	bitch	2020-11-14 02:07:47	17889153793737400	0.0	0.0	2441737730657456640	n	2987294245	kudzmaboss	False	...	bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}
414486	a bitch	2021-01-06 12:32:49	17867581637261956	0.0	0.0	247096713130535424	n	44990918295	hamidreza66_rezaipoor	False	...	a bitch	{'bitch'}	{'neg' 'neu: 'pol: 'comp'}

17 rows × 26 columns

```
In [169]: len(bc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
Out[169]: 9

In [170]: bc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
Out[170]:
florachirico      8
fan_page_johnny_depp_  2
matnash8506       1
trolljuve         1
hamidreza66_rezaipoor  1
adamelesharkwy_bigz  1
kiranstauch       1
kudzmaboss        1
lazy.star.arts     1
Name: username, dtype: int64

In [171]: bc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
Out[171]:
2020-11-10    8
2019-03-08    2
```

```
2020-11-13 1  
2020-08-06 1  
2020-11-14 1  
2021-01-06 1  
2020-11-08 1  
2020-04-08 1  
2020-05-16 1  
Name: date, dtype: int64
```

```
In [172]: list(bc.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[172]: ['florachirico',  
          'fan_page_johnny_depp_1',  
          'mattmash8506',  
          'troll.juve',  
          'hamidreza66_rezapoor',  
          'adamelsharkawy_bigz',  
          'kiranstauch',  
          'kudzineboss',  
          'lazy.stararts']
```

abuser

- fck
- damn
- bttch
- abuser
- wtf
- disgusting
- hell

```
In [173]: ab = SomeText(df_comments, "{'abuser'}")
```

```
In [174]: ab.head(2)
```

```
Out[174]:   message      datetime      id  n_replies  n_likes      media_id  parent_id    user_id  username  is_verified  ...  month  dayofmonth  date  hour  clea  
449  abuser  2020-06-02  17055522417019074      0.0      0.0  231463916397740576      n  33074114164  rashidraza...  False  ...  Jun        2  2020-06-02  3  ...  
634  abuser  2021-01-20  17927162719491116      0.0      0.0  2489954445721169408      n  479691086  theashwinds...  False  ...  Jan        20  2021-01-20  0  ...
```

2 rows × 22 columns

```
In [175]: ab.n_comments_unique()
```

This comment appeared in 202 shape

```
In [176]: ab.shapes(15)
```

```
Out[176]: abuser            346  
she is an abuser           21  
she's an abuser            20  
abuser.                     20  
#abuser                    15  
she's an abuser             12  
abuser 🤬                  7  
she's an abuser.            6  
abuser 💔                  6  
abuser ❤                   6  
abuser!                     6  
the abuser                 5  
abuser 🌟                  4  
an abuser                  4  
she is a abuser              4  
Name: message, dtype: int64
```

```
In [177]: ab.dates()
```

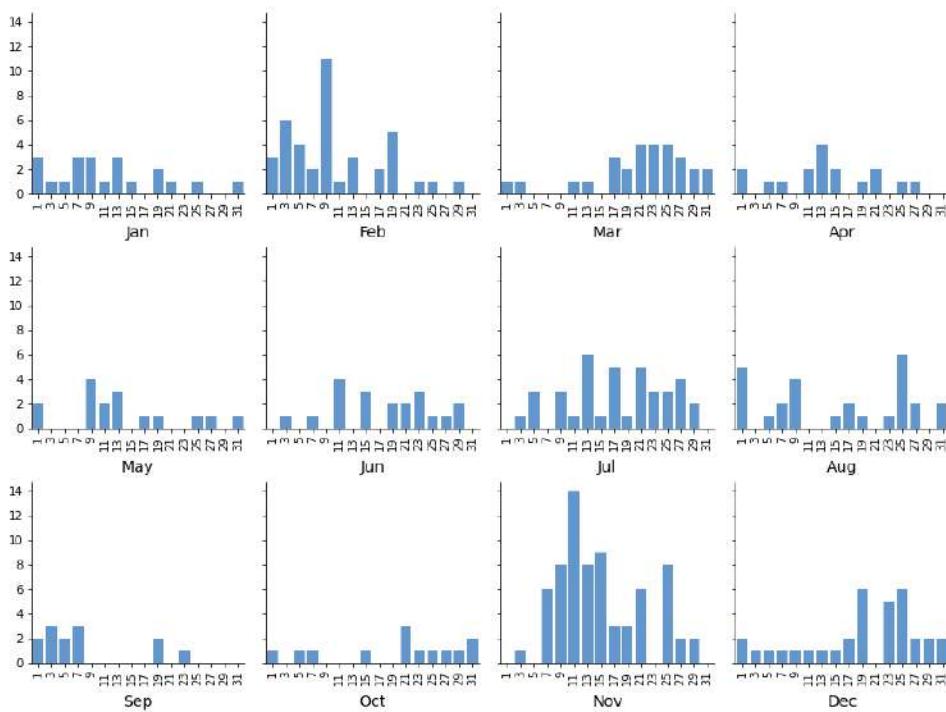
```
Out[177]: 2020-11-12    18  
2020-11-11    14  
2020-02-20    13  
2020-02-09    11  
2020-11-15     9  
                ..  
2019-05-09     1  
2019-04-11     1  
2020-02-29     1  
2020-02-25     1  
2019-03-17     1  
Name: date, Length: 326, dtype: int64
```

```
In [178]: ab.peak(6)
```

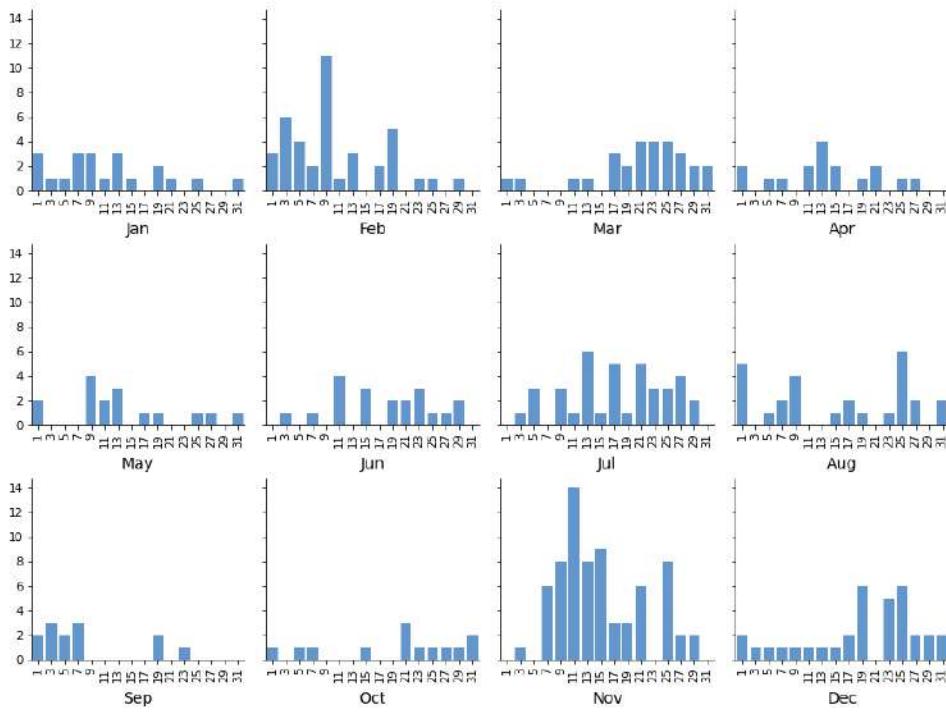
```
In [179]: ab.date_info()
```

```
The comments were made between 2018-08-01 and 2021-06-27  
n_comments  
year  
2018          4  
2019         39  
2020        469
```

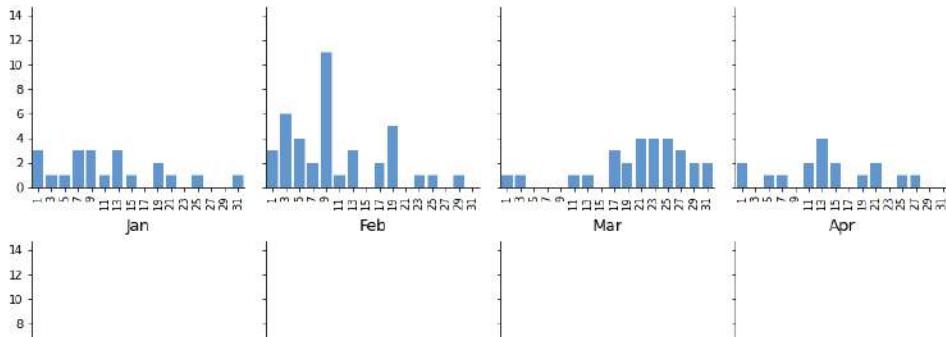
Comments Created in Each Day of 2020

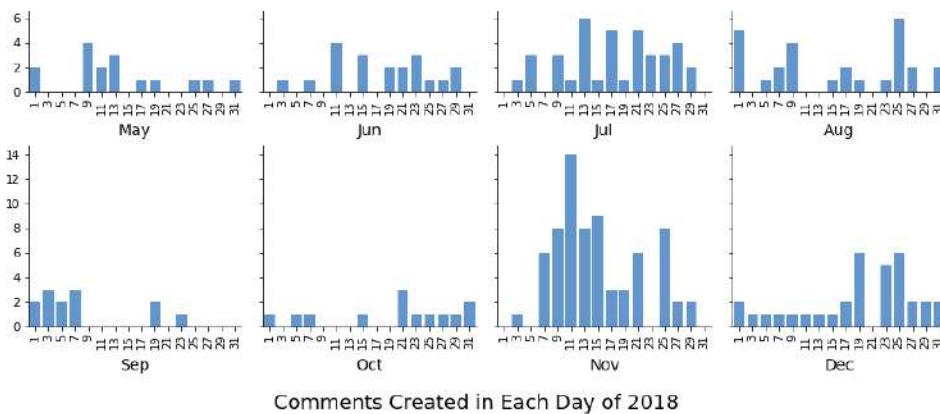


Comments Created in Each Day of 2021

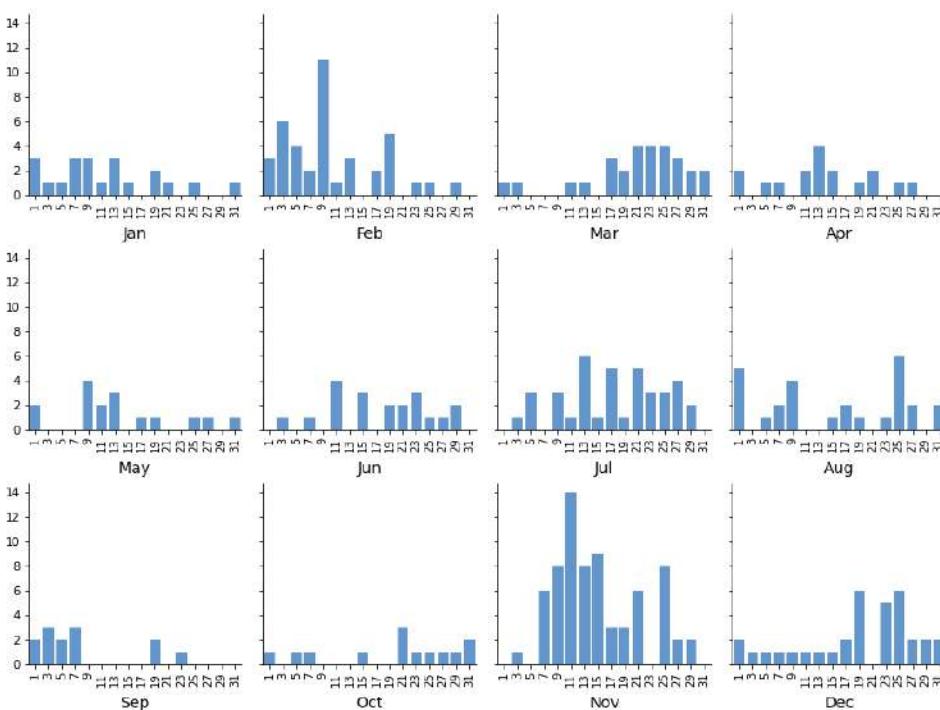


Comments Created in Each Day of 2019





Comments Created in Each Day of 2018



In [180]	ab.df_timing().query(' days == 0 and hours == 0 and minutes == 0')
Out[180]	message datetime id n_replies n_likes media_id parent_id user_id username is_verified ...
961414	@ya_itsbiana she's an abuser 2019-11-10 17982053750444876 NaN 2.0 217273325314526464 18042982330202736 5638405846 jov4lyfe True ... @ya_itsbiana
961399	@roman_reigns4234 she's an abuser 2019-11-10 17853600715645996 NaN 2.0 217273325314526464 18080094295189332 5638405846 jov4lyfe True ... @roman_reigns4234 she's an abuser
961339	@peppered_ she's an abuser 2019-11-10 17849732134710176 NaN 0.0 217273325314526464 18080785786142088 5638405846 jov4lyfe True ... @peppered_ she's an abuser
1219184	#abuser 2020-02-02 17870008615589434 0.0 1.0 2234783109899626752 None 10450781962 gravesveraniego False ...
107195	abuser 2020-02-06 17944359917945592 0.0 0.0 2237716568123608704 None 4137159689 gentlyhands False ...
...	...
76576	abuser 2021-06-21 17877183389399918 0.0 0.0 2581080313982604288 None 47047202725 marymagdalene_27 False ...
298765	abuser 2021-06-21 17910745402863866 0.0 0.0 2581236137986890752 None 47047202725 marymagdalene_27 False ...
139561	abuser 2021-06-23 17901408518000848 0.0 0.0 2593008441506973696 None 47047202725 marymagdalene_27 False ...
...	2021-07-

170471 Snesian abuser, 21 179304194/47/0474 0.0 2.0 20222023/9089/8000 0 4/89/000/03 jem.weaver raise ... snesia

831911 2021-07- abuser 25 17968616797425508 0.0 0.0 2626205559309920448 n 45635921421 jdjazmin12 False .. 21.4445

65 rows × 26 columns

```
len(ab.df.timing().query(' days == 0 and hours == 0 and minutes == 0')).username.value_counts().index)
```

34

```
ab_df.timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[182]: {'arielapisces': 10,
           'lisa_lovelcebaby': 6,
           'marymagdalene_27': 5,
           'nerheciaram': 3,
           'jov4lyfe': 3,
           'andre_skywalker2005': 3,
           'jared_m16': 2,
           'gentlyhands': 2,
           'skseeha': 2,
           'reid_wilks': 2,
           'bby_rona': 2,
           'liloandstitches_': 2,
           'beancat2': 1,
           'mvkgk_': 1,
           'shiftftychameleon': 1,
           'jklockk': 1,
           'jen_weaver': 1,
           'want.it.now.clothing': 1,
           'obeymichyydollie': 1,
           'amndme': 1,
           'multi.fandom.aesthetics': 1,
           'conor_longley_': 1,
           'catartresse': 1,
           'babygiritsashx': 1,
           'jdjazmin12': 1,
           'timv777': 1,
           'mxhaliaa': 1,
           'lina_pulatova': 1,
           'macthamenoce': 1,
           'grovesveroniego': 1,
           'georgeboueoun': 1,
           'marie_kennedyxx': 1,
           'archknigghtt': 1,
           'afh_zl': 1}
Name: username, dtype: int64
```

```
ab.df.timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[183]:
```

Date	Count
2020-02-20	10
2020-11-12	8
2021-06-10	4
2020-11-13	3
2020-12-10	3
2019-11-10	3
2020-11-11	3
2021-01-12	2
2020-12-25	2
2020-12-14	2
2020-09-07	2
2020-03-04	2
2020-02-06	2
2020-02-14	1
2021-01-09	1
2020-11-10	1
2020-02-09	1
2020-11-21	1
2020-08-09	1
2021-06-11	1
2020-11-15	1
2020-09-19	1
2020-08-25	1
2021-07-26	1
2020-11-28	1
2020-11-29	1
2020-02-02	1
2021-01-20	1
2020-12-23	1
2020-11-20	1
2021-01-01	1
2021-07-21	1

Name: date, dtype: int64

```
list(ab_df.timing().query(' days == 0 and hours == 0 and minutes == 0'))[usecnames].value_counts().index
```

```
[184]: Out[184]= ['ericlepisces',
 'lisa_levallebaby',
 'marymagdalene_27',
 'nerheiram',
 'joy4lyfe',
 'andre_skywalker2005',
 'jared_m716',
 'gentlyhands',
 'skseeha',
 'reid.wilks',
 'pbby_rona',
 'liloandstitches_',
 'bcancat42',
 'mykg_',
 'chiffuchamaloo'
```

```
'jklockk',
'jem.weaver',
'want.it.now.clothing',
'obeymichyydollie',
'amndme',
'multi.fandom.aesthetics',
'conor_longley_',
'catartresse',
'babyygirllashx',
'jdajaamin12',
'tim777',
'mxhalisa',
'olina.pulotova',
'macthemenoce',
'gravesveraniego',
'georgehouaoun',
'marie_kennedyxx',
'archknightt',
'afh.zl']
```

wtf

- f*ck
- damn
- b*tch
- abuser
- wtf
- disgusting
- hell

```
In [183]: n = SomeText(df_comments, "{'wtf'}")
```

```
In [185]: n.head(2)
```

```
Out[186]:
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	dayofmonth	dat
9183	😊😊😊😊 wtf???????	2021-05-09 19:31:53	17908488082836946	00	0.0	2563307255981664256	n	7498992576	nafis_shj	False	...	May	9	2021-05-09
12589	@momod.134 wtf??	2021-07-20 22:53:04	17094931420232308	NaN	0.0	2620379275249191936	17893982873221364	48504197208	Idoking007	True	...	Jul	20	2021-07-20

2 rows × 22 columns

```
In [187]: n.n_comments_unique()
```

This comment appeared in 225 shape

```
In [188]: n.shapes(15)
```

```
Out[188]:
```

wtf	217
wtf?	18
wtf no	6
wtf!	5
wtf😊	5
wtf is this	5
wtf????	4
wtf 😊	4
no wtf	4
wtf...	4
wtf is that?	3
yo wtf	3
wtf??????	3
wtf!!	3
wtf 😊	2

Name: message, dtype: int64

```
In [189]: n.dates()
```

```
Out[189]:
```

2020-11-02	12
2020-12-26	9
2020-11-14	8
2021-07-02	8
2020-11-13	7
..	
2021-01-08	1
2019-10-24	1
2019-04-16	1
2018-11-15	1
2020-12-29	1

Name: date, Length: 327, dtype: int64

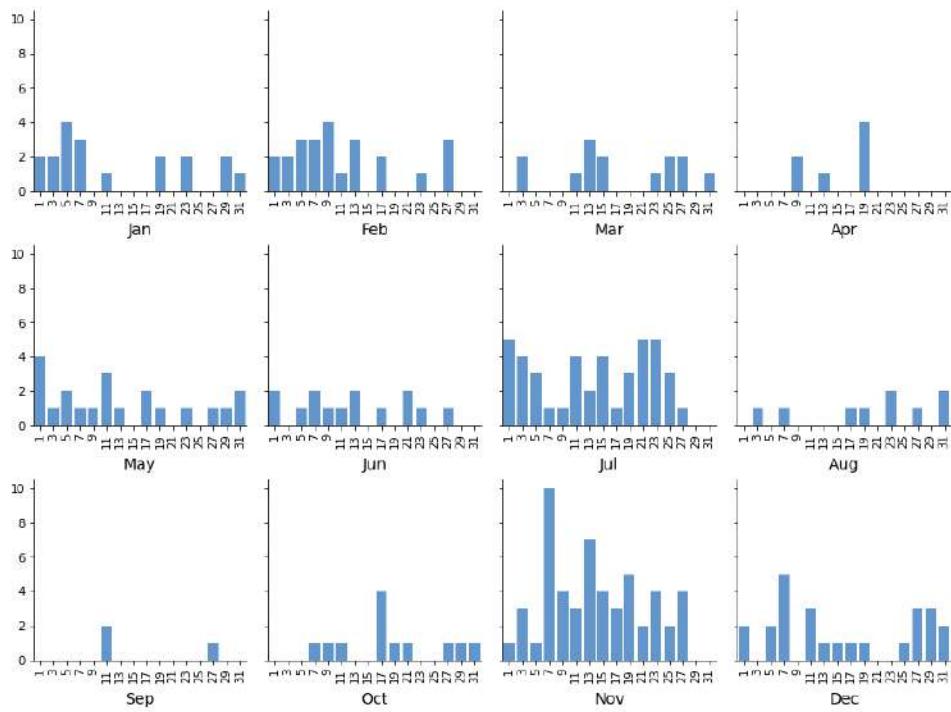
```
In [190]: n.peak(6)
```

```
In [191]: n.date_info()
```

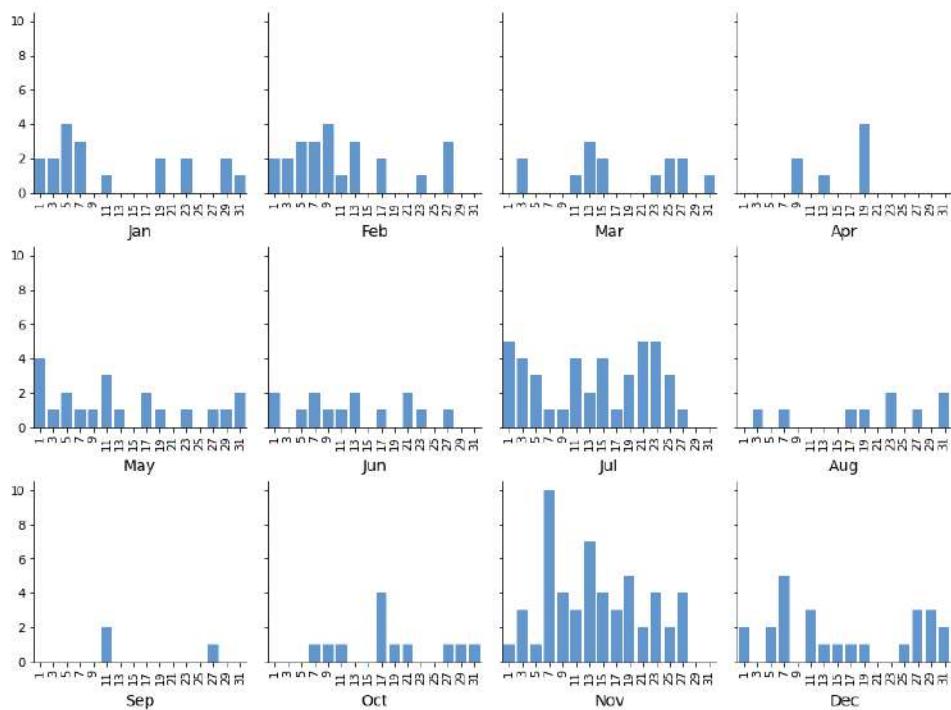
The comments were made between 2018-03-15 and 2021-08-19

year	n_comments
2018	66
2019	97
2020	250
2021	102

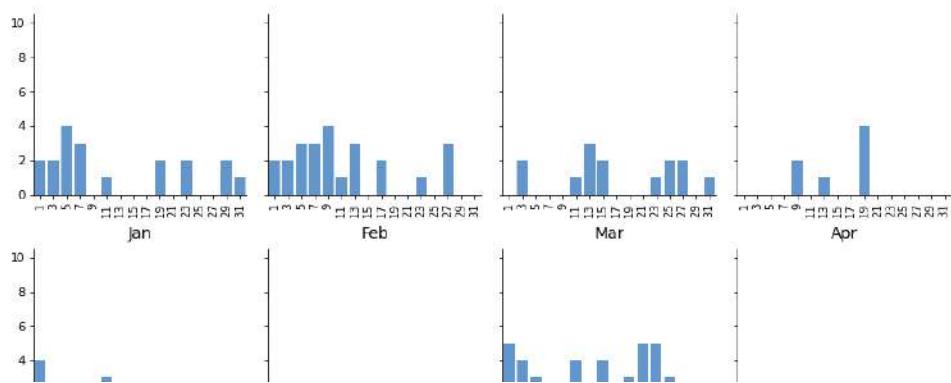
Comments Created in Each Day of 2021

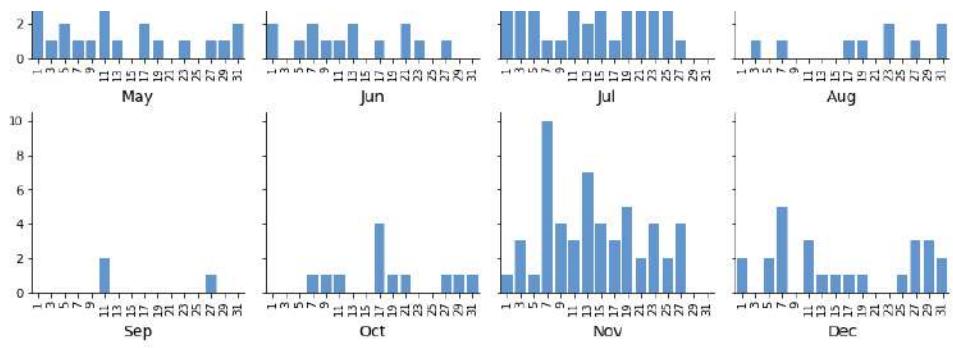


Comments Created in Each Day of 2020

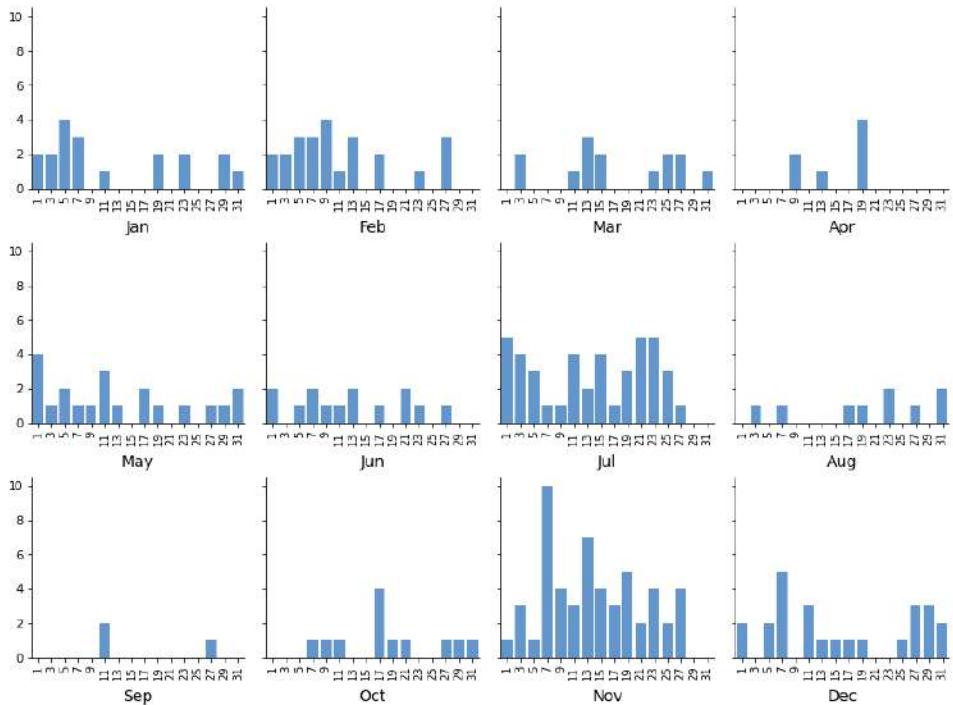


Comments Created in Each Day of 2019





Comments Created in Each Day of 2018



```
In [192]: w.df_timing().query(' days == 0 and hours == 0 and minutes == 0')

Out[192]:
   message      datetime      id  n_replies  n_likes  media_id  parent_id  user_id  username  is_verified ...  clean_text
787956  wtf no no  2019-06-16  18033707893168544    0.0    0.0  2067454555286460928      n  8089936216  matty_ice_508_00  False ...  wtf no no
77565   wtf      2020-06-18  17842501544257908    0.0    0.0  2333807462626791424      n  316297300  elenalorentelpz  False ...  wtf
525957   wtf      2020-11-13  17886452545826744    0.0    0.0  2441135219233616384      n  6323565155  sainivarun712  False ...  wtf
856421 @lolbutdidask 2020-12-07  17935694743431576    NaN    0.0  2459142448661064704  18137593753122304  10801897026  watchdog172  True ...  @lolbutdidask
410252  ??wtf??  2020-12-18  18041712997284576    0.0    6.0  2465971400333239808      n  28909281479  zwv_1  False ...  wtf??
```

5 rows × 26 columns

```
In [193]: len(w.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[193]: 5
```

```
In [194]: w.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[194]:
elenalorentelpz      1
sainivarun712        1
matty_ice_508_00      1
watchdog172           1
zwv_1                 1
Name: username, dtype: int64
```

```
In [195]: w.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
Out[195]:
2020-11-13    1
2020-06-18    1
2020-12-18    1
2019-06-16    1
2020-12-07    1
Name: date, dtype: int64
```

```
In [196]: list(w.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
Out[196]:
['elenalorentelpz',
 'sainiverun712',
 'matty_ice_508_00',
 'watchdog172',
 'zrw_.1']
```

```
In [ ]:
```

disgusting

- fck
- damn
- b*tch
- abuser
- wtf
- disgusting
- hell

```
In [197]: disgusting = SomeText(df_comments, "{'disgusting'}")
```

```
In [198]: disgusting.head(2)
```

```
Out[198]:
   message      datetime      id  n_replies  n_likes      media_id  parent_id  user_id  username  is_verified  ...  month  dayofmonth  date  hour  clear
5695  so 2020-07-23  18030023413272760      0.0      0.0  2359499954300361720      n  3256736758  jamiechaney  False  ...  Jul       23  2020-07-23     10  disg
9864  disgusting  2020-11-20  17907201775545868      0.0      3.0  2446384521006547968      n  8482654567  owen.hawk  False  ...  Nov       20  2020-11-20     10  disg
```

2 rows × 22 columns

```
In [199]: w.n_comments_unique()
```

This comment appeared in 225 shape

```
In [200]: disgusting.shapes(15)
```

```
Out[200]:
disgusting          131
disgusting.           11
she is disgusting    11
she's disgusting     8
she's disgusting     8
disgusting.          6
this is disgusting   4
that's disgusting    3
she's disgusting     2
she is so disgusting 2
she's disgusting     2
so disgusting        2
disgusting!          2
disgusting.          2
she is disgusting.   1
Name: message, dtype: int64
```

```
In [201]: disgusting.dates()
```

```
Out[201]:
2020-11-15    5
2020-11-07    5
2020-11-12    5
2020-07-16    5
2021-06-15    4
...
2019-04-19    1
2020-07-13    1
2019-12-15    1
2021-06-05    1
2020-09-15    1
Name: date, Length: 169, dtype: int64
```

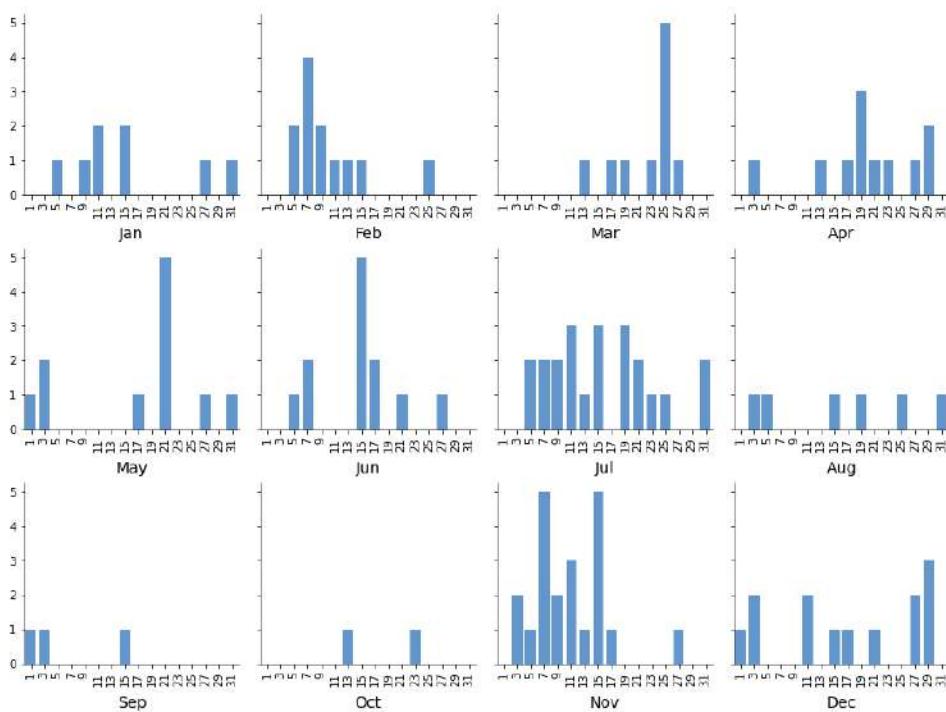
```
In [202]: disgusting.peak(6)
```

```
In [203]: disgusting.date_info()
```

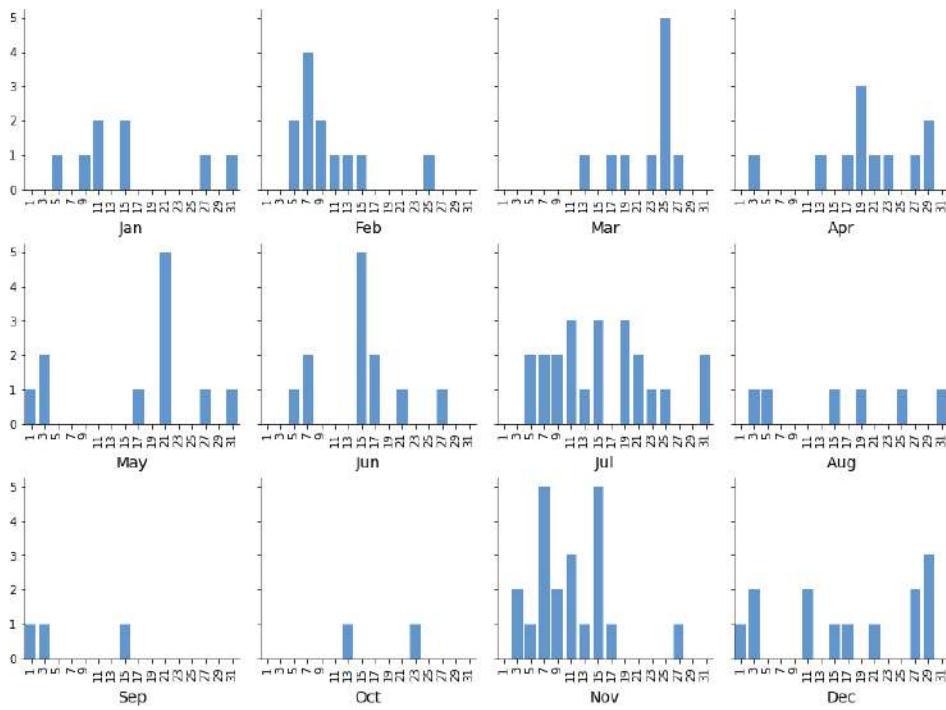
The commentes were made between 2018-04-12 and 2021-08-05

year	n_comments
2018	6
2019	18
2020	160

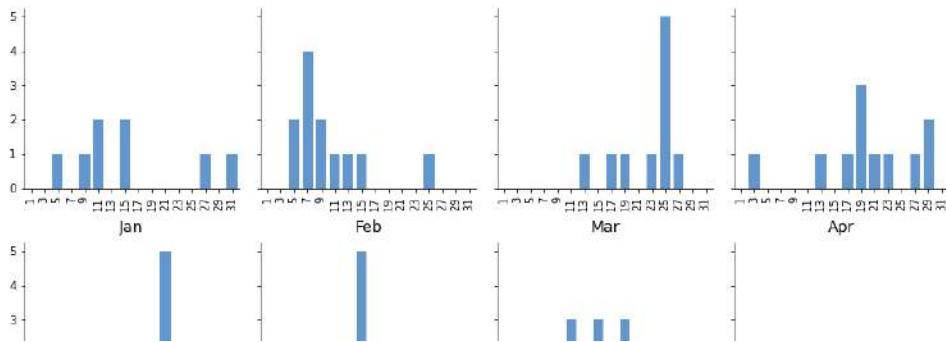
Comments Created in Each Day of 2020

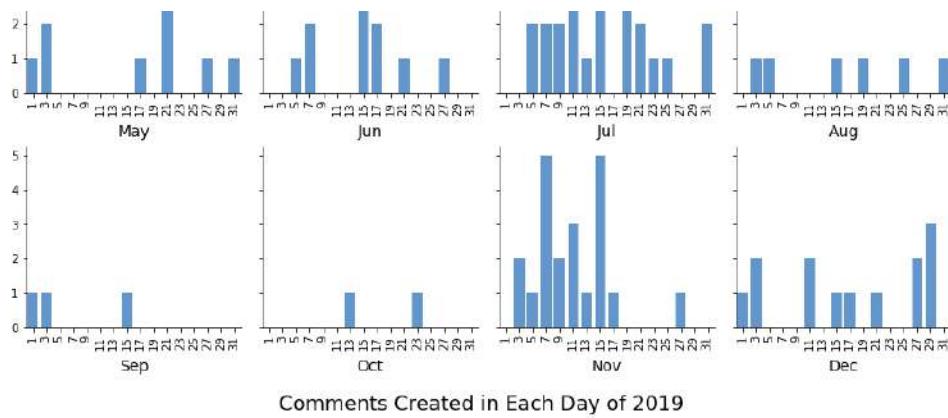


Comments Created in Each Day of 2018

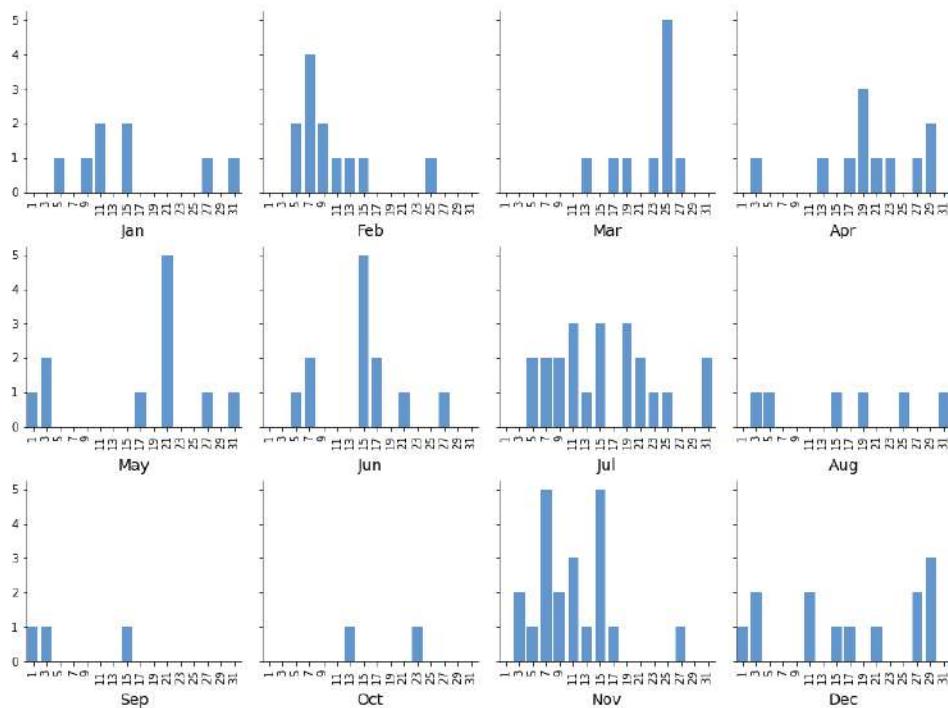


Comments Created in Each Day of 2021





Comments Created in Each Day of 2019



```
In [204]: disgusting.df_timing().query('days == 0 and hours == 0 and minutes == 0')
```

	message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	... clean_text	tokens
45928	disgusting	2020-07-16 17:30:41	17858255723064062	0.0	0.0	2354445349753355776	n	501744657	annie.belle	False	... disgusting	{'neg': 'neu'; 'pos': 'compon'}
1096881	disgusting	2020-07-16 17:30:54	179301890892214	0.0	0.0	2354612260277350080	n	501744657	annie.belle	False	... disgusting	{'neg': 'neu'; 'pos': 'compon'}
158065	disgusting	2020-12-08 10:10:23	17866785524177736	0.0	0.0	2448943921932178432	n	1223342623	jaeger907	False	... disgusting	{'neg': 'neu'; 'pos': 'compon'}
778500	disgusting	2020-12-28 21:01:41	17905130587627670	0.0	1.0	2473503516281042432	n	1638349043	gamma_ipnosis	False	... disgusting	{'neg': 'neu'; 'pos': 'compon'}
531523	disgusting	2021-04-18 00:46:49	17999609900323096	0.0	16.0	2554156424582472192	n	32329526042	gagaciccone	False	... disgusting	{'neg': 'neu'; 'pos': 'compon'}

5 rows × 26 columns

```
In [205]: len(disgusting.df_timing().query('days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[205]: 4
```

```
In [206]: disgusting.df_timing().query('days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[206]: annie.belle    2
jaeger907      1
gagaciccone    1
gamma_ipnosis   1
Name: username, dtype: int64
```

```
In [207]: disgusting.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[207]:
```

date	count
2020-07-16	2
2020-12-03	1
2020-12-28	1
2021-04-16	1

Name: date, dtype: int64

```
In [208]: list(disgusting.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[208]: ['annie.b3lle', 'jaeger907', 'gagaciccone', 'gamma_ipnosis']
```

hell

- f*ck
- damn
- b*tch
- abuser
- wtf
- disgusting
- hell

```
In [210]: hell = SameText(df_comments, "{'hell'}")
```

```
In [211]: hell.head(2)
```

```
Out[211]:
```

message	datetime	id	n_replies	n_likes	media_id	parent_id	user_id	username	is_verified	...	month	dayofmonth	date
hell no	2020-06-03 06:57:24	22556	0.0	0.0	2319465984035038208	n	321431179	fernandocallo	False	...	Jun	3	2020-06-03
@ele_x005 hell no	2020-06-05 01:11:26	22594	Nan	1.0	2319465984035038208	17899360916501316	4133854014	monkey790	True	...	Jun	5	2020-06-05

2 rows × 14 columns

```
In [212]: hell.n_comments_unique()
```

This comment appeared in 119 shape

```
In [213]: hell.shapes(15)
```

```
Out[213]:
```

hell no	74
hell nah	10
what the hell	6
hell ya	5
hell no!	4
what the hell?	4
hell no.	3
hell no 😡😡😡	3
hell no 😐	2
from hell	2
what the hell????	2
hell ne	2
what the hell...	2
hell no 😡😡😡	1
hell to the no	1

Name: message, dtype: int64

```
In [214]: hell.dates()
```

```
Out[214]:
```

2020-11-22	14
2018-03-14	11
2020-11-14	6
2020-12-22	6
2020-11-13	5
..	
2021-04-01	1
2018-07-29	1
2020-02-04	1
2020-11-26	1
2020-04-26	1

Name: date, Length: 160, dtype: int64

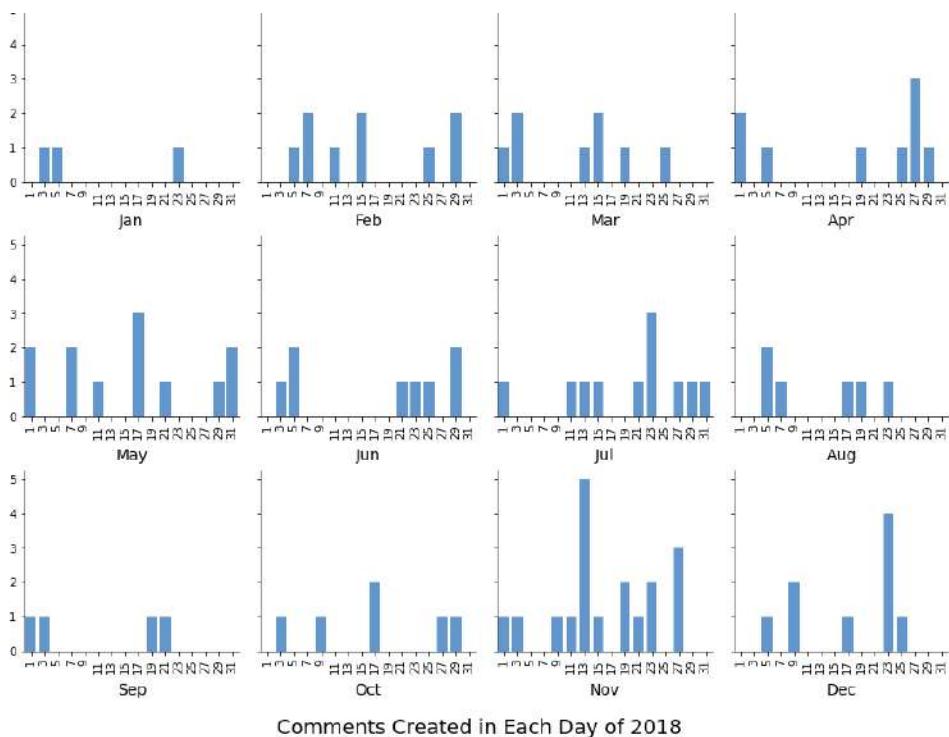
```
In [215]: hell.peak(6)
```

```
In [216]: hell.date_info()
```

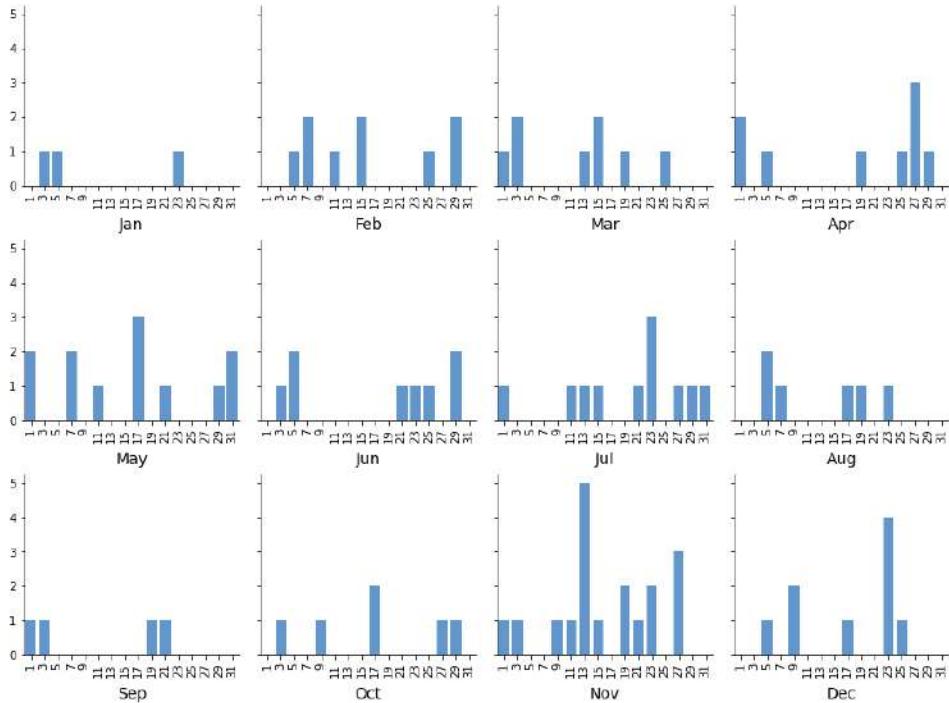
The comments were made between 2018-03-14 and 2021-07-18

year	n_comments
2018	52
2019	27
2020	124
2021	22

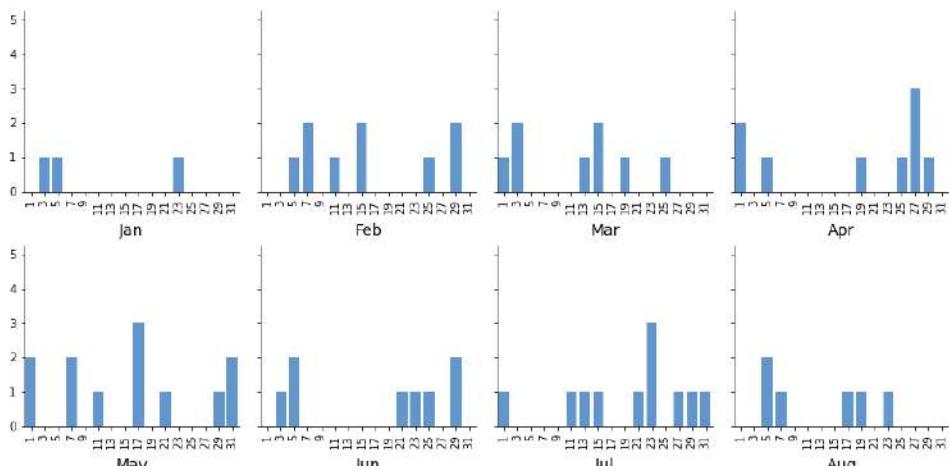
Comments Created in Each Day of 2020

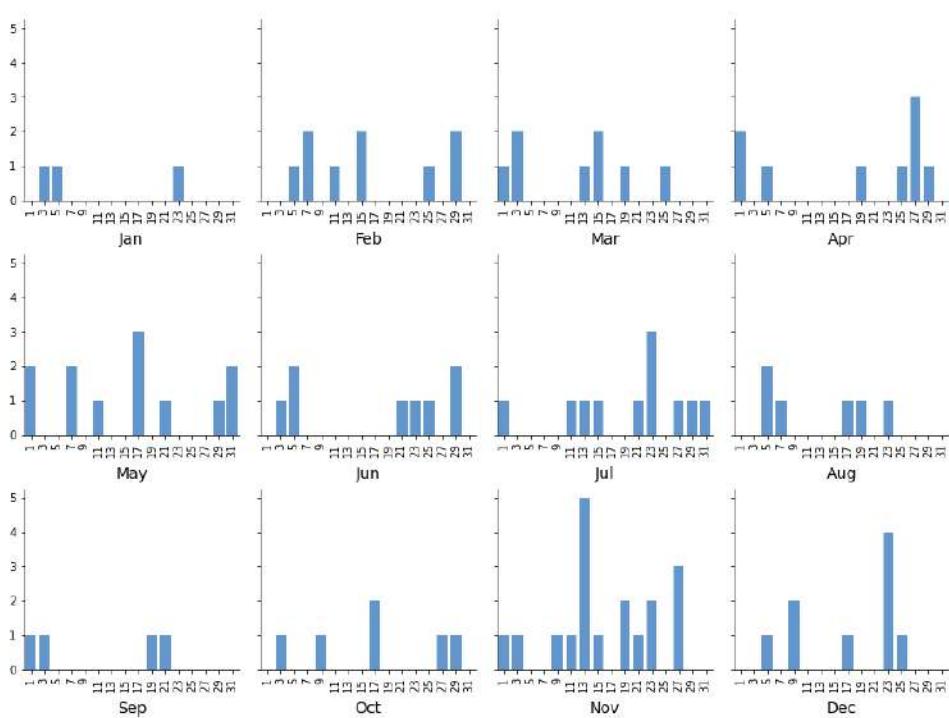
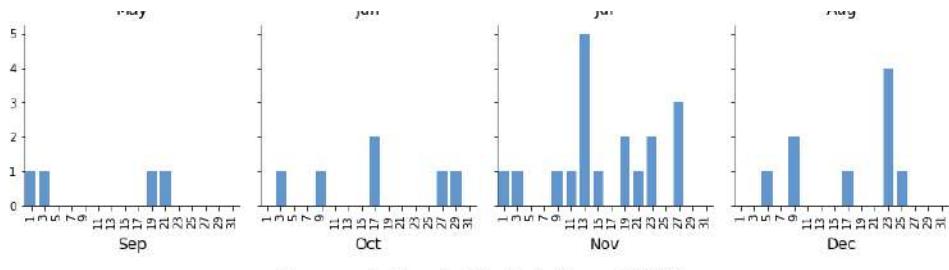


Comments Created in Each Day of 2018



Comments Created in Each Day of 2021





```
In [217]: hell.df_timing().query(' days == 0 and hours == 0 and minutes == 0')

Out[217]:
   message      datetime          id  n_replies  n_likes  media_id  parent_id  user_id    username  is_verified ...  clean_text  tokens  nltk
786257  hell no  2020-02-29 19:11:04  17846684485970828     0.0     0.0  2253645276383040000      n  10140121962  cameron_aka_cj  False  ...  hell no  ['hell']  {neg:1.0,
                                                                                                         'neu':0.0,
                                                                                                         'pos':0.0,
                                                                                                         'compound...'}  
736266  hell no  2020-04-02 10:39:54  17875148863599312     0.0     5.0  2277897900535355648      n  2306171211  sasan_izadi_  False  ...  hell no  ['hell']  {neg:1.0,
                                                                                                         'neu':0.0,
                                                                                                         'pos':0.0,
                                                                                                         'compound...'}  
1112045  hell no  2020-12-22 16:47:19  1804962122276764     0.0     1.0  2469427270010088448      n  502520948  _kierandonnelly_  False  ...  hell no  ['hell']  {neg:1.0,
                                                                                                         'neu':0.0,
                                                                                                         'pos':0.0,
                                                                                                         'compound...
```

3 rows × 26 columns

```
In [218]: len(hell.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[218]: 3
```

```
In [219]: hell.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts()
```

```
Out[219]:
sasan_izadi_      1
cameron_aka_cj    1
_kierandonnelly_  1
Name: username, dtype: int64
```

```
In [220]: hell.df_timing().query(' days == 0 and hours == 0 and minutes == 0').date.value_counts()
```

```
Out[220]:
2020-04-02      1
2020-02-29      1
2020-12-22      1
Name: date, dtype: int64
```

```
In [221]: list(hell.df_timing().query(' days == 0 and hours == 0 and minutes == 0').username.value_counts().index)
```

```
Out[221]: ['sasan_izadi_', 'cameron_aka_cj', '_kierandonnelly_']
```

