

# Challenge-4

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## Questions

Load the “CommQuest2023.csv” dataset using the `read_csv()` command and assign it to a variable named “comm\_data.”

```
# Enter code here
comm_data <- read.csv('CommQuest2023_Larger.csv')
head(comm_data)
```

```
##           date channel      sender      message sentiment
## 1 2023-08-11 Twitter dave@example    Fun weekend!    0.8240997
## 2 2023-08-11  Email @bob_tweets Hello everyone!    0.6624869
## 3 2023-08-11  Slack @frank_chat Hello everyone!   -0.1434508
## 4 2023-08-18  Email @frank_chat    Fun weekend!    0.3801966
## 5 2023-08-14  Slack @frank_chat Need assistance    0.1879540
## 6 2023-08-04  Email @erin_tweets Need assistance  -0.1083762
```

### Question-1: Communication Chronicles

Using the `select` command, create a new dataframe containing only the “date,” “channel,” and “message” columns from the “comm\_data” dataset.

**Solution:**

```
# Enter code here
#comm_data
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 4.2.3
```

```
## Warning: package 'ggplot2' was built under R version 4.2.3
```

```
## Warning: package 'tibble' was built under R version 4.2.3
```

```
## Warning: package 'tidyr' was built under R version 4.2.3
```

```
## Warning: package 'readr' was built under R version 4.2.3
```

```
## Warning: package 'purrr' was built under R version 4.2.3
```

```
## Warning: package 'dplyr' was built under R version 4.2.3
```

```
## Warning: package 'stringr' was built under R version 4.2.2
```

```
## Warning: package 'forcats' was built under R version 4.2.3
```

```
## Warning: package 'lubridate' was built under R version 4.2.3
```

```
## — Attaching core tidyverse packages — tidyverse 2.0.0 —
## ✓ dplyr      1.1.2      ✓ readr      2.1.4
## ✓ forcats   1.0.0      ✓ stringr    1.5.0
## ✓ ggplot2   3.4.3      ✓ tibble     3.2.1
## ✓ lubridate 1.9.2      ✓ tidyr      1.3.0
## ✓ purrr     1.0.2
## — Conflicts — tidyverse_conflicts() —
## ✗ dplyr::filter() masks stats::filter()
## ✗ dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to be
come errors
```

```
library(dplyr)
select(comm_data, date, channel, message)
```

##	date	channel	message
## 1	2023-08-11	Twitter	Fun weekend!
## 2	2023-08-11	Email	Hello everyone!
## 3	2023-08-11	Slack	Hello everyone!
## 4	2023-08-18	Email	Fun weekend!
## 5	2023-08-14	Slack	Need assistance
## 6	2023-08-04	Email	Need assistance
## 7	2023-08-10	Twitter	Hello everyone!
## 8	2023-08-04	Slack	Hello everyone!
## 9	2023-08-20	Email	Team meeting
## 10	2023-08-09	Slack	Hello everyone!
## 11	2023-08-06	Email	Team meeting
## 12	2023-08-16	Twitter	Great work!
## 13	2023-08-01	Twitter	Need assistance
## 14	2023-08-16	Slack	Exciting news!
## 15	2023-08-16	Twitter	Exciting news!
## 16	2023-08-07	Email	Great work!
## 17	2023-08-01	Twitter	Need assistance
## 18	2023-08-20	Email	Team meeting
## 19	2023-08-08	Slack	Need assistance
## 20	2023-08-06	Slack	Hello everyone!
## 21	2023-08-11	Twitter	Great work!
## 22	2023-08-12	Twitter	Team meeting
## 23	2023-08-12	Slack	Fun weekend!
## 24	2023-08-11	Email	Fun weekend!
## 25	2023-08-04	Email	Fun weekend!
## 26	2023-08-13	Email	Hello everyone!
## 27	2023-08-16	Twitter	Exciting news!
## 28	2023-08-09	Twitter	Need assistance
## 29	2023-08-14	Twitter	Great work!
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## 32	2023-08-15	Email	Great work!
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## 37	2023-08-02	Email	Great work!
## 38	2023-08-13	Email	Team meeting
## 39	2023-08-11	Slack	Team meeting
## 40	2023-08-05	Email	Exciting news!
## 41	2023-08-19	Twitter	Need assistance
## 42	2023-08-10	Slack	Need assistance
## 43	2023-08-11	Email	Need assistance
## 44	2023-08-06	Twitter	Exciting news!
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## 52	2023-08-10	Twitter	Need assistance
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## 54	2023-08-13	Slack	Great work!

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## 56	2023-08-13	Slack	Great work!
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##	412	2023-08-15	Slack	Need assistance
##	413	2023-08-06	Email	Exciting news!
##	414	2023-08-20	Email	Team meeting
##	415	2023-08-10	Slack	Need assistance
##	416	2023-08-11	Email	Exciting news!
##	417	2023-08-14	Slack	Fun weekend!
##	418	2023-08-20	Slack	Exciting news!
##	419	2023-08-13	Twitter	Team meeting
##	420	2023-08-06	Slack	Great work!
##	421	2023-08-12	Email	Need assistance
##	422	2023-08-20	Twitter	Fun weekend!
##	423	2023-08-20	Twitter	Great work!
##	424	2023-08-02	Email	Exciting news!
##	425	2023-08-19	Twitter	Team meeting
##	426	2023-08-09	Slack	Fun weekend!
##	427	2023-08-11	Email	Hello everyone!
##	428	2023-08-14	Twitter	Need assistance
##	429	2023-08-09	Slack	Fun weekend!
##	430	2023-08-16	Twitter	Fun weekend!
##	431	2023-08-05	Twitter	Hello everyone!
##	432	2023-08-01	Twitter	Great work!
##	433	2023-08-10	Twitter	Fun weekend!
##	434	2023-08-04	Slack	Need assistance
##	435	2023-08-20	Email	Great work!
##	436	2023-08-20	Slack	Great work!
##	437	2023-08-10	Slack	Exciting news!
##	438	2023-08-12	Email	Great work!
##	439	2023-08-09	Email	Team meeting
##	440	2023-08-07	Slack	Fun weekend!
##	441	2023-08-04	Email	Great work!
##	442	2023-08-06	Email	Fun weekend!
##	443	2023-08-08	Email	Exciting news!
##	444	2023-08-07	Twitter	Hello everyone!
##	445	2023-08-09	Twitter	Hello everyone!
##	446	2023-08-14	Twitter	Great work!

##	447	2023-08-14	Twitter	Exciting news!
##	448	2023-08-10	Email	Great work!
##	449	2023-08-16	Email	Great work!
##	450	2023-08-10	Twitter	Great work!
##	451	2023-08-08	Email	Need assistance
##	452	2023-08-10	Email	Team meeting
##	453	2023-08-08	Twitter	Fun weekend!
##	454	2023-08-11	Slack	Exciting news!
##	455	2023-08-20	Twitter	Team meeting
##	456	2023-08-17	Email	Team meeting
##	457	2023-08-18	Slack	Exciting news!
##	458	2023-08-13	Twitter	Need assistance
##	459	2023-08-11	Twitter	Great work!
##	460	2023-08-06	Twitter	Need assistance
##	461	2023-08-03	Twitter	Hello everyone!
##	462	2023-08-15	Slack	Hello everyone!
##	463	2023-08-13	Email	Hello everyone!
##	464	2023-08-16	Email	Need assistance
##	465	2023-08-16	Email	Team meeting
##	466	2023-08-05	Email	Need assistance
##	467	2023-08-16	Email	Need assistance
##	468	2023-08-15	Email	Hello everyone!
##	469	2023-08-06	Twitter	Hello everyone!
##	470	2023-08-13	Twitter	Exciting news!
##	471	2023-08-10	Twitter	Great work!
##	472	2023-08-18	Twitter	Exciting news!
##	473	2023-08-20	Twitter	Team meeting
##	474	2023-08-13	Twitter	Need assistance
##	475	2023-08-20	Slack	Hello everyone!
##	476	2023-08-04	Twitter	Fun weekend!
##	477	2023-08-05	Email	Exciting news!
##	478	2023-08-17	Twitter	Great work!
##	479	2023-08-08	Email	Exciting news!
##	480	2023-08-05	Email	Team meeting
##	481	2023-08-08	Twitter	Team meeting
##	482	2023-08-18	Email	Need assistance
##	483	2023-08-17	Slack	Need assistance
##	484	2023-08-07	Email	Hello everyone!
##	485	2023-08-16	Twitter	Hello everyone!
##	486	2023-08-05	Email	Need assistance
##	487	2023-08-03	Twitter	Fun weekend!
##	488	2023-08-02	Email	Great work!
##	489	2023-08-13	Slack	Great work!
##	490	2023-08-09	Email	Fun weekend!
##	491	2023-08-04	Email	Team meeting
##	492	2023-08-04	Email	Hello everyone!
##	493	2023-08-16	Email	Fun weekend!
##	494	2023-08-13	Twitter	Hello everyone!
##	495	2023-08-04	Twitter	Hello everyone!
##	496	2023-08-16	Twitter	Team meeting
##	497	2023-08-11	Slack	Need assistance
##	498	2023-08-15	Slack	Hello everyone!
##	499	2023-08-20	Email	Team meeting
##	500	2023-08-06	Slack	Team meeting
##	501	2023-08-05	Twitter	Team meeting
##	502	2023-08-07	Slack	Team meeting

##	503	2023-08-06	Email	Need assistance
##	504	2023-08-07	Slack	Need assistance
##	505	2023-08-09	Twitter	Team meeting
##	506	2023-08-06	Email	Great work!
##	507	2023-08-17	Twitter	Team meeting
##	508	2023-08-15	Twitter	Exciting news!
##	509	2023-08-01	Twitter	Hello everyone!
##	510	2023-08-09	Email	Fun weekend!
##	511	2023-08-05	Twitter	Fun weekend!
##	512	2023-08-10	Slack	Need assistance
##	513	2023-08-16	Slack	Need assistance
##	514	2023-08-07	Email	Team meeting
##	515	2023-08-07	Email	Exciting news!
##	516	2023-08-18	Email	Hello everyone!
##	517	2023-08-17	Twitter	Fun weekend!
##	518	2023-08-15	Twitter	Team meeting
##	519	2023-08-13	Twitter	Exciting news!
##	520	2023-08-12	Email	Fun weekend!
##	521	2023-08-19	Twitter	Need assistance
##	522	2023-08-19	Twitter	Team meeting
##	523	2023-08-12	Slack	Exciting news!
##	524	2023-08-17	Email	Fun weekend!
##	525	2023-08-07	Email	Team meeting
##	526	2023-08-16	Email	Hello everyone!
##	527	2023-08-08	Email	Exciting news!
##	528	2023-08-07	Email	Exciting news!
##	529	2023-08-01	Twitter	Hello everyone!
##	530	2023-08-07	Email	Great work!
##	531	2023-08-11	Slack	Great work!
##	532	2023-08-04	Twitter	Exciting news!
##	533	2023-08-11	Email	Great work!
##	534	2023-08-19	Twitter	Fun weekend!
##	535	2023-08-03	Email	Need assistance
##	536	2023-08-09	Email	Fun weekend!
##	537	2023-08-19	Email	Team meeting
##	538	2023-08-08	Email	Great work!
##	539	2023-08-14	Slack	Great work!
##	540	2023-08-19	Email	Great work!
##	541	2023-08-12	Slack	Need assistance
##	542	2023-08-11	Slack	Team meeting
##	543	2023-08-14	Twitter	Exciting news!
##	544	2023-08-10	Slack	Need assistance
##	545	2023-08-19	Email	Fun weekend!
##	546	2023-08-09	Twitter	Hello everyone!
##	547	2023-08-14	Twitter	Hello everyone!
##	548	2023-08-08	Email	Need assistance
##	549	2023-08-04	Slack	Hello everyone!
##	550	2023-08-05	Twitter	Team meeting
##	551	2023-08-13	Twitter	Great work!
##	552	2023-08-15	Email	Great work!
##	553	2023-08-08	Twitter	Fun weekend!
##	554	2023-08-15	Slack	Team meeting
##	555	2023-08-08	Email	Need assistance
##	556	2023-08-10	Slack	Exciting news!
##	557	2023-08-18	Slack	Team meeting
##	558	2023-08-20	Twitter	Fun weekend!

##	559	2023-08-18	Email	Need assistance
##	560	2023-08-12	Email	Need assistance
##	561	2023-08-10	Slack	Exciting news!
##	562	2023-08-07	Slack	Exciting news!
##	563	2023-08-19	Twitter	Team meeting
##	564	2023-08-20	Twitter	Exciting news!
##	565	2023-08-04	Slack	Fun weekend!
##	566	2023-08-20	Slack	Team meeting
##	567	2023-08-04	Email	Need assistance
##	568	2023-08-18	Twitter	Fun weekend!
##	569	2023-08-01	Twitter	Hello everyone!
##	570	2023-08-17	Twitter	Hello everyone!
##	571	2023-08-12	Slack	Need assistance
##	572	2023-08-18	Twitter	Team meeting
##	573	2023-08-10	Email	Exciting news!
##	574	2023-08-18	Email	Exciting news!
##	575	2023-08-20	Slack	Great work!
##	576	2023-08-06	Slack	Need assistance
##	577	2023-08-14	Twitter	Fun weekend!
##	578	2023-08-13	Email	Fun weekend!
##	579	2023-08-14	Twitter	Team meeting
##	580	2023-08-17	Twitter	Hello everyone!
##	581	2023-08-03	Email	Hello everyone!
##	582	2023-08-07	Twitter	Great work!
##	583	2023-08-15	Twitter	Hello everyone!
##	584	2023-08-15	Email	Team meeting
##	585	2023-08-10	Email	Hello everyone!
##	586	2023-08-02	Slack	Fun weekend!
##	587	2023-08-01	Slack	Team meeting
##	588	2023-08-15	Email	Need assistance
##	589	2023-08-09	Email	Hello everyone!
##	590	2023-08-16	Slack	Fun weekend!
##	591	2023-08-14	Email	Hello everyone!
##	592	2023-08-04	Twitter	Fun weekend!
##	593	2023-08-20	Slack	Great work!
##	594	2023-08-07	Email	Hello everyone!
##	595	2023-08-02	Twitter	Hello everyone!
##	596	2023-08-05	Slack	Great work!
##	597	2023-08-07	Email	Fun weekend!
##	598	2023-08-15	Slack	Great work!
##	599	2023-08-19	Email	Team meeting
##	600	2023-08-02	Slack	Exciting news!
##	601	2023-08-01	Slack	Exciting news!
##	602	2023-08-01	Email	Fun weekend!
##	603	2023-08-07	Twitter	Team meeting
##	604	2023-08-15	Email	Need assistance
##	605	2023-08-08	Slack	Need assistance
##	606	2023-08-18	Twitter	Need assistance
##	607	2023-08-17	Email	Team meeting
##	608	2023-08-17	Twitter	Need assistance
##	609	2023-08-10	Email	Team meeting
##	610	2023-08-15	Twitter	Need assistance
##	611	2023-08-12	Twitter	Great work!
##	612	2023-08-13	Twitter	Great work!
##	613	2023-08-17	Twitter	Hello everyone!
##	614	2023-08-02	Twitter	Hello everyone!

## 615 2023-08-10 Slack Exciting news!  
## 616 2023-08-06 Email Hello everyone!  
## 617 2023-08-04 Email Need assistance  
## 618 2023-08-06 Email Hello everyone!  
## 619 2023-08-03 Twitter Need assistance  
## 620 2023-08-14 Twitter Fun weekend!  
## 621 2023-08-09 Twitter Exciting news!  
## 622 2023-08-12 Email Exciting news!  
## 623 2023-08-13 Twitter Great work!  
## 624 2023-08-05 Email Great work!  
## 625 2023-08-15 Email Fun weekend!  
## 626 2023-08-12 Twitter Fun weekend!  
## 627 2023-08-04 Twitter Fun weekend!  
## 628 2023-08-05 Slack Need assistance  
## 629 2023-08-19 Twitter Need assistance  
## 630 2023-08-02 Twitter Need assistance  
## 631 2023-08-08 Email Great work!  
## 632 2023-08-10 Twitter Team meeting  
## 633 2023-08-10 Twitter Exciting news!  
## 634 2023-08-15 Twitter Fun weekend!  
## 635 2023-08-14 Email Need assistance  
## 636 2023-08-13 Email Hello everyone!  
## 637 2023-08-06 Slack Exciting news!  
## 638 2023-08-19 Slack Great work!  
## 639 2023-08-03 Slack Team meeting  
## 640 2023-08-08 Twitter Great work!  
## 641 2023-08-13 Twitter Fun weekend!  
## 642 2023-08-17 Slack Fun weekend!  
## 643 2023-08-12 Email Great work!  
## 644 2023-08-06 Slack Fun weekend!  
## 645 2023-08-06 Twitter Fun weekend!  
## 646 2023-08-08 Email Need assistance  
## 647 2023-08-06 Email Hello everyone!  
## 648 2023-08-16 Email Fun weekend!  
## 649 2023-08-07 Slack Team meeting  
## 650 2023-08-14 Email Fun weekend!  
## 651 2023-08-08 Twitter Great work!  
## 652 2023-08-09 Twitter Great work!  
## 653 2023-08-01 Twitter Great work!  
## 654 2023-08-08 Twitter Team meeting  
## 655 2023-08-14 Email Fun weekend!  
## 656 2023-08-03 Slack Exciting news!  
## 657 2023-08-15 Slack Fun weekend!  
## 658 2023-08-14 Email Hello everyone!  
## 659 2023-08-05 Email Fun weekend!  
## 660 2023-08-18 Slack Fun weekend!  
## 661 2023-08-19 Twitter Exciting news!  
## 662 2023-08-15 Twitter Team meeting  
## 663 2023-08-01 Email Hello everyone!  
## 664 2023-08-13 Twitter Team meeting  
## 665 2023-08-06 Slack Hello everyone!  
## 666 2023-08-09 Email Hello everyone!  
## 667 2023-08-07 Email Team meeting  
## 668 2023-08-05 Twitter Great work!  
## 669 2023-08-02 Twitter Need assistance  
## 670 2023-08-08 Slack Hello everyone!

##	671	2023-08-02	Slack	Hello everyone!
##	672	2023-08-10	Email	Team meeting
##	673	2023-08-14	Slack	Hello everyone!
##	674	2023-08-18	Email	Exciting news!
##	675	2023-08-14	Twitter	Great work!
##	676	2023-08-03	Slack	Great work!
##	677	2023-08-04	Email	Fun weekend!
##	678	2023-08-11	Twitter	Team meeting
##	679	2023-08-04	Twitter	Hello everyone!
##	680	2023-08-10	Slack	Team meeting
##	681	2023-08-11	Slack	Team meeting
##	682	2023-08-13	Slack	Need assistance
##	683	2023-08-13	Slack	Need assistance
##	684	2023-08-18	Email	Need assistance
##	685	2023-08-09	Slack	Hello everyone!
##	686	2023-08-02	Twitter	Need assistance
##	687	2023-08-13	Slack	Team meeting
##	688	2023-08-09	Email	Team meeting
##	689	2023-08-12	Twitter	Exciting news!
##	690	2023-08-06	Email	Hello everyone!
##	691	2023-08-08	Twitter	Fun weekend!
##	692	2023-08-10	Twitter	Exciting news!
##	693	2023-08-15	Twitter	Need assistance
##	694	2023-08-03	Email	Great work!
##	695	2023-08-05	Email	Exciting news!
##	696	2023-08-16	Slack	Team meeting
##	697	2023-08-16	Slack	Hello everyone!
##	698	2023-08-11	Slack	Great work!
##	699	2023-08-07	Slack	Great work!
##	700	2023-08-12	Email	Exciting news!
##	701	2023-08-01	Slack	Hello everyone!
##	702	2023-08-09	Email	Fun weekend!
##	703	2023-08-12	Twitter	Need assistance
##	704	2023-08-12	Slack	Great work!
##	705	2023-08-17	Slack	Great work!
##	706	2023-08-13	Email	Need assistance
##	707	2023-08-08	Slack	Exciting news!
##	708	2023-08-10	Slack	Fun weekend!
##	709	2023-08-09	Slack	Exciting news!
##	710	2023-08-05	Twitter	Exciting news!
##	711	2023-08-15	Twitter	Hello everyone!
##	712	2023-08-14	Slack	Exciting news!
##	713	2023-08-05	Twitter	Great work!
##	714	2023-08-02	Twitter	Exciting news!
##	715	2023-08-18	Slack	Hello everyone!
##	716	2023-08-08	Email	Fun weekend!
##	717	2023-08-12	Email	Need assistance
##	718	2023-08-09	Twitter	Exciting news!
##	719	2023-08-16	Twitter	Exciting news!
##	720	2023-08-13	Twitter	Hello everyone!
##	721	2023-08-08	Email	Fun weekend!
##	722	2023-08-03	Email	Great work!
##	723	2023-08-14	Email	Great work!
##	724	2023-08-06	Email	Great work!
##	725	2023-08-12	Email	Great work!
##	726	2023-08-03	Slack	Need assistance

##	727	2023-08-12	Email	Fun weekend!
##	728	2023-08-15	Email	Need assistance
##	729	2023-08-14	Slack	Hello everyone!
##	730	2023-08-20	Email	Fun weekend!
##	731	2023-08-07	Email	Exciting news!
##	732	2023-08-10	Twitter	Great work!
##	733	2023-08-13	Slack	Need assistance
##	734	2023-08-12	Slack	Fun weekend!
##	735	2023-08-20	Email	Team meeting
##	736	2023-08-09	Slack	Hello everyone!
##	737	2023-08-03	Email	Hello everyone!
##	738	2023-08-08	Twitter	Fun weekend!
##	739	2023-08-13	Slack	Great work!
##	740	2023-08-10	Slack	Need assistance
##	741	2023-08-05	Twitter	Hello everyone!
##	742	2023-08-15	Email	Team meeting
##	743	2023-08-14	Slack	Exciting news!
##	744	2023-08-18	Slack	Team meeting
##	745	2023-08-07	Slack	Great work!
##	746	2023-08-13	Email	Great work!
##	747	2023-08-11	Twitter	Team meeting
##	748	2023-08-14	Email	Exciting news!
##	749	2023-08-02	Twitter	Need assistance
##	750	2023-08-19	Twitter	Team meeting
##	751	2023-08-14	Twitter	Need assistance
##	752	2023-08-13	Email	Great work!
##	753	2023-08-18	Slack	Hello everyone!
##	754	2023-08-15	Twitter	Need assistance
##	755	2023-08-01	Twitter	Need assistance
##	756	2023-08-03	Slack	Fun weekend!
##	757	2023-08-07	Slack	Need assistance
##	758	2023-08-01	Slack	Team meeting
##	759	2023-08-08	Email	Hello everyone!
##	760	2023-08-01	Email	Team meeting
##	761	2023-08-05	Slack	Great work!
##	762	2023-08-02	Email	Fun weekend!
##	763	2023-08-08	Slack	Team meeting
##	764	2023-08-11	Twitter	Great work!
##	765	2023-08-12	Email	Exciting news!
##	766	2023-08-11	Slack	Great work!
##	767	2023-08-03	Email	Fun weekend!
##	768	2023-08-08	Twitter	Exciting news!
##	769	2023-08-01	Twitter	Hello everyone!
##	770	2023-08-10	Slack	Exciting news!
##	771	2023-08-12	Email	Team meeting
##	772	2023-08-16	Email	Hello everyone!
##	773	2023-08-10	Twitter	Great work!
##	774	2023-08-09	Email	Hello everyone!
##	775	2023-08-01	Twitter	Great work!
##	776	2023-08-15	Slack	Great work!
##	777	2023-08-19	Twitter	Hello everyone!
##	778	2023-08-04	Twitter	Exciting news!
##	779	2023-08-16	Twitter	Great work!
##	780	2023-08-07	Slack	Hello everyone!
##	781	2023-08-14	Twitter	Need assistance
##	782	2023-08-15	Slack	Hello everyone!



##	783	2023-08-14	Twitter	Exciting news!
##	784	2023-08-10	Slack	Need assistance
##	785	2023-08-09	Twitter	Need assistance
##	786	2023-08-11	Email	Great work!
##	787	2023-08-02	Slack	Great work!
##	788	2023-08-15	Twitter	Team meeting
##	789	2023-08-06	Twitter	Exciting news!
##	790	2023-08-07	Slack	Need assistance
##	791	2023-08-15	Slack	Hello everyone!
##	792	2023-08-15	Email	Fun weekend!
##	793	2023-08-13	Slack	Hello everyone!
##	794	2023-08-12	Twitter	Need assistance
##	795	2023-08-19	Twitter	Hello everyone!
##	796	2023-08-19	Twitter	Exciting news!
##	797	2023-08-06	Twitter	Fun weekend!
##	798	2023-08-11	Slack	Team meeting
##	799	2023-08-12	Slack	Team meeting
##	800	2023-08-13	Slack	Team meeting
##	801	2023-08-14	Email	Team meeting
##	802	2023-08-09	Slack	Fun weekend!
##	803	2023-08-17	Slack	Great work!
##	804	2023-08-09	Slack	Hello everyone!
##	805	2023-08-06	Slack	Exciting news!
##	806	2023-08-19	Slack	Team meeting
##	807	2023-08-17	Twitter	Team meeting
##	808	2023-08-10	Email	Hello everyone!
##	809	2023-08-12	Twitter	Fun weekend!
##	810	2023-08-18	Slack	Great work!
##	811	2023-08-17	Twitter	Need assistance
##	812	2023-08-10	Slack	Hello everyone!
##	813	2023-08-12	Email	Exciting news!
##	814	2023-08-04	Slack	Need assistance
##	815	2023-08-13	Email	Exciting news!
##	816	2023-08-04	Email	Fun weekend!
##	817	2023-08-09	Email	Fun weekend!
##	818	2023-08-11	Twitter	Hello everyone!
##	819	2023-08-08	Slack	Hello everyone!
##	820	2023-08-11	Email	Team meeting
##	821	2023-08-18	Twitter	Fun weekend!
##	822	2023-08-16	Slack	Fun weekend!
##	823	2023-08-06	Slack	Need assistance
##	824	2023-08-04	Slack	Fun weekend!
##	825	2023-08-14	Twitter	Fun weekend!
##	826	2023-08-09	Twitter	Hello everyone!
##	827	2023-08-12	Email	Team meeting
##	828	2023-08-03	Slack	Need assistance
##	829	2023-08-07	Slack	Hello everyone!
##	830	2023-08-18	Twitter	Great work!
##	831	2023-08-20	Slack	Fun weekend!
##	832	2023-08-03	Email	Fun weekend!
##	833	2023-08-14	Slack	Team meeting
##	834	2023-08-18	Twitter	Fun weekend!
##	835	2023-08-03	Email	Hello everyone!
##	836	2023-08-12	Twitter	Team meeting
##	837	2023-08-10	Twitter	Great work!
##	838	2023-08-18	Slack	Fun weekend!

##	839	2023-08-19	Email	Great work!
##	840	2023-08-03	Email	Need assistance
##	841	2023-08-19	Email	Hello everyone!
##	842	2023-08-11	Slack	Fun weekend!
##	843	2023-08-20	Slack	Hello everyone!
##	844	2023-08-05	Twitter	Exciting news!
##	845	2023-08-14	Twitter	Great work!
##	846	2023-08-10	Email	Exciting news!
##	847	2023-08-10	Twitter	Great work!
##	848	2023-08-07	Twitter	Great work!
##	849	2023-08-03	Slack	Hello everyone!
##	850	2023-08-08	Slack	Need assistance
##	851	2023-08-16	Slack	Exciting news!
##	852	2023-08-12	Email	Need assistance
##	853	2023-08-10	Email	Fun weekend!
##	854	2023-08-19	Email	Great work!
##	855	2023-08-19	Email	Team meeting
##	856	2023-08-05	Email	Hello everyone!
##	857	2023-08-05	Twitter	Hello everyone!
##	858	2023-08-12	Twitter	Fun weekend!
##	859	2023-08-03	Twitter	Hello everyone!
##	860	2023-08-19	Twitter	Exciting news!
##	861	2023-08-05	Email	Hello everyone!
##	862	2023-08-07	Slack	Hello everyone!
##	863	2023-08-14	Twitter	Fun weekend!
##	864	2023-08-11	Twitter	Need assistance
##	865	2023-08-04	Twitter	Exciting news!
##	866	2023-08-07	Slack	Fun weekend!
##	867	2023-08-10	Twitter	Team meeting
##	868	2023-08-06	Slack	Great work!
##	869	2023-08-10	Slack	Exciting news!
##	870	2023-08-01	Slack	Need assistance
##	871	2023-08-17	Email	Exciting news!
##	872	2023-08-15	Twitter	Hello everyone!
##	873	2023-08-16	Twitter	Team meeting
##	874	2023-08-13	Slack	Hello everyone!
##	875	2023-08-03	Slack	Great work!
##	876	2023-08-14	Twitter	Great work!
##	877	2023-08-01	Twitter	Exciting news!
##	878	2023-08-05	Email	Need assistance
##	879	2023-08-14	Slack	Hello everyone!
##	880	2023-08-07	Twitter	Great work!
##	881	2023-08-12	Email	Need assistance
##	882	2023-08-14	Slack	Hello everyone!
##	883	2023-08-07	Slack	Great work!
##	884	2023-08-05	Twitter	Fun weekend!
##	885	2023-08-01	Email	Great work!
##	886	2023-08-14	Email	Hello everyone!
##	887	2023-08-16	Email	Great work!
##	888	2023-08-08	Twitter	Need assistance
##	889	2023-08-13	Email	Need assistance
##	890	2023-08-01	Twitter	Great work!
##	891	2023-08-09	Email	Fun weekend!
##	892	2023-08-19	Slack	Team meeting
##	893	2023-08-19	Slack	Team meeting
##	894	2023-08-06	Slack	Need assistance

##	895	2023-08-01	Email	Team meeting
##	896	2023-08-01	Email	Great work!
##	897	2023-08-05	Email	Team meeting
##	898	2023-08-06	Email	Hello everyone!
##	899	2023-08-11	Slack	Team meeting
##	900	2023-08-20	Email	Team meeting
##	901	2023-08-03	Slack	Need assistance
##	902	2023-08-18	Slack	Team meeting
##	903	2023-08-10	Email	Need assistance
##	904	2023-08-17	Twitter	Great work!
##	905	2023-08-08	Slack	Team meeting
##	906	2023-08-20	Twitter	Exciting news!
##	907	2023-08-07	Twitter	Great work!
##	908	2023-08-15	Slack	Need assistance
##	909	2023-08-08	Email	Great work!
##	910	2023-08-14	Email	Fun weekend!
##	911	2023-08-01	Twitter	Need assistance
##	912	2023-08-10	Twitter	Fun weekend!
##	913	2023-08-20	Twitter	Great work!
##	914	2023-08-10	Slack	Need assistance
##	915	2023-08-02	Slack	Fun weekend!
##	916	2023-08-09	Email	Fun weekend!
##	917	2023-08-10	Slack	Need assistance
##	918	2023-08-13	Email	Hello everyone!
##	919	2023-08-05	Slack	Fun weekend!
##	920	2023-08-20	Email	Team meeting
##	921	2023-08-15	Twitter	Great work!
##	922	2023-08-18	Slack	Fun weekend!
##	923	2023-08-12	Twitter	Need assistance
##	924	2023-08-17	Twitter	Exciting news!
##	925	2023-08-10	Slack	Great work!
##	926	2023-08-10	Slack	Team meeting
##	927	2023-08-02	Slack	Great work!
##	928	2023-08-10	Twitter	Need assistance
##	929	2023-08-09	Slack	Need assistance
##	930	2023-08-18	Twitter	Hello everyone!
##	931	2023-08-01	Email	Great work!
##	932	2023-08-11	Email	Fun weekend!
##	933	2023-08-03	Slack	Need assistance
##	934	2023-08-20	Email	Hello everyone!
##	935	2023-08-17	Email	Team meeting
##	936	2023-08-13	Twitter	Exciting news!
##	937	2023-08-13	Twitter	Fun weekend!
##	938	2023-08-04	Email	Great work!
##	939	2023-08-16	Email	Need assistance
##	940	2023-08-17	Twitter	Need assistance
##	941	2023-08-06	Twitter	Exciting news!
##	942	2023-08-01	Slack	Exciting news!
##	943	2023-08-08	Email	Exciting news!
##	944	2023-08-13	Twitter	Great work!
##	945	2023-08-06	Slack	Exciting news!
##	946	2023-08-08	Email	Hello everyone!
##	947	2023-08-20	Slack	Hello everyone!
##	948	2023-08-01	Twitter	Need assistance
##	949	2023-08-02	Slack	Exciting news!
##	950	2023-08-11	Email	Need assistance

##	951	2023-08-11	Slack	Great work!
##	952	2023-08-05	Slack	Need assistance
##	953	2023-08-07	Email	Fun weekend!
##	954	2023-08-20	Twitter	Hello everyone!
##	955	2023-08-01	Slack	Need assistance
##	956	2023-08-09	Email	Need assistance
##	957	2023-08-12	Slack	Need assistance
##	958	2023-08-19	Slack	Exciting news!
##	959	2023-08-17	Twitter	Exciting news!
##	960	2023-08-11	Twitter	Hello everyone!
##	961	2023-08-17	Twitter	Team meeting
##	962	2023-08-06	Email	Need assistance
##	963	2023-08-10	Email	Exciting news!
##	964	2023-08-18	Email	Need assistance
##	965	2023-08-07	Slack	Great work!
##	966	2023-08-09	Email	Team meeting
##	967	2023-08-18	Twitter	Great work!
##	968	2023-08-06	Twitter	Team meeting
##	969	2023-08-02	Slack	Great work!
##	970	2023-08-17	Email	Need assistance
##	971	2023-08-08	Email	Team meeting
##	972	2023-08-20	Twitter	Exciting news!
##	973	2023-08-02	Twitter	Need assistance
##	974	2023-08-08	Slack	Exciting news!
##	975	2023-08-01	Email	Fun weekend!
##	976	2023-08-12	Twitter	Great work!
##	977	2023-08-19	Twitter	Hello everyone!
##	978	2023-08-12	Twitter	Team meeting
##	979	2023-08-07	Slack	Great work!
##	980	2023-08-08	Twitter	Great work!
##	981	2023-08-14	Email	Great work!
##	982	2023-08-13	Email	Fun weekend!
##	983	2023-08-18	Email	Team meeting
##	984	2023-08-10	Twitter	Fun weekend!
##	985	2023-08-03	Slack	Need assistance
##	986	2023-08-08	Twitter	Need assistance
##	987	2023-08-05	Email	Team meeting
##	988	2023-08-17	Slack	Hello everyone!
##	989	2023-08-03	Slack	Great work!
##	990	2023-08-07	Slack	Fun weekend!
##	991	2023-08-18	Slack	Great work!
##	992	2023-08-12	Slack	Hello everyone!
##	993	2023-08-10	Email	Need assistance
##	994	2023-08-14	Slack	Exciting news!
##	995	2023-08-04	Twitter	Team meeting
##	996	2023-08-05	Twitter	Hello everyone!
##	997	2023-08-12	Twitter	Exciting news!
##	998	2023-08-07	Slack	Exciting news!
##	999	2023-08-08	Slack	Fun weekend!
##	1000	2023-08-03	Email	Hello everyone!

## Question-2: Channel Selection

Use the filter command to create a new dataframe that includes messages sent through the “Twitter” channel on August 2nd.

**Solution:**

```
# Enter code here
library(dplyr)
comm_data%>%mutate(channel_selection='channel+date+message')%>%
filter(channel=='Twitter',date=='2023-08-02')
```

```
##           date channel      sender      message sentiment
## 1  2023-08-02 Twitter alice@example    Team meeting  0.2100900
## 2  2023-08-02 Twitter @erin_tweets  Exciting news!  0.7504925
## 3  2023-08-02 Twitter dave@example  Exciting news!  0.8171056
## 4  2023-08-02 Twitter @erin_tweets  Exciting news!  0.5815569
## 5  2023-08-02 Twitter @erin_tweets  Exciting news! -0.5251436
## 6  2023-08-02 Twitter alice@example    Team meeting  0.9649580
## 7  2023-08-02 Twitter dave@example    Great work!   0.5161380
## 8  2023-08-02 Twitter carol_slack  Hello everyone!  0.4509874
## 9  2023-08-02 Twitter carol_slack  Hello everyone!  0.1738512
## 10 2023-08-02 Twitter carol_slack  Need assistance  0.2159540
## 11 2023-08-02 Twitter @frank_chat  Need assistance -0.1151795
## 12 2023-08-02 Twitter alice@example  Need assistance  0.1576534
## 13 2023-08-02 Twitter carol_slack  Exciting news! -0.6932178
## 14 2023-08-02 Twitter @bob_tweets  Need assistance -0.2819158
## 15 2023-08-02 Twitter @erin_tweets  Need assistance  0.8210797
##           channel_selection
## 1  channel+date+message
## 2  channel+date+message
## 3  channel+date+message
## 4  channel+date+message
## 5  channel+date+message
## 6  channel+date+message
## 7  channel+date+message
## 8  channel+date+message
## 9  channel+date+message
## 10 channel+date+message
## 11 channel+date+message
## 12 channel+date+message
## 13 channel+date+message
## 14 channel+date+message
## 15 channel+date+message
```

### Question-3: Chronological Order

Utilizing the arrange command, arrange the “comm\_data” dataframe in ascending order based on the “date” column.

**Solution:**

```
# Enter code here
arrange(comm_data,date)
```

##	date	channel	sender	message	sentiment
## 1	2023-08-01	Twitter	alice@example	Need assistance	0.676776995
## 2	2023-08-01	Twitter	@bob_tweets	Need assistance	0.148395223
## 3	2023-08-01	Twitter	@frank_chat	Need assistance	0.599045397
## 4	2023-08-01	Twitter	@frank_chat	Exciting news!	-0.822780307
## 5	2023-08-01	Slack	@frank_chat	Team meeting	-0.202094683
## 6	2023-08-01	Slack	@bob_tweets	Exciting news!	0.146396939
## 7	2023-08-01	Slack	@erin_tweets	Great work!	0.244422906
## 8	2023-08-01	Twitter	@frank_chat	Team meeting	-0.526283488
## 9	2023-08-01	Twitter	@frank_chat	Exciting news!	-0.398672424
## 10	2023-08-01	Slack	@frank_chat	Need assistance	0.601800072
## 11	2023-08-01	Slack	carol_slack	Hello everyone!	0.802523659
## 12	2023-08-01	Slack	dave@example	Team meeting	-0.176315426
## 13	2023-08-01	Email	carol_slack	Fun weekend!	0.757286296
## 14	2023-08-01	Email	@frank_chat	Team meeting	-0.670432338
## 15	2023-08-01	Twitter	@bob_tweets	Exciting news!	-0.452694423
## 16	2023-08-01	Slack	carol_slack	Fun weekend!	-0.877705400
## 17	2023-08-01	Email	carol_slack	Need assistance	-0.130674560
## 18	2023-08-01	Slack	dave@example	Team meeting	0.093826082
## 19	2023-08-01	Twitter	@frank_chat	Great work!	0.473425272
## 20	2023-08-01	Twitter	@bob_tweets	Hello everyone!	-0.918783627
## 21	2023-08-01	Twitter	@erin_tweets	Hello everyone!	0.524320859
## 22	2023-08-01	Twitter	dave@example	Hello everyone!	0.530999278
## 23	2023-08-01	Slack	@erin_tweets	Team meeting	0.031597136
## 24	2023-08-01	Slack	@bob_tweets	Exciting news!	-0.024743940
## 25	2023-08-01	Email	@frank_chat	Fun weekend!	-0.797102704
## 26	2023-08-01	Twitter	carol_slack	Great work!	0.406890230
## 27	2023-08-01	Email	@bob_tweets	Hello everyone!	0.902623749
## 28	2023-08-01	Slack	@frank_chat	Hello everyone!	-0.572465386
## 29	2023-08-01	Twitter	@frank_chat	Need assistance	-0.970480603
## 30	2023-08-01	Slack	@frank_chat	Team meeting	-0.113114946
## 31	2023-08-01	Email	@bob_tweets	Team meeting	0.783531986
## 32	2023-08-01	Twitter	@erin_tweets	Hello everyone!	-0.325806037
## 33	2023-08-01	Twitter	@frank_chat	Great work!	0.159243134
## 34	2023-08-01	Slack	@bob_tweets	Need assistance	-0.614020258
## 35	2023-08-01	Twitter	@erin_tweets	Exciting news!	0.423581860
## 36	2023-08-01	Email	carol_slack	Great work!	0.605523043
## 37	2023-08-01	Twitter	carol_slack	Great work!	-0.311684015
## 38	2023-08-01	Email	@frank_chat	Team meeting	-0.307752223
## 39	2023-08-01	Email	dave@example	Great work!	-0.948017055
## 40	2023-08-01	Twitter	@frank_chat	Need assistance	-0.003094339
## 41	2023-08-01	Email	carol_slack	Great work!	-0.389590032
## 42	2023-08-01	Slack	alice@example	Exciting news!	0.350437745
## 43	2023-08-01	Twitter	@frank_chat	Need assistance	-0.696885624
## 44	2023-08-01	Slack	dave@example	Need assistance	-0.988749139
## 45	2023-08-01	Email	@erin_tweets	Fun weekend!	0.203746784
## 46	2023-08-02	Email	dave@example	Great work!	0.973676749
## 47	2023-08-02	Twitter	alice@example	Team meeting	0.210089974
## 48	2023-08-02	Slack	@erin_tweets	Fun weekend!	-0.474169046
## 49	2023-08-02	Twitter	@erin_tweets	Exciting news!	0.750492542
## 50	2023-08-02	Slack	@erin_tweets	Exciting news!	0.900116188
## 51	2023-08-02	Twitter	dave@example	Exciting news!	0.817105632
## 52	2023-08-02	Twitter	@erin_tweets	Exciting news!	0.581556937
## 53	2023-08-02	Twitter	@erin_tweets	Exciting news!	-0.525143623
## 54	2023-08-02	Twitter	alice@example	Team meeting	0.964958043

## 55	2023-08-02	Email	dave@example	Exciting news!	0.717076284
## 56	2023-08-02	Slack	alice@example	Fun weekend!	0.823352248
## 57	2023-08-02	Email	dave@example	Fun weekend!	-0.357268680
## 58	2023-08-02	Twitter	dave@example	Great work!	0.516138048
## 59	2023-08-02	Email	dave@example	Exciting news!	-0.212464974
## 60	2023-08-02	Email	alice@example	Great work!	-0.784876938
## 61	2023-08-02	Slack	alice@example	Fun weekend!	-0.485003887
## 62	2023-08-02	Twitter	carol_slack	Hello everyone!	0.450987421
## 63	2023-08-02	Slack	@bob_tweets	Exciting news!	0.365244868
## 64	2023-08-02	Twitter	carol_slack	Hello everyone!	0.173851238
## 65	2023-08-02	Twitter	carol_slack	Need assistance	0.215954025
## 66	2023-08-02	Twitter	@frank_chat	Need assistance	-0.115179492
## 67	2023-08-02	Slack	carol_slack	Hello everyone!	0.805289558
## 68	2023-08-02	Twitter	alice@example	Need assistance	0.157653404
## 69	2023-08-02	Twitter	carol_slack	Exciting news!	-0.693217811
## 70	2023-08-02	Twitter	@bob_tweets	Need assistance	-0.281915764
## 71	2023-08-02	Email	@frank_chat	Fun weekend!	0.129630754
## 72	2023-08-02	Slack	carol_slack	Great work!	0.066785066
## 73	2023-08-02	Slack	carol_slack	Fun weekend!	0.045978463
## 74	2023-08-02	Slack	@bob_tweets	Great work!	-0.666475324
## 75	2023-08-02	Slack	dave@example	Exciting news!	-0.662697271
## 76	2023-08-02	Slack	@erin_tweets	Great work!	-0.887057793
## 77	2023-08-02	Twitter	@erin_tweets	Need assistance	0.821079701
## 78	2023-08-03	Email	@erin_tweets	Fun weekend!	0.924321534
## 79	2023-08-03	Twitter	@bob_tweets	Exciting news!	-0.408464086
## 80	2023-08-03	Twitter	@erin_tweets	Need assistance	-0.680233249
## 81	2023-08-03	Twitter	alice@example	Hello everyone!	0.530733542
## 82	2023-08-03	Twitter	carol_slack	Exciting news!	0.044649603
## 83	2023-08-03	Twitter	@bob_tweets	Hello everyone!	-0.243440011
## 84	2023-08-03	Email	dave@example	Hello everyone!	0.575844854
## 85	2023-08-03	Twitter	dave@example	Team meeting	-0.024207670
## 86	2023-08-03	Email	@erin_tweets	Team meeting	0.100578078
## 87	2023-08-03	Twitter	@bob_tweets	Need assistance	0.115823371
## 88	2023-08-03	Twitter	carol_slack	Great work!	0.646422371
## 89	2023-08-03	Twitter	carol_slack	Great work!	0.049291416
## 90	2023-08-03	Slack	alice@example	Great work!	-0.150377708
## 91	2023-08-03	Twitter	dave@example	Hello everyone!	0.902683333
## 92	2023-08-03	Slack	dave@example	Great work!	-0.488912587
## 93	2023-08-03	Twitter	alice@example	Hello everyone!	-0.893453151
## 94	2023-08-03	Email	@frank_chat	Need assistance	-0.345415825
## 95	2023-08-03	Email	@erin_tweets	Great work!	-0.900102365
## 96	2023-08-03	Twitter	alice@example	Hello everyone!	-0.567197050
## 97	2023-08-03	Twitter	@erin_tweets	Fun weekend!	-0.345988781
## 98	2023-08-03	Email	carol_slack	Need assistance	0.247236022
## 99	2023-08-03	Email	@frank_chat	Hello everyone!	0.488557915
## 100	2023-08-03	Twitter	alice@example	Need assistance	0.747163485
## 101	2023-08-03	Slack	@erin_tweets	Team meeting	-0.812502595
## 102	2023-08-03	Slack	@frank_chat	Exciting news!	0.591279314
## 103	2023-08-03	Slack	carol_slack	Great work!	-0.777630202
## 104	2023-08-03	Email	@frank_chat	Great work!	-0.022698464
## 105	2023-08-03	Email	@frank_chat	Great work!	-0.222633559
## 106	2023-08-03	Slack	@erin_tweets	Need assistance	-0.173975688
## 107	2023-08-03	Email	alice@example	Hello everyone!	0.713812393
## 108	2023-08-03	Slack	alice@example	Fun weekend!	0.542070733
## 109	2023-08-03	Email	@frank_chat	Fun weekend!	0.992682932
## 110	2023-08-03	Slack	alice@example	Need assistance	0.135939530

## 111	2023-08-03	Email	alice@example	Fun weekend!	0.312383833
## 112	2023-08-03	Email	alice@example	Hello everyone!	-0.440484574
## 113	2023-08-03	Email	carol_slack	Need assistance	-0.161143415
## 114	2023-08-03	Slack	@frank_chat	Hello everyone!	0.368215033
## 115	2023-08-03	Twitter	@bob_tweets	Hello everyone!	0.401231622
## 116	2023-08-03	Slack	@bob_tweets	Great work!	0.884830707
## 117	2023-08-03	Slack	@erin_tweets	Need assistance	-0.600851388
## 118	2023-08-03	Slack	@erin_tweets	Need assistance	0.896539724
## 119	2023-08-03	Slack	@bob_tweets	Need assistance	0.496275815
## 120	2023-08-03	Slack	dave@example	Great work!	0.675534202
## 121	2023-08-03	Email	@frank_chat	Hello everyone!	0.583445542
## 122	2023-08-04	Email	@erin_tweets	Need assistance	-0.108376242
## 123	2023-08-04	Slack	alice@example	Hello everyone!	-0.187917918
## 124	2023-08-04	Email	@bob_tweets	Fun weekend!	-0.539049788
## 125	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.185009266
## 126	2023-08-04	Slack	alice@example	Need assistance	0.534302738
## 127	2023-08-04	Slack	@bob_tweets	Fun weekend!	0.866016825
## 128	2023-08-04	Email	alice@example	Exciting news!	-0.200843529
## 129	2023-08-04	Email	@erin_tweets	Need assistance	0.689327837
## 130	2023-08-04	Twitter	dave@example	Need assistance	-0.635092593
## 131	2023-08-04	Slack	@frank_chat	Need assistance	0.691338675
## 132	2023-08-04	Slack	carol_slack	Fun weekend!	-0.049394990
## 133	2023-08-04	Email	alice@example	Great work!	-0.769964864
## 134	2023-08-04	Email	@frank_chat	Need assistance	0.063336529
## 135	2023-08-04	Email	@bob_tweets	Need assistance	0.017915569
## 136	2023-08-04	Slack	dave@example	Fun weekend!	-0.848228461
## 137	2023-08-04	Slack	alice@example	Team meeting	-0.111247493
## 138	2023-08-04	Email	@frank_chat	Great work!	-0.317266905
## 139	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.163814227
## 140	2023-08-04	Email	@erin_tweets	Fun weekend!	-0.415885320
## 141	2023-08-04	Slack	carol_slack	Need assistance	0.088740259
## 142	2023-08-04	Email	alice@example	Exciting news!	0.308247630
## 143	2023-08-04	Twitter	@bob_tweets	Exciting news!	-0.122806889
## 144	2023-08-04	Slack	@frank_chat	Need assistance	0.933738099
## 145	2023-08-04	Email	@frank_chat	Great work!	0.263225980
## 146	2023-08-04	Twitter	dave@example	Fun weekend!	0.463157478
## 147	2023-08-04	Email	@bob_tweets	Team meeting	-0.235653992
## 148	2023-08-04	Email	alice@example	Hello everyone!	0.161035733
## 149	2023-08-04	Twitter	@bob_tweets	Hello everyone!	-0.774547359
## 150	2023-08-04	Twitter	carol_slack	Exciting news!	-0.615862965
## 151	2023-08-04	Slack	@bob_tweets	Hello everyone!	-0.161284721
## 152	2023-08-04	Slack	dave@example	Fun weekend!	0.796501584
## 153	2023-08-04	Email	@erin_tweets	Need assistance	-0.070094255
## 154	2023-08-04	Twitter	dave@example	Fun weekend!	-0.495438306
## 155	2023-08-04	Email	carol_slack	Need assistance	0.188933107
## 156	2023-08-04	Twitter	alice@example	Fun weekend!	-0.693275109
## 157	2023-08-04	Email	@bob_tweets	Fun weekend!	0.419715998
## 158	2023-08-04	Twitter	@erin_tweets	Hello everyone!	-0.217646003
## 159	2023-08-04	Twitter	@frank_chat	Exciting news!	0.795437461
## 160	2023-08-04	Slack	@frank_chat	Need assistance	0.165087673
## 161	2023-08-04	Email	@bob_tweets	Fun weekend!	-0.953222217
## 162	2023-08-04	Slack	@frank_chat	Fun weekend!	-0.530567507
## 163	2023-08-04	Twitter	@bob_tweets	Exciting news!	0.053784013
## 164	2023-08-04	Email	@bob_tweets	Great work!	-0.251496902
## 165	2023-08-04	Twitter	dave@example	Team meeting	-0.785379849
## 166	2023-08-05	Email	carol_slack	Exciting news!	0.468174768



## 167	2023-08-05	Slack	@erin_tweets	Need assistance	-0.195926677
## 168	2023-08-05	Twitter	alice@example	Great work!	-0.630844017
## 169	2023-08-05	Twitter	@bob_tweets	Need assistance	0.089429019
## 170	2023-08-05	Slack	@bob_tweets	Hello everyone!	-0.940684421
## 171	2023-08-05	Slack	@bob_tweets	Team meeting	-0.386754569
## 172	2023-08-05	Email	@erin_tweets	Exciting news!	0.549038415
## 173	2023-08-05	Slack	carol_slack	Team meeting	-0.320228465
## 174	2023-08-05	Twitter	carol_slack	Fun weekend!	0.706561523
## 175	2023-08-05	Slack	@erin_tweets	Need assistance	0.519475343
## 176	2023-08-05	Twitter	alice@example	Team meeting	0.824948560
## 177	2023-08-05	Slack	@erin_tweets	Exciting news!	-0.302134784
## 178	2023-08-05	Twitter	carol_slack	Team meeting	0.364639959
## 179	2023-08-05	Email	carol_slack	Fun weekend!	0.451752027
## 180	2023-08-05	Email	@bob_tweets	Hello everyone!	0.616259416
## 181	2023-08-05	Twitter	@bob_tweets	Hello everyone!	-0.038818533
## 182	2023-08-05	Email	carol_slack	Need assistance	0.558824511
## 183	2023-08-05	Email	@frank_chat	Exciting news!	0.567230823
## 184	2023-08-05	Email	@frank_chat	Team meeting	-0.094959955
## 185	2023-08-05	Email	carol_slack	Need assistance	0.300882405
## 186	2023-08-05	Twitter	dave@example	Team meeting	0.779166287
## 187	2023-08-05	Twitter	dave@example	Fun weekend!	-0.021554315
## 188	2023-08-05	Twitter	alice@example	Team meeting	0.082249742
## 189	2023-08-05	Slack	carol_slack	Great work!	0.470731148
## 190	2023-08-05	Email	@erin_tweets	Great work!	0.830162693
## 191	2023-08-05	Slack	@bob_tweets	Need assistance	0.291605130
## 192	2023-08-05	Email	alice@example	Fun weekend!	0.347548683
## 193	2023-08-05	Twitter	dave@example	Great work!	0.245927144
## 194	2023-08-05	Email	@erin_tweets	Exciting news!	-0.283369262
## 195	2023-08-05	Twitter	alice@example	Exciting news!	0.722319741
## 196	2023-08-05	Twitter	dave@example	Great work!	0.544805384
## 197	2023-08-05	Twitter	carol_slack	Hello everyone!	0.130742100
## 198	2023-08-05	Slack	dave@example	Great work!	0.018169560
## 199	2023-08-05	Twitter	@bob_tweets	Exciting news!	-0.798021044
## 200	2023-08-05	Email	@bob_tweets	Hello everyone!	0.725036937
## 201	2023-08-05	Twitter	carol_slack	Hello everyone!	-0.279889458
## 202	2023-08-05	Email	alice@example	Hello everyone!	-0.822144668
## 203	2023-08-05	Email	alice@example	Need assistance	0.694902051
## 204	2023-08-05	Twitter	@erin_tweets	Fun weekend!	0.619198539
## 205	2023-08-05	Email	@frank_chat	Team meeting	0.611721705
## 206	2023-08-05	Slack	@erin_tweets	Fun weekend!	-0.240693055
## 207	2023-08-05	Slack	@frank_chat	Need assistance	-0.129298556
## 208	2023-08-05	Email	@bob_tweets	Team meeting	0.243233590
## 209	2023-08-05	Twitter	@frank_chat	Hello everyone!	0.599585856
## 210	2023-08-06	Email	@frank_chat	Team meeting	0.819675826
## 211	2023-08-06	Slack	dave@example	Hello everyone!	0.968081689
## 212	2023-08-06	Twitter	@erin_tweets	Exciting news!	-0.415566467
## 213	2023-08-06	Email	carol_slack	Great work!	-0.579760317
## 214	2023-08-06	Twitter	alice@example	Hello everyone!	-0.882707532
## 215	2023-08-06	Slack	@bob_tweets	Hello everyone!	-0.452905738
## 216	2023-08-06	Slack	@frank_chat	Hello everyone!	-0.050532605
## 217	2023-08-06	Twitter	@bob_tweets	Fun weekend!	-0.149422837
## 218	2023-08-06	Email	@bob_tweets	Fun weekend!	0.201027735
## 219	2023-08-06	Twitter	dave@example	Exciting news!	-0.433124611
## 220	2023-08-06	Email	@bob_tweets	Fun weekend!	-0.159573650
## 221	2023-08-06	Slack	@frank_chat	Need assistance	0.746888391
## 222	2023-08-06	Slack	@bob_tweets	Fun weekend!	-0.927836751

##	223	2023-08-06	Twitter	carol_slack	Team meeting	-0.385177557
##	224	2023-08-06	Email	dave@example	Need assistance	-0.438415068
##	225	2023-08-06	Twitter	@bob_tweets	Team meeting	-0.549432104
##	226	2023-08-06	Slack	alice@example	Fun weekend!	-0.103599444
##	227	2023-08-06	Email	carol_slack	Great work!	0.766328182
##	228	2023-08-06	Slack	alice@example	Fun weekend!	-0.143456620
##	229	2023-08-06	Email	@frank_chat	Exciting news!	0.696377364
##	230	2023-08-06	Slack	alice@example	Great work!	-0.545365768
##	231	2023-08-06	Email	@frank_chat	Fun weekend!	0.791513952
##	232	2023-08-06	Twitter	dave@example	Need assistance	-0.064178423
##	233	2023-08-06	Twitter	@bob_tweets	Hello everyone!	0.116596443
##	234	2023-08-06	Slack	dave@example	Team meeting	-0.536957865
##	235	2023-08-06	Email	@erin_tweets	Need assistance	0.664381829
##	236	2023-08-06	Email	@bob_tweets	Great work!	-0.400677142
##	237	2023-08-06	Slack	alice@example	Need assistance	0.037042340
##	238	2023-08-06	Email	@erin_tweets	Hello everyone!	-0.172054263
##	239	2023-08-06	Email	dave@example	Hello everyone!	-0.987261285
##	240	2023-08-06	Slack	carol_slack	Exciting news!	-0.633368273
##	241	2023-08-06	Slack	@bob_tweets	Fun weekend!	-0.895003283
##	242	2023-08-06	Twitter	dave@example	Fun weekend!	0.005671109
##	243	2023-08-06	Email	@erin_tweets	Hello everyone!	0.905330024
##	244	2023-08-06	Slack	alice@example	Hello everyone!	0.710270591
##	245	2023-08-06	Email	carol_slack	Hello everyone!	0.076276061
##	246	2023-08-06	Email	@bob_tweets	Great work!	-0.417041691
##	247	2023-08-06	Twitter	@bob_tweets	Exciting news!	0.979591473
##	248	2023-08-06	Twitter	carol_slack	Fun weekend!	0.394200163
##	249	2023-08-06	Slack	@erin_tweets	Exciting news!	0.063273371
##	250	2023-08-06	Slack	carol_slack	Need assistance	0.572155187
##	251	2023-08-06	Slack	@erin_tweets	Great work!	-0.387922954
##	252	2023-08-06	Slack	@bob_tweets	Need assistance	0.743181323
##	253	2023-08-06	Email	@erin_tweets	Hello everyone!	-0.318016798
##	254	2023-08-06	Twitter	carol_slack	Exciting news!	-0.329569053
##	255	2023-08-06	Slack	carol_slack	Exciting news!	-0.249575844
##	256	2023-08-06	Email	dave@example	Need assistance	0.492307736
##	257	2023-08-06	Twitter	dave@example	Team meeting	0.165403601
##	258	2023-08-07	Email	@bob_tweets	Great work!	0.642848774
##	259	2023-08-07	Email	dave@example	Team meeting	0.327507946
##	260	2023-08-07	Email	@frank_chat	Fun weekend!	0.387379609
##	261	2023-08-07	Slack	@frank_chat	Need assistance	0.914976185
##	262	2023-08-07	Email	alice@example	Great work!	-0.329095908
##	263	2023-08-07	Slack	@bob_tweets	Need assistance	-0.356371285
##	264	2023-08-07	Slack	@frank_chat	Exciting news!	0.993148146
##	265	2023-08-07	Email	alice@example	Exciting news!	0.773558143
##	266	2023-08-07	Twitter	@bob_tweets	Fun weekend!	-0.390309056
##	267	2023-08-07	Email	@erin_tweets	Great work!	-0.446627778
##	268	2023-08-07	Slack	alice@example	Exciting news!	-0.686074989
##	269	2023-08-07	Email	alice@example	Hello everyone!	0.917979236
##	270	2023-08-07	Email	carol_slack	Exciting news!	0.785684678
##	271	2023-08-07	Slack	alice@example	Need assistance	0.877496709
##	272	2023-08-07	Email	@bob_tweets	Team meeting	-0.767587414
##	273	2023-08-07	Twitter	dave@example	Team meeting	-0.014527882
##	274	2023-08-07	Slack	@erin_tweets	Hello everyone!	0.079340591
##	275	2023-08-07	Slack	@bob_tweets	Need assistance	-0.611560303
##	276	2023-08-07	Slack	carol_slack	Hello everyone!	0.973429719
##	277	2023-08-07	Slack	@bob_tweets	Exciting news!	0.370947586
##	278	2023-08-07	Slack	@erin_tweets	Great work!	-0.643276188

## 279	2023-08-07	Twitter	dave@example	Exciting news!	0.466239469
## 280	2023-08-07	Slack	carol_slack	Team meeting	0.190247875
## 281	2023-08-07	Twitter	carol_slack	Need assistance	0.895823483
## 282	2023-08-07	Twitter	carol_slack	Great work!	0.805481421
## 283	2023-08-07	Email	@bob_tweets	Team meeting	-0.150205611
## 284	2023-08-07	Slack	alice@example	Fun weekend!	0.397376804
## 285	2023-08-07	Twitter	carol_slack	Hello everyone!	-0.355751095
## 286	2023-08-07	Email	dave@example	Hello everyone!	-0.526591262
## 287	2023-08-07	Slack	alice@example	Team meeting	0.569526526
## 288	2023-08-07	Slack	dave@example	Need assistance	-0.718395420
## 289	2023-08-07	Email	@bob_tweets	Team meeting	-0.423585835
## 290	2023-08-07	Email	dave@example	Exciting news!	-0.184577833
## 291	2023-08-07	Email	@frank_chat	Team meeting	0.192018484
## 292	2023-08-07	Email	@bob_tweets	Exciting news!	-0.616928389
## 293	2023-08-07	Email	dave@example	Great work!	-0.359934055
## 294	2023-08-07	Slack	dave@example	Exciting news!	-0.823877914
## 295	2023-08-07	Twitter	@frank_chat	Great work!	-0.823533585
## 296	2023-08-07	Email	@frank_chat	Hello everyone!	-0.143556185
## 297	2023-08-07	Email	dave@example	Fun weekend!	-0.735883705
## 298	2023-08-07	Twitter	alice@example	Team meeting	-0.365139902
## 299	2023-08-07	Slack	@erin_tweets	Team meeting	-0.780283807
## 300	2023-08-07	Email	@bob_tweets	Team meeting	-0.232356975
## 301	2023-08-07	Slack	@bob_tweets	Great work!	-0.311243319
## 302	2023-08-07	Email	@bob_tweets	Exciting news!	0.244900235
## 303	2023-08-07	Slack	alice@example	Great work!	0.580541194
## 304	2023-08-07	Slack	@bob_tweets	Need assistance	0.251102221
## 305	2023-08-07	Slack	dave@example	Hello everyone!	0.747580624
## 306	2023-08-07	Slack	@bob_tweets	Need assistance	-0.846264025
## 307	2023-08-07	Slack	dave@example	Hello everyone!	0.593321668
## 308	2023-08-07	Twitter	@erin_tweets	Great work!	-0.597466531
## 309	2023-08-07	Slack	@bob_tweets	Hello everyone!	-0.160779689
## 310	2023-08-07	Slack	@bob_tweets	Fun weekend!	-0.511013610
## 311	2023-08-07	Twitter	@bob_tweets	Great work!	-0.389785778
## 312	2023-08-07	Slack	@bob_tweets	Great work!	0.872962321
## 313	2023-08-07	Twitter	@bob_tweets	Great work!	-0.548428072
## 314	2023-08-07	Email	@bob_tweets	Fun weekend!	0.079245736
## 315	2023-08-07	Slack	carol_slack	Great work!	0.937586371
## 316	2023-08-07	Slack	@bob_tweets	Great work!	0.170066014
## 317	2023-08-07	Slack	alice@example	Fun weekend!	0.844455994
## 318	2023-08-07	Slack	carol_slack	Exciting news!	0.186763622
## 319	2023-08-08	Slack	@erin_tweets	Need assistance	-0.879413284
## 320	2023-08-08	Email	@bob_tweets	Need assistance	0.115187556
## 321	2023-08-08	Email	carol_slack	Team meeting	0.213498762
## 322	2023-08-08	Twitter	@frank_chat	Hello everyone!	-0.081353148
## 323	2023-08-08	Email	carol_slack	Fun weekend!	0.670605208
## 324	2023-08-08	Email	dave@example	Need assistance	0.084778340
## 325	2023-08-08	Slack	carol_slack	Exciting news!	-0.388513986
## 326	2023-08-08	Slack	@erin_tweets	Great work!	-0.410223121
## 327	2023-08-08	Email	alice@example	Exciting news!	-0.007040349
## 328	2023-08-08	Twitter	alice@example	Hello everyone!	0.223401716
## 329	2023-08-08	Email	alice@example	Great work!	0.222402995
## 330	2023-08-08	Slack	@bob_tweets	Hello everyone!	0.740663246
## 331	2023-08-08	Twitter	@frank_chat	Fun weekend!	0.484796492
## 332	2023-08-08	Slack	@frank_chat	Need assistance	0.963640937
## 333	2023-08-08	Email	@frank_chat	Exciting news!	-0.050068120
## 334	2023-08-08	Email	dave@example	Need assistance	-0.998774239

##	335	2023-08-08	Twitter	carol_slack	Fun weekend!	0.232626481
##	336	2023-08-08	Email	@erin_tweets	Exciting news!	-0.847681918
##	337	2023-08-08	Twitter	@bob_tweets	Team meeting	-0.024243061
##	338	2023-08-08	Email	alice@example	Exciting news!	0.723251828
##	339	2023-08-08	Email	@frank_chat	Great work!	0.362224979
##	340	2023-08-08	Email	@bob_tweets	Need assistance	-0.249764988
##	341	2023-08-08	Twitter	@frank_chat	Fun weekend!	-0.673607849
##	342	2023-08-08	Email	@erin_tweets	Need assistance	-0.775436828
##	343	2023-08-08	Slack	@erin_tweets	Need assistance	-0.461871512
##	344	2023-08-08	Email	alice@example	Great work!	-0.068923920
##	345	2023-08-08	Twitter	@bob_tweets	Great work!	0.564973874
##	346	2023-08-08	Email	@frank_chat	Need assistance	-0.992002849
##	347	2023-08-08	Twitter	alice@example	Great work!	-0.236779108
##	348	2023-08-08	Twitter	alice@example	Team meeting	0.870818266
##	349	2023-08-08	Slack	alice@example	Hello everyone!	-0.812013249
##	350	2023-08-08	Twitter	alice@example	Fun weekend!	-0.329790550
##	351	2023-08-08	Slack	carol_slack	Exciting news!	0.055117640
##	352	2023-08-08	Email	@erin_tweets	Fun weekend!	0.378708432
##	353	2023-08-08	Email	@erin_tweets	Fun weekend!	0.734125260
##	354	2023-08-08	Twitter	@erin_tweets	Fun weekend!	0.191519982
##	355	2023-08-08	Email	alice@example	Hello everyone!	-0.666331347
##	356	2023-08-08	Slack	@erin_tweets	Team meeting	0.849549761
##	357	2023-08-08	Twitter	carol_slack	Exciting news!	0.614791796
##	358	2023-08-08	Slack	@erin_tweets	Hello everyone!	-0.568787924
##	359	2023-08-08	Slack	@erin_tweets	Need assistance	0.593302410
##	360	2023-08-08	Twitter	dave@example	Need assistance	0.911442756
##	361	2023-08-08	Slack	@erin_tweets	Team meeting	0.068864945
##	362	2023-08-08	Email	carol_slack	Great work!	0.710615378
##	363	2023-08-08	Email	alice@example	Exciting news!	0.529548995
##	364	2023-08-08	Email	@erin_tweets	Hello everyone!	-0.064463819
##	365	2023-08-08	Email	@frank_chat	Team meeting	0.778342899
##	366	2023-08-08	Slack	@erin_tweets	Exciting news!	0.085280708
##	367	2023-08-08	Twitter	alice@example	Great work!	0.552484959
##	368	2023-08-08	Twitter	@bob_tweets	Need assistance	-0.716619523
##	369	2023-08-08	Slack	@erin_tweets	Fun weekend!	0.172925062
##	370	2023-08-09	Slack	@erin_tweets	Hello everyone!	-0.932525445
##	371	2023-08-09	Twitter	alice@example	Need assistance	0.083300223
##	372	2023-08-09	Email	@erin_tweets	Exciting news!	-0.018193701
##	373	2023-08-09	Twitter	carol_slack	Fun weekend!	-0.056202481
##	374	2023-08-09	Twitter	alice@example	Great work!	-0.013945965
##	375	2023-08-09	Twitter	alice@example	Great work!	0.432502551
##	376	2023-08-09	Email	@erin_tweets	Exciting news!	0.020394353
##	377	2023-08-09	Slack	@bob_tweets	Team meeting	0.500293179
##	378	2023-08-09	Twitter	alice@example	Fun weekend!	-0.391704335
##	379	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.542777083
##	380	2023-08-09	Slack	@erin_tweets	Team meeting	0.268132484
##	381	2023-08-09	Slack	alice@example	Need assistance	0.665302936
##	382	2023-08-09	Slack	dave@example	Fun weekend!	-0.358376735
##	383	2023-08-09	Slack	alice@example	Fun weekend!	0.690391378
##	384	2023-08-09	Slack	dave@example	Fun weekend!	0.229193896
##	385	2023-08-09	Email	@erin_tweets	Team meeting	-0.956999032
##	386	2023-08-09	Twitter	alice@example	Hello everyone!	0.184942272
##	387	2023-08-09	Email	@erin_tweets	Fun weekend!	0.513564137
##	388	2023-08-09	Twitter	@bob_tweets	Team meeting	0.526457346
##	389	2023-08-09	Email	@bob_tweets	Fun weekend!	-0.375794835
##	390	2023-08-09	Email	@erin_tweets	Fun weekend!	0.237909144

##	391	2023-08-09	Twitter	alice@example	Hello everyone!	0.762754925
##	392	2023-08-09	Email	@bob_tweets	Hello everyone!	0.703965933
##	393	2023-08-09	Twitter	alice@example	Exciting news!	-0.792284821
##	394	2023-08-09	Twitter	dave@example	Great work!	-0.495721815
##	395	2023-08-09	Email	@bob_tweets	Hello everyone!	-0.725457437
##	396	2023-08-09	Slack	carol_slack	Hello everyone!	0.902016178
##	397	2023-08-09	Email	dave@example	Team meeting	0.746085706
##	398	2023-08-09	Email	@frank_chat	Fun weekend!	-0.372473280
##	399	2023-08-09	Slack	alice@example	Exciting news!	-0.539138246
##	400	2023-08-09	Twitter	@bob_tweets	Exciting news!	0.605349668
##	401	2023-08-09	Slack	carol_slack	Hello everyone!	-0.289897254
##	402	2023-08-09	Email	@frank_chat	Hello everyone!	-0.633588556
##	403	2023-08-09	Twitter	@erin_tweets	Need assistance	-0.600080754
##	404	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.525517232
##	405	2023-08-09	Slack	carol_slack	Hello everyone!	0.346090994
##	406	2023-08-09	Email	alice@example	Fun weekend!	0.893210486
##	407	2023-08-09	Twitter	@frank_chat	Hello everyone!	0.649366590
##	408	2023-08-09	Email	@frank_chat	Fun weekend!	-0.789119672
##	409	2023-08-09	Email	dave@example	Fun weekend!	0.698494015
##	410	2023-08-09	Slack	dave@example	Need assistance	0.662048494
##	411	2023-08-09	Email	@erin_tweets	Need assistance	0.953375103
##	412	2023-08-09	Email	@frank_chat	Team meeting	-0.712716471
##	413	2023-08-10	Twitter	@frank_chat	Hello everyone!	-0.740855453
##	414	2023-08-10	Twitter	@erin_tweets	Great work!	0.199771451
##	415	2023-08-10	Slack	@erin_tweets	Need assistance	-0.766245456
##	416	2023-08-10	Twitter	@erin_tweets	Need assistance	-0.340010146
##	417	2023-08-10	Email	@bob_tweets	Team meeting	-0.060755176
##	418	2023-08-10	Email	@bob_tweets	Great work!	0.924440826
##	419	2023-08-10	Email	@frank_chat	Hello everyone!	0.535708998
##	420	2023-08-10	Slack	dave@example	Team meeting	-0.934943126
##	421	2023-08-10	Slack	@bob_tweets	Hello everyone!	-0.075317414
##	422	2023-08-10	Email	alice@example	Need assistance	-0.815106571
##	423	2023-08-10	Twitter	@erin_tweets	Fun weekend!	-0.496555788
##	424	2023-08-10	Slack	@frank_chat	Hello everyone!	0.142070077
##	425	2023-08-10	Slack	alice@example	Need assistance	-0.356432681
##	426	2023-08-10	Email	@frank_chat	Need assistance	-0.857863282
##	427	2023-08-10	Slack	alice@example	Great work!	0.804542714
##	428	2023-08-10	Slack	@erin_tweets	Team meeting	0.862134462
##	429	2023-08-10	Twitter	@erin_tweets	Team meeting	0.384202328
##	430	2023-08-10	Slack	@bob_tweets	Need assistance	0.279333149
##	431	2023-08-10	Email	@erin_tweets	Exciting news!	0.679597112
##	432	2023-08-10	Twitter	@erin_tweets	Exciting news!	0.275836162
##	433	2023-08-10	Twitter	@frank_chat	Team meeting	-0.976236885
##	434	2023-08-10	Email	@frank_chat	Great work!	0.533465849
##	435	2023-08-10	Slack	@erin_tweets	Need assistance	-0.904224418
##	436	2023-08-10	Twitter	@bob_tweets	Fun weekend!	0.346377916
##	437	2023-08-10	Slack	dave@example	Exciting news!	-0.762122771
##	438	2023-08-10	Email	alice@example	Great work!	0.693037350
##	439	2023-08-10	Twitter	@frank_chat	Great work!	0.214199054
##	440	2023-08-10	Email	carol_slack	Team meeting	-0.970338997
##	441	2023-08-10	Twitter	alice@example	Great work!	0.266619468
##	442	2023-08-10	Slack	@erin_tweets	Need assistance	0.086844633
##	443	2023-08-10	Slack	alice@example	Need assistance	-0.236316590
##	444	2023-08-10	Slack	dave@example	Exciting news!	0.532747218
##	445	2023-08-10	Slack	@bob_tweets	Exciting news!	0.027252671
##	446	2023-08-10	Email	@bob_tweets	Exciting news!	0.664575256

## 447	2023-08-10	Email	@frank_chat	Hello everyone!	0.051583528
## 448	2023-08-10	Email	@bob_tweets	Team meeting	0.253805156
## 449	2023-08-10	Slack	@frank_chat	Exciting news!	0.769946682
## 450	2023-08-10	Twitter	@frank_chat	Team meeting	-0.289186294
## 451	2023-08-10	Twitter	carol_slack	Exciting news!	0.030849482
## 452	2023-08-10	Email	@frank_chat	Team meeting	-0.320194449
## 453	2023-08-10	Slack	alice@example	Team meeting	0.425960287
## 454	2023-08-10	Twitter	@frank_chat	Exciting news!	-0.149807401
## 455	2023-08-10	Slack	@bob_tweets	Fun weekend!	0.957983019
## 456	2023-08-10	Twitter	dave@example	Great work!	-0.505026447
## 457	2023-08-10	Slack	@erin_tweets	Need assistance	0.037588875
## 458	2023-08-10	Slack	@bob_tweets	Exciting news!	-0.873230109
## 459	2023-08-10	Twitter	@erin_tweets	Great work!	0.181200765
## 460	2023-08-10	Slack	alice@example	Need assistance	-0.917325706
## 461	2023-08-10	Email	@erin_tweets	Hello everyone!	0.063933458
## 462	2023-08-10	Slack	@frank_chat	Hello everyone!	0.672468295
## 463	2023-08-10	Twitter	carol_slack	Great work!	0.268422757
## 464	2023-08-10	Email	@bob_tweets	Exciting news!	-0.286527871
## 465	2023-08-10	Twitter	@erin_tweets	Great work!	0.282790715
## 466	2023-08-10	Email	@frank_chat	Fun weekend!	-0.520876877
## 467	2023-08-10	Twitter	dave@example	Team meeting	-0.879799920
## 468	2023-08-10	Slack	dave@example	Exciting news!	-0.750027833
## 469	2023-08-10	Email	dave@example	Need assistance	0.834841503
## 470	2023-08-10	Twitter	@frank_chat	Fun weekend!	-0.528116655
## 471	2023-08-10	Slack	@frank_chat	Need assistance	0.626154714
## 472	2023-08-10	Slack	@frank_chat	Need assistance	-0.198273231
## 473	2023-08-10	Slack	dave@example	Great work!	0.746216161
## 474	2023-08-10	Slack	alice@example	Team meeting	-0.939407335
## 475	2023-08-10	Twitter	carol_slack	Need assistance	0.809991531
## 476	2023-08-10	Email	@frank_chat	Exciting news!	-0.010767524
## 477	2023-08-10	Twitter	dave@example	Fun weekend!	-0.363247766
## 478	2023-08-10	Email	@bob_tweets	Need assistance	-0.316063035
## 479	2023-08-11	Twitter	dave@example	Fun weekend!	0.824099663
## 480	2023-08-11	Email	@bob_tweets	Hello everyone!	0.662486946
## 481	2023-08-11	Slack	@frank_chat	Hello everyone!	-0.143450806
## 482	2023-08-11	Twitter	@bob_tweets	Great work!	-0.751736611
## 483	2023-08-11	Email	@frank_chat	Fun weekend!	0.874191639
## 484	2023-08-11	Slack	@bob_tweets	Team meeting	-0.955364774
## 485	2023-08-11	Email	carol_slack	Need assistance	-0.547700667
## 486	2023-08-11	Email	alice@example	Fun weekend!	-0.034278538
## 487	2023-08-11	Slack	@frank_chat	Exciting news!	-0.871460078
## 488	2023-08-11	Slack	dave@example	Hello everyone!	-0.843954970
## 489	2023-08-11	Twitter	@erin_tweets	Need assistance	-0.462980804
## 490	2023-08-11	Email	dave@example	Great work!	0.509797142
## 491	2023-08-11	Slack	@frank_chat	Hello everyone!	-0.108963726
## 492	2023-08-11	Slack	alice@example	Fun weekend!	-0.799520459
## 493	2023-08-11	Slack	@bob_tweets	Need assistance	-0.542398809
## 494	2023-08-11	Slack	carol_slack	Exciting news!	0.062969209
## 495	2023-08-11	Email	dave@example	Team meeting	0.146319367
## 496	2023-08-11	Twitter	@frank_chat	Team meeting	0.629940747
## 497	2023-08-11	Twitter	dave@example	Exciting news!	0.018387399
## 498	2023-08-11	Slack	dave@example	Hello everyone!	0.879992486
## 499	2023-08-11	Twitter	@bob_tweets	Exciting news!	0.260118117
## 500	2023-08-11	Twitter	dave@example	Fun weekend!	0.124404418
## 501	2023-08-11	Twitter	@frank_chat	Fun weekend!	-0.926554946
## 502	2023-08-11	Slack	dave@example	Need assistance	0.930096855

## 503	2023-08-11	Email	alice@example	Exciting news!	-0.901918261
## 504	2023-08-11	Email	@bob_tweets	Hello everyone!	0.576369455
## 505	2023-08-11	Slack	@bob_tweets	Exciting news!	-0.033773244
## 506	2023-08-11	Twitter	carol_slack	Great work!	0.910158344
## 507	2023-08-11	Slack	@frank_chat	Need assistance	0.235724795
## 508	2023-08-11	Slack	@frank_chat	Great work!	0.431652104
## 509	2023-08-11	Email	@erin_tweets	Great work!	-0.049498704
## 510	2023-08-11	Slack	@frank_chat	Team meeting	-0.642315470
## 511	2023-08-11	Twitter	@erin_tweets	Team meeting	-0.351081788
## 512	2023-08-11	Slack	@frank_chat	Team meeting	-0.203160496
## 513	2023-08-11	Slack	@bob_tweets	Great work!	0.041871845
## 514	2023-08-11	Twitter	@frank_chat	Team meeting	-0.303564250
## 515	2023-08-11	Twitter	carol_slack	Great work!	0.782265475
## 516	2023-08-11	Slack	@bob_tweets	Great work!	-0.549234209
## 517	2023-08-11	Email	@bob_tweets	Great work!	-0.539260621
## 518	2023-08-11	Slack	carol_slack	Team meeting	0.921573296
## 519	2023-08-11	Twitter	alice@example	Hello everyone!	-0.120084892
## 520	2023-08-11	Email	alice@example	Team meeting	-0.641849058
## 521	2023-08-11	Slack	@frank_chat	Fun weekend!	0.312006338
## 522	2023-08-11	Twitter	@erin_tweets	Need assistance	-0.102778860
## 523	2023-08-11	Slack	@erin_tweets	Team meeting	-0.893834382
## 524	2023-08-11	Email	carol_slack	Fun weekend!	0.355941510
## 525	2023-08-11	Email	dave@example	Need assistance	0.060486035
## 526	2023-08-11	Slack	@erin_tweets	Great work!	-0.704862314
## 527	2023-08-11	Twitter	@frank_chat	Hello everyone!	0.807257727
## 528	2023-08-12	Twitter	dave@example	Team meeting	-0.786887704
## 529	2023-08-12	Slack	@frank_chat	Fun weekend!	0.519153008
## 530	2023-08-12	Email	dave@example	Need assistance	0.091942075
## 531	2023-08-12	Slack	@frank_chat	Hello everyone!	-0.219064676
## 532	2023-08-12	Slack	dave@example	Fun weekend!	-0.285561244
## 533	2023-08-12	Twitter	carol_slack	Great work!	0.407506729
## 534	2023-08-12	Twitter	carol_slack	Need assistance	-0.435741366
## 535	2023-08-12	Twitter	dave@example	Hello everyone!	0.278570379
## 536	2023-08-12	Slack	carol_slack	Great work!	-0.733910211
## 537	2023-08-12	Twitter	@bob_tweets	Exciting news!	-0.608554570
## 538	2023-08-12	Email	@erin_tweets	Exciting news!	-0.260005387
## 539	2023-08-12	Slack	alice@example	Fun weekend!	0.226010282
## 540	2023-08-12	Email	@bob_tweets	Need assistance	-0.042491458
## 541	2023-08-12	Twitter	alice@example	Hello everyone!	0.532433989
## 542	2023-08-12	Slack	@frank_chat	Need assistance	-0.611636332
## 543	2023-08-12	Twitter	dave@example	Great work!	0.195303030
## 544	2023-08-12	Twitter	@bob_tweets	Team meeting	0.265132846
## 545	2023-08-12	Email	alice@example	Team meeting	0.774573303
## 546	2023-08-12	Email	@bob_tweets	Exciting news!	-0.597888714
## 547	2023-08-12	Slack	carol_slack	Fun weekend!	0.608656868
## 548	2023-08-12	Email	dave@example	Fun weekend!	0.043927317
## 549	2023-08-12	Twitter	@erin_tweets	Team meeting	0.650313874
## 550	2023-08-12	Email	@frank_chat	Need assistance	-0.104900640
## 551	2023-08-12	Email	dave@example	Great work!	0.480317921
## 552	2023-08-12	Email	dave@example	Fun weekend!	0.650773503
## 553	2023-08-12	Slack	dave@example	Exciting news!	0.563268560
## 554	2023-08-12	Slack	alice@example	Need assistance	0.454688824
## 555	2023-08-12	Email	@erin_tweets	Need assistance	0.866607873
## 556	2023-08-12	Slack	carol_slack	Need assistance	-0.919222645
## 557	2023-08-12	Twitter	@bob_tweets	Great work!	-0.405934577
## 558	2023-08-12	Email	alice@example	Exciting news!	0.063475272

## 559	2023-08-12	Twitter	@erin_tweets	Fun weekend!	0.038330505
## 560	2023-08-12	Email	alice@example	Great work!	0.383860287
## 561	2023-08-12	Twitter	alice@example	Exciting news!	-0.487793705
## 562	2023-08-12	Email	@frank_chat	Exciting news!	0.777389107
## 563	2023-08-12	Twitter	dave@example	Need assistance	-0.713639749
## 564	2023-08-12	Slack	carol_slack	Great work!	0.874556832
## 565	2023-08-12	Email	@frank_chat	Need assistance	0.544408341
## 566	2023-08-12	Email	dave@example	Great work!	-0.841218561
## 567	2023-08-12	Email	@frank_chat	Fun weekend!	-0.102208237
## 568	2023-08-12	Slack	@bob_tweets	Fun weekend!	0.990166281
## 569	2023-08-12	Email	alice@example	Exciting news!	-0.995861550
## 570	2023-08-12	Email	alice@example	Team meeting	0.255163795
## 571	2023-08-12	Twitter	@erin_tweets	Need assistance	-0.329706852
## 572	2023-08-12	Slack	carol_slack	Team meeting	0.504667453
## 573	2023-08-12	Twitter	@bob_tweets	Fun weekend!	0.226440192
## 574	2023-08-12	Email	alice@example	Exciting news!	-0.616592484
## 575	2023-08-12	Email	carol_slack	Team meeting	-0.492082868
## 576	2023-08-12	Twitter	carol_slack	Team meeting	0.704733795
## 577	2023-08-12	Email	carol_slack	Need assistance	0.937844194
## 578	2023-08-12	Twitter	carol_slack	Fun weekend!	-0.455487390
## 579	2023-08-12	Email	alice@example	Need assistance	0.120129855
## 580	2023-08-12	Twitter	@erin_tweets	Need assistance	0.298994374
## 581	2023-08-12	Slack	carol_slack	Need assistance	-0.044029484
## 582	2023-08-12	Twitter	dave@example	Great work!	-0.462906254
## 583	2023-08-12	Twitter	alice@example	Team meeting	0.582250814
## 584	2023-08-12	Slack	@erin_tweets	Hello everyone!	-0.360894154
## 585	2023-08-12	Twitter	alice@example	Exciting news!	0.874988238
## 586	2023-08-13	Email	alice@example	Hello everyone!	0.433930994
## 587	2023-08-13	Email	@bob_tweets	Team meeting	-0.092784007
## 588	2023-08-13	Slack	carol_slack	Hello everyone!	0.675182751
## 589	2023-08-13	Slack	@bob_tweets	Great work!	-0.443448592
## 590	2023-08-13	Slack	alice@example	Great work!	0.480868685
## 591	2023-08-13	Twitter	dave@example	Fun weekend!	0.986894567
## 592	2023-08-13	Twitter	alice@example	Need assistance	0.119616441
## 593	2023-08-13	Email	dave@example	Need assistance	-0.834047724
## 594	2023-08-13	Twitter	@bob_tweets	Great work!	-0.705626460
## 595	2023-08-13	Twitter	alice@example	Fun weekend!	-0.958858334
## 596	2023-08-13	Twitter	alice@example	Hello everyone!	0.752351641
## 597	2023-08-13	Slack	@frank_chat	Exciting news!	0.443950114
## 598	2023-08-13	Slack	@erin_tweets	Need assistance	-0.514785561
## 599	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.369747002
## 600	2023-08-13	Slack	carol_slack	Exciting news!	0.474910577
## 601	2023-08-13	Email	carol_slack	Exciting news!	0.991050147
## 602	2023-08-13	Email	carol_slack	Exciting news!	-0.930242309
## 603	2023-08-13	Twitter	alice@example	Team meeting	0.892404643
## 604	2023-08-13	Twitter	@bob_tweets	Need assistance	0.408644735
## 605	2023-08-13	Email	@erin_tweets	Hello everyone!	-0.939573104
## 606	2023-08-13	Twitter	@frank_chat	Exciting news!	0.368110256
## 607	2023-08-13	Twitter	@bob_tweets	Need assistance	-0.883181106
## 608	2023-08-13	Slack	carol_slack	Great work!	-0.947211589
## 609	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.426096413
## 610	2023-08-13	Twitter	carol_slack	Exciting news!	0.771407587
## 611	2023-08-13	Twitter	@erin_tweets	Great work!	-0.956337988
## 612	2023-08-13	Email	@erin_tweets	Fun weekend!	0.496487776
## 613	2023-08-13	Twitter	@erin_tweets	Great work!	0.515643027
## 614	2023-08-13	Twitter	alice@example	Great work!	-0.026141260



## 615	2023-08-13	Email	alice@example	Hello everyone!	0.042741961
## 616	2023-08-13	Twitter	dave@example	Fun weekend!	-0.042934414
## 617	2023-08-13	Twitter	@frank_chat	Team meeting	-0.877922161
## 618	2023-08-13	Slack	alice@example	Need assistance	-0.100954488
## 619	2023-08-13	Slack	carol_slack	Need assistance	0.886342321
## 620	2023-08-13	Slack	alice@example	Team meeting	-0.493501368
## 621	2023-08-13	Email	@frank_chat	Need assistance	0.935812009
## 622	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.694118693
## 623	2023-08-13	Slack	@erin_tweets	Need assistance	-0.544543609
## 624	2023-08-13	Slack	carol_slack	Great work!	0.460303653
## 625	2023-08-13	Email	dave@example	Great work!	0.550955762
## 626	2023-08-13	Email	@frank_chat	Great work!	-0.693289580
## 627	2023-08-13	Slack	dave@example	Hello everyone!	-0.945477226
## 628	2023-08-13	Slack	alice@example	Team meeting	-0.927027794
## 629	2023-08-13	Email	@bob_tweets	Exciting news!	0.553149406
## 630	2023-08-13	Slack	carol_slack	Hello everyone!	-0.416070993
## 631	2023-08-13	Email	alice@example	Need assistance	0.596431601
## 632	2023-08-13	Email	@bob_tweets	Hello everyone!	0.264306294
## 633	2023-08-13	Twitter	dave@example	Exciting news!	-0.618614707
## 634	2023-08-13	Twitter	carol_slack	Fun weekend!	-0.412842807
## 635	2023-08-13	Twitter	alice@example	Great work!	-0.806566573
## 636	2023-08-13	Email	@erin_tweets	Fun weekend!	0.418006041
## 637	2023-08-14	Slack	@frank_chat	Need assistance	0.187954018
## 638	2023-08-14	Twitter	dave@example	Great work!	0.866824818
## 639	2023-08-14	Twitter	@frank_chat	Team meeting	-0.935610580
## 640	2023-08-14	Twitter	alice@example	Exciting news!	0.415267176
## 641	2023-08-14	Email	@erin_tweets	Great work!	0.891589128
## 642	2023-08-14	Twitter	@erin_tweets	Hello everyone!	-0.647561021
## 643	2023-08-14	Email	@bob_tweets	Team meeting	-0.815906889
## 644	2023-08-14	Twitter	alice@example	Hello everyone!	-0.892831107
## 645	2023-08-14	Twitter	alice@example	Great work!	0.346799491
## 646	2023-08-14	Twitter	@frank_chat	Great work!	-0.912142744
## 647	2023-08-14	Slack	@erin_tweets	Hello everyone!	0.987832270
## 648	2023-08-14	Twitter	alice@example	Team meeting	0.024089097
## 649	2023-08-14	Email	@erin_tweets	Need assistance	0.867801995
## 650	2023-08-14	Slack	@erin_tweets	Great work!	-0.518683678
## 651	2023-08-14	Slack	@frank_chat	Need assistance	-0.384110797
## 652	2023-08-14	Twitter	@bob_tweets	Great work!	-0.970631612
## 653	2023-08-14	Email	carol_slack	Fun weekend!	0.446355308
## 654	2023-08-14	Twitter	dave@example	Fun weekend!	0.474564350
## 655	2023-08-14	Slack	@erin_tweets	Exciting news!	0.336964048
## 656	2023-08-14	Email	dave@example	Need assistance	-0.829999507
## 657	2023-08-14	Email	alice@example	Need assistance	0.043240849
## 658	2023-08-14	Slack	dave@example	Hello everyone!	0.491653796
## 659	2023-08-14	Email	@erin_tweets	Need assistance	-0.220039924
## 660	2023-08-14	Email	alice@example	Need assistance	0.041204039
## 661	2023-08-14	Slack	@frank_chat	Need assistance	-0.920249034
## 662	2023-08-14	Slack	dave@example	Exciting news!	-0.298691060
## 663	2023-08-14	Slack	@erin_tweets	Need assistance	0.141076977
## 664	2023-08-14	Slack	@erin_tweets	Fun weekend!	-0.259928443
## 665	2023-08-14	Twitter	@erin_tweets	Need assistance	-0.543064435
## 666	2023-08-14	Twitter	@erin_tweets	Great work!	0.468599080
## 667	2023-08-14	Twitter	alice@example	Exciting news!	0.157755047
## 668	2023-08-14	Slack	dave@example	Great work!	0.538406652
## 669	2023-08-14	Twitter	@bob_tweets	Exciting news!	0.754322437
## 670	2023-08-14	Twitter	@bob_tweets	Hello everyone!	0.250149151

## 671	2023-08-14	Twitter	dave@example	Fun weekend!	-0.064443091
## 672	2023-08-14	Twitter	@frank_chat	Team meeting	0.499737595
## 673	2023-08-14	Email	@bob_tweets	Hello everyone!	0.498191035
## 674	2023-08-14	Twitter	@frank_chat	Fun weekend!	-0.672147054
## 675	2023-08-14	Email	@bob_tweets	Need assistance	0.330107941
## 676	2023-08-14	Email	@erin_tweets	Fun weekend!	-0.835450725
## 677	2023-08-14	Email	dave@example	Fun weekend!	0.304697359
## 678	2023-08-14	Email	@erin_tweets	Hello everyone!	-0.446434771
## 679	2023-08-14	Slack	@bob_tweets	Hello everyone!	0.450289166
## 680	2023-08-14	Twitter	@bob_tweets	Great work!	-0.018533767
## 681	2023-08-14	Slack	@frank_chat	Exciting news!	-0.054910814
## 682	2023-08-14	Email	alice@example	Great work!	-0.111933967
## 683	2023-08-14	Slack	@erin_tweets	Hello everyone!	0.605556316
## 684	2023-08-14	Slack	@erin_tweets	Exciting news!	-0.736287751
## 685	2023-08-14	Email	carol_slack	Exciting news!	0.596924395
## 686	2023-08-14	Twitter	dave@example	Need assistance	-0.273263505
## 687	2023-08-14	Twitter	carol_slack	Need assistance	0.739025190
## 688	2023-08-14	Twitter	@bob_tweets	Exciting news!	0.671785708
## 689	2023-08-14	Email	@bob_tweets	Team meeting	-0.996662613
## 690	2023-08-14	Twitter	dave@example	Fun weekend!	-0.998980226
## 691	2023-08-14	Slack	@bob_tweets	Team meeting	-0.709024122
## 692	2023-08-14	Twitter	alice@example	Great work!	-0.652119522
## 693	2023-08-14	Twitter	@bob_tweets	Fun weekend!	0.567614020
## 694	2023-08-14	Twitter	alice@example	Great work!	-0.232635738
## 695	2023-08-14	Slack	alice@example	Hello everyone!	-0.798660460
## 696	2023-08-14	Slack	alice@example	Hello everyone!	-0.691606675
## 697	2023-08-14	Email	dave@example	Hello everyone!	-0.359136123
## 698	2023-08-14	Email	@erin_tweets	Fun weekend!	0.035476264
## 699	2023-08-14	Email	@erin_tweets	Great work!	-0.129584252
## 700	2023-08-14	Slack	dave@example	Exciting news!	-0.531753783
## 701	2023-08-15	Email	@bob_tweets	Great work!	0.468266435
## 702	2023-08-15	Slack	@erin_tweets	Hello everyone!	-0.689319659
## 703	2023-08-15	Twitter	@erin_tweets	Great work!	-0.244326655
## 704	2023-08-15	Twitter	carol_slack	Hello everyone!	-0.761104998
## 705	2023-08-15	Twitter	alice@example	Team meeting	-0.178657859
## 706	2023-08-15	Twitter	alice@example	Fun weekend!	-0.707901944
## 707	2023-08-15	Email	@erin_tweets	Fun weekend!	-0.576360519
## 708	2023-08-15	Email	carol_slack	Exciting news!	-0.745493084
## 709	2023-08-15	Twitter	dave@example	Fun weekend!	0.469535301
## 710	2023-08-15	Twitter	@bob_tweets	Team meeting	0.853966497
## 711	2023-08-15	Slack	alice@example	Fun weekend!	0.271711212
## 712	2023-08-15	Slack	carol_slack	Fun weekend!	-0.760701751
## 713	2023-08-15	Slack	@frank_chat	Exciting news!	-0.582243779
## 714	2023-08-15	Email	carol_slack	Need assistance	0.414960733
## 715	2023-08-15	Slack	@bob_tweets	Exciting news!	0.423514269
## 716	2023-08-15	Twitter	@frank_chat	Need assistance	-0.639425840
## 717	2023-08-15	Slack	@bob_tweets	Team meeting	-0.271451744
## 718	2023-08-15	Email	@frank_chat	Need assistance	0.385732211
## 719	2023-08-15	Email	@erin_tweets	Hello everyone!	-0.598425182
## 720	2023-08-15	Twitter	dave@example	Great work!	0.435108419
## 721	2023-08-15	Twitter	@bob_tweets	Need assistance	0.373691486
## 722	2023-08-15	Slack	carol_slack	Need assistance	0.674294885
## 723	2023-08-15	Slack	dave@example	Hello everyone!	-0.510870771
## 724	2023-08-15	Email	dave@example	Hello everyone!	0.282330315
## 725	2023-08-15	Slack	@frank_chat	Hello everyone!	0.058449768
## 726	2023-08-15	Twitter	alice@example	Exciting news!	0.153143482

## 727	2023-08-15	Twitter	carol_slack	Team meeting	0.498292263
## 728	2023-08-15	Email	@frank_chat	Great work!	0.120376800
## 729	2023-08-15	Slack	@erin_tweets	Team meeting	0.457860831
## 730	2023-08-15	Twitter	@frank_chat	Hello everyone!	0.384222084
## 731	2023-08-15	Email	alice@example	Team meeting	0.176413531
## 732	2023-08-15	Email	@frank_chat	Need assistance	-0.438784983
## 733	2023-08-15	Slack	@frank_chat	Great work!	0.960373470
## 734	2023-08-15	Email	alice@example	Need assistance	-0.264464825
## 735	2023-08-15	Twitter	@frank_chat	Need assistance	0.344264537
## 736	2023-08-15	Email	carol_slack	Fun weekend!	-0.141636565
## 737	2023-08-15	Twitter	dave@example	Fun weekend!	0.345517721
## 738	2023-08-15	Slack	@frank_chat	Fun weekend!	0.816346027
## 739	2023-08-15	Twitter	@bob_tweets	Team meeting	-0.144443278
## 740	2023-08-15	Twitter	@erin_tweets	Need assistance	0.599532404
## 741	2023-08-15	Twitter	@erin_tweets	Hello everyone!	0.768580468
## 742	2023-08-15	Email	dave@example	Need assistance	0.773382573
## 743	2023-08-15	Email	@bob_tweets	Team meeting	-0.801572199
## 744	2023-08-15	Twitter	@erin_tweets	Need assistance	0.787741330
## 745	2023-08-15	Slack	dave@example	Great work!	-0.481857921
## 746	2023-08-15	Slack	@frank_chat	Hello everyone!	-0.508614742
## 747	2023-08-15	Twitter	carol_slack	Team meeting	-0.074092148
## 748	2023-08-15	Slack	@erin_tweets	Hello everyone!	-0.562214842
## 749	2023-08-15	Email	@frank_chat	Fun weekend!	0.535877908
## 750	2023-08-15	Twitter	carol_slack	Hello everyone!	-0.638266036
## 751	2023-08-15	Slack	alice@example	Need assistance	0.899728119
## 752	2023-08-15	Twitter	alice@example	Great work!	0.798867194
## 753	2023-08-16	Twitter	@erin_tweets	Great work!	0.150156671
## 754	2023-08-16	Slack	alice@example	Exciting news!	0.320830711
## 755	2023-08-16	Twitter	alice@example	Exciting news!	0.927110374
## 756	2023-08-16	Twitter	@bob_tweets	Exciting news!	-0.141741692
## 757	2023-08-16	Twitter	alice@example	Great work!	-0.179680133
## 758	2023-08-16	Slack	@erin_tweets	Exciting news!	-0.290788232
## 759	2023-08-16	Slack	@bob_tweets	Team meeting	-0.774452816
## 760	2023-08-16	Email	@frank_chat	Hello everyone!	0.997601895
## 761	2023-08-16	Slack	carol_slack	Hello everyone!	0.529127310
## 762	2023-08-16	Email	@frank_chat	Fun weekend!	-0.584208118
## 763	2023-08-16	Twitter	@erin_tweets	Exciting news!	-0.265161676
## 764	2023-08-16	Slack	alice@example	Need assistance	0.669039086
## 765	2023-08-16	Email	alice@example	Team meeting	0.858062949
## 766	2023-08-16	Slack	alice@example	Need assistance	0.445466304
## 767	2023-08-16	Twitter	@bob_tweets	Fun weekend!	-0.533522750
## 768	2023-08-16	Slack	@bob_tweets	Team meeting	0.120248223
## 769	2023-08-16	Email	carol_slack	Great work!	0.306993762
## 770	2023-08-16	Twitter	dave@example	Great work!	0.827052074
## 771	2023-08-16	Email	carol_slack	Great work!	-0.045373839
## 772	2023-08-16	Twitter	dave@example	Need assistance	-0.194268964
## 773	2023-08-16	Email	@frank_chat	Exciting news!	0.305391626
## 774	2023-08-16	Slack	@frank_chat	Team meeting	-0.143542713
## 775	2023-08-16	Slack	carol_slack	Hello everyone!	-0.321912185
## 776	2023-08-16	Slack	dave@example	Exciting news!	0.461496073
## 777	2023-08-16	Twitter	carol_slack	Exciting news!	-0.875286373
## 778	2023-08-16	Twitter	carol_slack	Need assistance	-0.375053814
## 779	2023-08-16	Email	alice@example	Exciting news!	-0.858994203
## 780	2023-08-16	Email	@erin_tweets	Fun weekend!	-0.928850479
## 781	2023-08-16	Twitter	dave@example	Fun weekend!	-0.286604216
## 782	2023-08-16	Email	alice@example	Great work!	0.360768258

## 783	2023-08-16	Email	dave@example	Need assistance	-0.014521594
## 784	2023-08-16	Email	@frank_chat	Team meeting	-0.287118956
## 785	2023-08-16	Email	@frank_chat	Need assistance	0.343977793
## 786	2023-08-16	Twitter	@erin_tweets	Hello everyone!	0.806540163
## 787	2023-08-16	Email	@frank_chat	Fun weekend!	0.402509230
## 788	2023-08-16	Twitter	@erin_tweets	Team meeting	-0.674190784
## 789	2023-08-16	Slack	dave@example	Need assistance	0.484403751
## 790	2023-08-16	Email	carol_slack	Hello everyone!	-0.029610693
## 791	2023-08-16	Slack	dave@example	Fun weekend!	0.438361928
## 792	2023-08-16	Email	@frank_chat	Fun weekend!	-0.552409418
## 793	2023-08-16	Slack	@frank_chat	Team meeting	-0.933677876
## 794	2023-08-16	Slack	@frank_chat	Hello everyone!	-0.878399170
## 795	2023-08-16	Twitter	alice@example	Exciting news!	0.696509592
## 796	2023-08-16	Email	carol_slack	Hello everyone!	-0.851052538
## 797	2023-08-16	Twitter	@bob_tweets	Great work!	-0.674055766
## 798	2023-08-16	Slack	@frank_chat	Fun weekend!	0.269629325
## 799	2023-08-16	Slack	@erin_tweets	Exciting news!	-0.113282133
## 800	2023-08-16	Twitter	dave@example	Team meeting	0.796688539
## 801	2023-08-16	Email	@bob_tweets	Great work!	-0.351176404
## 802	2023-08-16	Email	@bob_tweets	Need assistance	-0.459899545
## 803	2023-08-17	Twitter	alice@example	Team meeting	-0.189370414
## 804	2023-08-17	Twitter	@bob_tweets	Need assistance	-0.493062959
## 805	2023-08-17	Email	@frank_chat	Team meeting	0.932789830
## 806	2023-08-17	Email	@bob_tweets	Fun weekend!	0.825692308
## 807	2023-08-17	Slack	alice@example	Exciting news!	-0.301641050
## 808	2023-08-17	Email	@bob_tweets	Team meeting	-0.467768930
## 809	2023-08-17	Twitter	@bob_tweets	Exciting news!	0.953910344
## 810	2023-08-17	Twitter	@frank_chat	Hello everyone!	0.951721462
## 811	2023-08-17	Twitter	carol_slack	Fun weekend!	0.172285239
## 812	2023-08-17	Email	@erin_tweets	Great work!	0.709753431
## 813	2023-08-17	Email	dave@example	Fun weekend!	0.420022254
## 814	2023-08-17	Twitter	@erin_tweets	Fun weekend!	-0.417790642
## 815	2023-08-17	Email	dave@example	Hello everyone!	0.976894801
## 816	2023-08-17	Slack	alice@example	Great work!	0.652192219
## 817	2023-08-17	Twitter	dave@example	Fun weekend!	0.775130778
## 818	2023-08-17	Email	@frank_chat	Great work!	-0.951084716
## 819	2023-08-17	Twitter	carol_slack	Need assistance	-0.806338225
## 820	2023-08-17	Twitter	@erin_tweets	Hello everyone!	0.299843722
## 821	2023-08-17	Email	@erin_tweets	Team meeting	0.863822790
## 822	2023-08-17	Twitter	alice@example	Great work!	-0.641657173
## 823	2023-08-17	Slack	carol_slack	Need assistance	-0.750471560
## 824	2023-08-17	Twitter	@frank_chat	Team meeting	-0.232014328
## 825	2023-08-17	Twitter	@frank_chat	Fun weekend!	-0.624432764
## 826	2023-08-17	Email	dave@example	Fun weekend!	-0.173903828
## 827	2023-08-17	Twitter	alice@example	Hello everyone!	0.582868762
## 828	2023-08-17	Twitter	alice@example	Hello everyone!	-0.605858998
## 829	2023-08-17	Email	@frank_chat	Team meeting	-0.229243480
## 830	2023-08-17	Twitter	dave@example	Need assistance	-0.035525655
## 831	2023-08-17	Twitter	@erin_tweets	Hello everyone!	-0.606922586
## 832	2023-08-17	Slack	carol_slack	Fun weekend!	0.169502832
## 833	2023-08-17	Slack	@frank_chat	Great work!	-0.700269639
## 834	2023-08-17	Slack	alice@example	Great work!	-0.853163924
## 835	2023-08-17	Twitter	@frank_chat	Team meeting	-0.608078998
## 836	2023-08-17	Twitter	carol_slack	Need assistance	-0.065970336
## 837	2023-08-17	Email	@frank_chat	Exciting news!	-0.770805090
## 838	2023-08-17	Twitter	@bob_tweets	Great work!	0.401612313

## 839	2023-08-17	Twitter	alice@example	Exciting news!	0.968932204
## 840	2023-08-17	Email	dave@example	Team meeting	-0.047711935
## 841	2023-08-17	Twitter	carol_slack	Need assistance	-0.101536875
## 842	2023-08-17	Twitter	carol_slack	Exciting news!	-0.237763272
## 843	2023-08-17	Twitter	@erin_tweets	Team meeting	-0.666378770
## 844	2023-08-17	Email	@frank_chat	Need assistance	-0.837423526
## 845	2023-08-17	Slack	@erin_tweets	Hello everyone!	0.937329018
## 846	2023-08-18	Email	@frank_chat	Fun weekend!	0.380196611
## 847	2023-08-18	Email	alice@example	Fun weekend!	0.233402089
## 848	2023-08-18	Twitter	@frank_chat	Team meeting	-0.004460444
## 849	2023-08-18	Email	@frank_chat	Fun weekend!	-0.569811309
## 850	2023-08-18	Slack	@bob_tweets	Fun weekend!	-0.558302570
## 851	2023-08-18	Email	dave@example	Need assistance	-0.770186925
## 852	2023-08-18	Twitter	@bob_tweets	Need assistance	0.083397951
## 853	2023-08-18	Email	@bob_tweets	Fun weekend!	-0.558283084
## 854	2023-08-18	Twitter	@frank_chat	Exciting news!	-0.445320373
## 855	2023-08-18	Twitter	dave@example	Need assistance	-0.577738499
## 856	2023-08-18	Email	alice@example	Hello everyone!	-0.024430894
## 857	2023-08-18	Email	@erin_tweets	Need assistance	-0.240649289
## 858	2023-08-18	Email	carol_slack	Team meeting	0.343653605
## 859	2023-08-18	Email	@bob_tweets	Exciting news!	0.497974098
## 860	2023-08-18	Twitter	@frank_chat	Exciting news!	0.784590872
## 861	2023-08-18	Slack	@erin_tweets	Team meeting	0.353438236
## 862	2023-08-18	Twitter	carol_slack	Exciting news!	0.222249684
## 863	2023-08-18	Email	alice@example	Exciting news!	0.422912350
## 864	2023-08-18	Slack	@bob_tweets	Need assistance	-0.754348847
## 865	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.537696546
## 866	2023-08-18	Email	carol_slack	Exciting news!	-0.978982675
## 867	2023-08-18	Twitter	dave@example	Need assistance	-0.613432584
## 868	2023-08-18	Email	@frank_chat	Fun weekend!	0.061621126
## 869	2023-08-18	Twitter	dave@example	Exciting news!	-0.209318373
## 870	2023-08-18	Slack	dave@example	Team meeting	-0.718652172
## 871	2023-08-18	Twitter	dave@example	Team meeting	-0.012694929
## 872	2023-08-18	Slack	dave@example	Fun weekend!	-0.566594298
## 873	2023-08-18	Twitter	@erin_tweets	Need assistance	0.116931847
## 874	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.719712700
## 875	2023-08-18	Twitter	@bob_tweets	Exciting news!	0.290797958
## 876	2023-08-18	Email	@erin_tweets	Need assistance	0.171319252
## 877	2023-08-18	Email	dave@example	Hello everyone!	0.978220029
## 878	2023-08-18	Slack	@frank_chat	Team meeting	-0.134102609
## 879	2023-08-18	Email	alice@example	Need assistance	0.275121063
## 880	2023-08-18	Twitter	@bob_tweets	Fun weekend!	0.590919483
## 881	2023-08-18	Twitter	@frank_chat	Team meeting	0.818109252
## 882	2023-08-18	Email	dave@example	Exciting news!	-0.768564025
## 883	2023-08-18	Twitter	carol_slack	Need assistance	-0.107154121
## 884	2023-08-18	Slack	@bob_tweets	Fun weekend!	0.567603516
## 885	2023-08-18	Email	carol_slack	Exciting news!	-0.546088908
## 886	2023-08-18	Email	carol_slack	Need assistance	0.121493359
## 887	2023-08-18	Slack	@bob_tweets	Hello everyone!	-0.164491392
## 888	2023-08-18	Slack	@bob_tweets	Team meeting	0.403409261
## 889	2023-08-18	Slack	@erin_tweets	Hello everyone!	-0.395961934
## 890	2023-08-18	Slack	alice@example	Great work!	-0.114574431
## 891	2023-08-18	Twitter	alice@example	Fun weekend!	0.977650215
## 892	2023-08-18	Twitter	dave@example	Great work!	-0.160749977
## 893	2023-08-18	Twitter	@bob_tweets	Fun weekend!	0.866654206
## 894	2023-08-18	Slack	@bob_tweets	Fun weekend!	-0.898072343

## 895	2023-08-18	Slack	@bob_tweets	Team meeting	0.192284770
## 896	2023-08-18	Slack	alice@example	Fun weekend!	-0.088887415
## 897	2023-08-18	Twitter	alice@example	Hello everyone!	-0.936083395
## 898	2023-08-18	Email	@bob_tweets	Need assistance	0.453627230
## 899	2023-08-18	Twitter	@bob_tweets	Great work!	-0.839583620
## 900	2023-08-18	Email	alice@example	Team meeting	-0.377541550
## 901	2023-08-18	Slack	@frank_chat	Great work!	-0.071027102
## 902	2023-08-19	Twitter	@frank_chat	Need assistance	0.481529109
## 903	2023-08-19	Email	dave@example	Exciting news!	0.821827833
## 904	2023-08-19	Email	dave@example	Exciting news!	-0.533024813
## 905	2023-08-19	Email	@erin_tweets	Team meeting	-0.757670477
## 906	2023-08-19	Email	alice@example	Exciting news!	0.401543677
## 907	2023-08-19	Slack	dave@example	Great work!	-0.526421044
## 908	2023-08-19	Slack	@bob_tweets	Hello everyone!	0.679174718
## 909	2023-08-19	Slack	@bob_tweets	Hello everyone!	-0.558468956
## 910	2023-08-19	Twitter	@bob_tweets	Great work!	0.521462946
## 911	2023-08-19	Email	dave@example	Exciting news!	0.324592507
## 912	2023-08-19	Email	@erin_tweets	Team meeting	-0.823923888
## 913	2023-08-19	Slack	@erin_tweets	Great work!	0.037533612
## 914	2023-08-19	Email	dave@example	Team meeting	0.087382621
## 915	2023-08-19	Slack	alice@example	Team meeting	-0.249497572
## 916	2023-08-19	Email	@frank_chat	Hello everyone!	0.179850068
## 917	2023-08-19	Email	alice@example	Great work!	0.301563812
## 918	2023-08-19	Slack	@bob_tweets	Hello everyone!	0.487545231
## 919	2023-08-19	Twitter	@frank_chat	Fun weekend!	-0.371842024
## 920	2023-08-19	Twitter	dave@example	Team meeting	-0.284638313
## 921	2023-08-19	Email	carol_slack	Fun weekend!	0.892766985
## 922	2023-08-19	Twitter	carol_slack	Team meeting	0.317846402
## 923	2023-08-19	Twitter	alice@example	Need assistance	0.143810244
## 924	2023-08-19	Twitter	@erin_tweets	Team meeting	0.945942261
## 925	2023-08-19	Twitter	alice@example	Fun weekend!	-0.111042333
## 926	2023-08-19	Email	@frank_chat	Team meeting	-0.943049938
## 927	2023-08-19	Email	dave@example	Great work!	-0.336303487
## 928	2023-08-19	Email	@erin_tweets	Fun weekend!	0.149510738
## 929	2023-08-19	Twitter	alice@example	Team meeting	-0.299451457
## 930	2023-08-19	Email	@bob_tweets	Team meeting	0.855612874
## 931	2023-08-19	Twitter	dave@example	Need assistance	-0.115035673
## 932	2023-08-19	Slack	@erin_tweets	Great work!	-0.725357866
## 933	2023-08-19	Twitter	@frank_chat	Exciting news!	0.388266448
## 934	2023-08-19	Twitter	carol_slack	Team meeting	0.578111817
## 935	2023-08-19	Twitter	alice@example	Hello everyone!	-0.378329881
## 936	2023-08-19	Twitter	@bob_tweets	Hello everyone!	0.420571170
## 937	2023-08-19	Twitter	@frank_chat	Exciting news!	0.221380584
## 938	2023-08-19	Slack	@frank_chat	Team meeting	-0.887928675
## 939	2023-08-19	Email	@frank_chat	Great work!	0.463513046
## 940	2023-08-19	Email	alice@example	Hello everyone!	-0.040838550
## 941	2023-08-19	Email	@erin_tweets	Great work!	0.570171806
## 942	2023-08-19	Email	dave@example	Team meeting	-0.528815492
## 943	2023-08-19	Twitter	@erin_tweets	Exciting news!	0.638825124
## 944	2023-08-19	Slack	@frank_chat	Team meeting	-0.472906698
## 945	2023-08-19	Slack	dave@example	Team meeting	-0.789976987
## 946	2023-08-19	Slack	alice@example	Exciting news!	0.502961815
## 947	2023-08-19	Twitter	alice@example	Hello everyone!	0.857508211
## 948	2023-08-20	Email	dave@example	Team meeting	0.617879979
## 949	2023-08-20	Email	carol_slack	Team meeting	0.909817838
## 950	2023-08-20	Email	alice@example	Great work!	0.062977130

## 951	2023-08-20	Twitter	alice@example	Hello everyone!	0.482187657
## 952	2023-08-20	Email	alice@example	Hello everyone!	-0.166448134
## 953	2023-08-20	Email	@bob_tweets	Exciting news!	0.931368547
## 954	2023-08-20	Slack	alice@example	Great work!	-0.459148118
## 955	2023-08-20	Slack	dave@example	Exciting news!	0.617734990
## 956	2023-08-20	Twitter	alice@example	Exciting news!	0.310656996
## 957	2023-08-20	Twitter	carol_slack	Great work!	0.544291852
## 958	2023-08-20	Slack	@bob_tweets	Great work!	0.203791809
## 959	2023-08-20	Slack	alice@example	Exciting news!	0.685212519
## 960	2023-08-20	Twitter	@erin_tweets	Great work!	-0.404516522
## 961	2023-08-20	Slack	dave@example	Exciting news!	-0.476039052
## 962	2023-08-20	Email	@bob_tweets	Need assistance	-0.299717092
## 963	2023-08-20	Twitter	@erin_tweets	Great work!	-0.743658878
## 964	2023-08-20	Twitter	@frank_chat	Team meeting	0.659773430
## 965	2023-08-20	Slack	alice@example	Exciting news!	-0.415822029
## 966	2023-08-20	Twitter	alice@example	Fun weekend!	0.280627117
## 967	2023-08-20	Email	@bob_tweets	Team meeting	-0.801527123
## 968	2023-08-20	Slack	@erin_tweets	Team meeting	-0.134665603
## 969	2023-08-20	Email	carol_slack	Team meeting	0.078007510
## 970	2023-08-20	Slack	dave@example	Great work!	0.814900840
## 971	2023-08-20	Email	@erin_tweets	Exciting news!	-0.195798854
## 972	2023-08-20	Slack	@erin_tweets	Fun weekend!	0.604609676
## 973	2023-08-20	Twitter	@bob_tweets	Fun weekend!	0.236553716
## 974	2023-08-20	Email	dave@example	Team meeting	0.985037738
## 975	2023-08-20	Slack	carol_slack	Exciting news!	0.221250645
## 976	2023-08-20	Twitter	dave@example	Fun weekend!	-0.818538250
## 977	2023-08-20	Twitter	@erin_tweets	Great work!	-0.349391197
## 978	2023-08-20	Email	carol_slack	Great work!	0.680826971
## 979	2023-08-20	Slack	carol_slack	Great work!	-0.574539005
## 980	2023-08-20	Twitter	@frank_chat	Team meeting	-0.476500273
## 981	2023-08-20	Twitter	@erin_tweets	Team meeting	0.341763970
## 982	2023-08-20	Slack	alice@example	Hello everyone!	-0.863882122
## 983	2023-08-20	Email	@frank_chat	Team meeting	-0.993759494
## 984	2023-08-20	Twitter	alice@example	Fun weekend!	-0.436848105
## 985	2023-08-20	Twitter	dave@example	Exciting news!	-0.542942689
## 986	2023-08-20	Slack	@bob_tweets	Team meeting	-0.118006961
## 987	2023-08-20	Slack	carol_slack	Great work!	-0.595158034
## 988	2023-08-20	Slack	@frank_chat	Great work!	0.606102686
## 989	2023-08-20	Email	alice@example	Fun weekend!	0.851679420
## 990	2023-08-20	Email	@frank_chat	Team meeting	0.560076173
## 991	2023-08-20	Slack	carol_slack	Fun weekend!	0.231915887
## 992	2023-08-20	Slack	@bob_tweets	Hello everyone!	0.520647362
## 993	2023-08-20	Email	carol_slack	Team meeting	0.082343857
## 994	2023-08-20	Twitter	@frank_chat	Exciting news!	0.307898677
## 995	2023-08-20	Twitter	dave@example	Great work!	-0.124954135
## 996	2023-08-20	Email	dave@example	Team meeting	-0.075425136
## 997	2023-08-20	Email	alice@example	Hello everyone!	-0.555095884
## 998	2023-08-20	Slack	@erin_tweets	Hello everyone!	-0.357717138
## 999	2023-08-20	Twitter	carol_slack	Hello everyone!	0.640248996
## 1000	2023-08-20	Twitter	@erin_tweets	Exciting news!	0.131818828

#### Question-4: Distinct Discovery

Apply the distinct command to find the unique senders in the “comm\_data” dataframe.

**Solution:**

```
# Enter code here
comm_data%>%distinct(sender)
```

```
##           sender
## 1 dave@example
## 2  @bob_tweets
## 3  @frank_chat
## 4  @erin_tweets
## 5 alice@example
## 6  carol_slack
```

### Question-5: Sender Stats

Employ the count and group\_by commands to generate a summary table that shows the count of messages sent by each sender in the “comm\_data” dataframe.

**Solution:**

```
# Enter code here
comm_data%>%group_by(sender)%>%count()
```

```
## # A tibble: 6 × 2
## # Groups:   sender [6]
##   sender      n
##   <chr>    <int>
## 1 @bob_tweets    179
## 2 @erin_tweets    171
## 3 @frank_chat    174
## 4 alice@example    180
## 5 carol_slack    141
## 6 dave@example    155
```

### Question-6: Channel Chatter Insights

Using the group\_by and count commands, create a summary table that displays the count of messages sent through each communication channel in the “comm\_data” dataframe.

**Solution:**

```
# Enter code here
comm_data%>%group_by(channel)%>%count()
```



```
## # A tibble: 3 × 2
## # Groups:   channel [3]
##   channel     n
##   <chr>   <int>
## 1 Email     331
## 2 Slack     320
## 3 Twitter   349
```

## Question-7: Positive Pioneers

Utilize the filter, select, and arrange commands to identify the top three senders with the highest average positive sentiment scores. Display their usernames and corresponding sentiment averages.

### Solution:

```
# Enter code here
#comm_data%>%filter(sentiment>0)
sentiment<-comm_data%>%group_by(sender)%>%summarise(average_sentiment=mean(sentiment))%>%arra
nge(desc(average_sentiment))
topthree<-head(sentiment,3)
topthree
```

```
## # A tibble: 3 × 2
##   sender          average_sentiment
##   <chr>              <dbl>
## 1 carol_slack         0.118
## 2 alice@example      0.0570
## 3 dave@example        0.00687
```

## Question-8: Message Mood Over Time

With the group\_by, summarise, and arrange commands, calculate the average sentiment score for each day in the “comm\_data” dataframe.

### Solution:

```
# Enter code here
#comm_data

newdataavg<-comm_data%>%group_by(date)%>%summarise(average_sentiment= mean(sentiment))
newdataavg
```

```
## # A tibble: 20 × 2
##   date          average_sentiment
##   <chr>          <dbl>
## 1 2023-08-01      -0.0616
## 2 2023-08-02       0.136
## 3 2023-08-03       0.107
## 4 2023-08-04      -0.0510
## 5 2023-08-05       0.193
## 6 2023-08-06      -0.0144
## 7 2023-08-07       0.0364
## 8 2023-08-08       0.0666
## 9 2023-08-09       0.0997
##10 2023-08-10      -0.0254
##11 2023-08-11      -0.0340
##12 2023-08-12       0.0668
##13 2023-08-13      -0.0604
##14 2023-08-14      -0.0692
##15 2023-08-15       0.0617
##16 2023-08-16      -0.0220
##17 2023-08-17      -0.0191
##18 2023-08-18      -0.0760
##19 2023-08-19       0.0551
##20 2023-08-20       0.0608
```

## Question-9: Selective Sentiments

Use the filter and select commands to extract messages with a negative sentiment score (less than 0) and create a new dataframe.

### Solution:

```
# Enter code here
library(dplyr)

comm_data %>%
  filter(sentiment < 0) %>%
  select(message, sentiment)
```

##	message	sentiment
## 1	Hello everyone!	-0.143450806
## 2	Need assistance	-0.108376242
## 3	Hello everyone!	-0.740855453
## 4	Hello everyone!	-0.187917918
## 5	Hello everyone!	-0.932525445
## 6	Need assistance	-0.879413284
## 7	Great work!	-0.751736611
## 8	Team meeting	-0.786887704
## 9	Fun weekend!	-0.539049788
## 10	Exciting news!	-0.141741692
## 11	Team meeting	-0.189370414
## 12	Need assistance	-0.493062959
## 13	Great work!	-0.179680133
## 14	Team meeting	-0.092784007
## 15	Team meeting	-0.955364774
## 16	Need assistance	-0.766245456
## 17	Need assistance	-0.547700667
## 18	Exciting news!	-0.415566467
## 19	Great work!	-0.579760317
## 20	Exciting news!	-0.290788232
## 21	Need assistance	-0.340010146
## 22	Great work!	-0.443448592
## 23	Team meeting	-0.774452816
## 24	Hello everyone!	-0.882707532
## 25	Hello everyone!	-0.689319659
## 26	Hello everyone!	-0.219064676
## 27	Team meeting	-0.004460444
## 28	Team meeting	-0.935610580
## 29	Hello everyone!	-0.452905738
## 30	Need assistance	-0.834047724
## 31	Need assistance	-0.195926677
## 32	Fun weekend!	-0.285561244
## 33	Team meeting	-0.060755176
## 34	Fun weekend!	-0.569811309
## 35	Exciting news!	-0.018193701
## 36	Exciting news!	-0.301641050
## 37	Great work!	-0.244326655
## 38	Hello everyone!	-0.761104998
## 39	Exciting news!	-0.408464086
## 40	Fun weekend!	-0.584208118
## 41	Team meeting	-0.178657859
## 42	Great work!	-0.329095908
## 43	Fun weekend!	-0.707901944
## 44	Hello everyone!	-0.166448134
## 45	Exciting news!	-0.533024813
## 46	Need assistance	-0.356371285
## 47	Team meeting	-0.467768930
## 48	Fun weekend!	-0.056202481
## 49	Team meeting	-0.757670477
## 50	Exciting news!	-0.265161676
## 51	Exciting news!	-0.822780307
## 52	Need assistance	-0.680233249
## 53	Hello everyone!	-0.647561021
## 54	Great work!	-0.705626460

## 55 Hello everyone! -0.050532605  
## 56 Great work! -0.459148118  
## 57 Fun weekend! -0.034278538  
## 58 Great work! -0.013945965  
## 59 Team meeting -0.934943126  
## 60 Fun weekend! -0.474169046  
## 61 Team meeting -0.815906889  
## 62 Exciting news! -0.200843529  
## 63 Fun weekend! -0.958858334  
## 64 Fun weekend! -0.558302570  
## 65 Need assistance -0.435741366  
## 66 Need assistance -0.770186925  
## 67 Exciting news! -0.871460078  
## 68 Hello everyone! -0.843954970  
## 69 Fun weekend! -0.576360519  
## 70 Need assistance -0.462980804  
## 71 Exciting news! -0.745493084  
## 72 Hello everyone! -0.075317414  
## 73 Need assistance -0.815106571  
## 74 Great work! -0.526421044  
## 75 Team meeting -0.202094683  
## 76 Fun weekend! -0.390309056  
## 77 Great work! -0.733910211  
## 78 Fun weekend! -0.496555788  
## 79 Hello everyone! -0.892831107  
## 80 Hello everyone! -0.108963726  
## 81 Fun weekend! -0.799520459  
## 82 Fun weekend! -0.558283084  
## 83 Exciting news! -0.608554570  
## 84 Team meeting -0.526283488  
## 85 Need assistance -0.635092593  
## 86 Great work! -0.446627778  
## 87 Fun weekend! -0.149422837  
## 88 Great work! -0.630844017  
## 89 Fun weekend! -0.533522750  
## 90 Exciting news! -0.398672424  
## 91 Exciting news! -0.686074989  
## 92 Need assistance -0.514785561  
## 93 Exciting news! -0.445320373  
## 94 Exciting news! -0.433124611  
## 95 Hello everyone! -0.369747002  
## 96 Great work! -0.912142744  
## 97 Fun weekend! -0.760701751  
## 98 Hello everyone! -0.243440011  
## 99 Fun weekend! -0.159573650  
## 100 Exciting news! -0.260005387  
## 101 Need assistance -0.356432681  
## 102 Need assistance -0.577738499  
## 103 Team meeting -0.767587414  
## 104 Team meeting -0.014527882  
## 105 Fun weekend! -0.391704335  
## 106 Need assistance -0.857863282  
## 107 Team meeting -0.024207670  
## 108 Need assistance -0.611560303  
## 109 Need assistance -0.542398809  
## 110 Hello everyone! -0.940684421

## 111 Great work! -0.404516522  
## 112 Exciting news! -0.476039052  
## 113 Great work! -0.045373839  
## 114 Need assistance -0.042491458  
## 115 Hello everyone! -0.024430894  
## 116 Need assistance -0.299717092  
## 117 Hello everyone! -0.558468956  
## 118 Team meeting -0.386754569  
## 119 Hello everyone! -0.081353148  
## 120 Need assistance -0.194268964  
## 121 Fun weekend! -0.927836751  
## 122 Great work! -0.518683678  
## 123 Need assistance -0.240649289  
## 124 Great work! -0.743658878  
## 125 Team meeting -0.176315426  
## 126 Team meeting -0.320228465  
## 127 Exciting news! -0.582243779  
## 128 Need assistance -0.384110797  
## 129 Exciting news! -0.415822029  
## 130 Great work! -0.970631612  
## 131 Team meeting -0.823923888  
## 132 Need assistance -0.611636332  
## 133 Exciting news! -0.388513986  
## 134 Fun weekend! -0.049394990  
## 135 Team meeting -0.143542713  
## 136 Team meeting -0.385177557  
## 137 Need assistance -0.438415068  
## 138 Team meeting -0.549432104  
## 139 Great work! -0.769964864  
## 140 Fun weekend! -0.103599444  
## 141 Hello everyone! -0.321912185  
## 142 Great work! -0.150377708  
## 143 Need assistance -0.639425840  
## 144 Team meeting -0.801527123  
## 145 Team meeting -0.134665603  
## 146 Exciting news! -0.525143623  
## 147 Fun weekend! -0.417790642  
## 148 Great work! -0.410223121  
## 149 Exciting news! -0.302134784  
## 150 Team meeting -0.249497572  
## 151 Great work! -0.488912587  
## 152 Team meeting -0.271451744  
## 153 Exciting news! -0.007040349  
## 154 Hello everyone! -0.893453151  
## 155 Team meeting -0.670432338  
## 156 Need assistance -0.345415825  
## 157 Fun weekend! -0.848228461  
## 158 Fun weekend! -0.143456620  
## 159 Exciting news! -0.195798854  
## 160 Fun weekend! -0.358376735  
## 161 Exciting news! -0.930242309  
## 162 Hello everyone! -0.598425182  
## 163 Exciting news! -0.875286373  
## 164 Great work! -0.643276188  
## 165 Exciting news! -0.452694423  
## 166 Need assistance -0.754348847

## 167 Need assistance -0.829999507  
## 168 Fun weekend! -0.877705400  
## 169 Team meeting -0.111247493  
## 170 Great work! -0.317266905  
## 171 Fun weekend! -0.415885320  
## 172 Exciting news! -0.537696546  
## 173 Need assistance -0.130674560  
## 174 Need assistance -0.375053814  
## 175 Exciting news! -0.978982675  
## 176 Need assistance -0.220039924  
## 177 Need assistance -0.613432584  
## 178 Great work! -0.951084716  
## 179 Need assistance -0.920249034  
## 180 Exciting news! -0.209318373  
## 181 Need assistance -0.806338225  
## 182 Exciting news! -0.597888714  
## 183 Exciting news! -0.122806889  
## 184 Team meeting -0.976236885  
## 185 Exciting news! -0.858994203  
## 186 Fun weekend! -0.926554946  
## 187 Team meeting -0.718652172  
## 188 Fun weekend! -0.928850479  
## 189 Exciting news! -0.298691060  
## 190 Great work! -0.900102365  
## 191 Fun weekend! -0.371842024  
## 192 Team meeting -0.012694929  
## 193 Fun weekend! -0.357268680  
## 194 Fun weekend! -0.566594298  
## 195 Team meeting -0.284638313  
## 196 Team meeting -0.150205611  
## 197 Need assistance -0.904224418  
## 198 Exciting news! -0.901918261  
## 199 Fun weekend! -0.259928443  
## 200 Great work! -0.545365768  
## 201 Need assistance -0.104900640  
## 202 Fun weekend! -0.818538250  
## 203 Great work! -0.349391197  
## 204 Exciting news! -0.212464974  
## 205 Need assistance -0.543064435  
## 206 Fun weekend! -0.286604216  
## 207 Hello everyone! -0.038818533  
## 208 Great work! -0.574539005  
## 209 Exciting news! -0.762122771  
## 210 Team meeting -0.956999032  
## 211 Exciting news! -0.050068120  
## 212 Hello everyone! -0.355751095  
## 213 Need assistance -0.998774239  
## 214 Team meeting -0.970338997  
## 215 Exciting news! -0.033773244  
## 216 Team meeting -0.476500273  
## 217 Exciting news! -0.719712700  
## 218 Need assistance -0.064178423  
## 219 Hello everyone! -0.567197050  
## 220 Hello everyone! -0.510870771  
## 221 Hello everyone! -0.939573104  
## 222 Need assistance -0.014521594

## 223 Team meeting -0.287118956  
## 224 Need assistance -0.883181106  
## 225 Hello everyone! -0.863882122  
## 226 Great work! -0.641657173  
## 227 Exciting news! -0.847681918  
## 228 Team meeting -0.094959955  
## 229 Team meeting -0.024243061  
## 230 Need assistance -0.750471560  
## 231 Hello everyone! -0.526591262  
## 232 Fun weekend! -0.345988781  
## 233 Great work! -0.784876938  
## 234 Great work! -0.947211589  
## 235 Team meeting -0.235653992  
## 236 Hello everyone! -0.426096413  
## 237 Hello everyone! -0.774547359  
## 238 Team meeting -0.674190784  
## 239 Team meeting -0.993759494  
## 240 Team meeting -0.536957865  
## 241 Need assistance -0.718395420  
## 242 Great work! -0.400677142  
## 243 Team meeting -0.232014328  
## 244 Hello everyone! -0.918783627  
## 245 Fun weekend! -0.375794835  
## 246 Fun weekend! -0.021554315  
## 247 Team meeting -0.423585835  
## 248 Exciting news! -0.184577833  
## 249 Fun weekend! -0.624432764  
## 250 Fun weekend! -0.173903828  
## 251 Hello everyone! -0.029610693  
## 252 Exciting news! -0.616928389  
## 253 Great work! -0.359934055  
## 254 Exciting news! -0.615862965  
## 255 Great work! -0.049498704  
## 256 Fun weekend! -0.111042333  
## 257 Team meeting -0.943049938  
## 258 Great work! -0.336303487  
## 259 Team meeting -0.642315470  
## 260 Need assistance -0.236316590  
## 261 Need assistance -0.249764988  
## 262 Hello everyone! -0.161284721  
## 263 Great work! -0.956337988  
## 264 Fun weekend! -0.673607849  
## 265 Need assistance -0.775436828  
## 266 Team meeting -0.134102609  
## 267 Fun weekend! -0.436848105  
## 268 Exciting news! -0.823877914  
## 269 Team meeting -0.299451457  
## 270 Exciting news! -0.542942689  
## 271 Team meeting -0.118006961  
## 272 Need assistance -0.070094255  
## 273 Need assistance -0.919222645  
## 274 Exciting news! -0.768564025  
## 275 Great work! -0.595158034  
## 276 Fun weekend! -0.064443091  
## 277 Hello everyone! -0.605858998  
## 278 Great work! -0.823533585

## 279 Fun weekend! -0.485003887  
## 280 Need assistance -0.438784983  
## 281 Fun weekend! -0.495438306  
## 282 Hello everyone! -0.143556185  
## 283 Fun weekend! -0.735883705  
## 284 Exciting news! -0.024743940  
## 285 Fun weekend! -0.797102704  
## 286 Team meeting -0.365139902  
## 287 Need assistance -0.264464825  
## 288 Need assistance -0.461871512  
## 289 Need assistance -0.107154121  
## 290 Team meeting -0.229243480  
## 291 Need assistance -0.035525655  
## 292 Great work! -0.405934577  
## 293 Hello everyone! -0.606922586  
## 294 Hello everyone! -0.172054263  
## 295 Hello everyone! -0.987261285  
## 296 Fun weekend! -0.672147054  
## 297 Exciting news! -0.792284821  
## 298 Great work! -0.026141260  
## 299 Fun weekend! -0.141636565  
## 300 Fun weekend! -0.693275109  
## 301 Need assistance -0.115035673  
## 302 Great work! -0.068923920  
## 303 Team meeting -0.289186294  
## 304 Exciting news! -0.633368273  
## 305 Great work! -0.725357866  
## 306 Team meeting -0.812502595  
## 307 Fun weekend! -0.042934414  
## 308 Fun weekend! -0.895003283  
## 309 Need assistance -0.992002849  
## 310 Fun weekend! -0.552409418  
## 311 Team meeting -0.780283807  
## 312 Fun weekend! -0.835450725  
## 313 Great work! -0.236779108  
## 314 Great work! -0.495721815  
## 315 Hello everyone! -0.446434771  
## 316 Team meeting -0.144443278  
## 317 Team meeting -0.877922161  
## 318 Hello everyone! -0.725457437  
## 319 Team meeting -0.232356975  
## 320 Need assistance -0.115179492  
## 321 Hello everyone! -0.812013249  
## 322 Team meeting -0.320194449  
## 323 Exciting news! -0.546088908  
## 324 Great work! -0.018533767  
## 325 Great work! -0.777630202  
## 326 Team meeting -0.351081788  
## 327 Hello everyone! -0.217646003  
## 328 Team meeting -0.203160496  
## 329 Need assistance -0.100954488  
## 330 Team meeting -0.493501368  
## 331 Exciting news! -0.487793705  
## 332 Fun weekend! -0.329790550  
## 333 Exciting news! -0.149807401  
## 334 Great work! -0.022698464



## 335 Exciting news! -0.283369262  
## 336 Team meeting -0.933677876  
## 337 Hello everyone! -0.878399170  
## 338 Great work! -0.311243319  
## 339 Hello everyone! -0.572465386  
## 340 Fun weekend! -0.372473280  
## 341 Need assistance -0.713639749  
## 342 Great work! -0.700269639  
## 343 Exciting news! -0.539138246  
## 344 Exciting news! -0.054910814  
## 345 Exciting news! -0.693217811  
## 346 Hello everyone! -0.164491392  
## 347 Hello everyone! -0.694118693  
## 348 Great work! -0.222633559  
## 349 Great work! -0.111933967  
## 350 Great work! -0.417041691  
## 351 Great work! -0.841218561  
## 352 Need assistance -0.173975688  
## 353 Fun weekend! -0.102208237  
## 354 Great work! -0.505026447  
## 355 Need assistance -0.544543609  
## 356 Hello everyone! -0.289897254  
## 357 Team meeting -0.801572199  
## 358 Exciting news! -0.736287751  
## 359 Team meeting -0.303564250  
## 360 Need assistance -0.281915764  
## 361 Need assistance -0.273263505  
## 362 Great work! -0.693289580  
## 363 Hello everyone! -0.395961934  
## 364 Need assistance -0.970480603  
## 365 Team meeting -0.113114946  
## 366 Hello everyone! -0.666331347  
## 367 Exciting news! -0.995861550  
## 368 Great work! -0.549234209  
## 369 Hello everyone! -0.325806037  
## 370 Exciting news! -0.873230109  
## 371 Hello everyone! -0.851052538  
## 372 Hello everyone! -0.633588556  
## 373 Great work! -0.481857921  
## 374 Hello everyone! -0.378329881  
## 375 Great work! -0.674055766  
## 376 Hello everyone! -0.508614742  
## 377 Need assistance -0.917325706  
## 378 Need assistance -0.600080754  
## 379 Great work! -0.539260621  
## 380 Team meeting -0.074092148  
## 381 Need assistance -0.846264025  
## 382 Hello everyone! -0.562214842  
## 383 Hello everyone! -0.945477226  
## 384 Need assistance -0.329706852  
## 385 Team meeting -0.927027794  
## 386 Team meeting -0.996662613  
## 387 Great work! -0.853163924  
## 388 Team meeting -0.887928675  
## 389 Team meeting -0.608078998  
## 390 Great work! -0.114574431

## 391 Need assistance -0.065970336  
## 392 Exciting news! -0.616592484  
## 393 Fun weekend! -0.953222217  
## 394 Hello everyone! -0.120084892  
## 395 Hello everyone! -0.568787924  
## 396 Team meeting -0.641849058  
## 397 Fun weekend! -0.530567507  
## 398 Fun weekend! -0.998980226  
## 399 Team meeting -0.492082868  
## 400 Great work! -0.160749977  
## 401 Team meeting -0.709024122  
## 402 Hello everyone! -0.440484574  
## 403 Fun weekend! -0.898072343  
## 404 Need assistance -0.161143415  
## 405 Hello everyone! -0.040838550  
## 406 Exciting news! -0.798021044  
## 407 Great work! -0.652119522  
## 408 Exciting news! -0.286527871  
## 409 Great work! -0.597466531  
## 410 Exciting news! -0.113282133  
## 411 Fun weekend! -0.520876877  
## 412 Team meeting -0.528815492  
## 413 Hello everyone! -0.279889458  
## 414 Fun weekend! -0.455487390  
## 415 Hello everyone! -0.822144668  
## 416 Hello everyone! -0.160779689  
## 417 Need assistance -0.102778860  
## 418 Fun weekend! -0.511013610  
## 419 Team meeting -0.879799920  
## 420 Great work! -0.387922954  
## 421 Exciting news! -0.750027833  
## 422 Need assistance -0.614020258  
## 423 Exciting news! -0.770805090  
## 424 Hello everyone! -0.638266036  
## 425 Hello everyone! -0.416070993  
## 426 Great work! -0.232635738  
## 427 Hello everyone! -0.798660460  
## 428 Great work! -0.389785778  
## 429 Hello everyone! -0.691606675  
## 430 Hello everyone! -0.359136123  
## 431 Great work! -0.351176404  
## 432 Great work! -0.311684015  
## 433 Fun weekend! -0.789119672  
## 434 Team meeting -0.472906698  
## 435 Team meeting -0.789976987  
## 436 Team meeting -0.307752223  
## 437 Great work! -0.948017055  
## 438 Hello everyone! -0.318016798  
## 439 Team meeting -0.893834382  
## 440 Need assistance -0.600851388  
## 441 Great work! -0.548428072  
## 442 Need assistance -0.003094339  
## 443 Fun weekend! -0.528116655  
## 444 Great work! -0.124954135  
## 445 Need assistance -0.198273231  
## 446 Fun weekend! -0.240693055

```
## 447 Team meeting -0.075425136
## 448 Fun weekend! -0.088887415
## 449 Team meeting -0.939407335
## 450 Great work! -0.666475324
## 451 Hello everyone! -0.936083395
## 452 Great work! -0.389590032
## 453 Hello everyone! -0.555095884
## 454 Team meeting -0.047711935
## 455 Exciting news! -0.618614707
## 456 Fun weekend! -0.412842807
## 457 Great work! -0.251496902
## 458 Need assistance -0.459899545
## 459 Need assistance -0.101536875
## 460 Exciting news! -0.329569053
## 461 Great work! -0.806566573
## 462 Exciting news! -0.249575844
## 463 Hello everyone! -0.064463819
## 464 Hello everyone! -0.357717138
## 465 Need assistance -0.696885624
## 466 Exciting news! -0.662697271
## 467 Great work! -0.704862314
## 468 Need assistance -0.129298556
## 469 Need assistance -0.988749139
## 470 Need assistance -0.044029484
## 471 Exciting news! -0.237763272
## 472 Team meeting -0.666378770
## 473 Exciting news! -0.010767524
## 474 Team meeting -0.712716471
## 475 Great work! -0.839583620
## 476 Great work! -0.887057793
## 477 Need assistance -0.837423526
## 478 Great work! -0.462906254
## 479 Great work! -0.129584252
## 480 Team meeting -0.377541550
## 481 Fun weekend! -0.363247766
## 482 Need assistance -0.716619523
## 483 Great work! -0.071027102
## 484 Hello everyone! -0.360894154
## 485 Need assistance -0.316063035
## 486 Exciting news! -0.531753783
## 487 Team meeting -0.785379849
```

## Question-10: Enhancing Engagement

Apply the mutate command to add a new column to the “comm\_data” dataframe, representing a sentiment label: “Positive,” “Neutral,” or “Negative,” based on the sentiment score.

### Solution:

```
# Enter code here
comm_data %>%
  mutate(sentiment_label = ifelse(sentiment > 0, "Positive",
                                  (sentiment == 0, "Neutral", "Negative"))) ifelse
```

##	date	channel	sender	message	sentiment
## 1	2023-08-11	Twitter	dave@example	Fun weekend!	0.824099663
## 2	2023-08-11	Email	@bob_tweets	Hello everyone!	0.662486946
## 3	2023-08-11	Slack	@frank_chat	Hello everyone!	-0.143450806
## 4	2023-08-18	Email	@frank_chat	Fun weekend!	0.380196611
## 5	2023-08-14	Slack	@frank_chat	Need assistance	0.187954018
## 6	2023-08-04	Email	@erin_tweets	Need assistance	-0.108376242
## 7	2023-08-10	Twitter	@frank_chat	Hello everyone!	-0.740855453
## 8	2023-08-04	Slack	alice@example	Hello everyone!	-0.187917918
## 9	2023-08-20	Email	dave@example	Team meeting	0.617879979
## 10	2023-08-09	Slack	@erin_tweets	Hello everyone!	-0.932525445
## 11	2023-08-06	Email	@frank_chat	Team meeting	0.819675826
## 12	2023-08-16	Twitter	@erin_tweets	Great work!	0.150156671
## 13	2023-08-01	Twitter	alice@example	Need assistance	0.676776995
## 14	2023-08-16	Slack	alice@example	Exciting news!	0.320830711
## 15	2023-08-16	Twitter	alice@example	Exciting news!	0.927110374
## 16	2023-08-07	Email	@bob_tweets	Great work!	0.642848774
## 17	2023-08-01	Twitter	@bob_tweets	Need assistance	0.148395223
## 18	2023-08-20	Email	carol_slack	Team meeting	0.909817838
## 19	2023-08-08	Slack	@erin_tweets	Need assistance	-0.879413284
## 20	2023-08-06	Slack	dave@example	Hello everyone!	0.968081689
## 21	2023-08-11	Twitter	@bob_tweets	Great work!	-0.751736611
## 22	2023-08-12	Twitter	dave@example	Team meeting	-0.786887704
## 23	2023-08-12	Slack	@frank_chat	Fun weekend!	0.519153008
## 24	2023-08-11	Email	@frank_chat	Fun weekend!	0.874191639
## 25	2023-08-04	Email	@bob_tweets	Fun weekend!	-0.539049788
## 26	2023-08-13	Email	alice@example	Hello everyone!	0.433930994
## 27	2023-08-16	Twitter	@bob_tweets	Exciting news!	-0.141741692
## 28	2023-08-09	Twitter	alice@example	Need assistance	0.083300223
## 29	2023-08-14	Twitter	dave@example	Great work!	0.866824818
## 30	2023-08-17	Twitter	alice@example	Team meeting	-0.189370414
## 31	2023-08-17	Twitter	@bob_tweets	Need assistance	-0.493062959
## 32	2023-08-15	Email	@bob_tweets	Great work!	0.468266435
## 33	2023-08-01	Twitter	@frank_chat	Need assistance	0.599045397
## 34	2023-08-16	Twitter	alice@example	Great work!	-0.179680133
## 35	2023-08-10	Twitter	@erin_tweets	Great work!	0.199771451
## 36	2023-08-07	Email	dave@example	Team meeting	0.327507946
## 37	2023-08-02	Email	dave@example	Great work!	0.973676749
## 38	2023-08-13	Email	@bob_tweets	Team meeting	-0.092784007
## 39	2023-08-11	Slack	@bob_tweets	Team meeting	-0.955364774
## 40	2023-08-05	Email	carol_slack	Exciting news!	0.468174768
## 41	2023-08-19	Twitter	@frank_chat	Need assistance	0.481529109
## 42	2023-08-10	Slack	@erin_tweets	Need assistance	-0.766245456
## 43	2023-08-11	Email	carol_slack	Need assistance	-0.547700667
## 44	2023-08-06	Twitter	@erin_tweets	Exciting news!	-0.415566467
## 45	2023-08-06	Email	carol_slack	Great work!	-0.579760317
## 46	2023-08-18	Email	alice@example	Fun weekend!	0.233402089
## 47	2023-08-07	Email	@frank_chat	Fun weekend!	0.387379609
## 48	2023-08-20	Email	alice@example	Great work!	0.062977130
## 49	2023-08-16	Slack	@erin_tweets	Exciting news!	-0.290788232
## 50	2023-08-02	Twitter	alice@example	Team meeting	0.210089974
## 51	2023-08-12	Email	dave@example	Need assistance	0.091942075
## 52	2023-08-10	Twitter	@erin_tweets	Need assistance	-0.340010146
## 53	2023-08-13	Slack	carol_slack	Hello everyone!	0.675182751
## 54	2023-08-13	Slack	@bob_tweets	Great work!	-0.443448592

## 55	2023-08-16	Slack	@bob_tweets	Team meeting	-0.774452816
## 56	2023-08-13	Slack	alice@example	Great work!	0.480868685
## 57	2023-08-07	Slack	@frank_chat	Need assistance	0.914976185
## 58	2023-08-13	Twitter	dave@example	Fun weekend!	0.986894567
## 59	2023-08-06	Twitter	alice@example	Hello everyone!	-0.882707532
## 60	2023-08-15	Slack	@erin_tweets	Hello everyone!	-0.689319659
## 61	2023-08-17	Email	@frank_chat	Team meeting	0.932789830
## 62	2023-08-12	Slack	@frank_chat	Hello everyone!	-0.219064676
## 63	2023-08-18	Twitter	@frank_chat	Team meeting	-0.004460444
## 64	2023-08-20	Twitter	alice@example	Hello everyone!	0.482187657
## 65	2023-08-14	Twitter	@frank_chat	Team meeting	-0.935610580
## 66	2023-08-03	Email	@erin_tweets	Fun weekend!	0.924321534
## 67	2023-08-06	Slack	@bob_tweets	Hello everyone!	-0.452905738
## 68	2023-08-14	Twitter	alice@example	Exciting news!	0.415267176
## 69	2023-08-16	Email	@frank_chat	Hello everyone!	0.997601895
## 70	2023-08-13	Twitter	alice@example	Need assistance	0.119616441
## 71	2023-08-13	Email	dave@example	Need assistance	-0.834047724
## 72	2023-08-05	Slack	@erin_tweets	Need assistance	-0.195926677
## 73	2023-08-12	Slack	dave@example	Fun weekend!	-0.285561244
## 74	2023-08-16	Slack	carol_slack	Hello everyone!	0.529127310
## 75	2023-08-10	Email	@bob_tweets	Team meeting	-0.060755176
## 76	2023-08-12	Twitter	carol_slack	Great work!	0.407506729
## 77	2023-08-18	Email	@frank_chat	Fun weekend!	-0.569811309
## 78	2023-08-17	Email	@bob_tweets	Fun weekend!	0.825692308
## 79	2023-08-09	Email	@erin_tweets	Exciting news!	-0.018193701
## 80	2023-08-10	Email	@bob_tweets	Great work!	0.924440826
## 81	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.185009266
## 82	2023-08-19	Email	dave@example	Exciting news!	0.821827833
## 83	2023-08-04	Slack	alice@example	Need assistance	0.534302738
## 84	2023-08-17	Slack	alice@example	Exciting news!	-0.301641050
## 85	2023-08-15	Twitter	@erin_tweets	Great work!	-0.244326655
## 86	2023-08-15	Twitter	carol_slack	Hello everyone!	-0.761104998
## 87	2023-08-03	Twitter	@bob_tweets	Exciting news!	-0.408464086
## 88	2023-08-16	Email	@frank_chat	Fun weekend!	-0.584208118
## 89	2023-08-04	Slack	@bob_tweets	Fun weekend!	0.866016825
## 90	2023-08-15	Twitter	alice@example	Team meeting	-0.178657859
## 91	2023-08-07	Email	alice@example	Great work!	-0.329095908
## 92	2023-08-15	Twitter	alice@example	Fun weekend!	-0.707901944
## 93	2023-08-20	Email	alice@example	Hello everyone!	-0.166448134
## 94	2023-08-19	Email	dave@example	Exciting news!	-0.533024813
## 95	2023-08-07	Slack	@bob_tweets	Need assistance	-0.356371285
## 96	2023-08-17	Email	@bob_tweets	Team meeting	-0.467768930
## 97	2023-08-09	Twitter	carol_slack	Fun weekend!	-0.056202481
## 98	2023-08-19	Email	@erin_tweets	Team meeting	-0.757670477
## 99	2023-08-16	Twitter	@erin_tweets	Exciting news!	-0.265161676
## 100	2023-08-01	Twitter	@frank_chat	Exciting news!	-0.822780307
## 101	2023-08-10	Email	@frank_chat	Hello everyone!	0.535708998
## 102	2023-08-17	Twitter	@bob_tweets	Exciting news!	0.953910344
## 103	2023-08-14	Email	@erin_tweets	Great work!	0.891589128
## 104	2023-08-08	Email	@bob_tweets	Need assistance	0.115187556
## 105	2023-08-03	Twitter	@erin_tweets	Need assistance	-0.680233249
## 106	2023-08-14	Twitter	@erin_tweets	Hello everyone!	-0.647561021
## 107	2023-08-20	Email	@bob_tweets	Exciting news!	0.931368547
## 108	2023-08-13	Twitter	@bob_tweets	Great work!	-0.705626460
## 109	2023-08-06	Slack	@frank_chat	Hello everyone!	-0.050532605
## 110	2023-08-20	Slack	alice@example	Great work!	-0.459148118

## 111	2023-08-20	Slack	dave@example	Exciting news!	0.617734990
## 112	2023-08-11	Email	alice@example	Fun weekend!	-0.034278538
## 113	2023-08-09	Twitter	alice@example	Great work!	-0.013945965
## 114	2023-08-10	Slack	dave@example	Team meeting	-0.934943126
## 115	2023-08-16	Slack	alice@example	Need assistance	0.669039086
## 116	2023-08-02	Slack	@erin_tweets	Fun weekend!	-0.474169046
## 117	2023-08-14	Email	@bob_tweets	Team meeting	-0.815906889
## 118	2023-08-07	Slack	@frank_chat	Exciting news!	0.993148146
## 119	2023-08-04	Email	alice@example	Exciting news!	-0.200843529
## 120	2023-08-13	Twitter	alice@example	Fun weekend!	-0.958858334
## 121	2023-08-08	Email	carol_slack	Team meeting	0.213498762
## 122	2023-08-18	Slack	@bob_tweets	Fun weekend!	-0.558302570
## 123	2023-08-12	Twitter	carol_slack	Need assistance	-0.435741366
## 124	2023-08-18	Email	dave@example	Need assistance	-0.770186925
## 125	2023-08-11	Slack	@frank_chat	Exciting news!	-0.871460078
## 126	2023-08-18	Twitter	@bob_tweets	Need assistance	0.083397951
## 127	2023-08-11	Slack	dave@example	Hello everyone!	-0.843954970
## 128	2023-08-15	Email	@erin_tweets	Fun weekend!	-0.576360519
## 129	2023-08-09	Twitter	alice@example	Great work!	0.432502551
## 130	2023-08-11	Twitter	@erin_tweets	Need assistance	-0.462980804
## 131	2023-08-15	Email	carol_slack	Exciting news!	-0.745493084
## 132	2023-08-15	Twitter	dave@example	Fun weekend!	0.469535301
## 133	2023-08-02	Twitter	@erin_tweets	Exciting news!	0.750492542
## 134	2023-08-16	Email	alice@example	Team meeting	0.858062949
## 135	2023-08-07	Email	alice@example	Exciting news!	0.773558143
## 136	2023-08-19	Email	alice@example	Exciting news!	0.401543677
## 137	2023-08-17	Twitter	@frank_chat	Hello everyone!	0.951721462
## 138	2023-08-20	Twitter	alice@example	Exciting news!	0.310656996
## 139	2023-08-20	Twitter	carol_slack	Great work!	0.544291852
## 140	2023-08-10	Slack	@bob_tweets	Hello everyone!	-0.075317414
## 141	2023-08-04	Email	@erin_tweets	Need assistance	0.689327837
## 142	2023-08-15	Twitter	@bob_tweets	Team meeting	0.853966497
## 143	2023-08-10	Email	alice@example	Need assistance	-0.815106571
## 144	2023-08-03	Twitter	alice@example	Hello everyone!	0.530733542
## 145	2023-08-19	Slack	dave@example	Great work!	-0.526421044
## 146	2023-08-12	Twitter	dave@example	Hello everyone!	0.278570379
## 147	2023-08-01	Slack	@frank_chat	Team meeting	-0.202094683
## 148	2023-08-11	Email	dave@example	Great work!	0.509797142
## 149	2023-08-17	Twitter	carol_slack	Fun weekend!	0.172285239
## 150	2023-08-01	Slack	@bob_tweets	Exciting news!	0.146396939
## 151	2023-08-07	Twitter	@bob_tweets	Fun weekend!	-0.390309056
## 152	2023-08-20	Slack	@bob_tweets	Great work!	0.203791809
## 153	2023-08-12	Slack	carol_slack	Great work!	-0.733910211
## 154	2023-08-17	Email	@erin_tweets	Great work!	0.709753431
## 155	2023-08-10	Twitter	@erin_tweets	Fun weekend!	-0.496555788
## 156	2023-08-14	Twitter	alice@example	Hello everyone!	-0.892831107
## 157	2023-08-11	Slack	@frank_chat	Hello everyone!	-0.108963726
## 158	2023-08-11	Slack	alice@example	Fun weekend!	-0.799520459
## 159	2023-08-03	Twitter	carol_slack	Exciting news!	0.044649603
## 160	2023-08-18	Email	@bob_tweets	Fun weekend!	-0.558283084
## 161	2023-08-12	Twitter	@bob_tweets	Exciting news!	-0.608554570
## 162	2023-08-17	Email	dave@example	Fun weekend!	0.420022254
## 163	2023-08-16	Slack	alice@example	Need assistance	0.445466304
## 164	2023-08-01	Slack	@erin_tweets	Great work!	0.244422906
## 165	2023-08-01	Twitter	@frank_chat	Team meeting	-0.526283488
## 166	2023-08-04	Twitter	dave@example	Need assistance	-0.635092593

## 167	2023-08-07	Email	@erin_tweets	Great work!	-0.446627778
## 168	2023-08-06	Twitter	@bob_tweets	Fun weekend!	-0.149422837
## 169	2023-08-15	Slack	alice@example	Fun weekend!	0.271711212
## 170	2023-08-13	Twitter	alice@example	Hello everyone!	0.752351641
## 171	2023-08-05	Twitter	alice@example	Great work!	-0.630844017
## 172	2023-08-10	Slack	@frank_chat	Hello everyone!	0.142070077
## 173	2023-08-16	Twitter	@bob_tweets	Fun weekend!	-0.533522750
## 174	2023-08-06	Email	@bob_tweets	Fun weekend!	0.201027735
## 175	2023-08-13	Slack	@frank_chat	Exciting news!	0.443950114
## 176	2023-08-01	Twitter	@frank_chat	Exciting news!	-0.398672424
## 177	2023-08-07	Slack	alice@example	Exciting news!	-0.686074989
## 178	2023-08-13	Slack	@erin_tweets	Need assistance	-0.514785561
## 179	2023-08-18	Twitter	@frank_chat	Exciting news!	-0.445320373
## 180	2023-08-14	Twitter	alice@example	Great work!	0.346799491
## 181	2023-08-06	Twitter	dave@example	Exciting news!	-0.433124611
## 182	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.369747002
## 183	2023-08-07	Email	alice@example	Hello everyone!	0.917979236
## 184	2023-08-14	Twitter	@frank_chat	Great work!	-0.912142744
## 185	2023-08-09	Email	@erin_tweets	Exciting news!	0.020394353
## 186	2023-08-15	Slack	carol_slack	Fun weekend!	-0.760701751
## 187	2023-08-09	Slack	@bob_tweets	Team meeting	0.500293179
## 188	2023-08-03	Twitter	@bob_tweets	Hello everyone!	-0.243440011
## 189	2023-08-16	Slack	@bob_tweets	Team meeting	0.120248223
## 190	2023-08-06	Email	@bob_tweets	Fun weekend!	-0.159573650
## 191	2023-08-07	Email	carol_slack	Exciting news!	0.785684678
## 192	2023-08-12	Email	@erin_tweets	Exciting news!	-0.260005387
## 193	2023-08-13	Slack	carol_slack	Exciting news!	0.474910577
## 194	2023-08-01	Slack	@frank_chat	Need assistance	0.601800072
## 195	2023-08-07	Slack	alice@example	Need assistance	0.877496709
## 196	2023-08-10	Slack	alice@example	Need assistance	-0.356432681
## 197	2023-08-18	Twitter	dave@example	Need assistance	-0.577738499
## 198	2023-08-07	Email	@bob_tweets	Team meeting	-0.767587414
## 199	2023-08-12	Slack	alice@example	Fun weekend!	0.226010282
## 200	2023-08-14	Slack	@erin_tweets	Hello everyone!	0.987832270
## 201	2023-08-06	Slack	@frank_chat	Need assistance	0.746888391
## 202	2023-08-14	Twitter	alice@example	Team meeting	0.024089097
## 203	2023-08-07	Twitter	dave@example	Team meeting	-0.014527882
## 204	2023-08-02	Slack	@erin_tweets	Exciting news!	0.900116188
## 205	2023-08-09	Twitter	alice@example	Fun weekend!	-0.391704335
## 206	2023-08-07	Slack	@erin_tweets	Hello everyone!	0.079340591
## 207	2023-08-16	Email	carol_slack	Great work!	0.306993762
## 208	2023-08-10	Email	@frank_chat	Need assistance	-0.857863282
## 209	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.542777083
## 210	2023-08-03	Email	dave@example	Hello everyone!	0.575844854
## 211	2023-08-03	Twitter	dave@example	Team meeting	-0.024207670
## 212	2023-08-05	Twitter	@bob_tweets	Need assistance	0.089429019
## 213	2023-08-19	Slack	@bob_tweets	Hello everyone!	0.679174718
## 214	2023-08-03	Email	@erin_tweets	Team meeting	0.100578078
## 215	2023-08-04	Slack	@frank_chat	Need assistance	0.691338675
## 216	2023-08-07	Slack	@bob_tweets	Need assistance	-0.611560303
## 217	2023-08-11	Slack	@bob_tweets	Need assistance	-0.542398809
## 218	2023-08-05	Slack	@bob_tweets	Hello everyone!	-0.940684421
## 219	2023-08-20	Slack	alice@example	Exciting news!	0.685212519
## 220	2023-08-14	Email	@erin_tweets	Need assistance	0.867801995
## 221	2023-08-20	Twitter	@erin_tweets	Great work!	-0.404516522
## 222	2023-08-20	Slack	dave@example	Exciting news!	-0.476039052

##	223	2023-08-16	Twitter	dave@example	Great work!	0.827052074
##	224	2023-08-16	Email	carol_slack	Great work!	-0.045373839
##	225	2023-08-11	Slack	carol_slack	Exciting news!	0.062969209
##	226	2023-08-12	Email	@bob_tweets	Need assistance	-0.042491458
##	227	2023-08-18	Email	alice@example	Hello everyone!	-0.024430894
##	228	2023-08-03	Twitter	@bob_tweets	Need assistance	0.115823371
##	229	2023-08-20	Email	@bob_tweets	Need assistance	-0.299717092
##	230	2023-08-19	Slack	@bob_tweets	Hello everyone!	-0.558468956
##	231	2023-08-19	Twitter	@bob_tweets	Great work!	0.521462946
##	232	2023-08-05	Slack	@bob_tweets	Team meeting	-0.386754569
##	233	2023-08-08	Twitter	@frank_chat	Hello everyone!	-0.081353148
##	234	2023-08-16	Twitter	dave@example	Need assistance	-0.194268964
##	235	2023-08-07	Slack	carol_slack	Hello everyone!	0.973429719
##	236	2023-08-03	Twitter	carol_slack	Great work!	0.646422371
##	237	2023-08-11	Email	dave@example	Team meeting	0.146319367
##	238	2023-08-01	Slack	carol_slack	Hello everyone!	0.802523659
##	239	2023-08-08	Email	carol_slack	Fun weekend!	0.670605208
##	240	2023-08-16	Email	@frank_chat	Exciting news!	0.305391626
##	241	2023-08-06	Slack	@bob_tweets	Fun weekend!	-0.927836751
##	242	2023-08-14	Slack	@erin_tweets	Great work!	-0.518683678
##	243	2023-08-05	Email	@erin_tweets	Exciting news!	0.549038415
##	244	2023-08-13	Email	carol_slack	Exciting news!	0.991050147
##	245	2023-08-18	Email	@erin_tweets	Need assistance	-0.240649289
##	246	2023-08-20	Twitter	@erin_tweets	Great work!	-0.743658878
##	247	2023-08-11	Twitter	@frank_chat	Team meeting	0.629940747
##	248	2023-08-18	Email	carol_slack	Team meeting	0.343653605
##	249	2023-08-01	Slack	dave@example	Team meeting	-0.176315426
##	250	2023-08-05	Slack	carol_slack	Team meeting	-0.320228465
##	251	2023-08-08	Email	dave@example	Need assistance	0.084778340
##	252	2023-08-19	Email	dave@example	Exciting news!	0.324592507
##	253	2023-08-15	Slack	@frank_chat	Exciting news!	-0.582243779
##	254	2023-08-18	Email	@bob_tweets	Exciting news!	0.497974098
##	255	2023-08-14	Slack	@frank_chat	Need assistance	-0.384110797
##	256	2023-08-10	Slack	alice@example	Great work!	0.804542714
##	257	2023-08-10	Slack	@erin_tweets	Team meeting	0.862134462
##	258	2023-08-11	Twitter	dave@example	Exciting news!	0.018387399
##	259	2023-08-15	Email	carol_slack	Need assistance	0.414960733
##	260	2023-08-20	Twitter	@frank_chat	Team meeting	0.659773430
##	261	2023-08-12	Twitter	alice@example	Hello everyone!	0.532433989
##	262	2023-08-20	Slack	alice@example	Exciting news!	-0.415822029
##	263	2023-08-18	Twitter	@frank_chat	Exciting news!	0.784590872
##	264	2023-08-14	Twitter	@bob_tweets	Great work!	-0.970631612
##	265	2023-08-02	Twitter	dave@example	Exciting news!	0.817105632
##	266	2023-08-19	Email	@erin_tweets	Team meeting	-0.823923888
##	267	2023-08-02	Twitter	@erin_tweets	Exciting news!	0.581556937
##	268	2023-08-05	Twitter	carol_slack	Fun weekend!	0.706561523
##	269	2023-08-12	Slack	@frank_chat	Need assistance	-0.611636332
##	270	2023-08-08	Slack	carol_slack	Exciting news!	-0.388513986
##	271	2023-08-19	Slack	@erin_tweets	Great work!	0.037533612
##	272	2023-08-01	Email	carol_slack	Fun weekend!	0.757286296
##	273	2023-08-04	Slack	carol_slack	Fun weekend!	-0.049394990
##	274	2023-08-03	Twitter	carol_slack	Great work!	0.049291416
##	275	2023-08-16	Slack	@frank_chat	Team meeting	-0.143542713
##	276	2023-08-06	Twitter	carol_slack	Team meeting	-0.385177557
##	277	2023-08-06	Email	dave@example	Need assistance	-0.438415068
##	278	2023-08-06	Twitter	@bob_tweets	Team meeting	-0.549432104



## 279	2023-08-14	Email	carol_slack	Fun weekend!	0.446355308
## 280	2023-08-04	Email	alice@example	Great work!	-0.769964864
## 281	2023-08-05	Slack	@erin_tweets	Need assistance	0.519475343
## 282	2023-08-06	Slack	alice@example	Fun weekend!	-0.103599444
## 283	2023-08-04	Email	@frank_chat	Need assistance	0.063336529
## 284	2023-08-15	Slack	@bob_tweets	Exciting news!	0.423514269
## 285	2023-08-16	Slack	carol_slack	Hello everyone!	-0.321912185
## 286	2023-08-03	Slack	alice@example	Great work!	-0.150377708
## 287	2023-08-18	Slack	@erin_tweets	Team meeting	0.353438236
## 288	2023-08-03	Twitter	dave@example	Hello everyone!	0.902683333
## 289	2023-08-20	Twitter	alice@example	Fun weekend!	0.280627117
## 290	2023-08-15	Twitter	@frank_chat	Need assistance	-0.639425840
## 291	2023-08-05	Twitter	alice@example	Team meeting	0.824948560
## 292	2023-08-09	Slack	@erin_tweets	Team meeting	0.268132484
## 293	2023-08-04	Email	@bob_tweets	Need assistance	0.017915569
## 294	2023-08-18	Twitter	carol_slack	Exciting news!	0.222249684
## 295	2023-08-20	Email	@bob_tweets	Team meeting	-0.801527123
## 296	2023-08-12	Twitter	dave@example	Great work!	0.195303030
## 297	2023-08-14	Twitter	dave@example	Fun weekend!	0.474564350
## 298	2023-08-20	Slack	@erin_tweets	Team meeting	-0.134665603
## 299	2023-08-20	Email	carol_slack	Team meeting	0.078007510
## 300	2023-08-02	Twitter	@erin_tweets	Exciting news!	-0.525143623
## 301	2023-08-09	Slack	alice@example	Need assistance	0.665302936
## 302	2023-08-17	Twitter	@erin_tweets	Fun weekend!	-0.417790642
## 303	2023-08-08	Slack	@erin_tweets	Great work!	-0.410223121
## 304	2023-08-05	Slack	@erin_tweets	Exciting news!	-0.302134784
## 305	2023-08-19	Email	dave@example	Team meeting	0.087382621
## 306	2023-08-19	Slack	alice@example	Team meeting	-0.249497572
## 307	2023-08-03	Slack	dave@example	Great work!	-0.488912587
## 308	2023-08-15	Slack	@bob_tweets	Team meeting	-0.271451744
## 309	2023-08-10	Twitter	@erin_tweets	Team meeting	0.384202328
## 310	2023-08-06	Email	carol_slack	Great work!	0.766328182
## 311	2023-08-08	Email	alice@example	Exciting news!	-0.007040349
## 312	2023-08-07	Slack	@bob_tweets	Exciting news!	0.370947586
## 313	2023-08-03	Twitter	alice@example	Hello everyone!	-0.893453151
## 314	2023-08-01	Email	@frank_chat	Team meeting	-0.670432338
## 315	2023-08-18	Email	alice@example	Exciting news!	0.422912350
## 316	2023-08-03	Email	@frank_chat	Need assistance	-0.345415825
## 317	2023-08-04	Slack	dave@example	Fun weekend!	-0.848228461
## 318	2023-08-15	Email	@frank_chat	Need assistance	0.385732211
## 319	2023-08-06	Slack	alice@example	Fun weekend!	-0.143456620
## 320	2023-08-11	Slack	dave@example	Hello everyone!	0.879992486
## 321	2023-08-05	Twitter	carol_slack	Team meeting	0.364639959
## 322	2023-08-20	Slack	dave@example	Great work!	0.814900840
## 323	2023-08-20	Email	@erin_tweets	Exciting news!	-0.195798854
## 324	2023-08-09	Slack	dave@example	Fun weekend!	-0.358376735
## 325	2023-08-13	Email	carol_slack	Exciting news!	-0.930242309
## 326	2023-08-20	Slack	@erin_tweets	Fun weekend!	0.604609676
## 327	2023-08-15	Email	@erin_tweets	Hello everyone!	-0.598425182
## 328	2023-08-16	Slack	dave@example	Exciting news!	0.461496073
## 329	2023-08-02	Twitter	alice@example	Team meeting	0.964958043
## 330	2023-08-16	Twitter	carol_slack	Exciting news!	-0.875286373
## 331	2023-08-19	Email	@frank_chat	Hello everyone!	0.179850068
## 332	2023-08-14	Slack	@erin_tweets	Exciting news!	0.336964048
## 333	2023-08-07	Slack	@erin_tweets	Great work!	-0.643276188
## 334	2023-08-01	Twitter	@bob_tweets	Exciting news!	-0.452694423

##	335	2023-08-11	Twitter	@bob_tweets	Exciting news!	0.260118117
##	336	2023-08-18	Slack	@bob_tweets	Need assistance	-0.754348847
##	337	2023-08-14	Email	dave@example	Need assistance	-0.829999507
##	338	2023-08-14	Email	alice@example	Need assistance	0.043240849
##	339	2023-08-01	Slack	carol_slack	Fun weekend!	-0.877705400
##	340	2023-08-12	Twitter	@bob_tweets	Team meeting	0.265132846
##	341	2023-08-04	Slack	alice@example	Team meeting	-0.111247493
##	342	2023-08-05	Email	carol_slack	Fun weekend!	0.451752027
##	343	2023-08-04	Email	@frank_chat	Great work!	-0.317266905
##	344	2023-08-08	Twitter	alice@example	Hello everyone!	0.223401716
##	345	2023-08-07	Twitter	dave@example	Exciting news!	0.466239469
##	346	2023-08-14	Slack	dave@example	Hello everyone!	0.491653796
##	347	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.163814227
##	348	2023-08-04	Email	@erin_tweets	Fun weekend!	-0.415885320
##	349	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.537696546
##	350	2023-08-01	Email	carol_slack	Need assistance	-0.130674560
##	351	2023-08-10	Slack	@bob_tweets	Need assistance	0.279333149
##	352	2023-08-16	Twitter	carol_slack	Need assistance	-0.375053814
##	353	2023-08-18	Email	carol_slack	Exciting news!	-0.978982675
##	354	2023-08-14	Email	@erin_tweets	Need assistance	-0.220039924
##	355	2023-08-14	Email	alice@example	Need assistance	0.041204039
##	356	2023-08-20	Twitter	@bob_tweets	Fun weekend!	0.236553716
##	357	2023-08-08	Email	alice@example	Great work!	0.222402995
##	358	2023-08-19	Email	alice@example	Great work!	0.301563812
##	359	2023-08-17	Email	dave@example	Hello everyone!	0.976894801
##	360	2023-08-07	Slack	carol_slack	Team meeting	0.190247875
##	361	2023-08-07	Twitter	carol_slack	Need assistance	0.895823483
##	362	2023-08-01	Slack	dave@example	Team meeting	0.093826082
##	363	2023-08-17	Slack	alice@example	Great work!	0.652192219
##	364	2023-08-04	Slack	carol_slack	Need assistance	0.088740259
##	365	2023-08-08	Slack	@bob_tweets	Hello everyone!	0.740663246
##	366	2023-08-17	Twitter	dave@example	Fun weekend!	0.775130778
##	367	2023-08-11	Twitter	dave@example	Fun weekend!	0.124404418
##	368	2023-08-19	Slack	@bob_tweets	Hello everyone!	0.487545231
##	369	2023-08-18	Twitter	dave@example	Need assistance	-0.613432584
##	370	2023-08-17	Email	@frank_chat	Great work!	-0.951084716
##	371	2023-08-10	Email	@erin_tweets	Exciting news!	0.679597112
##	372	2023-08-12	Email	alice@example	Team meeting	0.774573303
##	373	2023-08-02	Email	dave@example	Exciting news!	0.717076284
##	374	2023-08-18	Email	@frank_chat	Fun weekend!	0.061621126
##	375	2023-08-14	Slack	@frank_chat	Need assistance	-0.920249034
##	376	2023-08-08	Twitter	@frank_chat	Fun weekend!	0.484796492
##	377	2023-08-18	Twitter	dave@example	Exciting news!	-0.209318373
##	378	2023-08-17	Twitter	carol_slack	Need assistance	-0.806338225
##	379	2023-08-12	Email	@bob_tweets	Exciting news!	-0.597888714
##	380	2023-08-04	Email	alice@example	Exciting news!	0.308247630
##	381	2023-08-04	Twitter	@bob_tweets	Exciting news!	-0.122806889
##	382	2023-08-17	Twitter	@erin_tweets	Hello everyone!	0.299843722
##	383	2023-08-10	Twitter	@erin_tweets	Exciting news!	0.275836162
##	384	2023-08-10	Twitter	@frank_chat	Team meeting	-0.976236885
##	385	2023-08-16	Email	alice@example	Exciting news!	-0.858994203
##	386	2023-08-12	Slack	carol_slack	Fun weekend!	0.608656868
##	387	2023-08-11	Twitter	@frank_chat	Fun weekend!	-0.926554946
##	388	2023-08-12	Email	dave@example	Fun weekend!	0.043927317
##	389	2023-08-15	Twitter	dave@example	Great work!	0.435108419
##	390	2023-08-18	Slack	dave@example	Team meeting	-0.718652172

## 391	2023-08-08	Slack	@frank_chat	Need assistance	0.963640937
## 392	2023-08-07	Twitter	carol_slack	Great work!	0.805481421
## 393	2023-08-16	Email	@erin_tweets	Fun weekend!	-0.928850479
## 394	2023-08-14	Slack	dave@example	Exciting news!	-0.298691060
## 395	2023-08-02	Slack	alice@example	Fun weekend!	0.823352248
## 396	2023-08-03	Email	@erin_tweets	Great work!	-0.900102365
## 397	2023-08-19	Twitter	@frank_chat	Fun weekend!	-0.371842024
## 398	2023-08-18	Twitter	dave@example	Team meeting	-0.012694929
## 399	2023-08-12	Twitter	@erin_tweets	Team meeting	0.650313874
## 400	2023-08-02	Email	dave@example	Fun weekend!	-0.357268680
## 401	2023-08-14	Slack	@erin_tweets	Need assistance	0.141076977
## 402	2023-08-15	Twitter	@bob_tweets	Need assistance	0.373691486
## 403	2023-08-11	Slack	dave@example	Need assistance	0.930096855
## 404	2023-08-18	Slack	dave@example	Fun weekend!	-0.566594298
## 405	2023-08-19	Twitter	dave@example	Team meeting	-0.284638313
## 406	2023-08-19	Email	carol_slack	Fun weekend!	0.892766985
## 407	2023-08-07	Email	@bob_tweets	Team meeting	-0.150205611
## 408	2023-08-05	Email	@bob_tweets	Hello everyone!	0.616259416
## 409	2023-08-10	Email	@frank_chat	Great work!	0.533465849
## 410	2023-08-02	Twitter	dave@example	Great work!	0.516138048
## 411	2023-08-18	Twitter	@erin_tweets	Need assistance	0.116931847
## 412	2023-08-15	Slack	carol_slack	Need assistance	0.674294885
## 413	2023-08-06	Email	@frank_chat	Exciting news!	0.696377364
## 414	2023-08-20	Email	dave@example	Team meeting	0.985037738
## 415	2023-08-10	Slack	@erin_tweets	Need assistance	-0.904224418
## 416	2023-08-11	Email	alice@example	Exciting news!	-0.901918261
## 417	2023-08-14	Slack	@erin_tweets	Fun weekend!	-0.259928443
## 418	2023-08-20	Slack	carol_slack	Exciting news!	0.221250645
## 419	2023-08-13	Twitter	alice@example	Team meeting	0.892404643
## 420	2023-08-06	Slack	alice@example	Great work!	-0.545365768
## 421	2023-08-12	Email	@frank_chat	Need assistance	-0.104900640
## 422	2023-08-20	Twitter	dave@example	Fun weekend!	-0.818538250
## 423	2023-08-20	Twitter	@erin_tweets	Great work!	-0.349391197
## 424	2023-08-02	Email	dave@example	Exciting news!	-0.212464974
## 425	2023-08-19	Twitter	carol_slack	Team meeting	0.317846402
## 426	2023-08-09	Slack	alice@example	Fun weekend!	0.690391378
## 427	2023-08-11	Email	@bob_tweets	Hello everyone!	0.576369455
## 428	2023-08-14	Twitter	@erin_tweets	Need assistance	-0.543064435
## 429	2023-08-09	Slack	dave@example	Fun weekend!	0.229193896
## 430	2023-08-16	Twitter	dave@example	Fun weekend!	-0.286604216
## 431	2023-08-05	Twitter	@bob_tweets	Hello everyone!	-0.038818533
## 432	2023-08-01	Twitter	@frank_chat	Great work!	0.473425272
## 433	2023-08-10	Twitter	@bob_tweets	Fun weekend!	0.346377916
## 434	2023-08-04	Slack	@frank_chat	Need assistance	0.933738099
## 435	2023-08-20	Email	carol_slack	Great work!	0.680826971
## 436	2023-08-20	Slack	carol_slack	Great work!	-0.574539005
## 437	2023-08-10	Slack	dave@example	Exciting news!	-0.762122771
## 438	2023-08-12	Email	dave@example	Great work!	0.480317921
## 439	2023-08-09	Email	@erin_tweets	Team meeting	-0.956999032
## 440	2023-08-07	Slack	alice@example	Fun weekend!	0.397376804
## 441	2023-08-04	Email	@frank_chat	Great work!	0.263225980
## 442	2023-08-06	Email	@frank_chat	Fun weekend!	0.791513952
## 443	2023-08-08	Email	@frank_chat	Exciting news!	-0.050068120
## 444	2023-08-07	Twitter	carol_slack	Hello everyone!	-0.355751095
## 445	2023-08-09	Twitter	alice@example	Hello everyone!	0.184942272
## 446	2023-08-14	Twitter	@erin_tweets	Great work!	0.468599080

## 447	2023-08-14	Twitter	alice@example	Exciting news!	0.157755047
## 448	2023-08-10	Email	alice@example	Great work!	0.693037350
## 449	2023-08-16	Email	alice@example	Great work!	0.360768258
## 450	2023-08-10	Twitter	@frank_chat	Great work!	0.214199054
## 451	2023-08-08	Email	dave@example	Need assistance	-0.998774239
## 452	2023-08-10	Email	carol_slack	Team meeting	-0.970338997
## 453	2023-08-08	Twitter	carol_slack	Fun weekend!	0.232626481
## 454	2023-08-11	Slack	@bob_tweets	Exciting news!	-0.033773244
## 455	2023-08-20	Twitter	@frank_chat	Team meeting	-0.476500273
## 456	2023-08-17	Email	@erin_tweets	Team meeting	0.863822790
## 457	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.719712700
## 458	2023-08-13	Twitter	@bob_tweets	Need assistance	0.408644735
## 459	2023-08-11	Twitter	carol_slack	Great work!	0.910158344
## 460	2023-08-06	Twitter	dave@example	Need assistance	-0.064178423
## 461	2023-08-03	Twitter	alice@example	Hello everyone!	-0.567197050
## 462	2023-08-15	Slack	dave@example	Hello everyone!	-0.510870771
## 463	2023-08-13	Email	@erin_tweets	Hello everyone!	-0.939573104
## 464	2023-08-16	Email	dave@example	Need assistance	-0.014521594
## 465	2023-08-16	Email	@frank_chat	Team meeting	-0.287118956
## 466	2023-08-05	Email	carol_slack	Need assistance	0.558824511
## 467	2023-08-16	Email	@frank_chat	Need assistance	0.343977793
## 468	2023-08-15	Email	dave@example	Hello everyone!	0.282330315
## 469	2023-08-06	Twitter	@bob_tweets	Hello everyone!	0.116596443
## 470	2023-08-13	Twitter	@frank_chat	Exciting news!	0.368110256
## 471	2023-08-10	Twitter	alice@example	Great work!	0.266619468
## 472	2023-08-18	Twitter	@bob_tweets	Exciting news!	0.290797958
## 473	2023-08-20	Twitter	@erin_tweets	Team meeting	0.341763970
## 474	2023-08-13	Twitter	@bob_tweets	Need assistance	-0.883181106
## 475	2023-08-20	Slack	alice@example	Hello everyone!	-0.863882122
## 476	2023-08-04	Twitter	dave@example	Fun weekend!	0.463157478
## 477	2023-08-05	Email	@frank_chat	Exciting news!	0.567230823
## 478	2023-08-17	Twitter	alice@example	Great work!	-0.641657173
## 479	2023-08-08	Email	@erin_tweets	Exciting news!	-0.847681918
## 480	2023-08-05	Email	@frank_chat	Team meeting	-0.094959955
## 481	2023-08-08	Twitter	@bob_tweets	Team meeting	-0.024243061
## 482	2023-08-18	Email	@erin_tweets	Need assistance	0.171319252
## 483	2023-08-17	Slack	carol_slack	Need assistance	-0.750471560
## 484	2023-08-07	Email	dave@example	Hello everyone!	-0.526591262
## 485	2023-08-16	Twitter	@erin_tweets	Hello everyone!	0.806540163
## 486	2023-08-05	Email	carol_slack	Need assistance	0.300882405
## 487	2023-08-03	Twitter	@erin_tweets	Fun weekend!	-0.345988781
## 488	2023-08-02	Email	alice@example	Great work!	-0.784876938
## 489	2023-08-13	Slack	carol_slack	Great work!	-0.947211589
## 490	2023-08-09	Email	@erin_tweets	Fun weekend!	0.513564137
## 491	2023-08-04	Email	@bob_tweets	Team meeting	-0.235653992
## 492	2023-08-04	Email	alice@example	Hello everyone!	0.161035733
## 493	2023-08-16	Email	@frank_chat	Fun weekend!	0.402509230
## 494	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.426096413
## 495	2023-08-04	Twitter	@bob_tweets	Hello everyone!	-0.774547359
## 496	2023-08-16	Twitter	@erin_tweets	Team meeting	-0.674190784
## 497	2023-08-11	Slack	@frank_chat	Need assistance	0.235724795
## 498	2023-08-15	Slack	@frank_chat	Hello everyone!	0.058449768
## 499	2023-08-20	Email	@frank_chat	Team meeting	-0.993759494
## 500	2023-08-06	Slack	dave@example	Team meeting	-0.536957865
## 501	2023-08-05	Twitter	dave@example	Team meeting	0.779166287
## 502	2023-08-07	Slack	alice@example	Team meeting	0.569526526

## 503	2023-08-06	Email	@erin_tweets	Need assistance	0.664381829
## 504	2023-08-07	Slack	dave@example	Need assistance	-0.718395420
## 505	2023-08-09	Twitter	@bob_tweets	Team meeting	0.526457346
## 506	2023-08-06	Email	@bob_tweets	Great work!	-0.400677142
## 507	2023-08-17	Twitter	@frank_chat	Team meeting	-0.232014328
## 508	2023-08-15	Twitter	alice@example	Exciting news!	0.153143482
## 509	2023-08-01	Twitter	@bob_tweets	Hello everyone!	-0.918783627
## 510	2023-08-09	Email	@bob_tweets	Fun weekend!	-0.375794835
## 511	2023-08-05	Twitter	dave@example	Fun weekend!	-0.021554315
## 512	2023-08-10	Slack	@erin_tweets	Need assistance	0.086844633
## 513	2023-08-16	Slack	dave@example	Need assistance	0.484403751
## 514	2023-08-07	Email	@bob_tweets	Team meeting	-0.423585835
## 515	2023-08-07	Email	dave@example	Exciting news!	-0.184577833
## 516	2023-08-18	Email	dave@example	Hello everyone!	0.978220029
## 517	2023-08-17	Twitter	@frank_chat	Fun weekend!	-0.624432764
## 518	2023-08-15	Twitter	carol_slack	Team meeting	0.498292263
## 519	2023-08-13	Twitter	carol_slack	Exciting news!	0.771407587
## 520	2023-08-12	Email	dave@example	Fun weekend!	0.650773503
## 521	2023-08-19	Twitter	alice@example	Need assistance	0.143810244
## 522	2023-08-19	Twitter	@erin_tweets	Team meeting	0.945942261
## 523	2023-08-12	Slack	dave@example	Exciting news!	0.563268560
## 524	2023-08-17	Email	dave@example	Fun weekend!	-0.173903828
## 525	2023-08-07	Email	@frank_chat	Team meeting	0.192018484
## 526	2023-08-16	Email	carol_slack	Hello everyone!	-0.029610693
## 527	2023-08-08	Email	alice@example	Exciting news!	0.723251828
## 528	2023-08-07	Email	@bob_tweets	Exciting news!	-0.616928389
## 529	2023-08-01	Twitter	@erin_tweets	Hello everyone!	0.524320859
## 530	2023-08-07	Email	dave@example	Great work!	-0.359934055
## 531	2023-08-11	Slack	@frank_chat	Great work!	0.431652104
## 532	2023-08-04	Twitter	carol_slack	Exciting news!	-0.615862965
## 533	2023-08-11	Email	@erin_tweets	Great work!	-0.049498704
## 534	2023-08-19	Twitter	alice@example	Fun weekend!	-0.111042333
## 535	2023-08-03	Email	carol_slack	Need assistance	0.247236022
## 536	2023-08-09	Email	@erin_tweets	Fun weekend!	0.237909144
## 537	2023-08-19	Email	@frank_chat	Team meeting	-0.943049938
## 538	2023-08-08	Email	@frank_chat	Great work!	0.362224979
## 539	2023-08-14	Slack	dave@example	Great work!	0.538406652
## 540	2023-08-19	Email	dave@example	Great work!	-0.336303487
## 541	2023-08-12	Slack	alice@example	Need assistance	0.454688824
## 542	2023-08-11	Slack	@frank_chat	Team meeting	-0.642315470
## 543	2023-08-14	Twitter	@bob_tweets	Exciting news!	0.754322437
## 544	2023-08-10	Slack	alice@example	Need assistance	-0.236316590
## 545	2023-08-19	Email	@erin_tweets	Fun weekend!	0.149510738
## 546	2023-08-09	Twitter	alice@example	Hello everyone!	0.762754925
## 547	2023-08-14	Twitter	@bob_tweets	Hello everyone!	0.250149151
## 548	2023-08-08	Email	@bob_tweets	Need assistance	-0.249764988
## 549	2023-08-04	Slack	@bob_tweets	Hello everyone!	-0.161284721
## 550	2023-08-05	Twitter	alice@example	Team meeting	0.082249742
## 551	2023-08-13	Twitter	@erin_tweets	Great work!	-0.956337988
## 552	2023-08-15	Email	@frank_chat	Great work!	0.120376800
## 553	2023-08-08	Twitter	@frank_chat	Fun weekend!	-0.673607849
## 554	2023-08-15	Slack	@erin_tweets	Team meeting	0.457860831
## 555	2023-08-08	Email	@erin_tweets	Need assistance	-0.775436828
## 556	2023-08-10	Slack	dave@example	Exciting news!	0.532747218
## 557	2023-08-18	Slack	@frank_chat	Team meeting	-0.134102609
## 558	2023-08-20	Twitter	alice@example	Fun weekend!	-0.436848105

## 559	2023-08-18	Email	alice@example	Need assistance	0.275121063
## 560	2023-08-12	Email	@erin_tweets	Need assistance	0.866607873
## 561	2023-08-10	Slack	@bob_tweets	Exciting news!	0.027252671
## 562	2023-08-07	Slack	dave@example	Exciting news!	-0.823877914
## 563	2023-08-19	Twitter	alice@example	Team meeting	-0.299451457
## 564	2023-08-20	Twitter	dave@example	Exciting news!	-0.542942689
## 565	2023-08-04	Slack	dave@example	Fun weekend!	0.796501584
## 566	2023-08-20	Slack	@bob_tweets	Team meeting	-0.118006961
## 567	2023-08-04	Email	@erin_tweets	Need assistance	-0.070094255
## 568	2023-08-18	Twitter	@bob_tweets	Fun weekend!	0.590919483
## 569	2023-08-01	Twitter	dave@example	Hello everyone!	0.530999278
## 570	2023-08-17	Twitter	alice@example	Hello everyone!	0.582868762
## 571	2023-08-12	Slack	carol_slack	Need assistance	-0.919222645
## 572	2023-08-18	Twitter	@frank_chat	Team meeting	0.818109252
## 573	2023-08-10	Email	@bob_tweets	Exciting news!	0.664575256
## 574	2023-08-18	Email	dave@example	Exciting news!	-0.768564025
## 575	2023-08-20	Slack	carol_slack	Great work!	-0.595158034
## 576	2023-08-06	Slack	alice@example	Need assistance	0.037042340
## 577	2023-08-14	Twitter	dave@example	Fun weekend!	-0.064443091
## 578	2023-08-13	Email	@erin_tweets	Fun weekend!	0.496487776
## 579	2023-08-14	Twitter	@frank_chat	Team meeting	0.499737595
## 580	2023-08-17	Twitter	alice@example	Hello everyone!	-0.605858998
## 581	2023-08-03	Email	@frank_chat	Hello everyone!	0.488557915
## 582	2023-08-07	Twitter	@frank_chat	Great work!	-0.823533585
## 583	2023-08-15	Twitter	@frank_chat	Hello everyone!	0.384222084
## 584	2023-08-15	Email	alice@example	Team meeting	0.176413531
## 585	2023-08-10	Email	@frank_chat	Hello everyone!	0.051583528
## 586	2023-08-02	Slack	alice@example	Fun weekend!	-0.485003887
## 587	2023-08-01	Slack	@erin_tweets	Team meeting	0.031597136
## 588	2023-08-15	Email	@frank_chat	Need assistance	-0.438784983
## 589	2023-08-09	Email	@bob_tweets	Hello everyone!	0.703965933
## 590	2023-08-16	Slack	dave@example	Fun weekend!	0.438361928
## 591	2023-08-14	Email	@bob_tweets	Hello everyone!	0.498191035
## 592	2023-08-04	Twitter	dave@example	Fun weekend!	-0.495438306
## 593	2023-08-20	Slack	@frank_chat	Great work!	0.606102686
## 594	2023-08-07	Email	@frank_chat	Hello everyone!	-0.143556185
## 595	2023-08-02	Twitter	carol_slack	Hello everyone!	0.450987421
## 596	2023-08-05	Slack	carol_slack	Great work!	0.470731148
## 597	2023-08-07	Email	dave@example	Fun weekend!	-0.735883705
## 598	2023-08-15	Slack	@frank_chat	Great work!	0.960373470
## 599	2023-08-19	Email	@bob_tweets	Team meeting	0.855612874
## 600	2023-08-02	Slack	@bob_tweets	Exciting news!	0.365244868
## 601	2023-08-01	Slack	@bob_tweets	Exciting news!	-0.024743940
## 602	2023-08-01	Email	@frank_chat	Fun weekend!	-0.797102704
## 603	2023-08-07	Twitter	alice@example	Team meeting	-0.365139902
## 604	2023-08-15	Email	alice@example	Need assistance	-0.264464825
## 605	2023-08-08	Slack	@erin_tweets	Need assistance	-0.461871512
## 606	2023-08-18	Twitter	carol_slack	Need assistance	-0.107154121
## 607	2023-08-17	Email	@frank_chat	Team meeting	-0.229243480
## 608	2023-08-17	Twitter	dave@example	Need assistance	-0.035525655
## 609	2023-08-10	Email	@bob_tweets	Team meeting	0.253805156
## 610	2023-08-15	Twitter	@frank_chat	Need assistance	0.344264537
## 611	2023-08-12	Twitter	@bob_tweets	Great work!	-0.405934577
## 612	2023-08-13	Twitter	@erin_tweets	Great work!	0.515643027
## 613	2023-08-17	Twitter	@erin_tweets	Hello everyone!	-0.606922586
## 614	2023-08-02	Twitter	carol_slack	Hello everyone!	0.173851238

## 615	2023-08-10	Slack	@frank_chat	Exciting news!	0.769946682
## 616	2023-08-06	Email	@erin_tweets	Hello everyone!	-0.172054263
## 617	2023-08-04	Email	carol_slack	Need assistance	0.188933107
## 618	2023-08-06	Email	dave@example	Hello everyone!	-0.987261285
## 619	2023-08-03	Twitter	alice@example	Need assistance	0.747163485
## 620	2023-08-14	Twitter	@frank_chat	Fun weekend!	-0.672147054
## 621	2023-08-09	Twitter	alice@example	Exciting news!	-0.792284821
## 622	2023-08-12	Email	alice@example	Exciting news!	0.063475272
## 623	2023-08-13	Twitter	alice@example	Great work!	-0.026141260
## 624	2023-08-05	Email	@erin_tweets	Great work!	0.830162693
## 625	2023-08-15	Email	carol_slack	Fun weekend!	-0.141636565
## 626	2023-08-12	Twitter	@erin_tweets	Fun weekend!	0.038330505
## 627	2023-08-04	Twitter	alice@example	Fun weekend!	-0.693275109
## 628	2023-08-05	Slack	@bob_tweets	Need assistance	0.291605130
## 629	2023-08-19	Twitter	dave@example	Need assistance	-0.115035673
## 630	2023-08-02	Twitter	carol_slack	Need assistance	0.215954025
## 631	2023-08-08	Email	alice@example	Great work!	-0.068923920
## 632	2023-08-10	Twitter	@frank_chat	Team meeting	-0.289186294
## 633	2023-08-10	Twitter	carol_slack	Exciting news!	0.030849482
## 634	2023-08-15	Twitter	dave@example	Fun weekend!	0.345517721
## 635	2023-08-14	Email	@bob_tweets	Need assistance	0.330107941
## 636	2023-08-13	Email	alice@example	Hello everyone!	0.042741961
## 637	2023-08-06	Slack	carol_slack	Exciting news!	-0.633368273
## 638	2023-08-19	Slack	@erin_tweets	Great work!	-0.725357866
## 639	2023-08-03	Slack	@erin_tweets	Team meeting	-0.812502595
## 640	2023-08-08	Twitter	@bob_tweets	Great work!	0.564973874
## 641	2023-08-13	Twitter	dave@example	Fun weekend!	-0.042934414
## 642	2023-08-17	Slack	carol_slack	Fun weekend!	0.169502832
## 643	2023-08-12	Email	alice@example	Great work!	0.383860287
## 644	2023-08-06	Slack	@bob_tweets	Fun weekend!	-0.895003283
## 645	2023-08-06	Twitter	dave@example	Fun weekend!	0.005671109
## 646	2023-08-08	Email	@frank_chat	Need assistance	-0.992002849
## 647	2023-08-06	Email	@erin_tweets	Hello everyone!	0.905330024
## 648	2023-08-16	Email	@frank_chat	Fun weekend!	-0.552409418
## 649	2023-08-07	Slack	@erin_tweets	Team meeting	-0.780283807
## 650	2023-08-14	Email	@erin_tweets	Fun weekend!	-0.835450725
## 651	2023-08-08	Twitter	alice@example	Great work!	-0.236779108
## 652	2023-08-09	Twitter	dave@example	Great work!	-0.495721815
## 653	2023-08-01	Twitter	carol_slack	Great work!	0.406890230
## 654	2023-08-08	Twitter	alice@example	Team meeting	0.870818266
## 655	2023-08-14	Email	dave@example	Fun weekend!	0.304697359
## 656	2023-08-03	Slack	@frank_chat	Exciting news!	0.591279314
## 657	2023-08-15	Slack	@frank_chat	Fun weekend!	0.816346027
## 658	2023-08-14	Email	@erin_tweets	Hello everyone!	-0.446434771
## 659	2023-08-05	Email	alice@example	Fun weekend!	0.347548683
## 660	2023-08-18	Slack	@bob_tweets	Fun weekend!	0.567603516
## 661	2023-08-19	Twitter	@frank_chat	Exciting news!	0.388266448
## 662	2023-08-15	Twitter	@bob_tweets	Team meeting	-0.144443278
## 663	2023-08-01	Email	@bob_tweets	Hello everyone!	0.902623749
## 664	2023-08-13	Twitter	@frank_chat	Team meeting	-0.877922161
## 665	2023-08-06	Slack	alice@example	Hello everyone!	0.710270591
## 666	2023-08-09	Email	@bob_tweets	Hello everyone!	-0.725457437
## 667	2023-08-07	Email	@bob_tweets	Team meeting	-0.232356975
## 668	2023-08-05	Twitter	dave@example	Great work!	0.245927144
## 669	2023-08-02	Twitter	@frank_chat	Need assistance	-0.115179492
## 670	2023-08-08	Slack	alice@example	Hello everyone!	-0.812013249

## 671	2023-08-02	Slack	carol_slack	Hello everyone!	0.805289558
## 672	2023-08-10	Email	@frank_chat	Team meeting	-0.320194449
## 673	2023-08-14	Slack	@bob_tweets	Hello everyone!	0.450289166
## 674	2023-08-18	Email	carol_slack	Exciting news!	-0.546088908
## 675	2023-08-14	Twitter	@bob_tweets	Great work!	-0.018533767
## 676	2023-08-03	Slack	carol_slack	Great work!	-0.777630202
## 677	2023-08-04	Email	@bob_tweets	Fun weekend!	0.419715998
## 678	2023-08-11	Twitter	@erin_tweets	Team meeting	-0.351081788
## 679	2023-08-04	Twitter	@erin_tweets	Hello everyone!	-0.217646003
## 680	2023-08-10	Slack	alice@example	Team meeting	0.425960287
## 681	2023-08-11	Slack	@frank_chat	Team meeting	-0.203160496
## 682	2023-08-13	Slack	alice@example	Need assistance	-0.100954488
## 683	2023-08-13	Slack	carol_slack	Need assistance	0.886342321
## 684	2023-08-18	Email	carol_slack	Need assistance	0.121493359
## 685	2023-08-09	Slack	carol_slack	Hello everyone!	0.902016178
## 686	2023-08-02	Twitter	alice@example	Need assistance	0.157653404
## 687	2023-08-13	Slack	alice@example	Team meeting	-0.493501368
## 688	2023-08-09	Email	dave@example	Team meeting	0.746085706
## 689	2023-08-12	Twitter	alice@example	Exciting news!	-0.487793705
## 690	2023-08-06	Email	carol_slack	Hello everyone!	0.076276061
## 691	2023-08-08	Twitter	alice@example	Fun weekend!	-0.329790550
## 692	2023-08-10	Twitter	@frank_chat	Exciting news!	-0.149807401
## 693	2023-08-15	Twitter	@erin_tweets	Need assistance	0.599532404
## 694	2023-08-03	Email	@frank_chat	Great work!	-0.022698464
## 695	2023-08-05	Email	@erin_tweets	Exciting news!	-0.283369262
## 696	2023-08-16	Slack	@frank_chat	Team meeting	-0.933677876
## 697	2023-08-16	Slack	@frank_chat	Hello everyone!	-0.878399170
## 698	2023-08-11	Slack	@bob_tweets	Great work!	0.041871845
## 699	2023-08-07	Slack	@bob_tweets	Great work!	-0.311243319
## 700	2023-08-12	Email	@frank_chat	Exciting news!	0.777389107
## 701	2023-08-01	Slack	@frank_chat	Hello everyone!	-0.572465386
## 702	2023-08-09	Email	@frank_chat	Fun weekend!	-0.372473280
## 703	2023-08-12	Twitter	dave@example	Need assistance	-0.713639749
## 704	2023-08-12	Slack	carol_slack	Great work!	0.874556832
## 705	2023-08-17	Slack	@frank_chat	Great work!	-0.700269639
## 706	2023-08-13	Email	@frank_chat	Need assistance	0.935812009
## 707	2023-08-08	Slack	carol_slack	Exciting news!	0.055117640
## 708	2023-08-10	Slack	@bob_tweets	Fun weekend!	0.957983019
## 709	2023-08-09	Slack	alice@example	Exciting news!	-0.539138246
## 710	2023-08-05	Twitter	alice@example	Exciting news!	0.722319741
## 711	2023-08-15	Twitter	@erin_tweets	Hello everyone!	0.768580468
## 712	2023-08-14	Slack	@frank_chat	Exciting news!	-0.054910814
## 713	2023-08-05	Twitter	dave@example	Great work!	0.544805384
## 714	2023-08-02	Twitter	carol_slack	Exciting news!	-0.693217811
## 715	2023-08-18	Slack	@bob_tweets	Hello everyone!	-0.164491392
## 716	2023-08-08	Email	@erin_tweets	Fun weekend!	0.378708432
## 717	2023-08-12	Email	@frank_chat	Need assistance	0.544408341
## 718	2023-08-09	Twitter	@bob_tweets	Exciting news!	0.605349668
## 719	2023-08-16	Twitter	alice@example	Exciting news!	0.696509592
## 720	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.694118693
## 721	2023-08-08	Email	@erin_tweets	Fun weekend!	0.734125260
## 722	2023-08-03	Email	@frank_chat	Great work!	-0.222633559
## 723	2023-08-14	Email	alice@example	Great work!	-0.111933967
## 724	2023-08-06	Email	@bob_tweets	Great work!	-0.417041691
## 725	2023-08-12	Email	dave@example	Great work!	-0.841218561
## 726	2023-08-03	Slack	@erin_tweets	Need assistance	-0.173975688



## 727	2023-08-12	Email	@frank_chat	Fun weekend!	-0.102208237
## 728	2023-08-15	Email	dave@example	Need assistance	0.773382573
## 729	2023-08-14	Slack	@erin_tweets	Hello everyone!	0.605556316
## 730	2023-08-20	Email	alice@example	Fun weekend!	0.851679420
## 731	2023-08-07	Email	@bob_tweets	Exciting news!	0.244900235
## 732	2023-08-10	Twitter	dave@example	Great work!	-0.505026447
## 733	2023-08-13	Slack	@erin_tweets	Need assistance	-0.544543609
## 734	2023-08-12	Slack	@bob_tweets	Fun weekend!	0.990166281
## 735	2023-08-20	Email	@frank_chat	Team meeting	0.560076173
## 736	2023-08-09	Slack	carol_slack	Hello everyone!	-0.289897254
## 737	2023-08-03	Email	alice@example	Hello everyone!	0.713812393
## 738	2023-08-08	Twitter	@erin_tweets	Fun weekend!	0.191519982
## 739	2023-08-13	Slack	carol_slack	Great work!	0.460303653
## 740	2023-08-10	Slack	@erin_tweets	Need assistance	0.037588875
## 741	2023-08-05	Twitter	carol_slack	Hello everyone!	0.130742100
## 742	2023-08-15	Email	@bob_tweets	Team meeting	-0.801572199
## 743	2023-08-14	Slack	@erin_tweets	Exciting news!	-0.736287751
## 744	2023-08-18	Slack	@bob_tweets	Team meeting	0.403409261
## 745	2023-08-07	Slack	alice@example	Great work!	0.580541194
## 746	2023-08-13	Email	dave@example	Great work!	0.550955762
## 747	2023-08-11	Twitter	@frank_chat	Team meeting	-0.303564250
## 748	2023-08-14	Email	carol_slack	Exciting news!	0.596924395
## 749	2023-08-02	Twitter	@bob_tweets	Need assistance	-0.281915764
## 750	2023-08-19	Twitter	carol_slack	Team meeting	0.578111817
## 751	2023-08-14	Twitter	dave@example	Need assistance	-0.273263505
## 752	2023-08-13	Email	@frank_chat	Great work!	-0.693289580
## 753	2023-08-18	Slack	@erin_tweets	Hello everyone!	-0.395961934
## 754	2023-08-15	Twitter	@erin_tweets	Need assistance	0.787741330
## 755	2023-08-01	Twitter	@frank_chat	Need assistance	-0.970480603
## 756	2023-08-03	Slack	alice@example	Fun weekend!	0.542070733
## 757	2023-08-07	Slack	@bob_tweets	Need assistance	0.251102221
## 758	2023-08-01	Slack	@frank_chat	Team meeting	-0.113114946
## 759	2023-08-08	Email	alice@example	Hello everyone!	-0.666331347
## 760	2023-08-01	Email	@bob_tweets	Team meeting	0.783531986
## 761	2023-08-05	Slack	dave@example	Great work!	0.018169560
## 762	2023-08-02	Email	@frank_chat	Fun weekend!	0.129630754
## 763	2023-08-08	Slack	@erin_tweets	Team meeting	0.849549761
## 764	2023-08-11	Twitter	carol_slack	Great work!	0.782265475
## 765	2023-08-12	Email	alice@example	Exciting news!	-0.995861550
## 766	2023-08-11	Slack	@bob_tweets	Great work!	-0.549234209
## 767	2023-08-03	Email	@frank_chat	Fun weekend!	0.992682932
## 768	2023-08-08	Twitter	carol_slack	Exciting news!	0.614791796
## 769	2023-08-01	Twitter	@erin_tweets	Hello everyone!	-0.325806037
## 770	2023-08-10	Slack	@bob_tweets	Exciting news!	-0.873230109
## 771	2023-08-12	Email	alice@example	Team meeting	0.255163795
## 772	2023-08-16	Email	carol_slack	Hello everyone!	-0.851052538
## 773	2023-08-10	Twitter	@erin_tweets	Great work!	0.181200765
## 774	2023-08-09	Email	@frank_chat	Hello everyone!	-0.633588556
## 775	2023-08-01	Twitter	@frank_chat	Great work!	0.159243134
## 776	2023-08-15	Slack	dave@example	Great work!	-0.481857921
## 777	2023-08-19	Twitter	alice@example	Hello everyone!	-0.378329881
## 778	2023-08-04	Twitter	@frank_chat	Exciting news!	0.795437461
## 779	2023-08-16	Twitter	@bob_tweets	Great work!	-0.674055766
## 780	2023-08-07	Slack	dave@example	Hello everyone!	0.747580624
## 781	2023-08-14	Twitter	carol_slack	Need assistance	0.739025190
## 782	2023-08-15	Slack	@frank_chat	Hello everyone!	-0.508614742

## 783	2023-08-14	Twitter	@bob_tweets	Exciting news!	0.671785708
## 784	2023-08-10	Slack	alice@example	Need assistance	-0.917325706
## 785	2023-08-09	Twitter	@erin_tweets	Need assistance	-0.600080754
## 786	2023-08-11	Email	@bob_tweets	Great work!	-0.539260621
## 787	2023-08-02	Slack	carol_slack	Great work!	0.066785066
## 788	2023-08-15	Twitter	carol_slack	Team meeting	-0.074092148
## 789	2023-08-06	Twitter	@bob_tweets	Exciting news!	0.979591473
## 790	2023-08-07	Slack	@bob_tweets	Need assistance	-0.846264025
## 791	2023-08-15	Slack	@erin_tweets	Hello everyone!	-0.562214842
## 792	2023-08-15	Email	@frank_chat	Fun weekend!	0.535877908
## 793	2023-08-13	Slack	dave@example	Hello everyone!	-0.945477226
## 794	2023-08-12	Twitter	@erin_tweets	Need assistance	-0.329706852
## 795	2023-08-19	Twitter	@bob_tweets	Hello everyone!	0.420571170
## 796	2023-08-19	Twitter	@frank_chat	Exciting news!	0.221380584
## 797	2023-08-06	Twitter	carol_slack	Fun weekend!	0.394200163
## 798	2023-08-11	Slack	carol_slack	Team meeting	0.921573296
## 799	2023-08-12	Slack	carol_slack	Team meeting	0.504667453
## 800	2023-08-13	Slack	alice@example	Team meeting	-0.927027794
## 801	2023-08-14	Email	@bob_tweets	Team meeting	-0.996662613
## 802	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.525517232
## 803	2023-08-17	Slack	alice@example	Great work!	-0.853163924
## 804	2023-08-09	Slack	carol_slack	Hello everyone!	0.346090994
## 805	2023-08-06	Slack	@erin_tweets	Exciting news!	0.063273371
## 806	2023-08-19	Slack	@frank_chat	Team meeting	-0.887928675
## 807	2023-08-17	Twitter	@frank_chat	Team meeting	-0.608078998
## 808	2023-08-10	Email	@erin_tweets	Hello everyone!	0.063933458
## 809	2023-08-12	Twitter	@bob_tweets	Fun weekend!	0.226440192
## 810	2023-08-18	Slack	alice@example	Great work!	-0.114574431
## 811	2023-08-17	Twitter	carol_slack	Need assistance	-0.065970336
## 812	2023-08-10	Slack	@frank_chat	Hello everyone!	0.672468295
## 813	2023-08-12	Email	alice@example	Exciting news!	-0.616592484
## 814	2023-08-04	Slack	@frank_chat	Need assistance	0.165087673
## 815	2023-08-13	Email	@bob_tweets	Exciting news!	0.553149406
## 816	2023-08-04	Email	@bob_tweets	Fun weekend!	-0.953222217
## 817	2023-08-09	Email	alice@example	Fun weekend!	0.893210486
## 818	2023-08-11	Twitter	alice@example	Hello everyone!	-0.120084892
## 819	2023-08-08	Slack	@erin_tweets	Hello everyone!	-0.568787924
## 820	2023-08-11	Email	alice@example	Team meeting	-0.641849058
## 821	2023-08-18	Twitter	alice@example	Fun weekend!	0.977650215
## 822	2023-08-16	Slack	@frank_chat	Fun weekend!	0.269629325
## 823	2023-08-06	Slack	carol_slack	Need assistance	0.572155187
## 824	2023-08-04	Slack	@frank_chat	Fun weekend!	-0.530567507
## 825	2023-08-14	Twitter	dave@example	Fun weekend!	-0.998980226
## 826	2023-08-09	Twitter	@frank_chat	Hello everyone!	0.649366590
## 827	2023-08-12	Email	carol_slack	Team meeting	-0.492082868
## 828	2023-08-03	Slack	alice@example	Need assistance	0.135939530
## 829	2023-08-07	Slack	dave@example	Hello everyone!	0.593321668
## 830	2023-08-18	Twitter	dave@example	Great work!	-0.160749977
## 831	2023-08-20	Slack	carol_slack	Fun weekend!	0.231915887
## 832	2023-08-03	Email	alice@example	Fun weekend!	0.312383833
## 833	2023-08-14	Slack	@bob_tweets	Team meeting	-0.709024122
## 834	2023-08-18	Twitter	@bob_tweets	Fun weekend!	0.866654206
## 835	2023-08-03	Email	alice@example	Hello everyone!	-0.440484574
## 836	2023-08-12	Twitter	carol_slack	Team meeting	0.704733795
## 837	2023-08-10	Twitter	carol_slack	Great work!	0.268422757
## 838	2023-08-18	Slack	@bob_tweets	Fun weekend!	-0.898072343

## 839	2023-08-19	Email	@frank_chat	Great work!	0.463513046
## 840	2023-08-03	Email	carol_slack	Need assistance	-0.161143415
## 841	2023-08-19	Email	alice@example	Hello everyone!	-0.040838550
## 842	2023-08-11	Slack	@frank_chat	Fun weekend!	0.312006338
## 843	2023-08-20	Slack	@bob_tweets	Hello everyone!	0.520647362
## 844	2023-08-05	Twitter	@bob_tweets	Exciting news!	-0.798021044
## 845	2023-08-14	Twitter	alice@example	Great work!	-0.652119522
## 846	2023-08-10	Email	@bob_tweets	Exciting news!	-0.286527871
## 847	2023-08-10	Twitter	@erin_tweets	Great work!	0.282790715
## 848	2023-08-07	Twitter	@erin_tweets	Great work!	-0.597466531
## 849	2023-08-03	Slack	@frank_chat	Hello everyone!	0.368215033
## 850	2023-08-08	Slack	@erin_tweets	Need assistance	0.593302410
## 851	2023-08-16	Slack	@erin_tweets	Exciting news!	-0.113282133
## 852	2023-08-12	Email	carol_slack	Need assistance	0.937844194
## 853	2023-08-10	Email	@frank_chat	Fun weekend!	-0.520876877
## 854	2023-08-19	Email	@erin_tweets	Great work!	0.570171806
## 855	2023-08-19	Email	dave@example	Team meeting	-0.528815492
## 856	2023-08-05	Email	@bob_tweets	Hello everyone!	0.725036937
## 857	2023-08-05	Twitter	carol_slack	Hello everyone!	-0.279889458
## 858	2023-08-12	Twitter	carol_slack	Fun weekend!	-0.455487390
## 859	2023-08-03	Twitter	@bob_tweets	Hello everyone!	0.401231622
## 860	2023-08-19	Twitter	@erin_tweets	Exciting news!	0.638825124
## 861	2023-08-05	Email	alice@example	Hello everyone!	-0.822144668
## 862	2023-08-07	Slack	@bob_tweets	Hello everyone!	-0.160779689
## 863	2023-08-14	Twitter	@bob_tweets	Fun weekend!	0.567614020
## 864	2023-08-11	Twitter	@erin_tweets	Need assistance	-0.102778860
## 865	2023-08-04	Twitter	@bob_tweets	Exciting news!	0.053784013
## 866	2023-08-07	Slack	@bob_tweets	Fun weekend!	-0.511013610
## 867	2023-08-10	Twitter	dave@example	Team meeting	-0.879799920
## 868	2023-08-06	Slack	@erin_tweets	Great work!	-0.387922954
## 869	2023-08-10	Slack	dave@example	Exciting news!	-0.750027833
## 870	2023-08-01	Slack	@bob_tweets	Need assistance	-0.614020258
## 871	2023-08-17	Email	@frank_chat	Exciting news!	-0.770805090
## 872	2023-08-15	Twitter	carol_slack	Hello everyone!	-0.638266036
## 873	2023-08-16	Twitter	dave@example	Team meeting	0.796688539
## 874	2023-08-13	Slack	carol_slack	Hello everyone!	-0.416070993
## 875	2023-08-03	Slack	@bob_tweets	Great work!	0.884830707
## 876	2023-08-14	Twitter	alice@example	Great work!	-0.232635738
## 877	2023-08-01	Twitter	@erin_tweets	Exciting news!	0.423581860
## 878	2023-08-05	Email	alice@example	Need assistance	0.694902051
## 879	2023-08-14	Slack	alice@example	Hello everyone!	-0.798660460
## 880	2023-08-07	Twitter	@bob_tweets	Great work!	-0.389785778
## 881	2023-08-12	Email	alice@example	Need assistance	0.120129855
## 882	2023-08-14	Slack	alice@example	Hello everyone!	-0.691606675
## 883	2023-08-07	Slack	@bob_tweets	Great work!	0.872962321
## 884	2023-08-05	Twitter	@erin_tweets	Fun weekend!	0.619198539
## 885	2023-08-01	Email	carol_slack	Great work!	0.605523043
## 886	2023-08-14	Email	dave@example	Hello everyone!	-0.359136123
## 887	2023-08-16	Email	@bob_tweets	Great work!	-0.351176404
## 888	2023-08-08	Twitter	dave@example	Need assistance	0.911442756
## 889	2023-08-13	Email	alice@example	Need assistance	0.596431601
## 890	2023-08-01	Twitter	carol_slack	Great work!	-0.311684015
## 891	2023-08-09	Email	@frank_chat	Fun weekend!	-0.789119672
## 892	2023-08-19	Slack	@frank_chat	Team meeting	-0.472906698
## 893	2023-08-19	Slack	dave@example	Team meeting	-0.789976987
## 894	2023-08-06	Slack	@bob_tweets	Need assistance	0.743181323

##	895	2023-08-01	Email	@frank_chat	Team meeting	-0.307752223
##	896	2023-08-01	Email	dave@example	Great work!	-0.948017055
##	897	2023-08-05	Email	@frank_chat	Team meeting	0.611721705
##	898	2023-08-06	Email	@erin_tweets	Hello everyone!	-0.318016798
##	899	2023-08-11	Slack	@erin_tweets	Team meeting	-0.893834382
##	900	2023-08-20	Email	carol_slack	Team meeting	0.082343857
##	901	2023-08-03	Slack	@erin_tweets	Need assistance	-0.600851388
##	902	2023-08-18	Slack	@bob_tweets	Team meeting	0.192284770
##	903	2023-08-10	Email	dave@example	Need assistance	0.834841503
##	904	2023-08-17	Twitter	@bob_tweets	Great work!	0.401612313
##	905	2023-08-08	Slack	@erin_tweets	Team meeting	0.068864945
##	906	2023-08-20	Twitter	@frank_chat	Exciting news!	0.307898677
##	907	2023-08-07	Twitter	@bob_tweets	Great work!	-0.548428072
##	908	2023-08-15	Slack	alice@example	Need assistance	0.899728119
##	909	2023-08-08	Email	carol_slack	Great work!	0.710615378
##	910	2023-08-14	Email	@erin_tweets	Fun weekend!	0.035476264
##	911	2023-08-01	Twitter	@frank_chat	Need assistance	-0.003094339
##	912	2023-08-10	Twitter	@frank_chat	Fun weekend!	-0.528116655
##	913	2023-08-20	Twitter	dave@example	Great work!	-0.124954135
##	914	2023-08-10	Slack	@frank_chat	Need assistance	0.626154714
##	915	2023-08-02	Slack	carol_slack	Fun weekend!	0.045978463
##	916	2023-08-09	Email	dave@example	Fun weekend!	0.698494015
##	917	2023-08-10	Slack	@frank_chat	Need assistance	-0.198273231
##	918	2023-08-13	Email	@bob_tweets	Hello everyone!	0.264306294
##	919	2023-08-05	Slack	@erin_tweets	Fun weekend!	-0.240693055
##	920	2023-08-20	Email	dave@example	Team meeting	-0.075425136
##	921	2023-08-15	Twitter	alice@example	Great work!	0.798867194
##	922	2023-08-18	Slack	alice@example	Fun weekend!	-0.088887415
##	923	2023-08-12	Twitter	@erin_tweets	Need assistance	0.298994374
##	924	2023-08-17	Twitter	alice@example	Exciting news!	0.968932204
##	925	2023-08-10	Slack	dave@example	Great work!	0.746216161
##	926	2023-08-10	Slack	alice@example	Team meeting	-0.939407335
##	927	2023-08-02	Slack	@bob_tweets	Great work!	-0.666475324
##	928	2023-08-10	Twitter	carol_slack	Need assistance	0.809991531
##	929	2023-08-09	Slack	dave@example	Need assistance	0.662048494
##	930	2023-08-18	Twitter	alice@example	Hello everyone!	-0.936083395
##	931	2023-08-01	Email	carol_slack	Great work!	-0.389590032
##	932	2023-08-11	Email	carol_slack	Fun weekend!	0.355941510
##	933	2023-08-03	Slack	@erin_tweets	Need assistance	0.896539724
##	934	2023-08-20	Email	alice@example	Hello everyone!	-0.555095884
##	935	2023-08-17	Email	dave@example	Team meeting	-0.047711935
##	936	2023-08-13	Twitter	dave@example	Exciting news!	-0.618614707
##	937	2023-08-13	Twitter	carol_slack	Fun weekend!	-0.412842807
##	938	2023-08-04	Email	@bob_tweets	Great work!	-0.251496902
##	939	2023-08-16	Email	@bob_tweets	Need assistance	-0.459899545
##	940	2023-08-17	Twitter	carol_slack	Need assistance	-0.101536875
##	941	2023-08-06	Twitter	carol_slack	Exciting news!	-0.329569053
##	942	2023-08-01	Slack	alice@example	Exciting news!	0.350437745
##	943	2023-08-08	Email	alice@example	Exciting news!	0.529548995
##	944	2023-08-13	Twitter	alice@example	Great work!	-0.806566573
##	945	2023-08-06	Slack	carol_slack	Exciting news!	-0.249575844
##	946	2023-08-08	Email	@erin_tweets	Hello everyone!	-0.064463819
##	947	2023-08-20	Slack	@erin_tweets	Hello everyone!	-0.357717138
##	948	2023-08-01	Twitter	@frank_chat	Need assistance	-0.696885624
##	949	2023-08-02	Slack	dave@example	Exciting news!	-0.662697271
##	950	2023-08-11	Email	dave@example	Need assistance	0.060486035

## 951	2023-08-11	Slack	@erin_tweets	Great work!	-0.704862314
## 952	2023-08-05	Slack	@frank_chat	Need assistance	-0.129298556
## 953	2023-08-07	Email	@bob_tweets	Fun weekend!	0.079245736
## 954	2023-08-20	Twitter	carol_slack	Hello everyone!	0.640248996
## 955	2023-08-01	Slack	dave@example	Need assistance	-0.988749139
## 956	2023-08-09	Email	@erin_tweets	Need assistance	0.953375103
## 957	2023-08-12	Slack	carol_slack	Need assistance	-0.044029484
## 958	2023-08-19	Slack	alice@example	Exciting news!	0.502961815
## 959	2023-08-17	Twitter	carol_slack	Exciting news!	-0.237763272
## 960	2023-08-11	Twitter	@frank_chat	Hello everyone!	0.807257727
## 961	2023-08-17	Twitter	@erin_tweets	Team meeting	-0.666378770
## 962	2023-08-06	Email	dave@example	Need assistance	0.492307736
## 963	2023-08-10	Email	@frank_chat	Exciting news!	-0.010767524
## 964	2023-08-18	Email	@bob_tweets	Need assistance	0.453627230
## 965	2023-08-07	Slack	carol_slack	Great work!	0.937586371
## 966	2023-08-09	Email	@frank_chat	Team meeting	-0.712716471
## 967	2023-08-18	Twitter	@bob_tweets	Great work!	-0.839583620
## 968	2023-08-06	Twitter	dave@example	Team meeting	0.165403601
## 969	2023-08-02	Slack	@erin_tweets	Great work!	-0.887057793
## 970	2023-08-17	Email	@frank_chat	Need assistance	-0.837423526
## 971	2023-08-08	Email	@frank_chat	Team meeting	0.778342899
## 972	2023-08-20	Twitter	@erin_tweets	Exciting news!	0.131818828
## 973	2023-08-02	Twitter	@erin_tweets	Need assistance	0.821079701
## 974	2023-08-08	Slack	@erin_tweets	Exciting news!	0.085280708
## 975	2023-08-01	Email	@erin_tweets	Fun weekend!	0.203746784
## 976	2023-08-12	Twitter	dave@example	Great work!	-0.462906254
## 977	2023-08-19	Twitter	alice@example	Hello everyone!	0.857508211
## 978	2023-08-12	Twitter	alice@example	Team meeting	0.582250814
## 979	2023-08-07	Slack	@bob_tweets	Great work!	0.170066014
## 980	2023-08-08	Twitter	alice@example	Great work!	0.552484959
## 981	2023-08-14	Email	@erin_tweets	Great work!	-0.129584252
## 982	2023-08-13	Email	@erin_tweets	Fun weekend!	0.418006041
## 983	2023-08-18	Email	alice@example	Team meeting	-0.377541550
## 984	2023-08-10	Twitter	dave@example	Fun weekend!	-0.363247766
## 985	2023-08-03	Slack	@bob_tweets	Need assistance	0.496275815
## 986	2023-08-08	Twitter	@bob_tweets	Need assistance	-0.716619523
## 987	2023-08-05	Email	@bob_tweets	Team meeting	0.243233590
## 988	2023-08-17	Slack	@erin_tweets	Hello everyone!	0.937329018
## 989	2023-08-03	Slack	dave@example	Great work!	0.675534202
## 990	2023-08-07	Slack	alice@example	Fun weekend!	0.844455994
## 991	2023-08-18	Slack	@frank_chat	Great work!	-0.071027102
## 992	2023-08-12	Slack	@erin_tweets	Hello everyone!	-0.360894154
## 993	2023-08-10	Email	@bob_tweets	Need assistance	-0.316063035
## 994	2023-08-14	Slack	dave@example	Exciting news!	-0.531753783
## 995	2023-08-04	Twitter	dave@example	Team meeting	-0.785379849
## 996	2023-08-05	Twitter	@frank_chat	Hello everyone!	0.599585856
## 997	2023-08-12	Twitter	alice@example	Exciting news!	0.874988238
## 998	2023-08-07	Slack	carol_slack	Exciting news!	0.186763622
## 999	2023-08-08	Slack	@erin_tweets	Fun weekend!	0.172925062
## 1000	2023-08-03	Email	@frank_chat	Hello everyone!	0.583445542
##	sentiment_label				
## 1	Positive				
## 2	Positive				
## 3	Negative				
## 4	Positive				
## 5	Positive				

## 6	Negative
## 7	Negative
## 8	Negative
## 9	Positive
## 10	Negative
## 11	Positive
## 12	Positive
## 13	Positive
## 14	Positive
## 15	Positive
## 16	Positive
## 17	Positive
## 18	Positive
## 19	Negative
## 20	Positive
## 21	Negative
## 22	Negative
## 23	Positive
## 24	Positive
## 25	Negative
## 26	Positive
## 27	Negative
## 28	Positive
## 29	Positive
## 30	Negative
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## 33	Positive
## 34	Negative
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## 38	Negative
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## 41	Positive
## 42	Negative
## 43	Negative
## 44	Negative
## 45	Negative
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## 47	Positive
## 48	Positive
## 49	Negative
## 50	Positive
## 51	Positive
## 52	Negative
## 53	Positive
## 54	Negative
## 55	Negative
## 56	Positive
## 57	Positive
## 58	Positive
## 59	Negative
## 60	Negative
## 61	Positive

## 62	Negative
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## 69	Positive
## 70	Positive
## 71	Negative
## 72	Negative
## 73	Negative
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## 84	Negative
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## 108	Negative
## 109	Negative
## 110	Negative
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## 112	Negative
## 113	Negative
## 114	Negative
## 115	Positive
## 116	Negative
## 117	Negative

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## 126	Positive
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## 130	Negative
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## 135	Positive
## 136	Positive
## 137	Positive
## 138	Positive
## 139	Positive
## 140	Negative
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## 142	Positive
## 143	Negative
## 144	Positive
## 145	Negative
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## 147	Negative
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## 149	Positive
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## 164	Positive
## 165	Negative
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## 167	Negative
## 168	Negative
## 169	Positive
## 170	Positive
## 171	Negative
## 172	Positive
## 173	Negative



## 174	Positive
## 175	Positive
## 176	Negative
## 177	Negative
## 178	Negative
## 179	Negative
## 180	Positive
## 181	Negative
## 182	Negative
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## 184	Negative
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## 224	Negative
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## 226	Negative
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## 228	Positive
## 229	Negative

## 230	Negative
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## 232	Negative
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## 236	Positive
## 237	Positive
## 238	Positive
## 239	Positive
## 240	Positive
## 241	Negative
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## 275	Negative
## 276	Negative
## 277	Negative
## 278	Negative
## 279	Positive
## 280	Negative
## 281	Positive
## 282	Negative
## 283	Positive
## 284	Positive
## 285	Negative

## 286	Negative
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## 288	Positive
## 289	Positive
## 290	Negative
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## 292	Positive
## 293	Positive
## 294	Positive
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## 297	Positive
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## 307	Negative
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## 310	Positive
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## 313	Negative
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## 315	Positive
## 316	Negative
## 317	Negative
## 318	Positive
## 319	Negative
## 320	Positive
## 321	Positive
## 322	Positive
## 323	Negative
## 324	Negative
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## 327	Negative
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## 330	Negative
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## 332	Positive
## 333	Negative
## 334	Negative
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## 336	Negative
## 337	Negative
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## 339	Negative
## 340	Positive
## 341	Negative

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## 343	Negative
## 344	Positive
## 345	Positive
## 346	Positive
## 347	Positive
## 348	Negative
## 349	Negative
## 350	Negative
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## 387	Negative
## 388	Positive
## 389	Positive
## 390	Negative
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## 392	Positive
## 393	Negative
## 394	Negative
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## 396	Negative
## 397	Negative

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## 400	Negative
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## 402	Positive
## 403	Positive
## 404	Negative
## 405	Negative
## 406	Positive
## 407	Negative
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## 409	Positive
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## 423	Negative
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## 426	Positive
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## 430	Negative
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## 434	Positive
## 435	Positive
## 436	Negative
## 437	Negative
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## 439	Negative
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## 441	Positive
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## 443	Negative
## 444	Negative
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## 446	Positive
## 447	Positive
## 448	Positive
## 449	Positive
## 450	Positive
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## 452	Negative
## 453	Positive

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## 457	Negative
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## 496	Negative
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## 498	Positive
## 499	Negative
## 500	Negative
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## 504	Negative
## 505	Positive
## 506	Negative
## 507	Negative
## 508	Positive
## 509	Negative

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## 513	Positive
## 514	Negative
## 515	Negative
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## 517	Negative
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## 553	Negative
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## 555	Negative
## 556	Positive
## 557	Negative
## 558	Negative
## 559	Positive
## 560	Positive
## 561	Positive
## 562	Negative
## 563	Negative
## 564	Negative
## 565	Positive

## 566	Negative
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## 569	Positive
## 570	Positive
## 571	Negative
## 572	Positive
## 573	Positive
## 574	Negative
## 575	Negative
## 576	Positive
## 577	Negative
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## 583	Positive
## 584	Positive
## 585	Positive
## 586	Negative
## 587	Positive
## 588	Negative
## 589	Positive
## 590	Positive
## 591	Positive
## 592	Negative
## 593	Positive
## 594	Negative
## 595	Positive
## 596	Positive
## 597	Negative
## 598	Positive
## 599	Positive
## 600	Positive
## 601	Negative
## 602	Negative
## 603	Negative
## 604	Negative
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## 610	Positive
## 611	Negative
## 612	Positive
## 613	Negative
## 614	Positive
## 615	Positive
## 616	Negative
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## 618	Negative
## 619	Positive
## 620	Negative
## 621	Negative



## 622	Positive
## 623	Negative
## 624	Positive
## 625	Negative
## 626	Positive
## 627	Negative
## 628	Positive
## 629	Negative
## 630	Positive
## 631	Negative
## 632	Negative
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## 634	Positive
## 635	Positive
## 636	Positive
## 637	Negative
## 638	Negative
## 639	Negative
## 640	Positive
## 641	Negative
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## 643	Positive
## 644	Negative
## 645	Positive
## 646	Negative
## 647	Positive
## 648	Negative
## 649	Negative
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## 664	Negative
## 665	Positive
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## 669	Negative
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## 672	Negative
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## 674	Negative
## 675	Negative
## 676	Negative
## 677	Positive

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## 681	Negative
## 682	Negative
## 683	Positive
## 684	Positive
## 685	Positive
## 686	Positive
## 687	Negative
## 688	Positive
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## 691	Negative
## 692	Negative
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## 694	Negative
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## 703	Negative
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## 709	Negative
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## 712	Negative
## 713	Positive
## 714	Negative
## 715	Negative
## 716	Positive
## 717	Positive
## 718	Positive
## 719	Positive
## 720	Negative
## 721	Positive
## 722	Negative
## 723	Negative
## 724	Negative
## 725	Negative
## 726	Negative
## 727	Negative
## 728	Positive
## 729	Positive
## 730	Positive
## 731	Positive
## 732	Negative
## 733	Negative

## 734	Positive
## 735	Positive
## 736	Negative
## 737	Positive
## 738	Positive
## 739	Positive
## 740	Positive
## 741	Positive
## 742	Negative
## 743	Negative
## 744	Positive
## 745	Positive
## 746	Positive
## 747	Negative
## 748	Positive
## 749	Negative
## 750	Positive
## 751	Negative
## 752	Negative
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## 754	Positive
## 755	Negative
## 756	Positive
## 757	Positive
## 758	Negative
## 759	Negative
## 760	Positive
## 761	Positive
## 762	Positive
## 763	Positive
## 764	Positive
## 765	Negative
## 766	Negative
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## 769	Negative
## 770	Negative
## 771	Positive
## 772	Negative
## 773	Positive
## 774	Negative
## 775	Positive
## 776	Negative
## 777	Negative
## 778	Positive
## 779	Negative
## 780	Positive
## 781	Positive
## 782	Negative
## 783	Positive
## 784	Negative
## 785	Negative
## 786	Negative
## 787	Positive
## 788	Negative
## 789	Positive

## 790	Negative
## 791	Negative
## 792	Positive
## 793	Negative
## 794	Negative
## 795	Positive
## 796	Positive
## 797	Positive
## 798	Positive
## 799	Positive
## 800	Negative
## 801	Negative
## 802	Positive
## 803	Negative
## 804	Positive
## 805	Positive
## 806	Negative
## 807	Negative
## 808	Positive
## 809	Positive
## 810	Negative
## 811	Negative
## 812	Positive
## 813	Negative
## 814	Positive
## 815	Positive
## 816	Negative
## 817	Positive
## 818	Negative
## 819	Negative
## 820	Negative
## 821	Positive
## 822	Positive
## 823	Positive
## 824	Negative
## 825	Negative
## 826	Positive
## 827	Negative
## 828	Positive
## 829	Positive
## 830	Negative
## 831	Positive
## 832	Positive
## 833	Negative
## 834	Positive
## 835	Negative
## 836	Positive
## 837	Positive
## 838	Negative
## 839	Positive
## 840	Negative
## 841	Negative
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## 843	Positive
## 844	Negative
## 845	Negative

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## 847	Positive
## 848	Negative
## 849	Positive
## 850	Positive
## 851	Negative
## 852	Positive
## 853	Negative
## 854	Positive
## 855	Negative
## 856	Positive
## 857	Negative
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## 861	Negative
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## 864	Negative
## 865	Positive
## 866	Negative
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## 869	Negative
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## 874	Negative
## 875	Positive
## 876	Negative
## 877	Positive
## 878	Positive
## 879	Negative
## 880	Negative
## 881	Positive
## 882	Negative
## 883	Positive
## 884	Positive
## 885	Positive
## 886	Negative
## 887	Negative
## 888	Positive
## 889	Positive
## 890	Negative
## 891	Negative
## 892	Negative
## 893	Negative
## 894	Positive
## 895	Negative
## 896	Negative
## 897	Positive
## 898	Negative
## 899	Negative
## 900	Positive
## 901	Negative

## 902	Positive
## 903	Positive
## 904	Positive
## 905	Positive
## 906	Positive
## 907	Negative
## 908	Positive
## 909	Positive
## 910	Positive
## 911	Negative
## 912	Negative
## 913	Negative
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## 915	Positive
## 916	Positive
## 917	Negative
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## 926	Negative
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## 929	Positive
## 930	Negative
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## 933	Positive
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## 935	Negative
## 936	Negative
## 937	Negative
## 938	Negative
## 939	Negative
## 940	Negative
## 941	Negative
## 942	Positive
## 943	Positive
## 944	Negative
## 945	Negative
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## 947	Negative
## 948	Negative
## 949	Negative
## 950	Positive
## 951	Negative
## 952	Negative
## 953	Positive
## 954	Positive
## 955	Negative
## 956	Positive
## 957	Negative

## 958	Positive
## 959	Negative
## 960	Positive
## 961	Negative
## 962	Positive
## 963	Negative
## 964	Positive
## 965	Positive
## 966	Negative
## 967	Negative
## 968	Positive
## 969	Negative
## 970	Negative
## 971	Positive
## 972	Positive
## 973	Positive
## 974	Positive
## 975	Positive
## 976	Negative
## 977	Positive
## 978	Positive
## 979	Positive
## 980	Positive
## 981	Negative
## 982	Positive
## 983	Negative
## 984	Negative
## 985	Positive
## 986	Negative
## 987	Positive
## 988	Positive
## 989	Positive
## 990	Positive
## 991	Negative
## 992	Negative
## 993	Negative
## 994	Negative
## 995	Negative
## 996	Positive
## 997	Positive
## 998	Positive
## 999	Positive
## 1000	Positive

```
print(sentiment)
```

```
## # A tibble: 6 × 2
##   sender          average_sentiment
##   <chr>          <dbl>
## 1 carol_slack      0.118
## 2 alice@example    0.0570
## 3 dave@example     0.00687
## 4 @frank_chat     -0.00880
## 5 @bob_tweets     -0.0185
## 6 @erin_tweets    -0.0327
```

## Question-11: Message Impact

Create a new dataframe using the mutate and arrange commands that calculates the product of the sentiment score and the length of each message. Arrange the results in descending order.

### Solution:

```
# Enter code here
library(dplyr)
comm_data %>%
  mutate(product = sentiment*nchar(message)) %>%
  arrange(desc(product))
```



##	date	channel	sender	message	sentiment	product
## 1	2023-08-16	Email	@frank_chat	Hello everyone!	0.997601895	14.96402843
## 2	2023-08-14	Slack	@erin_tweets	Hello everyone!	0.987832270	14.81748405
## 3	2023-08-18	Email	dave@example	Hello everyone!	0.978220029	14.67330044
## 4	2023-08-17	Email	dave@example	Hello everyone!	0.976894801	14.65342202
## 5	2023-08-07	Slack	carol_slack	Hello everyone!	0.973429719	14.60144579
## 6	2023-08-06	Slack	dave@example	Hello everyone!	0.968081689	14.52122533
## 7	2023-08-08	Slack	@frank_chat	Need assistance	0.963640937	14.45461406
## 8	2023-08-09	Email	@erin_tweets	Need assistance	0.953375103	14.30062655
## 9	2023-08-17	Twitter	@frank_chat	Hello everyone!	0.951721462	14.27582193
## 10	2023-08-12	Email	carol_slack	Need assistance	0.937844194	14.06766291
## 11	2023-08-17	Slack	@erin_tweets	Hello everyone!	0.937329018	14.05993527
## 12	2023-08-13	Email	@frank_chat	Need assistance	0.935812009	14.03718014
## 13	2023-08-04	Slack	@frank_chat	Need assistance	0.933738099	14.00607149
## 14	2023-08-11	Slack	dave@example	Need assistance	0.930096855	13.95145283
## 15	2023-08-07	Slack	@frank_chat	Exciting news!	0.993148146	13.90407405
## 16	2023-08-13	Email	carol_slack	Exciting news!	0.991050147	13.87470206
## 17	2023-08-07	Email	alice@example	Hello everyone!	0.917979236	13.76968854
## 18	2023-08-07	Slack	@frank_chat	Need assistance	0.914976185	13.72464278
## 19	2023-08-06	Twitter	@bob_tweets	Exciting news!	0.979591473	13.71428062
## 20	2023-08-08	Twitter	dave@example	Need assistance	0.911442756	13.67164134
## 21	2023-08-06	Email	@erin_tweets	Hello everyone!	0.905330024	13.57995036
## 22	2023-08-17	Twitter	alice@example	Exciting news!	0.968932204	13.56505086
## 23	2023-08-03	Twitter	dave@example	Hello everyone!	0.902683333	13.54025000
## 24	2023-08-01	Email	@bob_tweets	Hello everyone!	0.902623749	13.53935624
## 25	2023-08-09	Slack	carol_slack	Hello everyone!	0.902016178	13.53024267
## 26	2023-08-15	Slack	alice@example	Need assistance	0.899728119	13.49592178
## 27	2023-08-03	Slack	@erin_tweets	Need assistance	0.896539724	13.44809587
## 28	2023-08-07	Twitter	carol_slack	Need assistance	0.895823483	13.43735224
## 29	2023-08-17	Twitter	@bob_tweets	Exciting news!	0.953910344	13.35474482
## 30	2023-08-13	Slack	carol_slack	Need assistance	0.886342321	13.29513481
## 31	2023-08-11	Slack	dave@example	Hello everyone!	0.879992486	13.19988729
## 32	2023-08-07	Slack	alice@example	Need assistance	0.877496709	13.16245064
## 33	2023-08-20	Email	@bob_tweets	Exciting news!	0.931368547	13.03915965
## 34	2023-08-14	Email	@erin_tweets	Need assistance	0.867801995	13.01702993
## 35	2023-08-12	Email	@erin_tweets	Need assistance	0.866607873	12.99911810
## 36	2023-08-16	Twitter	alice@example	Exciting news!	0.927110374	12.97954523
## 37	2023-08-19	Twitter	alice@example	Hello everyone!	0.857508211	12.86262316
## 38	2023-08-02	Slack	@erin_tweets	Exciting news!	0.900116188	12.60162663
## 39	2023-08-10	Email	dave@example	Need assistance	0.834841503	12.52262254
## 40	2023-08-02	Twitter	@erin_tweets	Need assistance	0.821079701	12.31619552
## 41	2023-08-12	Twitter	alice@example	Exciting news!	0.874988238	12.24983533
## 42	2023-08-10	Twitter	carol_slack	Need assistance	0.809991531	12.14987296
## 43	2023-08-11	Twitter	@frank_chat	Hello everyone!	0.807257727	12.10886591
## 44	2023-08-16	Twitter	@erin_tweets	Hello everyone!	0.806540163	12.09810244
## 45	2023-08-02	Slack	carol_slack	Hello everyone!	0.805289558	12.07934337
## 46	2023-08-01	Slack	carol_slack	Hello everyone!	0.802523659	12.03785488
## 47	2023-08-03	Email	@frank_chat	Fun weekend!	0.992682932	11.91219518
## 48	2023-08-12	Slack	@bob_tweets	Fun weekend!	0.990166281	11.88199537
## 49	2023-08-13	Twitter	dave@example	Fun weekend!	0.986894567	11.84273481
## 50	2023-08-20	Email	dave@example	Team meeting	0.985037738	11.82045285
## 51	2023-08-15	Twitter	@erin_tweets	Need assistance	0.787741330	11.81611995
## 52	2023-08-18	Twitter	alice@example	Fun weekend!	0.977650215	11.73180258
## 53	2023-08-15	Email	dave@example	Need assistance	0.773382573	11.60073860
## 54	2023-08-02	Twitter	alice@example	Team meeting	0.964958043	11.57949651

## 55	2023-08-15	Twitter	@erin_tweets	Hello everyone!	0.768580468	11.52870702
## 56	2023-08-19	Email	dave@example	Exciting news!	0.821827833	11.50558966
## 57	2023-08-10	Slack	@bob_tweets	Fun weekend!	0.957983019	11.49579623
## 58	2023-08-09	Twitter	alice@example	Hello everyone!	0.762754925	11.44132388
## 59	2023-08-02	Twitter	dave@example	Exciting news!	0.817105632	11.43947885
## 60	2023-08-19	Twitter	@erin_tweets	Team meeting	0.945942261	11.35130714
## 61	2023-08-13	Twitter	alice@example	Hello everyone!	0.752351641	11.28527462
## 62	2023-08-07	Slack	dave@example	Hello everyone!	0.747580624	11.21370936
## 63	2023-08-03	Twitter	alice@example	Need assistance	0.747163485	11.20745228
## 64	2023-08-06	Slack	@frank_chat	Need assistance	0.746888391	11.20332586
## 65	2023-08-17	Email	@frank_chat	Team meeting	0.932789830	11.19347795
## 66	2023-08-06	Slack	@bob_tweets	Need assistance	0.743181323	11.14771985
## 67	2023-08-04	Twitter	@frank_chat	Exciting news!	0.795437461	11.13612446
## 68	2023-08-08	Slack	@bob_tweets	Hello everyone!	0.740663246	11.10994869
## 69	2023-08-03	Email	@erin_tweets	Fun weekend!	0.924321534	11.09185841
## 70	2023-08-14	Twitter	carol_slack	Need assistance	0.739025190	11.08537785
## 71	2023-08-11	Slack	carol_slack	Team meeting	0.921573296	11.05887955
## 72	2023-08-07	Email	carol_slack	Exciting news!	0.785684678	10.99958549
## 73	2023-08-18	Twitter	@frank_chat	Exciting news!	0.784590872	10.98427221
## 74	2023-08-20	Email	carol_slack	Team meeting	0.909817838	10.91781405
## 75	2023-08-12	Email	@frank_chat	Exciting news!	0.777389107	10.88344750
## 76	2023-08-05	Email	@bob_tweets	Hello everyone!	0.725036937	10.87555406
## 77	2023-08-07	Email	alice@example	Exciting news!	0.773558143	10.82981400
## 78	2023-08-13	Twitter	carol_slack	Exciting news!	0.771407587	10.79970622
## 79	2023-08-10	Slack	@frank_chat	Exciting news!	0.769946682	10.77925355
## 80	2023-08-09	Email	alice@example	Fun weekend!	0.893210486	10.71852583
## 81	2023-08-19	Email	carol_slack	Fun weekend!	0.892766985	10.71320382
## 82	2023-08-02	Email	dave@example	Great work!	0.973676749	10.71044424
## 83	2023-08-13	Twitter	alice@example	Team meeting	0.892404643	10.70885571
## 84	2023-08-03	Email	alice@example	Hello everyone!	0.713812393	10.70718590
## 85	2023-08-06	Slack	alice@example	Hello everyone!	0.710270591	10.65405886
## 86	2023-08-15	Slack	@frank_chat	Great work!	0.960373470	10.56410817
## 87	2023-08-14	Twitter	@bob_tweets	Exciting news!	0.754322437	10.56051412
## 88	2023-08-09	Email	@bob_tweets	Hello everyone!	0.703965933	10.55948899
## 89	2023-08-02	Twitter	@erin_tweets	Exciting news!	0.750492542	10.50689559
## 90	2023-08-11	Email	@frank_chat	Fun weekend!	0.874191639	10.49029966
## 91	2023-08-08	Twitter	alice@example	Team meeting	0.870818266	10.44981919
## 92	2023-08-05	Email	alice@example	Need assistance	0.694902051	10.42353076
## 93	2023-08-18	Twitter	@bob_tweets	Fun weekend!	0.866654206	10.39985047
## 94	2023-08-04	Slack	@bob_tweets	Fun weekend!	0.866016825	10.39220190
## 95	2023-08-04	Slack	@frank_chat	Need assistance	0.691338675	10.37008012
## 96	2023-08-17	Email	@erin_tweets	Team meeting	0.863822790	10.36587348
## 97	2023-08-10	Slack	@erin_tweets	Team meeting	0.862134462	10.34561354
## 98	2023-08-04	Email	@erin_tweets	Need assistance	0.689327837	10.33991755
## 99	2023-08-07	Slack	carol_slack	Great work!	0.937586371	10.31345008
## 100	2023-08-16	Email	alice@example	Team meeting	0.858062949	10.29675539
## 101	2023-08-19	Email	@bob_tweets	Team meeting	0.855612874	10.26735449
## 102	2023-08-15	Twitter	@bob_tweets	Team meeting	0.853966497	10.24759796
## 103	2023-08-20	Email	alice@example	Fun weekend!	0.851679420	10.22015304
## 104	2023-08-08	Slack	@erin_tweets	Team meeting	0.849549761	10.19459713
## 105	2023-08-19	Slack	@bob_tweets	Hello everyone!	0.679174718	10.18762078
## 106	2023-08-10	Email	@bob_tweets	Great work!	0.924440826	10.16884909
## 107	2023-08-01	Twitter	alice@example	Need assistance	0.676776995	10.15165492
## 108	2023-08-07	Slack	alice@example	Fun weekend!	0.844455994	10.13347192
## 109	2023-08-13	Slack	carol_slack	Hello everyone!	0.675182751	10.12774126
## 110	2023-08-08	Email	alice@example	Exciting news!	0.723251828	10.12552560

## 111	2023-08-15	Slack	carol_slack	Need assistance	0.674294885	10.11442328
## 112	2023-08-05	Twitter	alice@example	Exciting news!	0.722319741	10.11247638
## 113	2023-08-10	Slack	@frank_chat	Hello everyone!	0.672468295	10.08702442
## 114	2023-08-02	Email	dave@example	Exciting news!	0.717076284	10.03906798
## 115	2023-08-16	Slack	alice@example	Need assistance	0.669039086	10.03558630
## 116	2023-08-11	Twitter	carol_slack	Great work!	0.910158344	10.01174178
## 117	2023-08-09	Slack	alice@example	Need assistance	0.665302936	9.97954403
## 118	2023-08-06	Email	@erin_tweets	Need assistance	0.664381829	9.96572744
## 119	2023-08-11	Email	@bob_tweets	Hello everyone!	0.662486946	9.93730419
## 120	2023-08-09	Slack	dave@example	Need assistance	0.662048494	9.93072742
## 121	2023-08-17	Email	@bob_tweets	Fun weekend!	0.825692308	9.90830769
## 122	2023-08-05	Twitter	alice@example	Team meeting	0.824948560	9.89938273
## 123	2023-08-11	Twitter	dave@example	Fun weekend!	0.824099663	9.88919596
## 124	2023-08-02	Slack	alice@example	Fun weekend!	0.823352248	9.88022698
## 125	2023-08-06	Email	@frank_chat	Team meeting	0.819675826	9.83610992
## 126	2023-08-18	Twitter	@frank_chat	Team meeting	0.818109252	9.81731103
## 127	2023-08-14	Email	@erin_tweets	Great work!	0.891589128	9.80748041
## 128	2023-08-15	Slack	@frank_chat	Fun weekend!	0.816346027	9.79615233
## 129	2023-08-16	Twitter	alice@example	Exciting news!	0.696509592	9.75113428
## 130	2023-08-06	Email	@frank_chat	Exciting news!	0.696377364	9.74928310
## 131	2023-08-09	Twitter	@frank_chat	Hello everyone!	0.649366590	9.74049885
## 132	2023-08-03	Slack	@bob_tweets	Great work!	0.884830707	9.73313778
## 133	2023-08-12	Slack	carol_slack	Great work!	0.874556832	9.62012515
## 134	2023-08-20	Twitter	carol_slack	Hello everyone!	0.640248996	9.60373494
## 135	2023-08-07	Slack	@bob_tweets	Great work!	0.872962321	9.60258553
## 136	2023-08-20	Slack	alice@example	Exciting news!	0.685212519	9.59297527
## 137	2023-08-16	Twitter	dave@example	Team meeting	0.796688539	9.56026246
## 138	2023-08-04	Slack	dave@example	Fun weekend!	0.796501584	9.55801901
## 139	2023-08-14	Twitter	dave@example	Great work!	0.866824818	9.53507300
## 140	2023-08-10	Email	@erin_tweets	Exciting news!	0.679597112	9.51435957
## 141	2023-08-06	Email	@frank_chat	Fun weekend!	0.791513952	9.49816742
## 142	2023-08-14	Twitter	@bob_tweets	Exciting news!	0.671785708	9.40499991
## 143	2023-08-01	Email	@bob_tweets	Team meeting	0.783531986	9.40238383
## 144	2023-08-10	Slack	@frank_chat	Need assistance	0.626154714	9.39232071
## 145	2023-08-05	Twitter	dave@example	Team meeting	0.779166287	9.34999544
## 146	2023-08-08	Email	@frank_chat	Team meeting	0.778342899	9.34011479
## 147	2023-08-10	Email	@bob_tweets	Exciting news!	0.664575256	9.30405358
## 148	2023-08-17	Twitter	dave@example	Fun weekend!	0.775130778	9.30156934
## 149	2023-08-12	Email	alice@example	Team meeting	0.774573303	9.29487963
## 150	2023-08-05	Email	@bob_tweets	Hello everyone!	0.616259416	9.24389124
## 151	2023-08-05	Email	@erin_tweets	Great work!	0.830162693	9.13178963
## 152	2023-08-16	Twitter	dave@example	Great work!	0.827052074	9.09757282
## 153	2023-08-01	Email	carol_slack	Fun weekend!	0.757286296	9.08743555
## 154	2023-08-14	Slack	@erin_tweets	Hello everyone!	0.605556316	9.08334474
## 155	2023-08-01	Slack	@frank_chat	Need assistance	0.601800072	9.02700109
## 156	2023-08-05	Twitter	@frank_chat	Hello everyone!	0.599585856	8.99378784
## 157	2023-08-15	Twitter	@erin_tweets	Need assistance	0.599532404	8.99298607
## 158	2023-08-01	Twitter	@frank_chat	Need assistance	0.599045397	8.98568095
## 159	2023-08-20	Slack	dave@example	Great work!	0.814900840	8.96390924
## 160	2023-08-09	Email	dave@example	Team meeting	0.746085706	8.95302847
## 161	2023-08-13	Email	alice@example	Need assistance	0.596431601	8.94647402
## 162	2023-08-19	Twitter	@erin_tweets	Exciting news!	0.638825124	8.94355174
## 163	2023-08-07	Slack	dave@example	Hello everyone!	0.593321668	8.89982501
## 164	2023-08-08	Slack	@erin_tweets	Need assistance	0.593302410	8.89953615
## 165	2023-08-07	Twitter	carol_slack	Great work!	0.805481421	8.86029563
## 166	2023-08-10	Slack	alice@example	Great work!	0.804542714	8.84996985

## 167	2023-08-08	Email	@erin_tweets	Fun weekend!	0.734125260	8.80950312
## 168	2023-08-15	Twitter	alice@example	Great work!	0.798867194	8.78753914
## 169	2023-08-03	Email	@frank_chat	Hello everyone!	0.583445542	8.75168314
## 170	2023-08-17	Twitter	alice@example	Hello everyone!	0.582868762	8.74303143
## 171	2023-08-20	Slack	dave@example	Exciting news!	0.617734990	8.64828986
## 172	2023-08-11	Email	@bob_tweets	Hello everyone!	0.576369455	8.64554183
## 173	2023-08-03	Email	dave@example	Hello everyone!	0.575844854	8.63767281
## 174	2023-08-08	Twitter	carol_slack	Exciting news!	0.614791796	8.60708514
## 175	2023-08-11	Twitter	carol_slack	Great work!	0.782265475	8.60492022
## 176	2023-08-06	Slack	carol_slack	Need assistance	0.572155187	8.58232781
## 177	2023-08-05	Twitter	carol_slack	Fun weekend!	0.706561523	8.47873828
## 178	2023-08-09	Twitter	@bob_tweets	Exciting news!	0.605349668	8.47489536
## 179	2023-08-12	Twitter	carol_slack	Team meeting	0.704733795	8.45680553
## 180	2023-08-06	Email	carol_slack	Great work!	0.766328182	8.42961000
## 181	2023-08-05	Email	carol_slack	Need assistance	0.558824511	8.38236766
## 182	2023-08-09	Email	dave@example	Fun weekend!	0.698494015	8.38192818
## 183	2023-08-14	Email	carol_slack	Exciting news!	0.596924395	8.35694153
## 184	2023-08-09	Slack	alice@example	Fun weekend!	0.690391378	8.28469654
## 185	2023-08-03	Slack	@frank_chat	Exciting news!	0.591279314	8.27791040
## 186	2023-08-10	Slack	dave@example	Great work!	0.746216161	8.20837777
## 187	2023-08-12	Email	@frank_chat	Need assistance	0.544408341	8.16612512
## 188	2023-08-02	Twitter	@erin_tweets	Exciting news!	0.581556937	8.14179712
## 189	2023-08-08	Email	carol_slack	Fun weekend!	0.670605208	8.04726249
## 190	2023-08-10	Email	@frank_chat	Hello everyone!	0.535708998	8.03563497
## 191	2023-08-04	Slack	alice@example	Need assistance	0.534302738	8.01454106
## 192	2023-08-12	Twitter	alice@example	Hello everyone!	0.532433989	7.98650983
## 193	2023-08-01	Twitter	dave@example	Hello everyone!	0.530999278	7.96498917
## 194	2023-08-03	Twitter	alice@example	Hello everyone!	0.530733542	7.96100313
## 195	2023-08-05	Email	@frank_chat	Exciting news!	0.567230823	7.94123152
## 196	2023-08-16	Slack	carol_slack	Hello everyone!	0.529127310	7.93690964
## 197	2023-08-20	Twitter	@frank_chat	Team meeting	0.659773430	7.91728116
## 198	2023-08-12	Slack	dave@example	Exciting news!	0.563268560	7.88575985
## 199	2023-08-01	Twitter	@erin_tweets	Hello everyone!	0.524320859	7.86481288
## 200	2023-08-08	Email	carol_slack	Great work!	0.710615378	7.81676916
## 201	2023-08-20	Slack	@bob_tweets	Hello everyone!	0.520647362	7.80971044
## 202	2023-08-12	Email	dave@example	Fun weekend!	0.650773503	7.80928203
## 203	2023-08-17	Email	@erin_tweets	Great work!	0.709753431	7.80728775
## 204	2023-08-12	Twitter	@erin_tweets	Team meeting	0.650313874	7.80376649
## 205	2023-08-05	Slack	@erin_tweets	Need assistance	0.519475343	7.79213014
## 206	2023-08-13	Email	@bob_tweets	Exciting news!	0.553149406	7.74409168
## 207	2023-08-05	Email	@erin_tweets	Exciting news!	0.549038415	7.68653781
## 208	2023-08-10	Email	alice@example	Great work!	0.693037350	7.62341085
## 209	2023-08-11	Twitter	@frank_chat	Team meeting	0.629940747	7.55928896
## 210	2023-08-20	Email	carol_slack	Great work!	0.680826971	7.48909668
## 211	2023-08-14	Email	@bob_tweets	Hello everyone!	0.498191035	7.47286552
## 212	2023-08-10	Slack	dave@example	Exciting news!	0.532747218	7.45846105
## 213	2023-08-03	Slack	@bob_tweets	Need assistance	0.496275815	7.44413722
## 214	2023-08-03	Slack	dave@example	Great work!	0.675534202	7.43087622
## 215	2023-08-05	Twitter	@erin_tweets	Fun weekend!	0.619198539	7.43038247
## 216	2023-08-20	Email	dave@example	Team meeting	0.617879979	7.41455975
## 217	2023-08-08	Email	alice@example	Exciting news!	0.529548995	7.41368593
## 218	2023-08-06	Email	dave@example	Need assistance	0.492307736	7.38461604
## 219	2023-08-14	Slack	dave@example	Hello everyone!	0.491653796	7.37480694
## 220	2023-08-05	Email	@frank_chat	Team meeting	0.611721705	7.34066046
## 221	2023-08-03	Email	@frank_chat	Hello everyone!	0.488557915	7.32836872
## 222	2023-08-19	Slack	@bob_tweets	Hello everyone!	0.487545231	7.31317846

## 223	2023-08-12	Slack	carol_slack	Fun weekend!	0.608656868	7.30388241
## 224	2023-08-16	Slack	dave@example	Need assistance	0.484403751	7.26605626
## 225	2023-08-20	Slack	@erin_tweets	Fun weekend!	0.604609676	7.25531611
## 226	2023-08-20	Twitter	alice@example	Hello everyone!	0.482187657	7.23281485
## 227	2023-08-19	Twitter	@frank_chat	Need assistance	0.481529109	7.22293664
## 228	2023-08-17	Slack	alice@example	Great work!	0.652192219	7.17411441
## 229	2023-08-03	Twitter	carol_slack	Great work!	0.646422371	7.11064608
## 230	2023-08-18	Twitter	@bob_tweets	Fun weekend!	0.590919483	7.09103379
## 231	2023-08-07	Email	@bob_tweets	Great work!	0.642848774	7.07133651
## 232	2023-08-19	Slack	alice@example	Exciting news!	0.502961815	7.04146541
## 233	2023-08-12	Twitter	alice@example	Team meeting	0.582250814	6.98700977
## 234	2023-08-18	Email	@bob_tweets	Exciting news!	0.497974098	6.97163737
## 235	2023-08-19	Twitter	carol_slack	Team meeting	0.578111817	6.93734181
## 236	2023-08-07	Slack	alice@example	Team meeting	0.569526526	6.83431831
## 237	2023-08-12	Slack	alice@example	Need assistance	0.454688824	6.82033236
## 238	2023-08-14	Twitter	@bob_tweets	Fun weekend!	0.567614020	6.81136824
## 239	2023-08-18	Slack	@bob_tweets	Fun weekend!	0.567603516	6.81124220
## 240	2023-08-18	Email	@bob_tweets	Need assistance	0.453627230	6.80440845
## 241	2023-08-02	Twitter	carol_slack	Hello everyone!	0.450987421	6.76481131
## 242	2023-08-14	Slack	@bob_tweets	Hello everyone!	0.450289166	6.75433748
## 243	2023-08-20	Email	@frank_chat	Team meeting	0.560076173	6.72091408
## 244	2023-08-16	Slack	alice@example	Need assistance	0.445466304	6.68199456
## 245	2023-08-20	Slack	@frank_chat	Great work!	0.606102686	6.66712955
## 246	2023-08-01	Email	carol_slack	Great work!	0.605523043	6.66075348
## 247	2023-08-13	Slack	carol_slack	Exciting news!	0.474910577	6.64874808
## 248	2023-08-05	Email	carol_slack	Exciting news!	0.468174768	6.55444675
## 249	2023-08-07	Twitter	dave@example	Exciting news!	0.466239469	6.52735257
## 250	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.542777083	6.51332500
## 251	2023-08-13	Email	alice@example	Hello everyone!	0.433930994	6.50896490
## 252	2023-08-03	Slack	alice@example	Fun weekend!	0.542070733	6.50484880
## 253	2023-08-16	Slack	dave@example	Exciting news!	0.461496073	6.46094502
## 254	2023-08-15	Email	@frank_chat	Fun weekend!	0.535877908	6.43053489
## 255	2023-08-07	Slack	alice@example	Great work!	0.580541194	6.38595314
## 256	2023-08-09	Twitter	@bob_tweets	Team meeting	0.526457346	6.31748815
## 257	2023-08-19	Twitter	@bob_tweets	Hello everyone!	0.420571170	6.30856755
## 258	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.525517232	6.30620678
## 259	2023-08-19	Email	@erin_tweets	Great work!	0.570171806	6.27188987
## 260	2023-08-12	Slack	@frank_chat	Fun weekend!	0.519153008	6.22983610
## 261	2023-08-15	Email	carol_slack	Need assistance	0.414960733	6.22441100
## 262	2023-08-13	Slack	@frank_chat	Exciting news!	0.443950114	6.21530160
## 263	2023-08-08	Twitter	@bob_tweets	Great work!	0.564973874	6.21471261
## 264	2023-08-09	Email	@erin_tweets	Fun weekend!	0.513564137	6.16276965
## 265	2023-08-13	Twitter	@bob_tweets	Need assistance	0.408644735	6.12967103
## 266	2023-08-08	Twitter	alice@example	Great work!	0.552484959	6.07733455
## 267	2023-08-13	Email	dave@example	Great work!	0.550955762	6.06051338
## 268	2023-08-12	Slack	carol_slack	Team meeting	0.504667453	6.05600943
## 269	2023-08-03	Twitter	@bob_tweets	Hello everyone!	0.401231622	6.01847433
## 270	2023-08-09	Slack	@bob_tweets	Team meeting	0.500293179	6.00351815
## 271	2023-08-14	Twitter	@frank_chat	Team meeting	0.499737595	5.99685114
## 272	2023-08-05	Twitter	dave@example	Great work!	0.544805384	5.99285923
## 273	2023-08-20	Twitter	carol_slack	Great work!	0.544291852	5.98721037
## 274	2023-08-15	Twitter	carol_slack	Team meeting	0.498292263	5.97950716
## 275	2023-08-13	Email	@erin_tweets	Fun weekend!	0.496487776	5.95785331
## 276	2023-08-01	Twitter	@erin_tweets	Exciting news!	0.423581860	5.93014603
## 277	2023-08-15	Slack	@bob_tweets	Exciting news!	0.423514269	5.92919976
## 278	2023-08-14	Slack	dave@example	Great work!	0.538406652	5.92247317

## 279	2023-08-18	Email	alice@example	Exciting news!	0.422912350	5.92077291
## 280	2023-08-10	Email	@frank_chat	Great work!	0.533465849	5.86812434
## 281	2023-08-08	Twitter	@frank_chat	Fun weekend!	0.484796492	5.81755790
## 282	2023-08-14	Twitter	alice@example	Exciting news!	0.415267176	5.81374047
## 283	2023-08-15	Email	@frank_chat	Need assistance	0.385732211	5.78598316
## 284	2023-08-15	Twitter	@frank_chat	Hello everyone!	0.384222084	5.76333126
## 285	2023-08-19	Twitter	@bob_tweets	Great work!	0.521462946	5.73609240
## 286	2023-08-14	Twitter	dave@example	Fun weekend!	0.474564350	5.69477220
## 287	2023-08-02	Twitter	dave@example	Great work!	0.516138048	5.67751853
## 288	2023-08-13	Twitter	@erin_tweets	Great work!	0.515643027	5.67207329
## 289	2023-08-15	Twitter	dave@example	Fun weekend!	0.469535301	5.63442361
## 290	2023-08-19	Email	alice@example	Exciting news!	0.401543677	5.62161148
## 291	2023-08-11	Email	dave@example	Great work!	0.509797142	5.60776857
## 292	2023-08-15	Twitter	@bob_tweets	Need assistance	0.373691486	5.60537229
## 293	2023-08-04	Twitter	dave@example	Fun weekend!	0.463157478	5.55788974
## 294	2023-08-03	Slack	@frank_chat	Hello everyone!	0.368215033	5.52322549
## 295	2023-08-15	Slack	@erin_tweets	Team meeting	0.457860831	5.49432997
## 296	2023-08-19	Twitter	@frank_chat	Exciting news!	0.388266448	5.43573027
## 297	2023-08-05	Email	carol_slack	Fun weekend!	0.451752027	5.42102432
## 298	2023-08-14	Email	carol_slack	Fun weekend!	0.446355308	5.35626370
## 299	2023-08-13	Slack	alice@example	Great work!	0.480868685	5.28955554
## 300	2023-08-12	Email	dave@example	Great work!	0.480317921	5.28349713
## 301	2023-08-16	Slack	dave@example	Fun weekend!	0.438361928	5.26034314
## 302	2023-08-01	Twitter	@frank_chat	Great work!	0.473425272	5.20767800
## 303	2023-08-07	Slack	@bob_tweets	Exciting news!	0.370947586	5.19326621
## 304	2023-08-09	Slack	carol_slack	Hello everyone!	0.346090994	5.19136491
## 305	2023-08-05	Slack	carol_slack	Great work!	0.470731148	5.17804263
## 306	2023-08-15	Twitter	@frank_chat	Need assistance	0.344264537	5.16396806
## 307	2023-08-16	Email	@frank_chat	Need assistance	0.343977793	5.15966690
## 308	2023-08-14	Twitter	@erin_tweets	Great work!	0.468599080	5.15458988
## 309	2023-08-13	Twitter	@frank_chat	Exciting news!	0.368110256	5.15354359
## 310	2023-08-15	Email	@bob_tweets	Great work!	0.468266435	5.15093079
## 311	2023-08-02	Slack	@bob_tweets	Exciting news!	0.365244868	5.11342815
## 312	2023-08-10	Slack	alice@example	Team meeting	0.425960287	5.11152345
## 313	2023-08-19	Email	@frank_chat	Great work!	0.463513046	5.09864350
## 314	2023-08-13	Slack	carol_slack	Great work!	0.460303653	5.06334018
## 315	2023-08-17	Email	dave@example	Fun weekend!	0.420022254	5.04026705
## 316	2023-08-04	Email	@bob_tweets	Fun weekend!	0.419715998	5.03659197
## 317	2023-08-13	Email	@erin_tweets	Fun weekend!	0.418006041	5.01607249
## 318	2023-08-14	Email	@bob_tweets	Need assistance	0.330107941	4.95161911
## 319	2023-08-01	Slack	alice@example	Exciting news!	0.350437745	4.90612843
## 320	2023-08-18	Slack	@bob_tweets	Team meeting	0.403409261	4.84091114
## 321	2023-08-16	Email	@frank_chat	Fun weekend!	0.402509230	4.83011076
## 322	2023-08-15	Twitter	dave@example	Great work!	0.435108419	4.78619261
## 323	2023-08-07	Slack	alice@example	Fun weekend!	0.397376804	4.76852165
## 324	2023-08-09	Twitter	alice@example	Great work!	0.432502551	4.75752807
## 325	2023-08-11	Slack	@frank_chat	Great work!	0.431652104	4.74817314
## 326	2023-08-06	Twitter	carol_slack	Fun weekend!	0.394200163	4.73040196
## 327	2023-08-14	Slack	@erin_tweets	Exciting news!	0.336964048	4.71749668
## 328	2023-08-07	Email	@frank_chat	Fun weekend!	0.387379609	4.64855530
## 329	2023-08-10	Twitter	@erin_tweets	Team meeting	0.384202328	4.61042793
## 330	2023-08-18	Email	@frank_chat	Fun weekend!	0.380196611	4.56235933
## 331	2023-08-08	Email	@erin_tweets	Fun weekend!	0.378708432	4.54450119
## 332	2023-08-19	Email	dave@example	Exciting news!	0.324592507	4.54429509
## 333	2023-08-05	Email	carol_slack	Need assistance	0.300882405	4.51323607
## 334	2023-08-17	Twitter	@erin_tweets	Hello everyone!	0.299843722	4.49765583

## 335	2023-08-16	Slack	alice@example	Exciting news!	0.320830711	4.49162996
## 336	2023-08-12	Twitter	@erin_tweets	Need assistance	0.298994374	4.48491562
## 337	2023-08-12	Twitter	carol_slack	Great work!	0.407506729	4.48257402
## 338	2023-08-01	Twitter	carol_slack	Great work!	0.406890230	4.47579253
## 339	2023-08-17	Twitter	@bob_tweets	Great work!	0.401612313	4.41773544
## 340	2023-08-05	Twitter	carol_slack	Team meeting	0.364639959	4.37567951
## 341	2023-08-05	Slack	@bob_tweets	Need assistance	0.291605130	4.37407695
## 342	2023-08-20	Twitter	alice@example	Exciting news!	0.310656996	4.34919794
## 343	2023-08-04	Email	alice@example	Exciting news!	0.308247630	4.31546681
## 344	2023-08-20	Twitter	@frank_chat	Exciting news!	0.307898677	4.31058148
## 345	2023-08-16	Email	@frank_chat	Exciting news!	0.305391626	4.27548276
## 346	2023-08-11	Email	carol_slack	Fun weekend!	0.355941510	4.27129812
## 347	2023-08-18	Slack	@erin_tweets	Team meeting	0.353438236	4.24125884
## 348	2023-08-15	Email	dave@example	Hello everyone!	0.282330315	4.23495473
## 349	2023-08-12	Email	alice@example	Great work!	0.383860287	4.22246316
## 350	2023-08-10	Slack	@bob_tweets	Need assistance	0.279333149	4.18999723
## 351	2023-08-12	Twitter	dave@example	Hello everyone!	0.278570379	4.17855568
## 352	2023-08-05	Email	alice@example	Fun weekend!	0.347548683	4.17058419
## 353	2023-08-10	Twitter	@bob_tweets	Fun weekend!	0.346377916	4.15653499
## 354	2023-08-15	Twitter	dave@example	Fun weekend!	0.345517721	4.14621265
## 355	2023-08-18	Email	alice@example	Need assistance	0.275121063	4.12681595
## 356	2023-08-18	Email	carol_slack	Team meeting	0.343653605	4.12384326
## 357	2023-08-20	Twitter	@erin_tweets	Team meeting	0.341763970	4.10116764
## 358	2023-08-18	Twitter	@bob_tweets	Exciting news!	0.290797958	4.07117141
## 359	2023-08-08	Email	@frank_chat	Great work!	0.362224979	3.98447477
## 360	2023-08-16	Email	alice@example	Great work!	0.360768258	3.96845084
## 361	2023-08-13	Email	@bob_tweets	Hello everyone!	0.264306294	3.96459441
## 362	2023-08-07	Email	dave@example	Team meeting	0.327507946	3.93009535
## 363	2023-08-10	Twitter	@erin_tweets	Exciting news!	0.275836162	3.86170627
## 364	2023-08-14	Twitter	alice@example	Great work!	0.346799491	3.81479440
## 365	2023-08-19	Twitter	carol_slack	Team meeting	0.317846402	3.81415682
## 366	2023-08-07	Slack	@bob_tweets	Need assistance	0.251102221	3.76653332
## 367	2023-08-14	Twitter	@bob_tweets	Hello everyone!	0.250149151	3.75223726
## 368	2023-08-03	Email	alice@example	Fun weekend!	0.312383833	3.74860600
## 369	2023-08-11	Slack	@frank_chat	Fun weekend!	0.312006338	3.74407606
## 370	2023-08-03	Email	carol_slack	Need assistance	0.247236022	3.70854033
## 371	2023-08-14	Email	dave@example	Fun weekend!	0.304697359	3.65636831
## 372	2023-08-11	Twitter	@bob_tweets	Exciting news!	0.260118117	3.64165363
## 373	2023-08-11	Slack	@frank_chat	Need assistance	0.235724795	3.53587192
## 374	2023-08-07	Email	@bob_tweets	Exciting news!	0.244900235	3.42860330
## 375	2023-08-16	Email	carol_slack	Great work!	0.306993762	3.37693138
## 376	2023-08-20	Twitter	alice@example	Fun weekend!	0.280627117	3.36752540
## 377	2023-08-08	Twitter	alice@example	Hello everyone!	0.223401716	3.35102573
## 378	2023-08-19	Email	alice@example	Great work!	0.301563812	3.31720194
## 379	2023-08-15	Slack	alice@example	Fun weekend!	0.271711212	3.26053455
## 380	2023-08-02	Twitter	carol_slack	Need assistance	0.215954025	3.23931037
## 381	2023-08-16	Slack	@frank_chat	Fun weekend!	0.269629325	3.23555190
## 382	2023-08-09	Slack	@erin_tweets	Team meeting	0.268132484	3.21758980
## 383	2023-08-12	Twitter	@bob_tweets	Team meeting	0.265132846	3.18159415
## 384	2023-08-18	Twitter	carol_slack	Exciting news!	0.222249684	3.11149558
## 385	2023-08-10	Twitter	@erin_tweets	Great work!	0.282790715	3.11069786
## 386	2023-08-19	Twitter	@frank_chat	Exciting news!	0.221380584	3.09932818
## 387	2023-08-20	Slack	carol_slack	Exciting news!	0.221250645	3.09750903
## 388	2023-08-12	Email	alice@example	Team meeting	0.255163795	3.06196554
## 389	2023-08-10	Email	@bob_tweets	Team meeting	0.253805156	3.04566188
## 390	2023-08-10	Twitter	carol_slack	Great work!	0.268422757	2.95265032

## 391	2023-08-10	Twitter	alice@example	Great work!	0.266619468	2.93281415
## 392	2023-08-05	Email	@bob_tweets	Team meeting	0.243233590	2.91880308
## 393	2023-08-04	Email	@frank_chat	Great work!	0.263225980	2.89548578
## 394	2023-08-09	Email	@erin_tweets	Fun weekend!	0.237909144	2.85490973
## 395	2023-08-20	Twitter	@bob_tweets	Fun weekend!	0.236553716	2.83864459
## 396	2023-08-04	Email	carol_slack	Need assistance	0.188933107	2.83399661
## 397	2023-08-14	Slack	@frank_chat	Need assistance	0.187954018	2.81931028
## 398	2023-08-18	Email	alice@example	Fun weekend!	0.233402089	2.80082507
## 399	2023-08-08	Twitter	carol_slack	Fun weekend!	0.232626481	2.79151777
## 400	2023-08-20	Slack	carol_slack	Fun weekend!	0.231915887	2.78299064
## 401	2023-08-09	Twitter	alice@example	Hello everyone!	0.184942272	2.77413409
## 402	2023-08-09	Slack	dave@example	Fun weekend!	0.229193896	2.75032675
## 403	2023-08-12	Twitter	@bob_tweets	Fun weekend!	0.226440192	2.71728230
## 404	2023-08-12	Slack	alice@example	Fun weekend!	0.226010282	2.71212338
## 405	2023-08-05	Twitter	dave@example	Great work!	0.245927144	2.70519859
## 406	2023-08-19	Email	@frank_chat	Hello everyone!	0.179850068	2.69775102
## 407	2023-08-01	Slack	@erin_tweets	Great work!	0.244422906	2.68865196
## 408	2023-08-07	Slack	carol_slack	Exciting news!	0.186763622	2.61469071
## 409	2023-08-02	Twitter	carol_slack	Hello everyone!	0.173851238	2.60776856
## 410	2023-08-18	Email	@erin_tweets	Need assistance	0.171319252	2.56978878
## 411	2023-08-08	Email	carol_slack	Team meeting	0.213498762	2.56198514
## 412	2023-08-02	Twitter	alice@example	Team meeting	0.210089974	2.52107969
## 413	2023-08-04	Slack	@frank_chat	Need assistance	0.165087673	2.47631510
## 414	2023-08-08	Email	alice@example	Great work!	0.222402995	2.44643294
## 415	2023-08-01	Email	@erin_tweets	Fun weekend!	0.203746784	2.44496141
## 416	2023-08-04	Email	alice@example	Hello everyone!	0.161035733	2.41553600
## 417	2023-08-06	Email	@bob_tweets	Fun weekend!	0.201027735	2.41233282
## 418	2023-08-02	Twitter	alice@example	Need assistance	0.157653404	2.36480107
## 419	2023-08-10	Twitter	@frank_chat	Great work!	0.214199054	2.35618959
## 420	2023-08-18	Slack	@bob_tweets	Team meeting	0.192284770	2.30741724
## 421	2023-08-07	Email	@frank_chat	Team meeting	0.192018484	2.30422181
## 422	2023-08-08	Twitter	@erin_tweets	Fun weekend!	0.191519982	2.29823979
## 423	2023-08-07	Slack	carol_slack	Team meeting	0.190247875	2.28297450
## 424	2023-08-20	Slack	@bob_tweets	Great work!	0.203791809	2.24170990
## 425	2023-08-01	Twitter	@bob_tweets	Need assistance	0.148395223	2.22592835
## 426	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.185009266	2.22011119
## 427	2023-08-14	Twitter	alice@example	Exciting news!	0.157755047	2.20857066
## 428	2023-08-10	Twitter	@erin_tweets	Great work!	0.199771451	2.19748596
## 429	2023-08-19	Twitter	alice@example	Need assistance	0.143810244	2.15715366
## 430	2023-08-12	Twitter	dave@example	Great work!	0.195303030	2.14833333
## 431	2023-08-15	Twitter	alice@example	Exciting news!	0.153143482	2.14400875
## 432	2023-08-10	Slack	@frank_chat	Hello everyone!	0.142070077	2.13105116
## 433	2023-08-15	Email	alice@example	Team meeting	0.176413531	2.11696237
## 434	2023-08-14	Slack	@erin_tweets	Need assistance	0.141076977	2.11615465
## 435	2023-08-08	Slack	@erin_tweets	Fun weekend!	0.172925062	2.07510074
## 436	2023-08-17	Twitter	carol_slack	Fun weekend!	0.172285239	2.06742287
## 437	2023-08-01	Slack	@bob_tweets	Exciting news!	0.146396939	2.04955714
## 438	2023-08-03	Slack	alice@example	Need assistance	0.135939530	2.03909295
## 439	2023-08-17	Slack	carol_slack	Fun weekend!	0.169502832	2.03403399
## 440	2023-08-10	Twitter	@erin_tweets	Great work!	0.181200765	1.99320841
## 441	2023-08-06	Twitter	dave@example	Team meeting	0.165403601	1.98484321
## 442	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.163814227	1.96577073
## 443	2023-08-05	Twitter	carol_slack	Hello everyone!	0.130742100	1.96113150
## 444	2023-08-07	Slack	@bob_tweets	Great work!	0.170066014	1.87072615
## 445	2023-08-20	Twitter	@erin_tweets	Exciting news!	0.131818828	1.84546359
## 446	2023-08-18	Email	carol_slack	Need assistance	0.121493359	1.82240039



## 447	2023-08-12	Email	alice@example	Need assistance	0.120129855	1.80194782
## 448	2023-08-13	Twitter	alice@example	Need assistance	0.119616441	1.79424661
## 449	2023-08-19	Email	@erin_tweets	Fun weekend!	0.149510738	1.79412886
## 450	2023-08-11	Email	dave@example	Team meeting	0.146319367	1.75583241
## 451	2023-08-18	Twitter	@erin_tweets	Need assistance	0.116931847	1.75397770
## 452	2023-08-01	Twitter	@frank_chat	Great work!	0.159243134	1.75167448
## 453	2023-08-06	Twitter	@bob_tweets	Hello everyone!	0.116596443	1.74894664
## 454	2023-08-03	Twitter	@bob_tweets	Need assistance	0.115823371	1.73735056
## 455	2023-08-08	Email	@bob_tweets	Need assistance	0.115187556	1.72781333
## 456	2023-08-16	Twitter	@erin_tweets	Great work!	0.150156671	1.65172338
## 457	2023-08-02	Email	@frank_chat	Fun weekend!	0.129630754	1.55556905
## 458	2023-08-11	Twitter	dave@example	Fun weekend!	0.124404418	1.49285301
## 459	2023-08-16	Slack	@bob_tweets	Team meeting	0.120248223	1.44297867
## 460	2023-08-12	Email	dave@example	Need assistance	0.091942075	1.37913112
## 461	2023-08-05	Twitter	@bob_tweets	Need assistance	0.089429019	1.34143528
## 462	2023-08-04	Slack	carol_slack	Need assistance	0.088740259	1.33110389
## 463	2023-08-15	Email	@frank_chat	Great work!	0.120376800	1.32414480
## 464	2023-08-10	Slack	@erin_tweets	Need assistance	0.086844633	1.30266949
## 465	2023-08-08	Email	dave@example	Need assistance	0.084778340	1.27167510
## 466	2023-08-18	Twitter	@bob_tweets	Need assistance	0.083397951	1.25096926
## 467	2023-08-09	Twitter	alice@example	Need assistance	0.083300223	1.24950334
## 468	2023-08-03	Email	@erin_tweets	Team meeting	0.100578078	1.20693694
## 469	2023-08-08	Slack	@erin_tweets	Exciting news!	0.085280708	1.19392991
## 470	2023-08-07	Slack	@erin_tweets	Hello everyone!	0.079340591	1.19010886
## 471	2023-08-06	Email	carol_slack	Hello everyone!	0.076276061	1.14414092
## 472	2023-08-01	Slack	dave@example	Team meeting	0.093826082	1.12591298
## 473	2023-08-19	Email	dave@example	Team meeting	0.087382621	1.04859145
## 474	2023-08-20	Email	carol_slack	Team meeting	0.082343857	0.98812629
## 475	2023-08-05	Twitter	alice@example	Team meeting	0.082249742	0.98699691
## 476	2023-08-10	Email	@erin_tweets	Hello everyone!	0.063933458	0.95900187
## 477	2023-08-07	Email	@bob_tweets	Fun weekend!	0.079245736	0.95094884
## 478	2023-08-04	Email	@frank_chat	Need assistance	0.063336529	0.95004793
## 479	2023-08-20	Email	carol_slack	Team meeting	0.078007510	0.93609012
## 480	2023-08-11	Email	dave@example	Need assistance	0.060486035	0.90729052
## 481	2023-08-12	Email	alice@example	Exciting news!	0.063475272	0.88865381
## 482	2023-08-06	Slack	@erin_tweets	Exciting news!	0.063273371	0.88582719
## 483	2023-08-11	Slack	carol_slack	Exciting news!	0.062969209	0.88156892
## 484	2023-08-15	Slack	@frank_chat	Hello everyone!	0.058449768	0.87674651
## 485	2023-08-08	Slack	@erin_tweets	Team meeting	0.068864945	0.82637934
## 486	2023-08-10	Email	@frank_chat	Hello everyone!	0.051583528	0.77375292
## 487	2023-08-08	Slack	carol_slack	Exciting news!	0.055117640	0.77164696
## 488	2023-08-04	Twitter	@bob_tweets	Exciting news!	0.053784013	0.75297619
## 489	2023-08-18	Email	@frank_chat	Fun weekend!	0.061621126	0.73945352
## 490	2023-08-02	Slack	carol_slack	Great work!	0.066785066	0.73463573
## 491	2023-08-20	Email	alice@example	Great work!	0.062977130	0.69274843
## 492	2023-08-14	Email	alice@example	Need assistance	0.043240849	0.64861274
## 493	2023-08-13	Email	alice@example	Hello everyone!	0.042741961	0.64112941
## 494	2023-08-03	Twitter	carol_slack	Exciting news!	0.044649603	0.62509445
## 495	2023-08-14	Email	alice@example	Need assistance	0.041204039	0.61806059
## 496	2023-08-10	Slack	@erin_tweets	Need assistance	0.037588875	0.56383313
## 497	2023-08-06	Slack	alice@example	Need assistance	0.037042340	0.55563510
## 498	2023-08-02	Slack	carol_slack	Fun weekend!	0.045978463	0.55174155
## 499	2023-08-03	Twitter	carol_slack	Great work!	0.049291416	0.54220557
## 500	2023-08-12	Email	dave@example	Fun weekend!	0.043927317	0.52712780
## 501	2023-08-11	Slack	@bob_tweets	Great work!	0.041871845	0.46059029
## 502	2023-08-12	Twitter	@erin_tweets	Fun weekend!	0.038330505	0.45996606

## 503	2023-08-10	Twitter	carol_slack	Exciting news!	0.030849482	0.43189275
## 504	2023-08-14	Email	@erin_tweets	Fun weekend!	0.035476264	0.42571517
## 505	2023-08-19	Slack	@erin_tweets	Great work!	0.037533612	0.41286974
## 506	2023-08-10	Slack	@bob_tweets	Exciting news!	0.027252671	0.38153739
## 507	2023-08-01	Slack	@erin_tweets	Team meeting	0.031597136	0.37916563
## 508	2023-08-14	Twitter	alice@example	Team meeting	0.024089097	0.28906916
## 509	2023-08-09	Email	@erin_tweets	Exciting news!	0.020394353	0.28552094
## 510	2023-08-04	Email	@bob_tweets	Need assistance	0.017915569	0.26873354
## 511	2023-08-11	Twitter	dave@example	Exciting news!	0.018387399	0.25742358
## 512	2023-08-05	Slack	dave@example	Great work!	0.018169560	0.19986515
## 513	2023-08-06	Twitter	dave@example	Fun weekend!	0.005671109	0.06805330
## 514	2023-08-01	Twitter	@frank_chat	Need assistance	-0.003094339	-0.04641508
## 515	2023-08-18	Twitter	@frank_chat	Team meeting	-0.004460444	-0.05352532
## 516	2023-08-08	Email	alice@example	Exciting news!	-0.007040349	-0.09856489
## 517	2023-08-10	Email	@frank_chat	Exciting news!	-0.010767524	-0.15074534
## 518	2023-08-18	Twitter	dave@example	Team meeting	-0.012694929	-0.15233915
## 519	2023-08-09	Twitter	alice@example	Great work!	-0.013945965	-0.15340562
## 520	2023-08-07	Twitter	dave@example	Team meeting	-0.014527882	-0.17433458
## 521	2023-08-14	Twitter	@bob_tweets	Great work!	-0.018533767	-0.20387144
## 522	2023-08-16	Email	dave@example	Need assistance	-0.014521594	-0.21782391
## 523	2023-08-03	Email	@frank_chat	Great work!	-0.022698464	-0.24968310
## 524	2023-08-09	Email	@erin_tweets	Exciting news!	-0.018193701	-0.25471181
## 525	2023-08-05	Twitter	dave@example	Fun weekend!	-0.021554315	-0.25865178
## 526	2023-08-13	Twitter	alice@example	Great work!	-0.026141260	-0.28755386
## 527	2023-08-03	Twitter	dave@example	Team meeting	-0.024207670	-0.29049204
## 528	2023-08-08	Twitter	@bob_tweets	Team meeting	-0.024243061	-0.29091674
## 529	2023-08-01	Slack	@bob_tweets	Exciting news!	-0.024743940	-0.34641516
## 530	2023-08-18	Email	alice@example	Hello everyone!	-0.024430894	-0.36646341
## 531	2023-08-11	Email	alice@example	Fun weekend!	-0.034278538	-0.41134245
## 532	2023-08-16	Email	carol_slack	Hello everyone!	-0.029610693	-0.44416040
## 533	2023-08-11	Slack	@bob_tweets	Exciting news!	-0.033773244	-0.47282542
## 534	2023-08-16	Email	carol_slack	Great work!	-0.045373839	-0.49911223
## 535	2023-08-13	Twitter	dave@example	Fun weekend!	-0.042934414	-0.51521297
## 536	2023-08-17	Twitter	dave@example	Need assistance	-0.035525655	-0.53288483
## 537	2023-08-11	Email	@erin_tweets	Great work!	-0.049498704	-0.54448575
## 538	2023-08-17	Email	dave@example	Team meeting	-0.047711935	-0.57254322
## 539	2023-08-05	Twitter	@bob_tweets	Hello everyone!	-0.038818533	-0.58227800
## 540	2023-08-04	Slack	carol_slack	Fun weekend!	-0.049394990	-0.59273988
## 541	2023-08-19	Email	alice@example	Hello everyone!	-0.040838550	-0.61257825
## 542	2023-08-12	Email	@bob_tweets	Need assistance	-0.042491458	-0.63737187
## 543	2023-08-12	Slack	carol_slack	Need assistance	-0.044029484	-0.66044226
## 544	2023-08-09	Twitter	carol_slack	Fun weekend!	-0.056202481	-0.67442977
## 545	2023-08-08	Email	@frank_chat	Exciting news!	-0.050068120	-0.70095369
## 546	2023-08-10	Email	@bob_tweets	Team meeting	-0.060755176	-0.72906211
## 547	2023-08-06	Slack	@frank_chat	Hello everyone!	-0.050532605	-0.75798908
## 548	2023-08-08	Email	alice@example	Great work!	-0.068923920	-0.75816312
## 549	2023-08-14	Slack	@frank_chat	Exciting news!	-0.054910814	-0.76875139
## 550	2023-08-14	Twitter	dave@example	Fun weekend!	-0.064443091	-0.77331710
## 551	2023-08-18	Slack	@frank_chat	Great work!	-0.071027102	-0.78129812
## 552	2023-08-15	Twitter	carol_slack	Team meeting	-0.074092148	-0.88910578
## 553	2023-08-20	Email	dave@example	Team meeting	-0.075425136	-0.90510163
## 554	2023-08-06	Twitter	dave@example	Need assistance	-0.064178423	-0.96267635
## 555	2023-08-08	Email	@erin_tweets	Hello everyone!	-0.064463819	-0.96695728
## 556	2023-08-17	Twitter	carol_slack	Need assistance	-0.065970336	-0.98955503
## 557	2023-08-04	Email	@erin_tweets	Need assistance	-0.070094255	-1.05141382
## 558	2023-08-18	Slack	alice@example	Fun weekend!	-0.088887415	-1.06664898

## 559	2023-08-13	Email	@bob_tweets	Team meeting	-0.092784007	-1.11340808
## 560	2023-08-10	Slack	@bob_tweets	Hello everyone!	-0.075317414	-1.12976121
## 561	2023-08-05	Email	@frank_chat	Team meeting	-0.094959955	-1.13951946
## 562	2023-08-08	Twitter	@frank_chat	Hello everyone!	-0.081353148	-1.22029721
## 563	2023-08-12	Email	@frank_chat	Fun weekend!	-0.102208237	-1.22649885
## 564	2023-08-14	Email	alice@example	Great work!	-0.111933967	-1.23127363
## 565	2023-08-06	Slack	alice@example	Fun weekend!	-0.103599444	-1.24319333
## 566	2023-08-18	Slack	alice@example	Great work!	-0.114574431	-1.26031875
## 567	2023-08-19	Twitter	alice@example	Fun weekend!	-0.111042333	-1.33250799
## 568	2023-08-04	Slack	alice@example	Team meeting	-0.111247493	-1.33496992
## 569	2023-08-01	Slack	@frank_chat	Team meeting	-0.113114946	-1.35737935
## 570	2023-08-20	Twitter	dave@example	Great work!	-0.124954135	-1.37449549
## 571	2023-08-20	Slack	@bob_tweets	Team meeting	-0.118006961	-1.41608354
## 572	2023-08-14	Email	@erin_tweets	Great work!	-0.129584252	-1.42542677
## 573	2023-08-13	Slack	alice@example	Need assistance	-0.100954488	-1.51431733
## 574	2023-08-17	Twitter	carol_slack	Need assistance	-0.101536875	-1.52305313
## 575	2023-08-11	Twitter	@erin_tweets	Need assistance	-0.102778860	-1.54168291
## 576	2023-08-12	Email	@frank_chat	Need assistance	-0.104900640	-1.57350959
## 577	2023-08-16	Slack	@erin_tweets	Exciting news!	-0.113282133	-1.58594986
## 578	2023-08-18	Twitter	carol_slack	Need assistance	-0.107154121	-1.60731181
## 579	2023-08-18	Slack	@frank_chat	Team meeting	-0.134102609	-1.60923131
## 580	2023-08-20	Slack	@erin_tweets	Team meeting	-0.134665603	-1.61598723
## 581	2023-08-04	Email	@erin_tweets	Need assistance	-0.108376242	-1.62564363
## 582	2023-08-11	Slack	@frank_chat	Hello everyone!	-0.108963726	-1.63445589
## 583	2023-08-03	Slack	alice@example	Great work!	-0.150377708	-1.65415478
## 584	2023-08-15	Email	carol_slack	Fun weekend!	-0.141636565	-1.69963878
## 585	2023-08-04	Twitter	@bob_tweets	Exciting news!	-0.122806889	-1.71929645
## 586	2023-08-06	Slack	alice@example	Fun weekend!	-0.143456620	-1.72147944
## 587	2023-08-16	Slack	@frank_chat	Team meeting	-0.143542713	-1.72251255
## 588	2023-08-19	Twitter	dave@example	Need assistance	-0.115035673	-1.72553510
## 589	2023-08-02	Twitter	@frank_chat	Need assistance	-0.115179492	-1.72769238
## 590	2023-08-15	Twitter	@bob_tweets	Team meeting	-0.144443278	-1.73331933
## 591	2023-08-18	Twitter	dave@example	Great work!	-0.160749977	-1.76824975
## 592	2023-08-06	Twitter	@bob_tweets	Fun weekend!	-0.149422837	-1.79307404
## 593	2023-08-11	Twitter	alice@example	Hello everyone!	-0.120084892	-1.80127337
## 594	2023-08-07	Email	@bob_tweets	Team meeting	-0.150205611	-1.80246733
## 595	2023-08-06	Email	@bob_tweets	Fun weekend!	-0.159573650	-1.91488379
## 596	2023-08-05	Slack	@frank_chat	Need assistance	-0.129298556	-1.93947834
## 597	2023-08-01	Email	carol_slack	Need assistance	-0.130674560	-1.96011839
## 598	2023-08-16	Twitter	alice@example	Great work!	-0.179680133	-1.97648147
## 599	2023-08-16	Twitter	@bob_tweets	Exciting news!	-0.141741692	-1.98438369
## 600	2023-08-17	Email	dave@example	Fun weekend!	-0.173903828	-2.08684593
## 601	2023-08-10	Twitter	@frank_chat	Exciting news!	-0.149807401	-2.09730361
## 602	2023-08-01	Slack	dave@example	Team meeting	-0.176315426	-2.11578512
## 603	2023-08-15	Twitter	alice@example	Team meeting	-0.178657859	-2.14389431
## 604	2023-08-11	Slack	@frank_chat	Hello everyone!	-0.143450806	-2.15176209
## 605	2023-08-07	Email	@frank_chat	Hello everyone!	-0.143556185	-2.15334277
## 606	2023-08-17	Twitter	alice@example	Team meeting	-0.189370414	-2.27244497
## 607	2023-08-07	Slack	@bob_tweets	Hello everyone!	-0.160779689	-2.41169534
## 608	2023-08-03	Email	carol_slack	Need assistance	-0.161143415	-2.41715123
## 609	2023-08-04	Slack	@bob_tweets	Hello everyone!	-0.161284721	-2.41927081
## 610	2023-08-01	Slack	@frank_chat	Team meeting	-0.202094683	-2.42513620
## 611	2023-08-11	Slack	@frank_chat	Team meeting	-0.203160496	-2.43792596
## 612	2023-08-03	Email	@frank_chat	Great work!	-0.222633559	-2.44896915
## 613	2023-08-18	Slack	@bob_tweets	Hello everyone!	-0.164491392	-2.46737088
## 614	2023-08-20	Email	alice@example	Hello everyone!	-0.166448134	-2.49672201

## 615	2023-08-14	Twitter	alice@example	Great work!	-0.232635738	-2.55899312
## 616	2023-08-06	Email	@erin_tweets	Hello everyone!	-0.172054263	-2.58081394
## 617	2023-08-07	Email	dave@example	Exciting news!	-0.184577833	-2.58408966
## 618	2023-08-08	Twitter	alice@example	Great work!	-0.236779108	-2.60457019
## 619	2023-08-03	Slack	@erin_tweets	Need assistance	-0.173975688	-2.60963533
## 620	2023-08-15	Twitter	@erin_tweets	Great work!	-0.244326655	-2.68759321
## 621	2023-08-20	Email	@erin_tweets	Exciting news!	-0.195798854	-2.74118396
## 622	2023-08-17	Email	@frank_chat	Team meeting	-0.229243480	-2.75092176
## 623	2023-08-04	Email	@bob_tweets	Great work!	-0.251496902	-2.76646592
## 624	2023-08-17	Twitter	@frank_chat	Team meeting	-0.232014328	-2.78417194
## 625	2023-08-07	Email	@bob_tweets	Team meeting	-0.232356975	-2.78828370
## 626	2023-08-04	Email	alice@example	Exciting news!	-0.200843529	-2.81180940
## 627	2023-08-04	Slack	alice@example	Hello everyone!	-0.187917918	-2.81876877
## 628	2023-08-04	Email	@bob_tweets	Team meeting	-0.235653992	-2.82784790
## 629	2023-08-05	Slack	@erin_tweets	Fun weekend!	-0.240693055	-2.88831666
## 630	2023-08-16	Twitter	dave@example	Need assistance	-0.194268964	-2.91403446
## 631	2023-08-18	Twitter	dave@example	Exciting news!	-0.209318373	-2.93045722
## 632	2023-08-05	Slack	@erin_tweets	Need assistance	-0.195926677	-2.93890015
## 633	2023-08-10	Slack	@frank_chat	Need assistance	-0.198273231	-2.97409846
## 634	2023-08-02	Email	dave@example	Exciting news!	-0.212464974	-2.97450964
## 635	2023-08-19	Slack	alice@example	Team meeting	-0.249497572	-2.99397087
## 636	2023-08-14	Slack	@erin_tweets	Fun weekend!	-0.259928443	-3.11914132
## 637	2023-08-15	Slack	@bob_tweets	Team meeting	-0.271451744	-3.25742093
## 638	2023-08-04	Twitter	@erin_tweets	Hello everyone!	-0.217646003	-3.26469005
## 639	2023-08-12	Slack	@frank_chat	Hello everyone!	-0.219064676	-3.28597014
## 640	2023-08-14	Email	@erin_tweets	Need assistance	-0.220039924	-3.30059886
## 641	2023-08-17	Twitter	carol_slack	Exciting news!	-0.237763272	-3.32868581
## 642	2023-08-19	Twitter	dave@example	Team meeting	-0.284638313	-3.41565976
## 643	2023-08-07	Slack	@bob_tweets	Great work!	-0.311243319	-3.42367651
## 644	2023-08-12	Slack	dave@example	Fun weekend!	-0.285561244	-3.42673493
## 645	2023-08-01	Twitter	carol_slack	Great work!	-0.311684015	-3.42852416
## 646	2023-08-16	Twitter	dave@example	Fun weekend!	-0.286604216	-3.43925059
## 647	2023-08-16	Email	@frank_chat	Team meeting	-0.287118956	-3.44542747
## 648	2023-08-10	Twitter	@frank_chat	Team meeting	-0.289186294	-3.47023553
## 649	2023-08-04	Email	@frank_chat	Great work!	-0.317266905	-3.48993596
## 650	2023-08-06	Slack	carol_slack	Exciting news!	-0.249575844	-3.49406182
## 651	2023-08-10	Slack	alice@example	Need assistance	-0.236316590	-3.54474884
## 652	2023-08-19	Twitter	alice@example	Team meeting	-0.299451457	-3.59341749
## 653	2023-08-18	Email	@erin_tweets	Need assistance	-0.240649289	-3.60973934
## 654	2023-08-07	Email	alice@example	Great work!	-0.329095908	-3.62005498
## 655	2023-08-12	Email	@erin_tweets	Exciting news!	-0.260005387	-3.64007541
## 656	2023-08-11	Twitter	@frank_chat	Team meeting	-0.303564250	-3.64277100
## 657	2023-08-03	Twitter	@bob_tweets	Hello everyone!	-0.243440011	-3.65160016
## 658	2023-08-01	Email	@frank_chat	Team meeting	-0.307752223	-3.69302668
## 659	2023-08-19	Email	dave@example	Great work!	-0.336303487	-3.69933836
## 660	2023-08-16	Twitter	@erin_tweets	Exciting news!	-0.265161676	-3.71226346
## 661	2023-08-08	Email	@bob_tweets	Need assistance	-0.249764988	-3.74647482
## 662	2023-08-10	Email	@frank_chat	Team meeting	-0.320194449	-3.84233339
## 663	2023-08-05	Slack	carol_slack	Team meeting	-0.320228465	-3.84274158
## 664	2023-08-20	Twitter	@erin_tweets	Great work!	-0.349391197	-3.84330317
## 665	2023-08-16	Email	@bob_tweets	Great work!	-0.351176404	-3.86294045
## 666	2023-08-08	Twitter	alice@example	Fun weekend!	-0.329790550	-3.95748660
## 667	2023-08-07	Email	dave@example	Great work!	-0.359934055	-3.95927461
## 668	2023-08-15	Email	alice@example	Need assistance	-0.264464825	-3.96697238
## 669	2023-08-05	Email	@erin_tweets	Exciting news!	-0.283369262	-3.96716966
## 670	2023-08-10	Email	@bob_tweets	Exciting news!	-0.286527871	-4.01139019

## 671	2023-08-16	Slack	@erin_tweets	Exciting news!	-0.290788232	-4.07103525
## 672	2023-08-14	Twitter	dave@example	Need assistance	-0.273263505	-4.09895258
## 673	2023-08-03	Twitter	@erin_tweets	Fun weekend!	-0.345988781	-4.15186537
## 674	2023-08-14	Slack	dave@example	Exciting news!	-0.298691060	-4.18167484
## 675	2023-08-05	Twitter	carol_slack	Hello everyone!	-0.279889458	-4.19834187
## 676	2023-08-11	Twitter	@erin_tweets	Team meeting	-0.351081788	-4.21298146
## 677	2023-08-17	Slack	alice@example	Exciting news!	-0.301641050	-4.22297470
## 678	2023-08-02	Twitter	@bob_tweets	Need assistance	-0.281915764	-4.22873646
## 679	2023-08-05	Slack	@erin_tweets	Exciting news!	-0.302134784	-4.22988698
## 680	2023-08-06	Slack	@erin_tweets	Great work!	-0.387922954	-4.26715249
## 681	2023-08-01	Email	carol_slack	Great work!	-0.389590032	-4.28549035
## 682	2023-08-02	Email	dave@example	Fun weekend!	-0.357268680	-4.28722416
## 683	2023-08-07	Twitter	@bob_tweets	Great work!	-0.389785778	-4.28764356
## 684	2023-08-09	Slack	dave@example	Fun weekend!	-0.358376735	-4.30052082
## 685	2023-08-09	Slack	carol_slack	Hello everyone!	-0.289897254	-4.34845881
## 686	2023-08-10	Twitter	dave@example	Fun weekend!	-0.363247766	-4.35897319
## 687	2023-08-07	Twitter	alice@example	Team meeting	-0.365139902	-4.38167883
## 688	2023-08-06	Email	@bob_tweets	Great work!	-0.400677142	-4.40744856
## 689	2023-08-20	Twitter	@erin_tweets	Great work!	-0.404516522	-4.44968174
## 690	2023-08-19	Twitter	@frank_chat	Fun weekend!	-0.371842024	-4.46210429
## 691	2023-08-12	Twitter	@bob_tweets	Great work!	-0.405934577	-4.46528035
## 692	2023-08-09	Email	@frank_chat	Fun weekend!	-0.372473280	-4.46967936
## 693	2023-08-20	Email	@bob_tweets	Need assistance	-0.299717092	-4.49575639
## 694	2023-08-09	Email	@bob_tweets	Fun weekend!	-0.375794835	-4.50953802
## 695	2023-08-08	Slack	@erin_tweets	Great work!	-0.410223121	-4.51245433
## 696	2023-08-18	Email	alice@example	Team meeting	-0.377541550	-4.53049859
## 697	2023-08-06	Email	@bob_tweets	Great work!	-0.417041691	-4.58745860
## 698	2023-08-06	Twitter	carol_slack	Exciting news!	-0.329569053	-4.61396675
## 699	2023-08-06	Twitter	carol_slack	Team meeting	-0.385177557	-4.62213068
## 700	2023-08-05	Slack	@bob_tweets	Team meeting	-0.386754569	-4.64105483
## 701	2023-08-07	Twitter	@bob_tweets	Fun weekend!	-0.390309056	-4.68370868
## 702	2023-08-09	Twitter	alice@example	Fun weekend!	-0.391704335	-4.70045202
## 703	2023-08-10	Email	@bob_tweets	Need assistance	-0.316063035	-4.74094553
## 704	2023-08-06	Email	@erin_tweets	Hello everyone!	-0.318016798	-4.77025197
## 705	2023-08-16	Slack	carol_slack	Hello everyone!	-0.321912185	-4.82868277
## 706	2023-08-13	Slack	@bob_tweets	Great work!	-0.443448592	-4.87793451
## 707	2023-08-01	Twitter	@erin_tweets	Hello everyone!	-0.325806037	-4.88709056
## 708	2023-08-07	Email	@erin_tweets	Great work!	-0.446627778	-4.91290556
## 709	2023-08-12	Twitter	@erin_tweets	Need assistance	-0.329706852	-4.94560278
## 710	2023-08-13	Twitter	carol_slack	Fun weekend!	-0.412842807	-4.95411368
## 711	2023-08-04	Email	@erin_tweets	Fun weekend!	-0.415885320	-4.99062384
## 712	2023-08-17	Twitter	@erin_tweets	Fun weekend!	-0.417790642	-5.01348770
## 713	2023-08-20	Slack	alice@example	Great work!	-0.459148118	-5.05062930
## 714	2023-08-07	Email	@bob_tweets	Team meeting	-0.423585835	-5.08303002
## 715	2023-08-12	Twitter	dave@example	Great work!	-0.462906254	-5.09196879
## 716	2023-08-10	Twitter	@erin_tweets	Need assistance	-0.340010146	-5.10015219
## 717	2023-08-03	Email	@frank_chat	Need assistance	-0.345415825	-5.18123738
## 718	2023-08-20	Twitter	alice@example	Fun weekend!	-0.436848105	-5.24217726
## 719	2023-08-15	Slack	dave@example	Great work!	-0.481857921	-5.30043714
## 720	2023-08-07	Twitter	carol_slack	Hello everyone!	-0.355751095	-5.33626642
## 721	2023-08-07	Slack	@bob_tweets	Need assistance	-0.356371285	-5.34556928
## 722	2023-08-10	Slack	alice@example	Need assistance	-0.356432681	-5.34649022
## 723	2023-08-20	Slack	@erin_tweets	Hello everyone!	-0.357717138	-5.36575707
## 724	2023-08-03	Slack	dave@example	Great work!	-0.488912587	-5.37803846
## 725	2023-08-14	Email	dave@example	Hello everyone!	-0.359136123	-5.38704185
## 726	2023-08-12	Slack	@erin_tweets	Hello everyone!	-0.360894154	-5.41341231

## 727	2023-08-08	Slack	carol_slack	Exciting news!	-0.388513986	-5.43919581
## 728	2023-08-09	Twitter	dave@example	Great work!	-0.495721815	-5.45293997
## 729	2023-08-12	Twitter	carol_slack	Fun weekend!	-0.455487390	-5.46584868
## 730	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.369747002	-5.54620503
## 731	2023-08-10	Twitter	dave@example	Great work!	-0.505026447	-5.55529091
## 732	2023-08-01	Twitter	@frank_chat	Exciting news!	-0.398672424	-5.58141394
## 733	2023-08-17	Email	@bob_tweets	Team meeting	-0.467768930	-5.61322716
## 734	2023-08-16	Twitter	carol_slack	Need assistance	-0.375053814	-5.62580721
## 735	2023-08-19	Slack	@frank_chat	Team meeting	-0.472906698	-5.67488038
## 736	2023-08-19	Twitter	alice@example	Hello everyone!	-0.378329881	-5.67494822
## 737	2023-08-02	Slack	@erin_tweets	Fun weekend!	-0.474169046	-5.69002855
## 738	2023-08-14	Slack	@erin_tweets	Great work!	-0.518683678	-5.70552046
## 739	2023-08-20	Twitter	@frank_chat	Team meeting	-0.476500273	-5.71800328
## 740	2023-08-03	Twitter	@bob_tweets	Exciting news!	-0.408464086	-5.71849721
## 741	2023-08-14	Slack	@frank_chat	Need assistance	-0.384110797	-5.76166195
## 742	2023-08-19	Slack	dave@example	Great work!	-0.526421044	-5.79063148
## 743	2023-08-06	Twitter	@erin_tweets	Exciting news!	-0.415566467	-5.81793053
## 744	2023-08-02	Slack	alice@example	Fun weekend!	-0.485003887	-5.82004664
## 745	2023-08-20	Slack	alice@example	Exciting news!	-0.415822029	-5.82150840
## 746	2023-08-12	Email	carol_slack	Team meeting	-0.492082868	-5.90499442
## 747	2023-08-13	Slack	alice@example	Team meeting	-0.493501368	-5.92201642
## 748	2023-08-11	Email	@bob_tweets	Great work!	-0.539260621	-5.93186683
## 749	2023-08-18	Slack	@erin_tweets	Hello everyone!	-0.395961934	-5.93942901
## 750	2023-08-04	Twitter	dave@example	Fun weekend!	-0.495438306	-5.94525967
## 751	2023-08-10	Twitter	@erin_tweets	Fun weekend!	-0.496555788	-5.95866945
## 752	2023-08-06	Slack	alice@example	Great work!	-0.545365768	-5.99902345
## 753	2023-08-07	Twitter	@bob_tweets	Great work!	-0.548428072	-6.03270879
## 754	2023-08-11	Slack	@bob_tweets	Great work!	-0.549234209	-6.04157630
## 755	2023-08-06	Twitter	dave@example	Exciting news!	-0.433124611	-6.06374456
## 756	2023-08-07	Slack	@bob_tweets	Fun weekend!	-0.511013610	-6.13216332
## 757	2023-08-18	Twitter	@frank_chat	Exciting news!	-0.445320373	-6.23448522
## 758	2023-08-13	Slack	carol_slack	Hello everyone!	-0.416070993	-6.24106490
## 759	2023-08-10	Email	@frank_chat	Fun weekend!	-0.520876877	-6.25052253
## 760	2023-08-01	Twitter	@frank_chat	Team meeting	-0.526283488	-6.31540185
## 761	2023-08-20	Slack	carol_slack	Great work!	-0.574539005	-6.31992906
## 762	2023-08-10	Twitter	@frank_chat	Fun weekend!	-0.528116655	-6.33739986
## 763	2023-08-01	Twitter	@bob_tweets	Exciting news!	-0.452694423	-6.33772192
## 764	2023-08-19	Email	dave@example	Team meeting	-0.528815492	-6.34578590
## 765	2023-08-04	Slack	@frank_chat	Fun weekend!	-0.530567507	-6.36681008
## 766	2023-08-06	Email	carol_slack	Great work!	-0.579760317	-6.37736349
## 767	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.426096413	-6.39144620
## 768	2023-08-16	Twitter	@bob_tweets	Fun weekend!	-0.533522750	-6.40227300
## 769	2023-08-06	Slack	dave@example	Team meeting	-0.536957865	-6.44349438
## 770	2023-08-04	Email	@bob_tweets	Fun weekend!	-0.539049788	-6.46859746
## 771	2023-08-12	Twitter	carol_slack	Need assistance	-0.435741366	-6.53612049
## 772	2023-08-20	Slack	carol_slack	Great work!	-0.595158034	-6.54673837
## 773	2023-08-07	Twitter	@erin_tweets	Great work!	-0.597466531	-6.57213184
## 774	2023-08-06	Email	dave@example	Need assistance	-0.438415068	-6.57622602
## 775	2023-08-15	Email	@frank_chat	Need assistance	-0.438784983	-6.58177475
## 776	2023-08-06	Twitter	@bob_tweets	Team meeting	-0.549432104	-6.59318525
## 777	2023-08-03	Email	alice@example	Hello everyone!	-0.440484574	-6.60726860
## 778	2023-08-16	Email	@frank_chat	Fun weekend!	-0.552409418	-6.62891302
## 779	2023-08-20	Slack	dave@example	Exciting news!	-0.476039052	-6.66454673
## 780	2023-08-14	Email	@erin_tweets	Hello everyone!	-0.446434771	-6.69652157
## 781	2023-08-18	Email	@bob_tweets	Fun weekend!	-0.558283084	-6.69939701
## 782	2023-08-18	Slack	@bob_tweets	Fun weekend!	-0.558302570	-6.69963084

## 783	2023-08-06	Slack	@bob_tweets	Hello everyone!	-0.452905738	-6.79358607
## 784	2023-08-18	Slack	dave@example	Fun weekend!	-0.566594298	-6.79913158
## 785	2023-08-12	Twitter	alice@example	Exciting news!	-0.487793705	-6.82911187
## 786	2023-08-18	Email	@frank_chat	Fun weekend!	-0.569811309	-6.83773571
## 787	2023-08-16	Email	@bob_tweets	Need assistance	-0.459899545	-6.89849318
## 788	2023-08-15	Email	@erin_tweets	Fun weekend!	-0.576360519	-6.91632623
## 789	2023-08-08	Slack	@erin_tweets	Need assistance	-0.461871512	-6.92807268
## 790	2023-08-05	Twitter	alice@example	Great work!	-0.630844017	-6.93928418
## 791	2023-08-11	Twitter	@erin_tweets	Need assistance	-0.462980804	-6.94471205
## 792	2023-08-16	Email	@frank_chat	Fun weekend!	-0.584208118	-7.01049741
## 793	2023-08-17	Twitter	alice@example	Great work!	-0.641657173	-7.05822890
## 794	2023-08-07	Slack	@erin_tweets	Great work!	-0.643276188	-7.07603807
## 795	2023-08-14	Twitter	alice@example	Great work!	-0.652119522	-7.17331475
## 796	2023-08-17	Twitter	@frank_chat	Team meeting	-0.608078998	-7.29694798
## 797	2023-08-02	Slack	@bob_tweets	Great work!	-0.666475324	-7.33122857
## 798	2023-08-02	Twitter	@erin_tweets	Exciting news!	-0.525143623	-7.35201072
## 799	2023-08-17	Twitter	@bob_tweets	Need assistance	-0.493062959	-7.39594438
## 800	2023-08-16	Twitter	@bob_tweets	Great work!	-0.674055766	-7.41461343
## 801	2023-08-14	Slack	dave@example	Exciting news!	-0.531753783	-7.44455296
## 802	2023-08-19	Email	dave@example	Exciting news!	-0.533024813	-7.46234738
## 803	2023-08-17	Twitter	@frank_chat	Fun weekend!	-0.624432764	-7.49319317
## 804	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.537696546	-7.52775165
## 805	2023-08-09	Slack	alice@example	Exciting news!	-0.539138246	-7.54793544
## 806	2023-08-20	Twitter	dave@example	Exciting news!	-0.542942689	-7.60119764
## 807	2023-08-13	Email	@frank_chat	Great work!	-0.693289580	-7.62618538
## 808	2023-08-15	Slack	@frank_chat	Hello everyone!	-0.508614742	-7.62922113
## 809	2023-08-18	Email	carol_slack	Exciting news!	-0.546088908	-7.64524471
## 810	2023-08-15	Slack	dave@example	Hello everyone!	-0.510870771	-7.66306156
## 811	2023-08-11	Email	alice@example	Team meeting	-0.641849058	-7.70218869
## 812	2023-08-17	Slack	@frank_chat	Great work!	-0.700269639	-7.70296603
## 813	2023-08-11	Slack	@frank_chat	Team meeting	-0.642315470	-7.70778564
## 814	2023-08-13	Slack	@erin_tweets	Need assistance	-0.514785561	-7.72178342
## 815	2023-08-11	Slack	@erin_tweets	Great work!	-0.704862314	-7.75348546
## 816	2023-08-13	Twitter	@bob_tweets	Great work!	-0.705626460	-7.76189106
## 817	2023-08-07	Email	dave@example	Hello everyone!	-0.526591262	-7.89886893
## 818	2023-08-19	Slack	@erin_tweets	Great work!	-0.725357866	-7.97893653
## 819	2023-08-17	Twitter	@erin_tweets	Team meeting	-0.666378770	-7.99654525
## 820	2023-08-01	Email	@frank_chat	Team meeting	-0.670432338	-8.04518806
## 821	2023-08-14	Twitter	@frank_chat	Fun weekend!	-0.672147054	-8.06576465
## 822	2023-08-12	Slack	carol_slack	Great work!	-0.733910211	-8.07301232
## 823	2023-08-08	Twitter	@frank_chat	Fun weekend!	-0.673607849	-8.08329418
## 824	2023-08-16	Twitter	@erin_tweets	Team meeting	-0.674190784	-8.09028941
## 825	2023-08-11	Slack	@bob_tweets	Need assistance	-0.542398809	-8.13598214
## 826	2023-08-14	Twitter	@erin_tweets	Need assistance	-0.543064435	-8.14596653
## 827	2023-08-15	Slack	@frank_chat	Exciting news!	-0.582243779	-8.15141290
## 828	2023-08-13	Slack	@erin_tweets	Need assistance	-0.544543609	-8.16815414
## 829	2023-08-20	Twitter	@erin_tweets	Great work!	-0.743658878	-8.18024766
## 830	2023-08-11	Email	carol_slack	Need assistance	-0.547700667	-8.21551000
## 831	2023-08-11	Twitter	@bob_tweets	Great work!	-0.751736611	-8.26910272
## 832	2023-08-04	Twitter	alice@example	Fun weekend!	-0.693275109	-8.31930131
## 833	2023-08-20	Email	alice@example	Hello everyone!	-0.555095884	-8.32643827
## 834	2023-08-12	Email	@bob_tweets	Exciting news!	-0.597888714	-8.37044200
## 835	2023-08-19	Slack	@bob_tweets	Hello everyone!	-0.558468956	-8.37703433
## 836	2023-08-15	Slack	@erin_tweets	Hello everyone!	-0.562214842	-8.43322262
## 837	2023-08-04	Email	alice@example	Great work!	-0.769964864	-8.46961350
## 838	2023-08-15	Twitter	alice@example	Fun weekend!	-0.707901944	-8.49482333

## 839	2023-08-03	Twitter	alice@example	Hello everyone!	-0.567197050	-8.50795575
## 840	2023-08-14	Slack	@bob_tweets	Team meeting	-0.709024122	-8.50828946
## 841	2023-08-12	Twitter	@bob_tweets	Exciting news!	-0.608554570	-8.51976397
## 842	2023-08-08	Slack	@erin_tweets	Hello everyone!	-0.568787924	-8.53181886
## 843	2023-08-09	Email	@frank_chat	Team meeting	-0.712716471	-8.55259765
## 844	2023-08-03	Slack	carol_slack	Great work!	-0.777630202	-8.55393222
## 845	2023-08-01	Slack	@frank_chat	Hello everyone!	-0.572465386	-8.58698079
## 846	2023-08-04	Twitter	carol_slack	Exciting news!	-0.615862965	-8.62208151
## 847	2023-08-18	Slack	dave@example	Team meeting	-0.718652172	-8.62382607
## 848	2023-08-12	Email	alice@example	Exciting news!	-0.616592484	-8.63229478
## 849	2023-08-02	Email	alice@example	Great work!	-0.784876938	-8.63364631
## 850	2023-08-07	Email	@bob_tweets	Exciting news!	-0.616928389	-8.63699745
## 851	2023-08-13	Twitter	dave@example	Exciting news!	-0.618614707	-8.66060589
## 852	2023-08-18	Twitter	dave@example	Need assistance	-0.577738499	-8.66607749
## 853	2023-08-07	Email	dave@example	Fun weekend!	-0.735883705	-8.83060446
## 854	2023-08-06	Slack	carol_slack	Exciting news!	-0.633368273	-8.86715583
## 855	2023-08-13	Twitter	alice@example	Great work!	-0.806566573	-8.87223230
## 856	2023-08-15	Email	@erin_tweets	Hello everyone!	-0.598425182	-8.97637772
## 857	2023-08-09	Twitter	@erin_tweets	Need assistance	-0.600080754	-9.00121131
## 858	2023-08-03	Slack	@erin_tweets	Need assistance	-0.600851388	-9.01277082
## 859	2023-08-07	Twitter	@frank_chat	Great work!	-0.823533585	-9.05886944
## 860	2023-08-17	Twitter	alice@example	Hello everyone!	-0.605858998	-9.08788498
## 861	2023-08-19	Email	@erin_tweets	Team meeting	-0.757670477	-9.09204572
## 862	2023-08-17	Twitter	@erin_tweets	Hello everyone!	-0.606922586	-9.10383880
## 863	2023-08-15	Slack	carol_slack	Fun weekend!	-0.760701751	-9.12842101
## 864	2023-08-07	Slack	@bob_tweets	Need assistance	-0.611560303	-9.17340454
## 865	2023-08-12	Slack	@frank_chat	Need assistance	-0.611636332	-9.17454498
## 866	2023-08-18	Twitter	dave@example	Need assistance	-0.613432584	-9.20148876
## 867	2023-08-01	Slack	@bob_tweets	Need assistance	-0.614020258	-9.21030387
## 868	2023-08-07	Email	@bob_tweets	Team meeting	-0.767587414	-9.21104897
## 869	2023-08-18	Twitter	@bob_tweets	Great work!	-0.839583620	-9.23541982
## 870	2023-08-12	Email	dave@example	Great work!	-0.841218561	-9.25340417
## 871	2023-08-02	Slack	dave@example	Exciting news!	-0.662697271	-9.27776179
## 872	2023-08-16	Slack	@bob_tweets	Team meeting	-0.774452816	-9.29343379
## 873	2023-08-07	Slack	@erin_tweets	Team meeting	-0.780283807	-9.36340568
## 874	2023-08-17	Slack	alice@example	Great work!	-0.853163924	-9.38480316
## 875	2023-08-04	Twitter	dave@example	Team meeting	-0.785379849	-9.42455819
## 876	2023-08-12	Twitter	dave@example	Team meeting	-0.786887704	-9.44265245
## 877	2023-08-09	Email	@frank_chat	Fun weekend!	-0.789119672	-9.46943606
## 878	2023-08-19	Slack	dave@example	Team meeting	-0.789976987	-9.47972384
## 879	2023-08-09	Email	@frank_chat	Hello everyone!	-0.633588556	-9.50382834
## 880	2023-08-04	Twitter	dave@example	Need assistance	-0.635092593	-9.52638890
## 881	2023-08-01	Email	@frank_chat	Fun weekend!	-0.797102704	-9.56523244
## 882	2023-08-15	Twitter	carol_slack	Hello everyone!	-0.638266036	-9.57399054
## 883	2023-08-15	Twitter	@frank_chat	Need assistance	-0.639425840	-9.59138760
## 884	2023-08-11	Slack	alice@example	Fun weekend!	-0.799520459	-9.59424550
## 885	2023-08-07	Slack	alice@example	Exciting news!	-0.686074989	-9.60504984
## 886	2023-08-20	Email	@bob_tweets	Team meeting	-0.801527123	-9.61832548
## 887	2023-08-15	Email	@bob_tweets	Team meeting	-0.801572199	-9.61886638
## 888	2023-08-02	Twitter	carol_slack	Exciting news!	-0.693217811	-9.70504935
## 889	2023-08-14	Twitter	@erin_tweets	Hello everyone!	-0.647561021	-9.71341532
## 890	2023-08-03	Slack	@erin_tweets	Team meeting	-0.812502595	-9.75003114
## 891	2023-08-02	Slack	@erin_tweets	Great work!	-0.887057793	-9.75763572
## 892	2023-08-14	Email	@bob_tweets	Team meeting	-0.815906889	-9.79088267
## 893	2023-08-20	Twitter	dave@example	Fun weekend!	-0.818538250	-9.82245900
## 894	2023-08-19	Email	@erin_tweets	Team meeting	-0.823923888	-9.88708666



## 895	2023-08-03	Email	@erin_tweets	Great work!	-0.900102365	-9.90112602
## 896	2023-08-08	Email	alice@example	Hello everyone!	-0.666331347	-9.99497020
## 897	2023-08-14	Email	@erin_tweets	Fun weekend!	-0.835450725	-10.02540870
## 898	2023-08-14	Twitter	@frank_chat	Great work!	-0.912142744	-10.03357018
## 899	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.719712700	-10.07597780
## 900	2023-08-04	Slack	dave@example	Fun weekend!	-0.848228461	-10.17874153
## 901	2023-08-03	Twitter	@erin_tweets	Need assistance	-0.680233249	-10.20349873
## 902	2023-08-14	Slack	@erin_tweets	Exciting news!	-0.736287751	-10.30802851
## 903	2023-08-15	Slack	@erin_tweets	Hello everyone!	-0.689319659	-10.33979489
## 904	2023-08-14	Slack	alice@example	Hello everyone!	-0.691606675	-10.37410012
## 905	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.694118693	-10.41178040
## 906	2023-08-13	Slack	carol_slack	Great work!	-0.947211589	-10.41932748
## 907	2023-08-01	Email	dave@example	Great work!	-0.948017055	-10.42818761
## 908	2023-08-15	Email	carol_slack	Exciting news!	-0.745493084	-10.43690318
## 909	2023-08-01	Twitter	@frank_chat	Need assistance	-0.696885624	-10.45328437
## 910	2023-08-17	Email	@frank_chat	Great work!	-0.951084716	-10.46193188
## 911	2023-08-10	Slack	dave@example	Exciting news!	-0.750027833	-10.50038966
## 912	2023-08-13	Twitter	@erin_tweets	Great work!	-0.956337988	-10.51971787
## 913	2023-08-01	Slack	carol_slack	Fun weekend!	-0.877705400	-10.53246480
## 914	2023-08-13	Twitter	@frank_chat	Team meeting	-0.877922161	-10.53506594
## 915	2023-08-10	Twitter	dave@example	Team meeting	-0.879799920	-10.55759904
## 916	2023-08-19	Slack	@frank_chat	Team meeting	-0.887928675	-10.65514410
## 917	2023-08-10	Slack	dave@example	Exciting news!	-0.762122771	-10.66971880
## 918	2023-08-14	Twitter	@bob_tweets	Great work!	-0.970631612	-10.67694773
## 919	2023-08-12	Twitter	dave@example	Need assistance	-0.713639749	-10.70459624
## 920	2023-08-11	Slack	@erin_tweets	Team meeting	-0.893834382	-10.72601259
## 921	2023-08-06	Slack	@bob_tweets	Fun weekend!	-0.895003283	-10.74003940
## 922	2023-08-08	Twitter	@bob_tweets	Need assistance	-0.716619523	-10.74929284
## 923	2023-08-18	Email	dave@example	Exciting news!	-0.768564025	-10.75989636
## 924	2023-08-07	Slack	dave@example	Need assistance	-0.718395420	-10.77593130
## 925	2023-08-18	Slack	@bob_tweets	Fun weekend!	-0.898072343	-10.77686812
## 926	2023-08-17	Email	@frank_chat	Exciting news!	-0.770805090	-10.79127126
## 927	2023-08-09	Email	@bob_tweets	Hello everyone!	-0.725457437	-10.88186155
## 928	2023-08-09	Twitter	alice@example	Exciting news!	-0.792284821	-11.09198750
## 929	2023-08-10	Twitter	@frank_chat	Hello everyone!	-0.740855453	-11.11283179
## 930	2023-08-11	Twitter	@frank_chat	Fun weekend!	-0.926554946	-11.11865935
## 931	2023-08-13	Slack	alice@example	Team meeting	-0.927027794	-11.12433352
## 932	2023-08-06	Slack	@bob_tweets	Fun weekend!	-0.927836751	-11.13404101
## 933	2023-08-16	Email	@erin_tweets	Fun weekend!	-0.928850479	-11.14620575
## 934	2023-08-05	Twitter	@bob_tweets	Exciting news!	-0.798021044	-11.17229462
## 935	2023-08-16	Slack	@frank_chat	Team meeting	-0.933677876	-11.20413451
## 936	2023-08-10	Slack	dave@example	Team meeting	-0.934943126	-11.21931751
## 937	2023-08-14	Twitter	@frank_chat	Team meeting	-0.935610580	-11.22732696
## 938	2023-08-17	Slack	carol_slack	Need assistance	-0.750471560	-11.25707340
## 939	2023-08-10	Slack	alice@example	Team meeting	-0.939407335	-11.27288802
## 940	2023-08-18	Slack	@bob_tweets	Need assistance	-0.754348847	-11.31523270
## 941	2023-08-19	Email	@frank_chat	Team meeting	-0.943049938	-11.31659926
## 942	2023-08-15	Twitter	carol_slack	Hello everyone!	-0.761104998	-11.41657497
## 943	2023-08-04	Email	@bob_tweets	Fun weekend!	-0.953222217	-11.43866660
## 944	2023-08-11	Slack	@bob_tweets	Team meeting	-0.955364774	-11.46437728
## 945	2023-08-09	Email	@erin_tweets	Team meeting	-0.956999032	-11.48398839
## 946	2023-08-10	Slack	@erin_tweets	Need assistance	-0.766245456	-11.49368184
## 947	2023-08-13	Twitter	alice@example	Fun weekend!	-0.958858334	-11.50630001
## 948	2023-08-01	Twitter	@frank_chat	Exciting news!	-0.822780307	-11.51892430
## 949	2023-08-07	Slack	dave@example	Exciting news!	-0.823877914	-11.53429080
## 950	2023-08-18	Email	dave@example	Need assistance	-0.770186925	-11.55280388

```
## 951 2023-08-04 Twitter @bob_tweets Hello everyone! -0.774547359 -11.61821038
## 952 2023-08-08 Email @erin_tweets Need assistance -0.775436828 -11.63155242
## 953 2023-08-10 Email carol_slack Team meeting -0.970338997 -11.64406797
## 954 2023-08-10 Twitter @frank_chat Team meeting -0.976236885 -11.71484262
## 955 2023-08-08 Email @erin_tweets Exciting news! -0.847681918 -11.86754685
## 956 2023-08-20 Email @frank_chat Team meeting -0.993759494 -11.92511393
## 957 2023-08-14 Email @bob_tweets Team meeting -0.996662613 -11.95995136
## 958 2023-08-14 Slack alice@example Hello everyone! -0.798660460 -11.97990691
## 959 2023-08-14 Twitter dave@example Fun weekend! -0.998980226 -11.98776271
## 960 2023-08-16 Email alice@example Exciting news! -0.858994203 -12.02591884
## 961 2023-08-17 Twitter carol_slack Need assistance -0.806338225 -12.09507338
## 962 2023-08-08 Slack alice@example Hello everyone! -0.812013249 -12.18019874
## 963 2023-08-11 Slack @frank_chat Exciting news! -0.871460078 -12.20044109
## 964 2023-08-10 Slack @bob_tweets Exciting news! -0.873230109 -12.22522152
## 965 2023-08-10 Email alice@example Need assistance -0.815106571 -12.22659857
## 966 2023-08-16 Twitter carol_slack Exciting news! -0.875286373 -12.25400923
## 967 2023-08-05 Email alice@example Hello everyone! -0.822144668 -12.33217002
## 968 2023-08-14 Email dave@example Need assistance -0.829999507 -12.44999260
## 969 2023-08-13 Email dave@example Need assistance -0.834047724 -12.51071587
## 970 2023-08-17 Email @frank_chat Need assistance -0.837423526 -12.56135289
## 971 2023-08-11 Email alice@example Exciting news! -0.901918261 -12.62685565
## 972 2023-08-11 Slack dave@example Hello everyone! -0.843954970 -12.65932455
## 973 2023-08-07 Slack @bob_tweets Need assistance -0.846264025 -12.69396038
## 974 2023-08-16 Email carol_slack Hello everyone! -0.851052538 -12.76578807
## 975 2023-08-10 Email @frank_chat Need assistance -0.857863282 -12.86794923
## 976 2023-08-20 Slack alice@example Hello everyone! -0.863882122 -12.95823183
## 977 2023-08-13 Email carol_slack Exciting news! -0.930242309 -13.02339232
## 978 2023-08-16 Slack @frank_chat Hello everyone! -0.878399170 -13.17598754
## 979 2023-08-08 Slack @erin_tweets Need assistance -0.879413284 -13.19119926
## 980 2023-08-06 Twitter alice@example Hello everyone! -0.882707532 -13.24061299
## 981 2023-08-13 Twitter @bob_tweets Need assistance -0.883181106 -13.24771659
## 982 2023-08-14 Twitter alice@example Hello everyone! -0.892831107 -13.39246661
## 983 2023-08-03 Twitter alice@example Hello everyone! -0.893453151 -13.40179727
## 984 2023-08-10 Slack @erin_tweets Need assistance -0.904224418 -13.56336626
## 985 2023-08-18 Email carol_slack Exciting news! -0.978982675 -13.70575745
## 986 2023-08-10 Slack alice@example Need assistance -0.917325706 -13.75988559
## 987 2023-08-01 Twitter @bob_tweets Hello everyone! -0.918783627 -13.78175441
## 988 2023-08-12 Slack carol_slack Need assistance -0.919222645 -13.78833968
## 989 2023-08-14 Slack @frank_chat Need assistance -0.920249034 -13.80373551
## 990 2023-08-12 Email alice@example Exciting news! -0.995861550 -13.94206170
## 991 2023-08-09 Slack @erin_tweets Hello everyone! -0.932525445 -13.98788168
## 992 2023-08-18 Twitter alice@example Hello everyone! -0.936083395 -14.04125092
## 993 2023-08-13 Email @erin_tweets Hello everyone! -0.939573104 -14.09359656
## 994 2023-08-05 Slack @bob_tweets Hello everyone! -0.940684421 -14.11026632
## 995 2023-08-13 Slack dave@example Hello everyone! -0.945477226 -14.18215839
## 996 2023-08-01 Twitter @frank_chat Need assistance -0.970480603 -14.55720904
## 997 2023-08-06 Email dave@example Hello everyone! -0.987261285 -14.80891927
## 998 2023-08-01 Slack dave@example Need assistance -0.988749139 -14.83123708
## 999 2023-08-08 Email @frank_chat Need assistance -0.992002849 -14.88004273
## 1000 2023-08-08 Email dave@example Need assistance -0.998774239 -14.98161358
```

## Question-12: Daily Message Challenge

Use the `group_by`, `summarise`, and `arrange` commands to find the day with the highest total number of characters sent across all messages in the “`comm_data`” dataframe.

**Solution:**

```
# Enter code here
```

```
comm_data %>% group_by(date) %>%  
  summarise(total_characters = sum(nchar(message))) %>%  
  arrange(desc(total_characters)) %>%  
  head(1)
```

```
## # A tibble: 1 × 2  
##   date      total_characters  
##   <chr>          <int>  
## 1 2023-08-10           875
```

**Question-13: Untidy data**

Can you list at least two reasons why the dataset illustrated in slide 10 is non-tidy? How can it be made Tidy?

**Solution:** 1) "United states" could have its own column under country. 2) They could have created a column for males over 16 in examining the total population (males and females) over 16 years old.