Challenge-4

Tan Ee Xuan 2023-09-06

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")
library(tidyverse)</pre>
```

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 %>%
select(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	<pre>Hello everyone!</pre>
## 8	2023-08-04	Slack	<pre>Hello everyone!</pre>
## 9	2023-08-20	Email	Team meeting
## 10	2023-08-09	Slack	<pre>Hello everyone!</pre>
## 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		Need assistance
## 20	2023-08-06	Slack	<pre>Hello everyone!</pre>
## 21	2023-08-11	Twitter	Great work!
## 22	2023-08-12	Twitter	,
## 23	2023-08-12	Slack	
## 24	2023-08-11	Email	
## 25	2023-08-04	Email	Fun weekend!
## 26			Hello everyone!
## 27		Twitter	
## 28		Twitter	
## 29	2023-08-14		Great work!
## 30	2023-08-17		Team meeting
## 31			Need assistance
## 32	2023-08-15		Great work!
## 33			Need assistance
## 34 ## 35	2023-08-16		Great work!
	2023-08-10		
## 36 ## 37	2023-08-07 2023-08-02		,
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## 36 ## 39	2023-08-13	_	.
## 40	2023-08-05		-
## 41			Need assistance
## 41 ## 42	2023-08-19		Need assistance
## 43	2023-00-10		Need assistance
## 44	2023-08-06		
## 45	2023-08-06	Email	=
## 46	2023-08-18	Email	
## 47	2023-08-07		
## 48	2023-00-07		
## 49		Slack	
## 50	2023-08-02		=
## 51	2023-08-12		Need assistance
## 52			Need assistance
## 53	2023-08-13		Hello everyone!
## 54	2023-08-13		_

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## 55	2023-08-16	Slack	Team meeting
## 56	2023-08-13	Slack	Great work!
## 57	2023-08-07	Slack	Need assistance
## 58	2023-08-13	Twitter	Fun weekend!
## 59	2023-08-06	Twitter	<pre>Hello everyone!</pre>
## 60	2023-08-15	Slack	<pre>Hello everyone!</pre>
## 61	2023-08-17	Email	Team meeting
## 62	2023-08-12	Slack	Hello everyone!
## 63	2023-08-18	Twitter	Team meeting
## 64	2023-08-20	Twitter	Hello everyone!
## 65	2023-08-14	Twitter	Team meeting
## 66	2023-08-03	Email	Fun weekend!
## 67	2023-08-06	Slack	Hello everyone!
## 68	2023-08-14	Twitter	Exciting news!
## 69	2023-08-16	Email	Hello everyone!
## 70	2023-08-13	Twitter	Need assistance
## 71	2023-08-13	Email	Need assistance
## 72	2023-08-05	Slack	Need assistance
## 73	2023-08-12	Slack	Fun weekend!
## 74	2023-08-16	Slack	Hello everyone!
## 75	2023-08-10	Email	Team meeting
## 76	2023-08-12	Twitter	Great work!
## 77	2023-08-18	Email	Fun weekend!
## 78	2023-08-17	Email	Fun weekend!
## 79	2023-08-09	Email	Exciting news!
## 80	2023-08-10	Email	Great work!
## 81	2023-08-04	Twitter	Fun weekend!
## 82	2023-08-19	Email	Exciting news!
## 83	2023-08-04	Slack	Need assistance
## 84	2023-08-17	Slack	Exciting news!
## 85	2023-08-15	Twitter	Great work!
## 86	2023-08-15	Twitter	<pre>Hello everyone!</pre>
## 87	2023-08-03	Twitter	Exciting news!
## 88	2023-08-16	Email	Fun weekend!
## 89	2023-08-04	Slack	Fun weekend!
## 90	2023-08-15	Twitter	Team meeting
## 91	2023-08-07	Email	Great work!
## 92	2023-08-15	Twitter	Fun weekend!
## 93	2023-08-20	Email	<pre>Hello everyone!</pre>
## 94	2023-08-19	Email	Exciting news!
## 95	2023-08-07	Slack	Need assistance
## 96	2023-08-17	Email	Team meeting
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## 98	2023-08-19	Email	Team meeting
## 99	2023-08-16	Twitter	Exciting news!
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## 101	2023-08-10	Email	<pre>Hello everyone!</pre>
## 102	2023-08-17	Twitter	Exciting news!
## 103	2023-08-14	Email	Great work!
## 104	2023-08-08	Email	Need assistance
## 105	2023-08-03	Twitter	Need assistance
## 106	2023-08-14	Twitter	<pre>Hello everyone!</pre>
## 107	2023-08-20	Email	Exciting news!
## 108	2023-08-13	Twitter	Great work!
## 109	2023-08-06	Slack	<pre>Hello everyone!</pre>
## 110	2023-08-20	Slack	Great work!

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##	111	2023-08-20	Slack	Exciting news!
##	112	2023-08-11	Email	Fun weekend!
##	113	2023-08-09	Twitter	Great work!
##	114	2023-08-10	Slack	Team meeting
##	115	2023-08-16	Slack	Need assistance
##	116	2023-08-02	Slack	Fun weekend!
##	117	2023-08-14	Email	Team meeting
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##	124	2023-08-18		Need assistance
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##	133	2023-00-13	Twitter	
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##	160	2023-08-18		
	161			Exciting news!
	162	2023-08-17		
##	163			Need assistance
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	165			Team meeting
##	166	2023-08-04	Twitter	Need assistance

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##	167	2023-08-07	Email	Great work!
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##	176	2023-08-01	Twitter	Exciting news!
##	177	2023-08-07	Slack	Exciting news!
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##	190	2023-08-06	Email	Fun weekend!
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##	194	2023-08-01		Need assistance
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	217	2023-08-11		Need assistance
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##	222	2023-08-20	Slack	Exciting news!

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##	223	2023-08-16	Twitter	Great work!
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##	225	2023-08-11	Slack	Exciting news!
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##	235	2023-08-07	Slack	
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##	241	2023-08-16	Slack	Fun weekend!
##	241	2023-08-06	Slack	Great work!
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##	244	2023-08-13	Email	Exciting news!
##		2023-08-18		Need assistance
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##	248	2023-08-18	Email	Team meeting
##	249	2023-08-01	Slack	Team meeting
##	250	2023-08-05	Slack	Team meeting
##	251	2023-08-08		Need assistance
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## ## ## ##	256257258259	2023-08-10 2023-08-10 2023-08-11 2023-08-15 2023-08-20	Slack Slack Twitter Email Twitter	Great work! Team meeting Exciting news! Need assistance
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## ## ## ## ## ##	256 257 258 259 260 261 262	2023-08-10 2023-08-10 2023-08-11 2023-08-15 2023-08-20 2023-08-12 2023-08-20	Slack Slack Twitter Email Twitter Twitter Slack Twitter	Great work! Team meeting Exciting news! Need assistance Team meeting Hello everyone! Exciting news! Exciting news!
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## ## ## ## ## ##	256 257 258 259 260 261 262 263 264	2023-08-10 2023-08-11 2023-08-15 2023-08-20 2023-08-12 2023-08-20 2023-08-18 2023-08-14	Slack Slack Twitter Email Twitter Twitter Slack Twitter Twitter Twitter	Great work! Team meeting Exciting news! Need assistance Team meeting Hello everyone! Exciting news! Exciting news! Great work! Exciting news!
## ## ## ## ## ## ##	256 257 258 259 260 261 262 263 264 265	2023-08-10 2023-08-10 2023-08-11 2023-08-15 2023-08-20 2023-08-12 2023-08-20 2023-08-18 2023-08-14 2023-08-02	Slack Slack Twitter Email Twitter Twitter Slack Twitter Twitter Twitter Email	Great work! Team meeting Exciting news! Need assistance Team meeting Hello everyone! Exciting news! Exciting news! Great work! Exciting news! Team meeting
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## ## ## ## ## ## ##	256 257 258 259 260 261 262 263 264 265 266	2023-08-10 2023-08-10 2023-08-11 2023-08-15 2023-08-12 2023-08-12 2023-08-12 2023-08-14 2023-08-14 2023-08-19 2023-08-02	Slack Slack Twitter Email Twitter Twitter Slack Twitter Twitter Twitter Email Twitter Twitter	Great work! Team meeting Exciting news! Need assistance Team meeting Hello everyone! Exciting news! Exciting news! Great work! Exciting news! Team meeting Exciting news! Fun weekend!
## ## ## ## ## ## ##	256 257 258 259 260 261 262 263 264 265 266 267 268 269	2023-08-10 2023-08-10 2023-08-11 2023-08-15 2023-08-20 2023-08-12 2023-08-12 2023-08-20 2023-08-14 2023-08-02 2023-08-02 2023-08-02 2023-08-05	Slack Slack Twitter Email Twitter Twitter Slack Twitter Twitter Twitter Email Twitter Twitter Twitter	Great work! Team meeting Exciting news! Need assistance Team meeting Hello everyone! Exciting news! Exciting news! Great work! Exciting news! Team meeting Exciting news! Team meeting Exciting news! Fun weekend! Need assistance
## ## ## ## ## ## ## ##	256 257 258 259 260 261 262 263 264 265 266 267 268 269	2023-08-10 2023-08-10 2023-08-11 2023-08-15 2023-08-12 2023-08-12 2023-08-18 2023-08-18 2023-08-14 2023-08-14 2023-08-02 2023-08-19 2023-08-02 2023-08-05 2023-08-12	Slack Slack Twitter Email Twitter Twitter Slack Twitter Twitter Twitter Email Twitter Twitter Slack Slack	Great work! Team meeting Exciting news! Need assistance Team meeting Hello everyone! Exciting news! Exciting news! Great work! Exciting news! Team meeting Exciting news! Fun weekend! Need assistance Exciting news!
## ## ## ## ## ## ## ##	256 257 258 259 260 261 262 263 264 265 266 267 268 269 270	2023-08-10 2023-08-10 2023-08-11 2023-08-15 2023-08-20 2023-08-20 2023-08-12 2023-08-18 2023-08-14 2023-08-02 2023-08-02 2023-08-05 2023-08-05 2023-08-12 2023-08-19	Slack Slack Twitter Email Twitter Twitter Slack Twitter Twitter Twitter Email Twitter Twitter Slack Slack	Great work! Team meeting Exciting news! Need assistance Team meeting Hello everyone! Exciting news! Exciting news! Great work! Exciting news! Team meeting Exciting news! Fun weekend! Need assistance Exciting news! Great work!
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##	279	2023-08-14	Email	Fun weekend!
##	280	2023-08-04	Email	Great work!
##	281	2023-08-05	Slack	Need assistance
##	282	2023-08-06	Slack	Fun weekend!
##	283	2023-08-04	Email	Need assistance
##	284	2023-08-15	Slack	Exciting news!
##	285	2023-08-16	Slack	Hello everyone!
##	286	2023-08-03	Slack	Great work!
##	287	2023-08-18	Slack	Team meeting
##	288	2023-08-03	Twitter	Hello everyone!
##	289	2023-08-20	Twitter	Fun weekend!
##	290	2023-08-15	Twitter	Need assistance
##	291	2023-08-05	Twitter	Team meeting
##	292	2023-08-09	Slack	Team meeting
##	293	2023-08-04	Email	_
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##	299	2023-08-20	Email	Team meeting
##	300	2023-08-02	Twitter	Exciting news!
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##	302	2023-08-17	Twitter	Fun weekend!
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##	308	2023-00-05	Slack	Team meeting
##	309	2023-08-10	Twitter	Team meeting
	310	2023-08-06		=
	311	2023-08-08		Exciting news!
	312	2023-00-00		
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	314	2023-08-01	Email	=
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##		2023-08-03		Need assistance
	317	2023-08-04	Slack	Fun weekend!
	318	2023-00-04		Need assistance
##	319	2023-00-13	Slack	Fun weekend!
	320	2023-08-00		Hello everyone!
	321	2023-00-11		=
	322	2023-08-03	Slack	-
	323			
	323	2023-08-20		Exciting news! Fun weekend!
##	325 326	2023-08-13 2023-08-20	Email Slack	Exciting news! Fun weekend!
		2023-08-20		Hello everyone!
	327 328	2023-08-15		=
	328	2023-08-16		<u>-</u>
				_
	330	2023-08-16		-
	331	2023-08-19		Hello everyone!
	332	2023-08-14		<u>-</u>
	333	2023-08-07		
##	334	2023-08-01	rwitter	Exciting news!

9/2023	, 19:06			
##	335	2023-08-11	Twitter	Exciting news!
##	336	2023-08-18	Slack	Need assistance
##	337	2023-08-14	Email	Need assistance
##	338	2023-08-14	Email	Need assistance
##	339	2023-08-01	Slack	Fun weekend!
##	340	2023-08-12	Twitter	Team meeting
##	341	2023-08-04	Slack	Team meeting
##	342	2023-08-05	Email	Fun weekend!
##	343	2023-08-04	Email	Great work!
##	344	2023-08-08	Twitter	Hello everyone!
##	345	2023-08-07	Twitter	Exciting news!
##	346	2023-08-14	Slack	Hello everyone!
##	347	2023-08-04	Twitter	Fun weekend!
##	348	2023-08-04	Email	Fun weekend!
##	349	2023-08-18	Slack	Exciting news!
##	350	2023-08-01	Email	Need assistance
##	351	2023-08-10	Slack	Need assistance
##	352	2023-08-16	Twitter	Need assistance
##	353	2023-08-18	Email	Exciting news!
##	354	2023-08-14	Email	Need assistance
##	355	2023-08-14		Need assistance
##	356	2023-08-20	Twitter	Fun weekend!
##	357	2023-08-08	Email	Great work!
##	358	2023-08-19	Email	Great work!
##	359	2023-08-17	-	Hello everyone!
##	360	2023-08-07	Slack	Team meeting
##	361	2023-08-07		Need assistance
##	362	2023-08-01	Slack	Team meeting
##	363	2023-08-17	Slack	Great work!
##		2023-08-04	Slack	Need assistance
##	365	2023-08-08		Hello everyone!
	366			Fun weekend!
	367	2023-08-11	Twitter	Fun weekend!
	368	2023-08-19		Hello everyone!
##				Need assistance
##	370	2023-08-17	Email	Great work!
	371	2023-08-10	Email	
##		2023-08-12	Email	-
	373	2023-08-02	Email	=
	374	2023-08-18	Email	Fun weekend!
##	375	2023-08-14		Need assistance
	376	2023-08-08		Fun weekend!
	377	2023-08-18		
##				Need assistance
	379	2023-08-12	Email	
	380	2023-08-04	Email	-
##	381	2023-08-04		=
##				Hello everyone!
##	383	2023-08-10		Exciting news!
##	384	2023-00-10	Twitter	=
	385	2023-08-16	Email	•
##	386	2023-00-10	Slack	Fun weekend!
	387	2023-08-12		
##		2023-00-11	Email	
	389	2023-08-15		Great work!
	390	2023-00-13		
$\pi\pi$			$\nu_{\perp}u_{\Gamma}v$	

9/2023	6, 19:06			
##	391	2023-08-08	Slack	Need assistance
##	392	2023-08-07	Twitter	Great work!
##	393	2023-08-16	Email	Fun weekend!
##	394	2023-08-14	Slack	Exciting news!
##	395	2023-08-02	Slack	Fun weekend!
##	396	2023-08-03	Email	Great work!
##	397	2023-08-19	Twitter	Fun weekend!
##	398	2023-08-18	Twitter	Team meeting
##	399	2023-08-12	Twitter	Team meeting
##	400	2023-08-02	Email	Fun weekend!
##	401	2023-08-14	Slack	Need assistance
##	402	2023-08-15	Twitter	Need assistance
##	403	2023-08-11	Slack	Need assistance
##	404	2023-08-18	Slack	Fun weekend!
##	405	2023-08-19	Twitter	Team meeting
##	406	2023-08-19	Email	Fun weekend!
##	407	2023-08-07	Email	Team meeting
##	408	2023-08-05	Email	Hello everyone!
##	409	2023-08-10	Email	Great work!
##	410	2023-08-02	Twitter	Great work!
##	411	2023-08-18	Twitter	Need assistance
##	412	2023-08-15		Need assistance
##	413	2023-08-06	Email	
##	414	2023-08-20	Email	Team meeting
##	415	2023-08-10	Slack	_
##	416	2023-08-11	Email	
##	417	2023-08-14	Slack	Fun weekend!
##	418	2023-08-20	Slack	
##	419		Twitter	=
##	420	2023-08-06	Slack	Great work!
##	421	2023-08-12		Need assistance
	422			Fun weekend!
	423			
	424	2023-08-02		
	425			Team meeting
	426	2023-08-09		Fun weekend!
	427			Hello everyone!
	428			Need assistance
	429	2023-00-14		Fun weekend!
	430	2023-08-16		
##	431			Hello everyone!
	432	2023-08-01		Great work!
	433	2023-08-10		
	434			Need assistance
	435	2023-00-04		Great work!
	436	2023-00-20		
##	437		Slack	
	438	2023-08-10	Email	-
	439	2023-08-09		
	440	2023-08-07		_
	441	2023-08-07	Email	
	441	2023-08-04	Email	
	442			
	444			Hello everyone!
	444			Hello everyone:
	445			Great work!
##	440	2023-08-14	rwitter	Great Work!

9/2023	5, 19:06			
##	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	
##	471	2023-08-10	Twitter	Great work!
##	472	2023-08-18	Twitter	
##	473	2023-08-20	Twitter	Team meeting
##	474	2023-08-13	Twitter	_
##	475	2023-08-20		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	
##	480	2023-08-05	Email	Team meeting
##	481	2023-08-08	Twitter	=
##	482	2023-08-18		Need assistance
##	483	2023-08-17	Slack	Need assistance
##	484	2023-08-07	Email	
##	485	2023-08-16	Twitter	Hello everyone!
##	486	2023-08-05		Need assistance
##	487	2023-08-03	Twitter	Fun weekend!
##	488	2023-08-02	Email	Great work!
##	489	2023-08-13	Slack	
##	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		Hello everyone!
##	495	2023-08-04		Hello everyone!
##	496	2023-08-16	Twitter	Team meeting
##	497	2023-08-11		Need assistance
##	498	2023-08-15		Hello everyone!
##	499	2023-08-20	Email	-
##	500	2023-08-06	Slack	Team meeting
##	501	2023-08-05		=
	502	2023-08-07	Slack	-
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9/2023	, 19:06			
##	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	<pre>Hello everyone!</pre>
##	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		-	Need assistance
	522	2023-08-19	Twitter	Team meeting
	523	2023-08-12	Slack	
	524	2023-08-17	Email	_
	525	2023-08-07	Email	Team meeting
	526	2023-08-16		Hello everyone!
##	527	2023-08-08		=
	528	2023-08-07	Email	
	529	2023-08-01		Hello everyone!
	530	2023-00-01	Email	Great work!
	531	2023-08-11	Slack	Great work!
	532	2023-08-04		
##	533	2023-00-04	Email	Great work!
##				Fun weekend!
	535	2023-08-03		Need assistance
	536	2023-00-03	Email	Fun weekend!
##		2023-08-09	Email	
	538	2023-08-08	Email	Great work!
	539	2023-08-08	Slack	
	540	2023-00-14	Email	Great work!
	541	2023-08-19		Need assistance
	542	2023-08-12	Slack	
##	543	2023-08-11		,
	544	2023-08-14		Exciting news! Need assistance
	545	2023-08-10		
				Hello everyone!
	546			-
	547			Hello everyone!
	548	2023-08-08		Need assistance
	549 550	2023-08-04		Hello everyone!
	550			Team meeting
	551	2023-08-13		Great work!
	552	2023-08-15	Email	
	553	2023-08-08		
	554	2023-08-15	Slack	Team meeting
	555	2023-08-08		Need assistance
	556	2023-08-10		_
	557	2023-08-18	Slack	_
##	558	2023-08-20	Twitter	Fun weekend!

9/2023	, 19:06			
##	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	-
##	564	2023-08-20	Twitter	_
##	565	2023-08-04	Slack	=
##	566	2023-08-20	Slack	Team meeting
##	567	2023-08-04		Need assistance
##	568	2023-08-18	Twitter	Fun weekend!
	569	2023-08-01		Hello everyone!
	570	2023-08-17	Twitter	-
##	571	2023-08-12	Slack	-
	572	2023-08-18	Twitter	Team meeting
	573	2023-00-10	Email	_
##	574	2023-08-10	Email	_
	575			_
		2023-08-20		
	576			Need assistance
##	577	2023-08-14	Twitter	
	578	2023-08-13	Email	
##	579	2023-08-14	Twitter	Team meeting
##	580	2023-08-17	Twitter	-
	581	2023-08-03		Hello everyone!
##	582	2023-08-07	Twitter	Great work!
##	583	2023-08-15	Twitter	<pre>Hello everyone!</pre>
##	584	2023-08-15	Email	Team meeting
##	585	2023-08-10	Email	<pre>Hello everyone!</pre>
##	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	<pre>Hello everyone!</pre>
##	590	2023-08-16	Slack	Fun weekend!
##	591	2023-08-14	Email	<pre>Hello everyone!</pre>
##	592	2023-08-04	Twitter	Fun weekend!
##	593	2023-08-20	Slack	Great work!
##	594	2023-08-07	Email	<pre>Hello everyone!</pre>
##	595	2023-08-02	Twitter	<pre>Hello everyone!</pre>
##	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	-
	603	2023-08-07		
##	604	2023-08-15		Need assistance
##	605			Need assistance
##	606	2023-08-18		Need assistance
##	607	2023-00-10	Email	
##	608	2023-08-17		Need assistance
##	609	2023-08-17	Email	Team meeting
##	610			Need assistance
##	611	2023-08-12		Great work!
##	612	2023-08-13		Great work!
##	613			Hello everyone!
##	614	2023-08-02	Twitter	Hello everyone!

9/2023	6, 19:06			
##	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	_
##	634	2023-08-15	Twitter	Fun weekend!
##	635	2023-08-14	Email	
##	636	2023-08-13	Email	
##	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		Slack	Fun weekend!
##	645	2023-08-06	Twitter	Fun weekend!
	646			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		Great work!
##	652		Twitter	Great work!
##	653		Twitter	Great work!
##	654	2023-08-08	Twitter	Team meeting
##	655	2023-08-14	Email	Fun weekend!
##	656	2023-08-03	Slack	
##	657	2023-08-15	Slack	Fun weekend!
##	658	2023-08-14		Hello everyone!
##	659	2023-08-05	Email	Fun weekend!
##	660	2023-08-18	Slack	Fun weekend!
##	661	2023-08-19	Twitter	
##	662	2023-08-15	Twitter	Team meeting
##	663	2023-08-01		Hello everyone!
##	664	2023-00-01	Twitter	Team meeting
##	665	2023-00-15		Hello everyone!
##	666	2023-00-00		Hello everyone!
##	667	2023-08-07	Email	Team meeting
##	668		Twitter	Great work!
##	669	2023-08-02	TWITTER	Need assistance
## ##	669 670	2023-08-02 2023-08-08		Need assistance Hello everyone!

19/2023	, 19:06			
##	671	2023-08-02	Slack	<pre>Hello everyone!</pre>
##	672	2023-08-10	Email	Team meeting
##	673	2023-08-14	Slack	<pre>Hello everyone!</pre>
##	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		Hello everyone!
##	686	2023-08-02		Need assistance
##	687			Team meeting
##	688	2023-08-09	Email	Team meeting
##	689	2023-08-12	Twitter	_
##	690	2023-08-06		Hello everyone!
##	691	2023-08-08	Twitter	Fun weekend!
##	692	2023-08-10	Twitter	
##	693			Need assistance
##	694	2023-08-03		Great work!
##	695	2023 00 05		
##	696	2023-08-16	Slack	Team meeting
##	697	2023-00-16		Hello everyone!
##	698	2023-08-11	Slack	=
##	699	2023-00-11	Slack	Great work!
##	700	2023-08-07	Email	
##	701	2023-00-12		Hello everyone!
	701	2023-08-09		Fun weekend!
	702			Need assistance
##	703			Great work!
		2023-08-17		
##	705			Great work!
##	706	2023-08-13		Need assistance
	707			Exciting news!
##	708	2023-08-10		
	709			Exciting news!
##	710			Exciting news!
##	711			Hello everyone!
##	712	2023-08-14		•
	713	2023-08-05		
##	714			Exciting news!
	715			Hello everyone!
	716	2023-08-08		
##	717			Need assistance
	718			Exciting news!
	719			Exciting news!
##	720			Hello everyone!
	721	2023-08-08		Fun weekend!
##	722	2023-08-03		
##	723	2023-08-14		Great work!
	724	2023-08-06		
	725			
##	726	2023-08-03	Slack	Need assistance

9/2023	, 19:06			
##	727	2023-08-12	Email	Fun weekend!
##	728	2023-08-15	Email	Need assistance
##	729	2023-08-14	Slack	<pre>Hello everyone!</pre>
##	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		Slack	_
##	744	2023-08-18	Slack	-
##	745	2023-08-07		Great work!
##	746	2023-08-13	Email	
##	747	2023-08-11	-	
##	748	2023-08-14	Email	-
##	749			Need assistance
##	750	2023-08-19	Twitter	Team meeting
##	751	2023-00-13		Need assistance
##	752	2023-00-14	Email	Great work!
##	753	2023-00-13		Hello everyone!
##	754	2023-08-15	Twitter	-
##	755	2023-00-13		Need assistance
	756	2023-08-01	Slack	Fun weekend!
##	757			Need assistance
##	758			Team meeting
	759			_
		2023-08-08	Email	Hello everyone!
##	760 761	2023-08-01	-	Team meeting
##		2023-08-05	Slack Email	
##	762	2023-08-02		
##	763	2023-08-08	Slack	-
##	764	2023-08-11		
	765	2023-08-12	Email	-
##	766		Slack	
##	767		Email	
##	768	2023-08-08		-
##	769			Hello everyone!
##	770	2023-08-10	Slack	_
	771	2023-08-12		_
	772			Hello everyone!
##	773	2023-08-10	Twitter	Great work!
##	774	2023-08-09		Hello everyone!
##	775	2023-08-01	Twitter	
##	776	2023-08-15	Slack	
##				Hello everyone!
##	778			Exciting news!
##	779	2023-08-16		Great work!
##	780	2023-08-07		Hello everyone!
	781			Need assistance
##	782	2023-08-15	Slack	Hello everyone!

9/2023	, 19:06			
##	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	. -
##	795	2023-08-19	Twitter	
##	796	2023-08-19	Twitter	
##	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	-
##	802	2023-08-09	Slack	Fun weekend!
##	803	2023-08-17	Slack	Great work!
##	804	2023-00-17		Hello everyone!
##	805	2023-08-06	Slack	Exciting news!
##	806	2023-08-00	Slack	_
				Team meeting
## ##	807	2023-08-17 2023-08-10	Twitter	Team meeting
	808			Hello everyone!
##	809	2023-08-12	Twitter	Fun weekend!
##	810	2023-08-18	Slack	Great work!
##	811	2023-08-17		Need assistance
##	812	2023-08-10		-
##	813	2023-08-12	Email	Exciting news!
	814	2023-08-04		Need assistance
	815	2023-08-13		Exciting news!
##	816	2023-08-04	Email	Fun weekend!
##	817	2023-08-09	Email	Fun weekend!
##	818	2023-08-11		Hello everyone!
##	819	2023-08-08		Hello everyone!
##	820	2023-08-11	Email	-
##	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	<pre>Hello everyone!</pre>
##	827	2023-08-12	Email	Team meeting
##	828	2023-08-03	Slack	Need assistance
##	829	2023-08-07	Slack	<pre>Hello everyone!</pre>
##	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		Team meeting
##	837	2023-08-10	Twitter	Great work!
##	838	2023-08-18	Slack	Fun weekend!

9/2023	, 19:06			
##	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	
##	845	2023-08-14	Twitter	Great work!
##	846	2023-08-10	Email	
##	847	2023-08-10	Twitter	,
##	848	2023-08-07	Twitter	Great work!
##	849	2023-08-03		Hello everyone!
##	850	2023-08-08		Need assistance
##	851	2023-08-16	Slack	Exciting news!
##	852	2023-00-10		Need assistance
##	853	2023-08-12	Email	
##	854		Email	Fun weekend! Great work!
		2023-08-19	-	
##	855	2023-08-19	Email	- · · · · · · · · · · · · · · · · · · ·
##	856	2023-08-05		Hello everyone!
##	857	2023-08-05	Twitter	-
##	858	2023-08-12	Twitter	Fun weekend!
##	859	2023-08-03		Hello everyone!
##	860	2023-08-19	Twitter	-
##	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		Great work!
##	876	2023-08-14	Twitter	Great work!
##	877	2023-08-01	Twitter	Exciting news!
##	878	2023-08-05		Need assistance
##	879	2023-08-14	Slack	Hello everyone!
##	880	2023-08-07		-
##	881	2023-08-12		Need assistance
##	882			Hello everyone!
	883	2023-08-07		
##	884	2023-08-05		
##	885	2023-00-03	Email	
##	886	2023-08-14		Hello everyone!
##	887	2023-08-16	Email	Great work!
##	888			Need assistance
##	889	2023-08-13		Need assistance
##	890	2023-08-01	Twitter	Great work!
##	891	2023-08-09	Email	
##	892	2023-08-19		
##	893	2023-08-19		Team meeting
##	894	2023-08-06	Slack	Need assistance

9/2023	, 19:06			
##	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	-
##	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			Need assistance
##	912	2023-08-10	Twitter	Fun weekend!
##	913	2023-08-20	Twitter	Great work!
##	914	2023-08-10		Need assistance
##	915	2023-08-02	Slack	Fun weekend!
##	916	2023-08-09	Email	Fun weekend!
##	917	2023-08-10	-	Need assistance
##	918	2023-08-13		Hello everyone!
##	919	2023-00-15	Slack	Fun weekend!
##	920	2023-08-20	Email	Team meeting
##	921	2023-00-20	Twitter	Great work!
##	922	2023-00-13	Slack	Fun weekend!
##	923			Need assistance
	923	2023-08-12		Exciting news!
##	925	2023-00-17	Slack	Great work!
	926	2023-08-10		
	927			Great work!
##	928			Need assistance
##	929	2023-08-10		Need assistance
	930			
	931	2023-08-18	Email	Hello everyone! Great work!
##	932	2023-08-01	Email	
	933		-	Need assistance
	934			Hello everyone!
##	935	2023-08-20	Email	Team meeting
##	936	2023-08-17		-
	937	2023-00-13		-
##	938	2023-08-13		
	939	2023-08-04		Need assistance
	940			Need assistance
##		2023-00-17	Twitter	
	941 942	2023-08-06	Slack	_
	942	2023-08-01		_
	943	2023-08-08	Twitter	Exciting news!
	944	2023-08-13	Slack	
		2023-08-08		_
	946			Hello everyone!
	947			Hello everyone!
##	948			Need assistance
	949	2023-08-02		Exciting news!
##	950	2023-08-11	rma11	Need assistance

```
## 951
                      Slack
        2023-08-11
                                 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
                      Email
        2023-08-13
                               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
comm_data %>%
  filter(channel == "Twitter", date == "2023-08-02")
```

```
##
           date channel
                               sender
                                             message sentiment
     2023-08-02 Twitter alice@example
## 1
                                        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
```

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
comm_data %>%
arrange(date)
```

- /							
	##		date	channel	sender	message	sentiment
	##	1				Need assistance	
	##		2023-08-01		_	Need assistance	
	##		2023-08-01		_	Need assistance	
	##		2023-08-01	Twitter	efrank chat		
	##		2023-08-01		@frank_chat	=	-0.202094683
	##	6	2023-08-01	Slack	ebob tweets	_	0.146396939
	##	7	2023-08-01	Slack	_ @erin tweets	-	0.244422906
	##	8	2023-08-01	Twitter	@frank_chat	Team meeting	-0.526283488
	##	9	2023-08-01	Twitter	efrank chat	Exciting news!	-0.398672424
	##	10	2023-08-01	Slack	efrank_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	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	-0.918783627
	##	21	2023-08-01	Twitter	@erin_tweets	<pre>Hello everyone!</pre>	0.524320859
	##	22	2023-08-01	Twitter	dave@example	<pre>Hello everyone!</pre>	0.530999278
	##	23	2023-08-01	Slack	@erin_tweets	Team meeting	0.031597136
	##	24	2023-08-01	Slack	<pre>@bob_tweets</pre>	Exciting news!	-0.024743940
	##	_	2023-08-01	Email	@frank_chat		
	##	26	2023-08-01	Twitter	carol_slack		0.406890230
	##		2023-08-01	Email	_	Hello everyone!	
	##		2023-08-01	Slack	_	Hello everyone!	
	##		2023-08-01		_	Need assistance	
	##		2023-08-01	Slack	@frank_chat	_	
	##		2023-08-01		@bob_tweets	_	
	##		2023-08-01		_	Hello everyone!	
	##		2023-08-01		@frank_chat		0.159243134
	##		2023-08-01	Slack	_	Need assistance	
	##		2023-08-01		-	Exciting news!	
	##		2023-08-01 2023-08-01	Email	carol_slack		0.605523043
	##				_	Great work!	
	## ##		2023-08-01 2023-08-01	Email	@frank_chat	Team meeting Great work!	
	##		2023-08-01		_	Need assistance	
	##		2023-08-01	Email	carol slack		-0.389590032
	##		2023-08-01		alice@example		
	##		2023-08-01		=	Need assistance	
	##		2023-08-01		_	Need assistance	
	##		2023-08-01		@erin tweets		
	##		2023-08-02		_	Great work!	
	##				alice@example	Team meeting	
	##		2023-08-02	Slack	_	=	-0.474169046
	##		2023-08-02		@erin_tweets	Exciting news!	
	##		2023-08-02	Slack	_	Exciting news!	
	##		2023-08-02		_	Exciting news!	
	##	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

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	##	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	<pre>Hello everyone!</pre>	0.450987421
	##	63	2023-08-02	Slack	<pre>@bob_tweets</pre>	Exciting news!	0.365244868
	##	64	2023-08-02	Twitter	carol_slack	<pre>Hello everyone!</pre>	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	<pre>Hello everyone!</pre>	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	<pre>@bob_tweets</pre>	Need assistance	-0.281915764
	##	71	2023-08-02	Email	<pre>@frank_chat</pre>	Fun weekend!	0.129630754
	##	72	2023-08-02	Slack	carol_slack		0.066785066
	##	73	2023-08-02	Slack	carol_slack		0.045978463
	##		2023-08-02	Slack	<pre>@bob_tweets</pre>		-0.666475324
	##	75	2023-08-02	Slack	dave@example	Exciting news!	-0.662697271
	##		2023-08-02	Slack	@erin_tweets		-0.887057793
	##		2023-08-02	Twitter	_	Need assistance	
		78	2023-08-03	Email	@erin_tweets		0.924321534
	##		2023-08-03		@bob_tweets	Exciting news!	
	##		2023-08-03		-	Need assistance	
	##				=	Hello everyone!	
	##		2023-08-03		_	Exciting news!	0.044649603
	##		2023-08-03		_	Hello everyone!	
	##		2023-08-03	Email	_	Hello everyone!	0.575844854
	##		2023-08-03		dave@example	_	
	##		2023-08-03	Email	@erin_tweets	Team meeting	0.100578078
	##		2023-08-03		_	Need assistance	
	##		2023-08-03		carol_slack		
	##		2023-08-03		carol_slack		0.049291416
	##		2023-08-03 2023-08-03		alice@example	Hello everyone!	-0.150377708
	##		2023-08-03	Slack	dave@example	=	-0.488912587
	##				-	Hello everyone!	
	##		2023-08-03	Email		Need assistance	
	##		2023-00-03	Email	@erin tweets		-0.900102365
	##			-	-	Hello everyone!	
	##		2023-08-03		@erin tweets	_	
	##		2023-08-03	Email	_	Need assistance	
	##		2023-08-03	Email	_	Hello everyone!	
		100			-	Need assistance	
		101	2023-08-03	Slack	@erin tweets		-0.812502595
	##	102	2023-08-03	Slack	efrank chat	_	
		103	2023-08-03	Slack	-	_	-0.777630202
	##	104	2023-08-03	Email	_ @frank_chat		-0.022698464
	##	105	2023-08-03	Email	_ @frank_chat		-0.222633559
	##	106	2023-08-03	Slack	@erin_tweets	Need assistance	-0.173975688
	##	107	2023-08-03	Email	alice@example	<pre>Hello everyone!</pre>	0.713812393
	##	108	2023-08-03	Slack	alice@example	Fun weekend!	0.542070733
	##	109	2023-08-03	Email	<pre>@frank_chat</pre>	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	_	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	<pre>@bob_tweets</pre>	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	<pre>@bob_tweets</pre>	Exciting news!	-0.122806889
##	144	2023-08-04	Slack	<pre>@frank_chat</pre>	Need assistance	0.933738099
##	145	2023-08-04	Email	<pre>@frank_chat</pre>	Great work!	0.263225980
##	146	2023-08-04	Twitter	dave@example	Fun weekend!	0.463157478
##	147	2023-08-04	Email	<pre>@bob_tweets</pre>	-	
##	148	2023-08-04	Email	alice@example	<pre>Hello everyone!</pre>	0.161035733
##	149	2023-08-04	Twitter	<pre>@bob_tweets</pre>	Hello everyone!	-0.774547359
##	150	2023-08-04	Twitter	carol_slack	Exciting news!	-0.615862965
	151	2023-08-04	Slack	_	Hello everyone!	
	152	2023-08-04	Slack	dave@example	Fun weekend!	0.796501584
	153	2023-08-04	Email	-	Need assistance	
	154	2023-08-04		dave@example	Fun weekend!	
	155	2023-08-04	Email	_	Need assistance	
	156			alice@example	Fun weekend!	
	157	2023-08-04	Email	@bob_tweets	Fun weekend!	
	158	2023-08-04		_	Hello everyone!	
	159	2023-08-04		@frank_chat	Exciting news!	0.795437461
	160	2023-08-04	Slack	_	Need assistance	0.165087673
	161	2023-08-04	Email	@bob_tweets	Fun weekend!	
	162 163	2023-08-04	Slack	@frank_chat	Fun weekend!	
		2023-08-04		@bob_tweets		0.053784013
	164 165	2023-08-04 2023-08-04	Email Twitter	<pre>@bob_tweets dave@example</pre>	Team meeting	-0.251496902
	166		Email	_	_	
##	100	2023-08-05	rma11	carol_slack	Exciting news!	0.4001/4/08

```
## 167
                             @erin_tweets Need assistance -0.195926677
        2023-08-05
                     Slack
## 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
                                              Team meeting -0.386754569
                              @bob tweets
## 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
                                                            0.364639959
                                              Team meeting
##
  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
                              carol slack Need assistance
        2023-08-05
                     Email
                                                            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
                                                            0.082249742
                                              Team meeting
## 189
                              carol_slack
                                                            0.470731148
        2023-08-05
                     Slack
                                               Great work!
## 190
                                                            0.830162693
        2023-08-05
                     Email
                             @erin_tweets
                                               Great work!
## 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
                             @erin_tweets
                      Email
                                           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
                              @frank chat
                      Email
                                              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
                      Slack
## 215
        2023-08-06
                              @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
        2023-08-06
## 218
                     Email
                              @bob_tweets
                                              Fun weekend!
                                                            0.201027735
## 219
        2023-08-06 Twitter
                             dave@example
                                           Exciting news! -0.433124611
## 220
        2023-08-06
                              @bob tweets
                     Email
                                              Fun weekend! -0.159573650
## 221
        2023-08-06
                      Slack
                              @frank chat Need assistance
                                                            0.746888391
                                              Fun weekend! -0.927836751
## 222
        2023-08-06
                     Slack
                              @bob tweets
```

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##	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	<pre>@erin_tweets</pre>	<pre>Hello everyone!</pre>	-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	<pre>@erin_tweets</pre>	Great work!	-0.387922954
##	252	2023-08-06	Slack	<pre>@bob_tweets</pre>	Need assistance	0.743181323
##	253	2023-08-06	Email	@erin_tweets	<pre>Hello everyone!</pre>	-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	<pre>@bob_tweets</pre>	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	-	Need assistance	0.914976185
	262	2023-08-07		alice@example		-0.329095908
	263	2023-08-07	Slack	_	Need assistance	
	264	2023-08-07	Slack	@frank_chat	Exciting news!	0.993148146
	265	2023-08-07		alice@example	Exciting news!	0.773558143
	266	2023-08-07		@bob_tweets	Fun weekend!	
	267	2023-08-07	Email	@erin_tweets		-0.446627778
	268	2023-08-07		alice@example	Exciting news!	
	269	2023-08-07		=	Hello everyone!	
	270	2023-08-07	Email	carol_slack	Exciting news!	0.785684678
	271	2023-08-07		=	Need assistance	0.877496709
	272	2023-08-07	Email	@bob_tweets	Team meeting	
	273	2023-08-07		dave@example	Team meeting	
	274	2023-08-07	Slack	-	Hello everyone!	0.079340591
	275	2023-08-07	Slack	-	Need assistance	
	276277	2023-08-07	Slack Slack	_	Hello everyone! Exciting news!	0.973429719 0.370947586
	277	2023-08-07 2023-08-07	Slack	<pre>@bob_tweets @erin tweets</pre>	_	-0.643276188
##	2/0	2023-00-0/	этаск	eer TII_cweecs	Great WOLK!	-0.0432/0108

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##	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	<pre>@bob_tweets</pre>	Team meeting	-0.150205611
##	284	2023-08-07	Slack	alice@example	Fun weekend!	0.397376804
##	285	2023-08-07	Twitter	carol_slack	<pre>Hello everyone!</pre>	-0.355751095
##	286	2023-08-07	Email	dave@example	<pre>Hello everyone!</pre>	-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	<pre>@bob_tweets</pre>	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	<pre>@bob_tweets</pre>	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!	
	297	2023-08-07	Email	dave@example	Fun weekend!	
	298	2023-08-07		alice@example	_	-0.365139902
	299	2023-08-07	Slack	@erin_tweets	_	-0.780283807
	300	2023-08-07	Email	@bob_tweets	_	-0.232356975
	301	2023-08-07	Slack	@bob_tweets		-0.311243319
	302	2023-08-07	Email	@bob_tweets	_	
	303	2023-08-07		alice@example	Great work!	0.580541194
	304	2023-08-07	Slack	-	Need assistance	0.251102221
	305	2023-08-07	Slack	=	Hello everyone!	0.747580624
	306	2023-08-07	Slack	-	Need assistance	
	307	2023-08-07	Slack	-	Hello everyone!	0.593321668
	308 309	2023-08-07	Slack	@erin_tweets		-0.597466531
	310	2023-08-07 2023-08-07	Slack	@bob_tweets	Hello everyone! Fun weekend!	
	311	2023-08-07		@bob_tweets		-0.389785778
	312	2023-08-07	Slack	@bob_tweets	Great work!	0.872962321
	313	2023-08-07		@bob_tweets		-0.548428072
	314	2023-08-07	Email	@bob_tweets	Fun weekend!	0.079245736
	315	2023-08-07	Slack	carol slack		0.937586371
	316	2023-08-07	Slack	@bob tweets		0.170066014
	317	2023-08-07		alice@example		0.844455994
	318	2023-08-07	Slack	carol slack		0.186763622
##	319	2023-08-08	Slack	_	Need assistance	-0.879413284
##	320	2023-08-08	Email	_	Need assistance	0.115187556
##	321	2023-08-08	Email	carol slack	Team meeting	0.213498762
##	322	2023-08-08	Twitter	efrank_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	<pre>@erin_tweets</pre>	Great work!	-0.410223121
##	327	2023-08-08	Email	$\verb"alice@example"$	Exciting news!	-0.007040349
##	328	2023-08-08	Twitter	$\verb"alice@example"$	<pre>Hello everyone!</pre>	0.223401716
##	329	2023-08-08	Email	$\verb"alice@example"$	Great work!	0.222402995
##	330	2023-08-08	Slack	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	0.740663246
	331	2023-08-08	Twitter	<pre>@frank_chat</pre>	Fun weekend!	0.484796492
	332	2023-08-08	Slack	<pre>@frank_chat</pre>	Need assistance	0.963640937
##	333	2023-08-08	Email	@frank_chat	_	
##	334	2023-08-08	Email	dave@example	Need assistance	-0.998774239

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	## 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	efrank chat	Need assistance	-0.992002849
	## 347	2023-08-08	Twitter	alice@example		-0.236779108
	## 348			alice@example	Team meeting	0.870818266
	## 349	2023-08-08	Slack	alice@example	Hello everyone!	-0.812013249
	## 350	2023-08-08		alice@example	Fun weekend!	
	## 351	2023-08-08	Slack	carol slack	Exciting news!	0.055117640
	## 352	2023-08-08	Email	erin tweets	_	
	## 353	2023-08-08	Email	erin tweets		0.734125260
	## 354	2023-08-08		- @erin tweets	Fun weekend!	0.191519982
	## 355	2023-08-08	Email	_	Hello everyone!	
	## 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	<pre>Hello everyone!</pre>	-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	$\verb"alice@example"$	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	<pre>Hello everyone!</pre>	-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		alice@example	Great work!	0.432502551
	## 376	2023-08-09	Email	@erin_tweets	Exciting news!	0.020394353
	## 377	2023-08-09	Slack	<pre>@bob_tweets</pre>	Team meeting	0.500293179
	## 378	2023-08-09		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		-	Need assistance	0.665302936
	## 382	2023-08-09	Slack	dave@example	Fun weekend!	-0.358376735
	## 383	2023-08-09		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	
	## 386			-	Hello everyone!	0.184942272
	## 387	2023-08-09	Email	@erin_tweets	Fun weekend!	0.513564137
	## 388	2023-08-09		@bob_tweets	Team meeting	0.526457346
	## 389	2023-08-09	Email	@bob_tweets	Fun weekend!	
	## 390	2023-08-09	Email	@erin_tweets	Fun weekend!	0.237909144

```
## 391
        2023-08-09 Twitter alice@example Hello everyone!
                                                             0.762754925
## 392
                              @bob_tweets Hello everyone!
        2023-08-09
                      Email
                                                             0.703965933
        2023-08-09 Twitter alice@example
## 393
                                            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
                              @frank chat Hello everyone! -0.633588556
                      Email
##
  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
                             @erin tweets Need assistance
                                                             0.953375103
                      Email
##
  412
        2023-08-09
                              @frank chat
                      Email
                                              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
                             @erin tweets Need assistance -0.766245456
                      Slack
##
  416
        2023-08-10 Twitter
                             @erin_tweets Need assistance -0.340010146
## 417
        2023-08-10
                      Email
                              @bob_tweets
                                              Team meeting -0.060755176
## 418
                                                             0.924440826
        2023-08-10
                      Email
                              @bob_tweets
                                               Great work!
## 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
                                                             0.214199054
        2023-08-10 Twitter
                              @frank_chat
                                               Great work!
##
  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
                             dave@example
                      Slack
                                            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	<pre>Hello everyone!</pre>	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	<pre>Hello everyone!</pre>	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	efrank 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	efrank_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	<pre>@bob_tweets</pre>	Need assistance	-0.316063035
##	479	2023-08-11	Twitter	dave@example	Fun weekend!	0.824099663
##	480	2023-08-11	Email	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	0.662486946
##	481	2023-08-11	Slack	@frank_chat	<pre>Hello everyone!</pre>	-0.143450806
##	482	2023-08-11	Twitter	<pre>@bob_tweets</pre>	Great work!	-0.751736611
##	483	2023-08-11	Email	@frank_chat	Fun weekend!	0.874191639
##	484	2023-08-11	Slack	<pre>@bob_tweets</pre>	Team meeting	-0.955364774
##	485	2023-08-11	Email	carol_slack	Need assistance	-0.547700667
##	486	2023-08-11	Email	$\verb"alice@example"$	Fun weekend!	-0.034278538
##	487	2023-08-11	Slack	@frank_chat	Exciting news!	-0.871460078
##	488	2023-08-11	Slack	dave@example	<pre>Hello everyone!</pre>	-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	<pre>Hello everyone!</pre>	-0.108963726
##	492	2023-08-11	Slack	$\verb"alice@example"$	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		<pre>@frank_chat</pre>	Team meeting	
##	497	2023-08-11		dave@example	Exciting news!	0.018387399
	498	2023-08-11	Slack	dave@example	<pre>Hello everyone!</pre>	0.879992486
	499	2023-08-11	Twitter	<pre>@bob_tweets</pre>	_	0.260118117
	500	2023-08-11		dave@example		0.124404418
	501	2023-08-11	Twitter	<pre>@frank_chat</pre>	Fun weekend!	-0.926554946
##	502	2023-08-11	Slack	dave@example	Need assistance	0.930096855

```
## 503
                      Email alice@example
                                            Exciting news! -0.901918261
        2023-08-11
## 504
        2023-08-11
                      Email
                              @bob_tweets Hello everyone!
                                                             0.576369455
## 505
        2023-08-11
                                            Exciting news! -0.033773244
                      Slack
                              @bob tweets
## 506
        2023-08-11 Twitter
                              carol_slack
                                                             0.910158344
                                               Great work!
## 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
                                              Team meeting -0.303564250
##
        2023-08-11 Twitter
                              @frank_chat
##
  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
                             @erin tweets
                                              Team meeting -0.893834382
                      Slack
## 524
        2023-08-11
                      Email
                              carol slack
                                                             0.355941510
                                              Fun weekend!
## 525
        2023-08-11
                      Email
                             dave@example Need assistance
                                                             0.060486035
## 526
                             @erin_tweets
        2023-08-11
                      Slack
                                               Great work! -0.704862314
## 527
        2023-08-11 Twitter
                              @frank chat Hello everyone!
                                                             0.807257727
                                              Team meeting -0.786887704
## 528
        2023-08-12 Twitter
                             dave@example
## 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
                                               Great work!
                                                             0.407506729
                              carol_slack
## 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
                              @bob tweets
                      Email
                                            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
                                                             0.650313874
                                              Team meeting
## 550
        2023-08-12
                      Email
                              @frank_chat Need assistance -0.104900640
## 551
        2023-08-12
                             dave@example
                                                             0.480317921
                      Email
                                               Great work!
## 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
                             @erin tweets Need assistance
## 555
        2023-08-12
                      Email
                                                             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
```

`	1712025	, 17.00				Chancinge-4	
	##	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	efrank_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		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	<pre>Hello everyone!</pre>	-0.360894154
	##	585	2023-08-12	Twitter	alice@example	Exciting news!	0.874988238
	##	586	2023-08-13	Email	$\verb"alice@example"$	<pre>Hello everyone!</pre>	0.433930994
	##	587	2023-08-13	Email	@bob_tweets	Team meeting	-0.092784007
	##	588	2023-08-13	Slack	carol_slack	<pre>Hello everyone!</pre>	0.675182751
		589	2023-08-13	Slack	<pre>@bob_tweets</pre>	Great work!	-0.443448592
	##	590	2023-08-13	Slack	alice@example	Great work!	0.480868685
		591			dave@example		
		592			-	Need assistance	
		593	2023-08-13	Email	dave@example	Need assistance	
		594	2023-08-13		@bob_tweets		-0.705626460
		595			alice@example		
		596			-	Hello everyone!	
		597	2023-08-13	Slack	@frank_chat	_	
		598	2023-08-13	Slack	_	Need assistance	
		599	2023-08-13		_	Hello everyone!	
		600	2023-08-13	Slack	carol_slack	_	
		601	2023-08-13	Email	carol_slack	_	
		602	2023-08-13	Email	_	Exciting news!	
		603			alice@example	-	0.892404643
		604	2023-08-13		-	Need assistance	
		605 606	2023-08-13	Email	-	Hello everyone!	
		607	2023-08-13 2023-08-13		@frank_chat	Exciting news! Need assistance	
		608	2023-08-13	Slack	carol slack		-0.947211589
		609	2023-08-13		_	Hello everyone!	
		610	2023-00-13		carol slack	=	
		611	2023-00-13		@erin_tweets	-	-0.956337988
		612	2023-08-13	Email	@erin tweets		0.496487776
		613	2023-08-13	-	@erin tweets		
		614			alice@example		-0.026141260
	"	- 		= = = = =			

_	1712025	, 17.00				Chancinge-4	
	##	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	<pre>Hello everyone!</pre>	-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	<pre>Hello everyone!</pre>	-0.945477226
	##	628	2023-08-13	Slack	alice@example	Team meeting	-0.927027794
	##	629	2023-08-13	Email	<pre>@bob_tweets</pre>	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	_	Hello everyone!	
	##	633	2023-08-13		=	Exciting news!	-0.618614707
	##	634	2023-08-13		carol_slack		-0.412842807
	##	635	2023-08-13	Twitter	alice@example		-0.806566573
		636	2023-08-13	Email	@erin_tweets		
		637	2023-08-14	Slack	_	Need assistance	
		638	2023-08-14		-	Great work!	
		639	2023-08-14		@frank_chat	_	-0.935610580
		640			alice@example	_	
		641	2023-08-14	Email	@erin_tweets	Great work!	0.891589128
		642	2023-08-14		-	Hello everyone!	
		643	2023-08-14	Email	@bob_tweets	-	-0.815906889
		644			_	Hello everyone!	
		645			alice@example	Great work!	
		646	2023-08-14		@frank_chat		-0.912142744
		647	2023-08-14	Slack	-	Hello everyone!	
		648		Email	alice@example	-	
		649	2023-08-14	Slack		Need assistance	0.867801995
		650 651	2023-08-14 2023-08-14	Slack	@erin_tweets	Need assistance	-0.518683678
		652	2023-08-14		@bob tweets		-0.970631612
		653	2023-08-14	Email	carol slack		0.446355308
		654	2023-08-14		dave@example		
		655	2023-00-14	Slack	@erin tweets		0.336964048
		656	2023-08-14	Email	-	Need assistance	
		657	2023-08-14		=	Need assistance	0.043240849
		658	2023-08-14	Slack	=	Hello everyone!	
		659	2023-08-14	Email	=	Need assistance	
		660	2023-08-14		_	Need assistance	0.041204039
		661	2023-08-14	Slack		Need assistance	
		662	2023-08-14	Slack	dave@example	Exciting news!	
		663	2023-08-14	Slack	=	Need assistance	0.141076977
		664	2023-08-14	Slack	@erin tweets	Fun weekend!	
		665	2023-08-14	Twitter	_	Need assistance	
		666	2023-08-14		_ @erin_tweets	Great work!	
	##	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	<pre>@bob_tweets</pre>	Hello everyone!	0.250149151
					_	4	

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	## 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	<pre>Hello everyone!</pre>	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	-	-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	ebob tweets	Exciting news!	0.671785708
	## 689	2023-08-14	Email	_ @bob tweets	<u>-</u>	
	## 690	2023-08-14	Twitter	dave@example	_	-0.998980226
	## 691	2023-08-14	Slack	@bob tweets		-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		=	Hello everyone!	-0.798660460
	## 696	2023-08-14		=	Hello everyone!	
	## 697	2023-08-14	Email	dave@example	Hello everyone!	-0.359136123
	## 698	2023-08-14	Email	@erin_tweets	-	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	<pre>Hello everyone!</pre>	-0.689319659
	## 703	2023-08-15	Twitter	@erin_tweets	Great work!	-0.244326655
	## 704	2023-08-15	Twitter	carol_slack	<pre>Hello everyone!</pre>	-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	<pre>@bob_tweets</pre>	Team meeting	0.853966497
	## 711	2023-08-15	Slack	$\verb"alice@example"$	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	<pre>@bob_tweets</pre>	Exciting news!	0.423514269
	## 716	2023-08-15	Twitter	@frank_chat	Need assistance	-0.639425840
	## 717	2023-08-15	Slack	<pre>@bob_tweets</pre>	Team meeting	-0.271451744
	## 718	2023-08-15	Email	<pre>@frank_chat</pre>	Need assistance	0.385732211
	## 719	2023-08-15	Email	@erin_tweets	<pre>Hello everyone!</pre>	-0.598425182
	## 720	2023-08-15		dave@example	Great work!	0.435108419
	## 721	2023-08-15	Twitter	<pre>@bob_tweets</pre>	Need assistance	0.373691486
	## 722	2023-08-15	Slack	carol_slack	Need assistance	0.674294885
	## 723	2023-08-15	Slack	dave@example	<pre>Hello everyone!</pre>	-0.510870771
	## 724	2023-08-15	Email	dave@example	<pre>Hello everyone!</pre>	0.282330315
	## 725	2023-08-15	Slack	<pre>@frank_chat</pre>	<pre>Hello everyone!</pre>	0.058449768
	## 726	2023-08-15	Twitter	$\verb alice@example $	Exciting news!	0.153143482

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	##	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	<pre>Hello everyone!</pre>	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			Need assistance	0.344264537
	##	736	2023-08-15	Email	carol slack	Fun weekend!	-0.141636565
	##	737	2023-08-15	Twitter	dave@example		
		738	2023-08-15	Slack	@frank_chat		0.816346027
		739	2023-08-15		@bob tweets		
		740	2023-08-15		_	Need assistance	
		741	2023-08-15			Hello everyone!	
		742	2023-08-15		-	Need assistance	
		743	2023-08-15		@bob tweets		
		744	2023-08-15		-	Need assistance	
		745	2023-08-15		dave@example		-0.481857921
		746	2023-00-15	Slack	-	Hello everyone!	
		747	2023-08-15		carol slack	-	
		748	2023-08-15		_	_	
					-	Hello everyone!	
		749	2023-08-15	Email	@frank_chat		
		750	2023-08-15			Hello everyone!	
		751	2023-08-15		=	Need assistance	
		752			_	Great work!	0.798867194
		753	2023-08-16		_		0.150156671
		754	2023-08-16		alice@example	_	
		755			alice@example	-	0.927110374
		756	2023-08-16		_	_	
		757			alice@example		-0.179680133
		758			@erin_tweets	Exciting news!	
	##	759	2023-08-16	Slack	@bob_tweets	Team meeting	
		760	2023-08-16	Email	_	Hello everyone!	0.997601895
	##	761	2023-08-16	Slack	-	Hello everyone!	
	##	762	2023-08-16	Email	@frank_chat		
	##	763	2023-08-16	Twitter	@erin_tweets	Exciting news!	-0.265161676
	##	764	2023-08-16		-	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	<pre>@bob_tweets</pre>	Fun weekend!	-0.533522750
	##	768	2023-08-16	Slack	<pre>@bob_tweets</pre>	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	
	##	779	2023-08-16	Email	alice@example	Exciting news!	
	##	780	2023-08-16	Email	@erin_tweets	Fun weekend!	
		781	2023-08-16		dave@example		
		782	2023-08-16		alice@example		0.360768258
					-		

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## '	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
## 8	800	2023-08-16	Twitter	dave@example	Team meeting	0.796688539
## 8	801	2023-08-16	Email	@bob_tweets	Great work!	-0.351176404
## 8	802	2023-08-16	Email	_ @bob tweets	Need assistance	-0.459899545
## 8	803	2023-08-17	Twitter	alice@example	Team meeting	-0.189370414
## 8	804	2023-08-17	Twitter	@bob tweets	Need assistance	-0.493062959
## 8	805	2023-08-17	Email	@frank_chat	Team meeting	0.932789830
## 8	806	2023-08-17	Email	@bob_tweets	Fun weekend!	0.825692308
## 8	807	2023-08-17	Slack	alice@example	Exciting news!	-0.301641050
## 8	808	2023-08-17	Email	@bob_tweets	Team meeting	-0.467768930
## 8	809	2023-08-17	Twitter	@bob_tweets	Exciting news!	0.953910344
## 8	810	2023-08-17	Twitter	@frank_chat	<pre>Hello everyone!</pre>	0.951721462
## 8	811	2023-08-17	Twitter	carol_slack	Fun weekend!	0.172285239
## 8	812	2023-08-17	Email	@erin_tweets	Great work!	0.709753431
## 8	813	2023-08-17	Email	dave@example	Fun weekend!	0.420022254
## 8	814	2023-08-17	Twitter	@erin_tweets	Fun weekend!	-0.417790642
## 8	815	2023-08-17	Email	dave@example	<pre>Hello everyone!</pre>	0.976894801
## 3	816	2023-08-17	Slack	$\verb"alice@example"$	Great work!	0.652192219
## 8	817	2023-08-17	Twitter	dave@example	Fun weekend!	0.775130778
## 8	818	2023-08-17	Email	@frank_chat	Great work!	-0.951084716
## 8	819	2023-08-17	Twitter	carol_slack	Need assistance	-0.806338225
## 8	820	2023-08-17	Twitter	@erin_tweets	<pre>Hello everyone!</pre>	0.299843722
## 3	821	2023-08-17	Email	@erin_tweets	Team meeting	0.863822790
## 3	822	2023-08-17		=	Great work!	
## 8		2023-08-17	Slack	carol_slack	Need assistance	
## 8		2023-08-17		@frank_chat	=	
## 8		2023-08-17		@frank_chat		
## 8		2023-08-17	Email	dave@example		
## 8				=	<pre>Hello everyone!</pre>	
## 8					Hello everyone!	
## 8		2023-08-17	Email	@frank_chat	-	-0.229243480
## 8		2023-08-17			Need assistance	
## 8		2023-08-17		-	Hello everyone!	
## 8		2023-08-17	Slack	carol_slack	Fun weekend!	
## 9		2023-08-17		@frank_chat		-0.700269639
## 3		2023-08-17		alice@example		
## 9		2023-08-17		@frank_chat		-0.608078998
## 8		2023-08-17		_	Need assistance	
## 9		2023-08-17	Email	@frank_chat	Exciting news!	
## 8	838	2023-08-17	TWITTER	@bob_tweets	Great work!	0.401612313

```
Exciting news!
## 839
        2023-08-17 Twitter alice@example
                                                             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
                              @bob tweets
                                              Fun weekend! -0.558302570
                      Slack
##
  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
                             @erin tweets Need assistance -0.240649289
##
        2023-08-18
                      Email
## 858
        2023-08-18
                      Email
                              carol_slack
                                              Team meeting
                                                             0.343653605
        2023-08-18
##
  859
                      Email
                              @bob tweets
                                            Exciting news!
                                                             0.497974098
  860
                                            Exciting news!
##
        2023-08-18 Twitter
                              @frank_chat
                                                             0.784590872
## 861
                             @erin_tweets
        2023-08-18
                      Slack
                                              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
                      Slack
##
  864
        2023-08-18
                              @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
                                            Exciting news!
                              @bob tweets
                                                             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
                              carol slack
##
  885
        2023-08-18
                      Email
                                            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
        2023-08-18
## 890
                      Slack alice@example
                                               Great work! -0.114574431
## 891
        2023-08-18 Twitter alice@example
                                              Fun weekend!
                                                             0.977650215
##
  892
                             dave@example
        2023-08-18 Twitter
                                               Great work! -0.160749977
##
  893
        2023-08-18 Twitter
                              @bob_tweets
                                              Fun weekend!
                                                             0.866654206
                                              Fun weekend! -0.898072343
## 894
        2023-08-18
                      Slack
                              @bob tweets
```

•	1712025	, 17.00				Chancinge-4	
	##	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	<pre>Hello everyone!</pre>	-0.558468956
	##	910	2023-08-19	Twitter	<pre>@bob_tweets</pre>	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	<pre>Hello everyone!</pre>	0.179850068
	##	917	2023-08-19	Email	$\verb"alice@example"$	Great work!	0.301563812
	##	918	2023-08-19	Slack	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	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			alice@example	Need assistance	0.143810244
		924	2023-08-19		@erin_tweets	Team meeting	0.945942261
		925			alice@example		-0.111042333
		926	2023-08-19	Email	@frank_chat		-0.943049938
		927	2023-08-19	Email	dave@example		-0.336303487
		928	2023-08-19	Email	@erin_tweets	Fun weekend!	0.149510738
		929			alice@example	_	-0.299451457
		930	2023-08-19	Email	@bob_tweets	Team meeting	0.855612874
		931	2023-08-19		-	Need assistance	
		932	2023-08-19	Slack	@erin_tweets		-0.725357866
		933	2023-08-19		@frank_chat		0.388266448
		934	2023-08-19		carol_slack	, , , , , , , , , , , , , , , , , , ,	0.578111817
		935 936			-	Hello everyone!	
			2023-08-19 2023-08-19		@frank chat	Hello everyone!	0.420571170
		937 938	2023-08-19	Slack	@frank_chat	Exciting news!	0.221380584 -0.887928675
		939	2023-08-19	Email	@frank_chat	Great work!	0.463513046
		940	2023-08-19		_	Hello everyone!	
		941	2023-00-19	Email	@erin tweets	Great work!	0.570171806
		942	2023-08-19	Email	dave@example		-0.528815492
		943	2023-08-19		@erin tweets	Exciting news!	0.638825124
		944	2023-08-19	Slack	@frank chat	-	-0.472906698
		945	2023-08-19	Slack	dave@example	_	-0.789976987
		946	2023-08-19		alice@example	Exciting news!	
		947			-	Hello everyone!	
		948	2023-08-20	Email	dave@example	Team meeting	0.617879979
	##		2023-08-20	Email	carol_slack	Team meeting	0.909817838
	##	950	2023-08-20		alice@example	Great work!	0.062977130
			_	_	1 -	•	

```
## 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
                                                            0.617734990
                                           Exciting news!
## 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
                              @bob tweets Need assistance -0.299717092
                     Email
##
  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
                              carol_slack
## 969
        2023-08-20
                     Email
                                             Team meeting
                                                            0.078007510
## 970
        2023-08-20
                     Slack
                             dave@example
                                              Great work!
                                                            0.814900840
## 971
        2023-08-20
                             @erin tweets
                                           Exciting news! -0.195798854
                     Email
## 972
        2023-08-20
                     Slack
                             @erin tweets
                                             Fun weekend!
                                                            0.604609676
## 973
                              @bob_tweets
        2023-08-20 Twitter
                                             Fun weekend!
                                                           0.236553716
## 974
        2023-08-20
                     Email dave@example
                                             Team meeting 0.985037738
## 975
        2023-08-20
                              carol slack
                                           Exciting news!
                                                            0.221250645
                     Slack
## 976
        2023-08-20 Twitter
                            dave@example
                                             Fun weekend! -0.818538250
## 977
                             @erin_tweets
                                              Great work! -0.349391197
        2023-08-20 Twitter
## 978
        2023-08-20
                                                            0.680826971
                     Email
                              carol_slack
                                              Great work!
## 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
                                           Exciting news! -0.542942689
        2023-08-20 Twitter
                             dave@example
                                             Team meeting -0.118006961
## 986
        2023-08-20
                     Slack
                              @bob tweets
##
  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
                              @frank_chat
        2023-08-20 Twitter
                                           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) %>%
  summarise(count = n())
```

```
## # A tibble: 6 × 2
##
    sender
                  count
##
    <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.

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

```
## # A tibble: 3 × 2
## channel count
## <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 %>%
  select(sender, sentiment) %>%
  filter(sentiment > 0) %>%
  group_by(sender) %>%
  summarise(avg_sentiment = mean(sentiment)) %>%
  arrange(desc(avg_sentiment)) %>%
  slice(1:3)
```

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.

```
# Enter code here
comm_data %>%
  group_by(date) %>%
  summarise(avg_sentiment_score = mean(sentiment)) %>%
  arrange(date)
```

```
## # A tibble: 20 × 2
##
      date
                 avg_sentiment_score
##
      <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.

```
# Enter code here
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
           Great work! -0.179680133
## 13
          Team meeting -0.092784007
## 14
## 15
          Team meeting -0.955364774
       Need assistance -0.766245456
## 16
## 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
       Hello everyone! -0.761104998
## 38
## 39
        Exciting news! -0.408464086
## 40
          Fun weekend! -0.584208118
## 41
          Team meeting -0.178657859
## 42
           Great work! -0.329095908
          Fun weekend! -0.707901944
## 43
## 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 Team meeting -0.815906889 ## 61 ## 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 Fun weekend! -0.797102704 ## 285 ## 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 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 Great work! -0.114574431 ## 390

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 Exciting news! -0.798021044 ## 406 ## 407 Great work! -0.652119522 ## 408 Exciting news! -0.286527871 ## 409 Great work! -0.597466531 ## 410 Exciting news! -0.113282133 Fun weekend! -0.520876877 ## 411 ## 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 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 Team meeting -0.893834382 ## 439 ## 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
           Great work! -0.251496902
##
  457
  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
           Great work! -0.704862314
## 467
  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
           Great work! -0.462906254
## 478
## 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.

##		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	$\verb"alice@example"$	Hello everyone!	-0.187917918
##	9	2023-08-20	Email	dave@example	Team meeting	0.617879979
##	10	2023-08-09	Slack	@erin_tweets	<pre>Hello everyone!</pre>	-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	$\verb"alice@example"$	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	- -	Great work!	0.642848774
##	17	2023-08-01		_	Need assistance	0.148395223
##		2023-08-20	Email	carol_slack	Team meeting	0.909817838
##		2023-08-08	Slack	_	Need assistance	
##		2023-08-06	Slack	=	Hello everyone!	0.968081689
##		2023-08-11		@bob_tweets		
##		2023-08-12		dave@example		-0.786887704
##		2023-08-12	Slack	@frank_chat		
##		2023-08-11	Email	@frank_chat		0.874191639
##		2023-08-04		@bob_tweets		-0.539049788
##		2023-08-13		_	-	0.433930994
## ##		2023-08-16		@bob_tweets	Exciting news!	
##		2023-08-09		_	Need assistance Great work!	0.866824818
##				dave@example alice@example		-0.189370414
##				=	Need assistance	
##		2023-08-17	Email	<pre>@bob_tweets</pre>	Great work!	
##		2023-08-01		_	Need assistance	
##				alice@example		-0.179680133
##		2023-08-10		@erin_tweets		0.199771451
##		2023-08-07	Email	dave@example		0.327507946
##		2023-08-02	Email	=	-	
##	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	$\verb"alice@example"$	Fun weekend!	0.233402089
##	47	2023-08-07	Email	<pre>@frank_chat</pre>	Fun weekend!	0.387379609
##	48	2023-08-20	Email	$\verb"alice@example"$		0.062977130
##	49	2023-08-16	Slack	<pre>@erin_tweets</pre>	Exciting news!	-0.290788232
##				alice@example	_	0.210089974
##		2023-08-12	Email	_	Need assistance	
##		2023-08-10		_	Need assistance	
##		2023-08-13	Slack	_	Hello everyone!	
##	54	2023-08-13	Slack	@bob_tweets	Great work!	-0.443448592

```
## 55
                     Slack
                                              Team meeting -0.774452816
        2023-08-16
                              @bob_tweets
## 56
        2023-08-13
                     Slack alice@example
                                               Great work!
                                                             0.480868685
## 57
        2023-08-07
                      Slack
                              @frank_chat Need assistance
                                                             0.914976185
## 58
                                              Fun weekend!
        2023-08-13 Twitter
                             dave@example
                                                             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
                             @erin tweets
                                              Fun weekend!
                                                             0.924321534
                      Email
##
  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
                              @bob tweets
                                              Team meeting -0.060755176
                     Email
## 76
        2023-08-12 Twitter
                                                             0.407506729
                              carol slack
                                               Great work!
## 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
                              @bob_tweets
        2023-08-04 Twitter
                                              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
                             @erin tweets
                                              Team meeting -0.757670477
        2023-08-19
                      Email
## 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
                                                             0.891589128
                     Email
                             @erin_tweets
                                               Great work!
## 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
                                               Great work! -0.459148118
## 110
        2023-08-20
                     Slack alice@example
```

 	,					
##	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	<pre>@bob_tweets</pre>	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	<pre>Hello everyone!</pre>	-0.843954970
##	128	2023-08-15	Email	@erin_tweets	Fun weekend!	-0.576360519
##	129	2023-08-09	Twitter	$\verb"alice@example"$	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	$\verb"alice@example"$	Team meeting	0.858062949
##	135	2023-08-07	Email	$\verb"alice@example"$	Exciting news!	0.773558143
##	136	2023-08-19	Email	$\verb"alice@example"$	Exciting news!	0.401543677
##	137	2023-08-17	Twitter	<pre>@frank_chat</pre>	<pre>Hello everyone!</pre>	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		Hello everyone!	-0.075317414
	141	2023-08-04	Email	_	Need assistance	0.689327837
##	142	2023-08-15		<pre>@bob_tweets</pre>	Team meeting	0.853966497
	143	2023-08-10		-	Need assistance	
	144			=	<pre>Hello everyone!</pre>	0.530733542
	145	2023-08-19	Slack	dave@example		-0.526421044
	146	2023-08-12		=	Hello everyone!	0.278570379
	147	2023-08-01	Slack	@frank_chat	Team meeting	
	148	2023-08-11	Email	dave@example	Great work!	0.509797142
	149	2023-08-17		carol_slack	Fun weekend!	
	150	2023-08-01	Slack	@bob_tweets	Exciting news!	
	151	2023-08-07		@bob_tweets	Fun weekend!	
	152	2023-08-20	Slack	@bob_tweets		0.203791809
	153	2023-08-12	Slack	carol_slack		-0.733910211
	154	2023-08-17	Email	@erin_tweets		0.709753431
	155	2023-08-10		@erin_tweets		-0.496555788
	156			_	Hello everyone!	
	157	2023-08-11	Slack	_	Hello everyone!	
	158	2023-08-11		alice@example	Fun weekend!	
	159	2023-08-03		carol_slack	Exciting news!	0.044649603
	160	2023-08-18	Email	@bob_tweets	Fun weekend!	
	161	2023-08-12		@bob_tweets	Exciting news!	
	162	2023-08-17	Email	dave@example	Fun weekend!	0.420022254
	163	2023-08-16			Need assistance	
	164	2023-08-01	Slack	@erin_tweets	Great work!	0.244422906
	165	2023-08-01		@frank_chat	Team meeting	
##	166	2023-08-04	rwitter	aaveeexampie	Need assistance	-0.035092593

-		,					
	##	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	$\verb"alice@example"$	Great work!	0.346799491
	##	181	2023-08-06	Twitter	dave@example	Exciting news!	-0.433124611
	##	182	2023-08-13	Twitter	@frank_chat	<pre>Hello everyone!</pre>	-0.369747002
	##	183	2023-08-07	Email	$\verb"alice@example"$	<pre>Hello everyone!</pre>	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	<pre>@bob_tweets</pre>	Team meeting	0.500293179
	##	188	2023-08-03	Twitter	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	-0.243440011
	##	189	2023-08-16	Slack	<pre>@bob_tweets</pre>	Team meeting	0.120248223
	##	190	2023-08-06	Email	<pre>@bob_tweets</pre>	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		-	Need assistance	0.877496709
	##	196	2023-08-10	Slack	_	Need assistance	
	##	197	2023-08-18	Twitter	=	Need assistance	
		198	2023-08-07	Email	@bob_tweets	Team meeting	
		199	2023-08-12		alice@example	Fun weekend!	0.226010282
		200	2023-08-14	Slack	_	Hello everyone!	0.987832270
		201	2023-08-06	Slack	_	Need assistance	0.746888391
		202			alice@example	Team meeting	0.024089097
		203	2023-08-07		dave@example	Team meeting	
		204	2023-08-02	Slack	@erin_tweets	=	0.900116188
		205			alice@example	Fun weekend!	
		206	2023-08-07	Slack	-	Hello everyone!	0.079340591
		207	2023-08-16	Email	carol_slack	Great work!	0.306993762
		208	2023-08-10	Email	-	Need assistance	
		209	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.542777083
		210	2023-08-03	Email	_	Hello everyone!	0.575844854
		211	2023-08-03		dave@example	_	-0.024207670
		212	2023-08-05			Need assistance	0.089429019
		213	2023-08-19	Slack	_	Hello everyone!	0.679174718
		214	2023-08-03	Email	@erin_tweets	Team meeting	0.100578078
		215	2023-08-04	Slack	_	Need assistance	0.691338675
		216	2023-08-07	Slack	_	Need assistance	
		217	2023-08-11	Slack	_	Need assistance	
		218	2023-08-05	Slack	_	Hello everyone!	
		219	2023-08-20			Exciting news!	
		220	2023-08-14	Email	-	Need assistance	
		221	2023-08-20		@erin_tweets		-0.404516522
	##	222	2023-08-20	Slack	dave@example	Exciting news!	-0.4/6039052

```
Great work!
## 223
        2023-08-16 Twitter
                             dave@example
                                                             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
                             @erin tweets
                                            Exciting news!
                                                             0.549038415
                      Email
  244
        2023-08-13
                              carol slack
                                            Exciting news!
##
                      Email
                                                             0.991050147
## 245
                             @erin_tweets Need assistance -0.240649289
        2023-08-18
                      Email
## 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
                              carol_slack
                                                             0.343653605
                      Email
                                              Team meeting
        2023-08-01
## 249
                      Slack
                             dave@example
                                              Team meeting -0.176315426
## 250
        2023-08-05
                              carol_slack
                                              Team meeting -0.320228465
                      Slack
## 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
                             @erin tweets
        2023-08-19
                      Email
                                              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
                              @frank chat Need assistance -0.611636332
##
        2023-08-12
                      Slack
## 270
        2023-08-08
                                            Exciting news! -0.388513986
                      Slack
                              carol_slack
## 271
        2023-08-19
                             @erin_tweets
                      Slack
                                               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
                              @frank_chat
                                              Team meeting -0.143542713
## 275
        2023-08-16
                      Slack
## 276
        2023-08-06 Twitter
                              carol slack
                                              Team meeting -0.385177557
##
  277
        2023-08-06
                      Email
                             dave@example Need assistance -0.438415068
                                              Team meeting -0.549432104
## 278
        2023-08-06 Twitter
                              @bob tweets
```

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## 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		0.353438236
## 288	2023-08-03		_	Hello everyone!	
## 289	2023-08-20	Twitter	alice@example	Fun weekend!	0.280627117
## 290	2023-08-15		-	Need assistance	-0.639425840
## 291			alice@example	Team meeting	
## 292	2023-08-09	Slack	@erin_tweets	-	
## 293	2023-08-04	Email	-	Need assistance	
## 294	2023-08-18		carol_slack		0.222249684
## 295	2023-08-20	Email	@bob tweets		
## 296	2023-08-12		dave@example	_	0.195303030
## 297	2023-08-14		dave@example		0.474564350
## 298	2023-08-20	Slack	@erin tweets		
## 299	2023-08-20	Email	carol slack	Team meeting	
## 300	2023-08-02		@erin tweets	Exciting news!	
## 300	2023-08-09		_	Need assistance	0.665302936
## 302	2023-08-17		@erin tweets	Fun weekend!	
## 302	2023-08-08	Slack	@erin tweets		-0.417730042
## 303	2023-08-08	Slack	@erin tweets	Exciting news!	
## 305	2023-08-19	Email	dave@example	Team meeting	
## 305	2023-08-19	-	alice@example	Team meeting	
## 300	2023-08-19	Slack	_		-0.249497372
			dave@example		
## 308	2023-08-15	Slack	@bob_tweets	Team meeting	
## 309	2023-08-10		@erin_tweets	Team meeting	
## 310	2023-08-06	Email	carol_slack	Great work!	0.766328182
## 311	2023-08-08		alice@example	Exciting news!	
## 312 ## 313	2023-08-07	Slack	@bob_tweets	-	0.370947586
			=	Hello everyone!	
## 314	2023-08-01	Email	@frank_chat	Team meeting	
## 315	2023-08-18		alice@example	•	0.422912350
## 316	2023-08-03	Email	_	Need assistance	
## 317	2023-08-04	Slack	dave@example	Fun weekend!	
## 318	2023-08-15	Email	_	Need assistance	0.385732211
## 319	2023-08-06		alice@example	Fun weekend!	
## 320	2023-08-11	Slack	=	Hello everyone!	0.879992486
## 321	2023-08-05		carol_slack	Team meeting	
## 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	-	Hello everyone!	-0.598425182
## 328	2023-08-16	Slack	dave@example	Exciting news!	0.461496073
## 329	2023-08-02		alice@example	Team meeting	0.964958043
## 330	2023-08-16		carol_slack	Exciting news!	
## 331	2023-08-19	Email	-	Hello everyone!	
## 332	2023-08-14	Slack	@erin_tweets	Exciting news!	0.336964048
## 333	2023-08-07	Slack	@erin_tweets		-0.643276188
## 334	2023-08-01	Twitter	<pre>@bob_tweets</pre>	Exciting news!	-0.452694423

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##	335	2023-08-11	Twitter	<pre>@bob_tweets</pre>	Exciting news!	0.260118117
##	336	2023-08-18	Slack	<pre>@bob_tweets</pre>	Need assistance	-0.754348847
##	337	2023-08-14	Email	dave@example	Need assistance	-0.829999507
##	338	2023-08-14	Email	$\verb"alice@example"$	Need assistance	0.043240849
##	339	2023-08-01	Slack	carol_slack	Fun weekend!	-0.877705400
##	340	2023-08-12	Twitter	<pre>@bob_tweets</pre>	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		-0.317266905
##	344	2023-08-08	Twitter	alice@example	Hello everyone!	
	345	2023-08-07	Twitter	dave@example	Exciting news!	
	346	2023-08-14	Slack	dave@example	Hello everyone!	
	347	2023-08-04		@bob_tweets		0.163814227
	348	2023-08-04	Email	@erin_tweets		
	349	2023-08-18	Slack	@erin_tweets	-	
	350	2023-08-01	Email	_	Need assistance	
	351	2023-08-10	Slack	_	Need assistance	
	352	2023-08-16		_	Need assistance	
	353	2023-08-18	Email	_	Exciting news!	
	354	2023-08-14	Email	_	Need assistance	
	355	2023-08-14		=	Need assistance	
	356	2023-08-20		@bob_tweets		0.236553716
	357	2023-08-08		=	Great work!	0.222402995
	358	2023-08-19		_	Great work!	0.301563812
	359	2023-08-17	Email	-	Hello everyone!	0.976894801
	360	2023-08-07	Slack	carol_slack	Team meeting	0.190247875
	361	2023-08-07		_	Need assistance	0.895823483
	362	2023-08-01	Slack	dave@example	_	0.093826082
	363 364	2023-08-17 2023-08-04	Slack	alice@example	Great work!	0.652192219
	365	2023-08-04	Slack	_	Need assistance Hello everyone!	0.088740259 0.740663246
	366	2023-08-08		dave@example	-	0.775130778
	367	2023-08-17		dave@example	Fun weekend!	0.124404418
	368	2023-00-11	Slack	-	Hello everyone!	0.487545231
	369	2023-08-18		_	Need assistance	
	370	2023-08-17	Email	@frank chat		-0.951084716
	371	2023-08-10	Email	@erin tweets	Exciting news!	0.679597112
	372	2023-08-12		alice@example	Team meeting	0.774573303
	373	2023-08-02	Email	dave@example	=	
	374	2023-08-18	Email	@frank chat	Fun weekend!	0.061621126
	375	2023-08-14	Slack	_	Need assistance	
	376	2023-08-08		@frank chat	Fun weekend!	0.484796492
	377	2023-08-18		dave@example	Exciting news!	
	378	2023-08-17	Twitter	-	Need assistance	
##	379	2023-08-12	Email	ebob 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		-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
					_	

	, 17.00				Chancinge-4	
##	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	efrank chat		-0.371842024
	398	2023-08-18	Twitter	dave@example		-0.012694929
	399	2023-08-12	Twitter	@erin tweets	=	0.650313874
	400	2023-08-02	Email	dave@example	_	-0.357268680
	401	2023-08-14	Slack	=	Need assistance	
	402	2023-08-15		_	Need assistance	
	403	2023-08-11	Slack	_	Need assistance	0.930096855
	404	2023-08-18	Slack	dave@example	Fun weekend!	
	405	2023-08-19	Twitter	dave@example	Team meeting	-0.284638313
	406	2023-08-19	Email	carol slack	_	0.892766985
	407	2023-08-07	Email	- @bob_tweets		-0.150205611
	408	2023-08-05	Email	-	Hello everyone!	
	409	2023-08-10	Email	@frank chat	-	0.533465849
	410	2023-08-02	Twitter	dave@example		0.516138048
	411	2023-08-18	Twitter	-	Need assistance	0.116931847
	412	2023-08-15	Slack		Need assistance	0.674294885
##	413	2023-08-06	Email	efrank chat		0.696377364
##	414	2023-08-20	Email	dave@example	Team meeting	0.985037738
##	415	2023-08-10	Slack	_	Need assistance	-0.904224418
##	416	2023-08-11	Email	alice@example	Exciting news!	
##	417	2023-08-14	Slack	@erin tweets		-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
		2023-08-12 2023-08-20	Email	_	Need assistance Fun weekend!	
##	421		Email Twitter	_	Fun weekend!	
## ##	421 422	2023-08-20	Email Twitter	dave@example	Fun weekend! Great work!	-0.818538250 -0.349391197
## ## ##	421 422 423	2023-08-20 2023-08-20	Email Twitter Twitter Email	dave@example @erin_tweets	Fun weekend! Great work!	-0.818538250 -0.349391197 -0.212464974
## ## ## ##	421 422 423 424	2023-08-20 2023-08-20 2023-08-02	Email Twitter Twitter Email Twitter	dave@example @erin_tweets dave@example	Fun weekend! Great work! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402
## ## ## ##	421 422 423 424 425	2023-08-20 2023-08-20 2023-08-02 2023-08-19	Email Twitter Twitter Email Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455
## ## ## ## ##	421 422 423 424 425 426	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-09	Email Twitter Twitter Email Twitter Slack Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455
## ## ## ## ##	421 422 423 424 425 426 427	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-09 2023-08-11	Email Twitter Twitter Email Twitter Slack Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455
## ## ## ## ## ##	421 422 423 424 425 426 427 428	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-16	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896
## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-14 2023-08-16 2023-08-05	Email Twitter Email Twitter Slack Email Twitter Slack Twitter Slack Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533
## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-05 2023-08-05 2023-08-01	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272
## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-14 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-10	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916
## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-14 2023-08-09 2023-08-05 2023-08-05 2023-08-01 2023-08-10 2023-08-04	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099
## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-01 2023-08-04 2023-08-20	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971
## ## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-10 2023-08-20 2023-08-20	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email Slack	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Great work!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005
## ## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-05 2023-08-05 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-20	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Slack Slack	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets derin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771
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## ## ## ## ## ## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-16 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Slack Email Slack Slack Slack Email Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example dave@example deve@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news! Great work! Team meeting	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032
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######################################	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-09 2023-08-09	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Slack Email Slack Email Email Slack Email Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example @bob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example dave@example dave@example dave@example gerin_tweets alice@example @frank_chat @frank_chat	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news! Great work! Team meeting Fun weekend! Great work! Fun weekend! Fun weekend!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032 0.397376804 0.263225980 0.791513952
######################################	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-04 2023-08-07 2023-08-04 2023-08-06 2023-08-08	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Email Email Email Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example @bob_tweets @frank_chat @bob_tweets @frank_chat carol_slack dave@example dave@example dave@example dave@example gerin_tweets alice@example @frank_chat @frank_chat @frank_chat	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news! Great work! Team meeting Fun weekend! Great work! Fun weekend! Fun weekend! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032 0.397376804 0.263225980 0.791513952 -0.050068120
######################################	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-04 2023-08-07	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Slack Email Email Email Email Email Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example dave@example dave@example dave@example frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Great work! Exciting news! Great work! Team meeting Fun weekend! Great work! Fun weekend! Exciting news! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032 0.397376804 0.263225980 0.791513952 -0.050068120 -0.355751095
######################################	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-04 2023-08-07	Email Twitter Twitter Email Twitter Slack Email Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Email Slack Email Twitter Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example dave@example dave@example dave@example frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news! Great work! Team meeting Fun weekend! Great work! Fun weekend! Fun weekend! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032 0.397376804 0.263225980 0.791513952 -0.050068120

```
## 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
                              @bob tweets Need assistance
        2023-08-13 Twitter
                                                            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
                     Email
                              @frank chat
        2023-08-16
                                              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
                                                            0.266619468
                                               Great work!
## 472
                                           Exciting news!
        2023-08-18 Twitter
                              @bob_tweets
                                                            0.290797958
## 473
                             @erin_tweets
        2023-08-20 Twitter
                                              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	<pre>@bob_tweets</pre>	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	<pre>Hello everyone!</pre>	-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	<pre>Hello everyone!</pre>	-0.029610693
##	527	2023-08-08	Email	alice@example	Exciting news!	0.723251828
##	528	2023-08-07	Email	<pre>@bob_tweets</pre>	Exciting news!	-0.616928389
##	529	2023-08-01	Twitter	@erin_tweets	<pre>Hello everyone!</pre>	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	<pre>@frank_chat</pre>	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	=	Need assistance	0.454688824
##	542	2023-08-11	Slack	@frank_chat	Team meeting	-0.642315470
##		2023-08-14		<pre>@bob_tweets</pre>	-	
##		2023-08-10		=	Need assistance	
##		2023-08-19	Email	@erin_tweets	Fun weekend!	0.149510738
##				=	Hello everyone!	
##		2023-08-14		_	Hello everyone!	
	548	2023-08-08	Email	-	Need assistance	
##		2023-08-04	Slack	_	Hello everyone!	
##				alice@example	Team meeting	
##		2023-08-13		@erin_tweets		-0.956337988
##		2023-08-15	Email	@frank_chat		0.120376800
##		2023-08-08		@frank_chat	Fun weekend!	
##		2023-08-15	Slack	@erin_tweets	Team meeting	
##		2023-08-08	Email	_	Need assistance	
##		2023-08-10	Slack	dave@example	Exciting news!	
##		2023-08-18	Slack	@frank_chat	Team meeting	
##	558	2023-08-20	rwitter	alice@example	Fun weekend!	-0.436848105

```
## 559
                     Email alice@example Need assistance
        2023-08-18
                                                            0.275121063
## 560
                             @erin_tweets Need assistance
        2023-08-12
                     Email
                                                            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
                             dave@example
## 564
        2023-08-20 Twitter
                                           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
                             dave@example
        2023-08-14 Twitter
                                              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
                              @frank_chat Hello everyone!
        2023-08-03
                      Email
                                                             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
                              @frank_chat Hello everyone!
                     Email
                                                            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
                     Email
                                              Fun weekend! -0.797102704
        2023-08-01
                              @frank_chat
## 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
                     Email
                                              Team meeting -0.229243480
## 607
        2023-08-17
                              @frank_chat
## 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
                                                            0.515643027
                                               Great work!
## 613
        2023-08-17 Twitter
                             @erin tweets Hello everyone! -0.606922586
                              carol slack Hello everyone!
## 614
        2023-08-02 Twitter
                                                            0.173851238
```

```
## 615
                      Slack
                              @frank_chat
                                            Exciting news!
                                                             0.769946682
        2023-08-10
## 616
                             @erin_tweets Hello everyone! -0.172054263
        2023-08-06
                      Email
## 617
        2023-08-04
                              carol slack Need assistance
                      Email
                                                             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
                              carol_slack
        2023-08-10 Twitter
                                            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
                      Slack
        2023-08-19
                             @erin_tweets
                                               Great work! -0.725357866
## 639
        2023-08-03
                      Slack
                             @erin tweets
                                              Team meeting -0.812502595
  640
##
        2023-08-08 Twitter
                                               Great work!
                                                             0.564973874
                              @bob_tweets
## 641
        2023-08-13 Twitter
                             dave@example
                                              Fun weekend! -0.042934414
## 642
        2023-08-17
                      Slack
                              carol_slack
                                                             0.169502832
                                              Fun weekend!
##
  643
        2023-08-12
                                                             0.383860287
                      Email alice@example
                                               Great work!
##
  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
                             @erin tweets
                                              Fun weekend! -0.835450725
                      Email
##
  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
                             @erin tweets Hello everyone! -0.446434771
        2023-08-14
                      Email
##
  659
        2023-08-05
                      Email alice@example
                                              Fun weekend!
                                                             0.347548683
  660
                              @bob_tweets
##
        2023-08-18
                      Slack
                                              Fun weekend!
                                                             0.567603516
  661
##
        2023-08-19 Twitter
                              @frank chat
                                            Exciting news!
                                                             0.388266448
## 662
        2023-08-15 Twitter
                                              Team meeting -0.144443278
                              @bob_tweets
## 663
        2023-08-01
                              @bob_tweets Hello everyone!
                                                             0.902623749
                      Email
## 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
                      Slack alice@example Hello everyone! -0.812013249
        2023-08-08
```

```
## 671
                     Slack
                              carol_slack Hello everyone!
        2023-08-02
                                                            0.805289558
## 672
                              @frank_chat
        2023-08-10
                     Email
                                              Team meeting -0.320194449
## 673
        2023-08-14
                              @bob tweets Hello everyone!
                     Slack
                                                            0.450289166
## 674
        2023-08-18
                              carol slack
                                           Exciting news! -0.546088908
                     Email
## 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
                             @erin_tweets Need assistance
        2023-08-15 Twitter
                                                            0.599532404
## 694
                              @frank_chat
        2023-08-03
                     Email
                                               Great work! -0.022698464
## 695
                             @erin tweets
        2023-08-05
                     Email
                                           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
                                                            0.041871845
                     Slack
                              @bob_tweets
                                               Great work!
## 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
        2023-08-16 Twitter alice@example
## 719
                                           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
                     Email
        2023-08-03
                              @frank_chat
                                               Great work! -0.222633559
## 723
        2023-08-14
                     Email alice@example
                                               Great work! -0.111933967
## 724
        2023-08-06
                              @bob_tweets
                                               Great work! -0.417041691
                     Email
##
  725
        2023-08-12
                     Email
                             dave@example
                                               Great work! -0.841218561
                             @erin tweets Need assistance -0.173975688
## 726
        2023-08-03
                     Slack
```

	,					
##	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	<pre>Hello everyone!</pre>	0.605556316
##	730	2023-08-20	Email	alice@example	Fun weekend!	0.851679420
##	731	2023-08-07	Email	<pre>@bob_tweets</pre>	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	<pre>Hello everyone!</pre>	-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	<pre>@bob_tweets</pre>	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	<pre>Hello everyone!</pre>	-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	$\verb"alice@example"$	Fun weekend!	0.542070733
##	757	2023-08-07	Slack	<pre>@bob_tweets</pre>	Need assistance	0.251102221
##	758	2023-08-01	Slack	@frank_chat	Team meeting	-0.113114946
##	759	2023-08-08	Email	alice@example	Hello everyone!	
	760	2023-08-01	Email	<pre>@bob_tweets</pre>	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	
	764	2023-08-11		carol_slack	Great work!	0.782265475
	765	2023-08-12		alice@example	Exciting news!	
	766	2023-08-11	Slack	@bob_tweets		-0.549234209
	767	2023-08-03	Email	@frank_chat	Fun weekend!	0.992682932
	768	2023-08-08		carol_slack	Exciting news!	0.614791796
	769	2023-08-01		_	Hello everyone!	
	770	2023-08-10	Slack	@bob_tweets	Exciting news!	
	771	2023-08-12		alice@example	Team meeting	0.255163795
	772	2023-08-16	Email	_	Hello everyone!	
	773	2023-08-10		@erin_tweets	Great work!	0.181200765
	774	2023-08-09	Email	_	Hello everyone!	
	775	2023-08-01		@frank_chat	Great work!	0.159243134
	776 777	2023-08-15	Slack	dave@example		-0.481857921
	777 778	2023-08-19		<pre>@frank chat</pre>	Hello everyone! Exciting news!	0.795437461
	778 779	2023-08-04		@bob tweets	-	-0.674055766
	780	2023-08-10	Slack	-	Hello everyone!	0.747580624
	781	2023-08-07		=	Need assistance	0.739025190
	782	2023-08-15	Slack	_	Hello everyone!	
ııπ	, 52	2023-00-13	DIGCK	crrain_cnac	cvcryone:	0.500014/42

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##	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	<pre>Hello everyone!</pre>	-0.945477226
##	794	2023-08-12	Twitter	@erin_tweets	Need assistance	-0.329706852
##	795	2023-08-19	Twitter	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	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	<pre>Hello everyone!</pre>	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	<pre>Hello everyone!</pre>	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	<pre>@bob_tweets</pre>	Exciting news!	0.553149406
##	816	2023-08-04	Email	<pre>@bob_tweets</pre>	Fun weekend!	-0.953222217
##	817	2023-08-09	Email	$\verb"alice@example"$	Fun weekend!	0.893210486
##	818	2023-08-11	Twitter	alice@example	<pre>Hello everyone!</pre>	-0.120084892
##	819	2023-08-08	Slack	@erin_tweets	<pre>Hello everyone!</pre>	-0.568787924
##	820	2023-08-11	Email	$\verb"alice@example"$	Team meeting	-0.641849058
##	821	2023-08-18	Twitter	$\verb"alice@example"$	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	<pre>@frank_chat</pre>	Fun weekend!	-0.530567507
##	825	2023-08-14	Twitter	dave@example	Fun weekend!	-0.998980226
##	826	2023-08-09	Twitter	<pre>@frank_chat</pre>	<pre>Hello everyone!</pre>	0.649366590
##	827	2023-08-12	Email	carol_slack	Team meeting	-0.492082868
##	828	2023-08-03	Slack	$\verb"alice@example"$	Need assistance	0.135939530
##	829	2023-08-07	Slack	dave@example	<pre>Hello everyone!</pre>	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	$\verb"alice@example"$	Fun weekend!	0.312383833
	833	2023-08-14	Slack	<pre>@bob_tweets</pre>	Team meeting	-0.709024122
	834	2023-08-18		<pre>@bob_tweets</pre>	Fun weekend!	0.866654206
	835	2023-08-03	Email		<pre>Hello everyone!</pre>	-0.440484574
	836	2023-08-12		carol_slack	Team meeting	
	837	2023-08-10	Twitter	carol_slack	Great work!	0.268422757
##	838	2023-08-18	Slack	<pre>@bob_tweets</pre>	Fun weekend!	-0.898072343

```
Great work!
## 839
                              @frank_chat
        2023-08-19
                      Email
                                                             0.463513046
## 840
                              carol slack Need assistance -0.161143415
        2023-08-03
                      Email
## 841
                      Email alice@example Hello everyone! -0.040838550
        2023-08-19
## 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
                                            Exciting news!
                             @erin tweets
                                                             0.638825124
## 861
        2023-08-05
                      Email alice@example Hello everyone! -0.822144668
## 862
                              @bob_tweets Hello everyone! -0.160779689
        2023-08-07
                      Slack
## 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
                                              Fun weekend! -0.511013610
                              @bob_tweets
##
  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
                                            Exciting news! -0.750027833
                             dave@example
## 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
                             @erin_tweets
##
        2023-08-05 Twitter
                                                             0.619198539
                                              Fun weekend!
  885
##
        2023-08-01
                      Email
                              carol slack
                                                             0.605523043
                                               Great work!
## 886
        2023-08-14
                      Email
                             dave@example Hello everyone! -0.359136123
## 887
        2023-08-16
                              @bob_tweets
                                               Great work! -0.351176404
                      Email
##
  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
                              @frank chat
                      Slack
                                              Team meeting -0.472906698
  893
##
        2023-08-19
                      Slack
                             dave@example
                                              Team meeting -0.789976987
## 894
                              @bob tweets Need assistance 0.743181323
        2023-08-06
                      Slack
```

1712025	, 17.00				Chancinge-4	
##	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	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	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	$\verb"alice@example"$	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	<pre>@bob_tweets</pre>	Great work!	-0.666475324
	928	2023-08-10	Twitter	_	Need assistance	
	929	2023-08-09	Slack	-	Need assistance	
##	930	2023-08-18	Twitter	alice@example	<pre>Hello everyone!</pre>	
	931	2023-08-01	Email	carol_slack		-0.389590032
	932	2023-08-11	Email	carol_slack		
##	933	2023-08-03	Slack	-	Need assistance	
	934	2023-08-20		-	Hello everyone!	
	935	2023-08-17	Email	dave@example	Team meeting	
	936	2023-08-13		dave@example	=	
	937	2023-08-13		carol_slack		
	938	2023-08-04	Email	@bob_tweets		-0.251496902
	939	2023-08-16	Email	_	Need assistance	
	940	2023-08-17		_	Need assistance	
	941	2023-08-06		carol_slack	Exciting news!	
	942	2023-08-01		alice@example	_	
	943	2023-08-08		alice@example	_	
	944 945			alice@example		-0.806566573
		2023-08-06	Slack	carol_slack	Exciting news!	
	946 947	2023-08-08 2023-08-20	Email Slack	_	<pre>Hello everyone! Hello everyone!</pre>	
	947	2023-08-20		-	Need assistance	
	948	2023-08-01	Slack	-	Exciting news!	
	950	2023-08-02	Email	=	Need assistance	
π#	<i>)</i>	2023-00-11	imall	aaveeevambie	MCCG appropriate	0.000400033

```
## 951
                                               Great work! -0.704862314
                             @erin_tweets
        2023-08-11
                      Slack
## 952
        2023-08-05
                      Slack
                              @frank_chat Need assistance -0.129298556
## 953
        2023-08-07
                                                             0.079245736
                      Email
                              @bob tweets
                                              Fun weekend!
## 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
                             dave@example Need assistance
                                                             0.492307736
                      Email
##
  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
                             @erin tweets
        2023-08-02
                      Slack
                                               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
                             @erin_tweets Need assistance
        2023-08-02 Twitter
                                                             0.821079701
## 974
                      Slack
                                            Exciting news!
                                                             0.085280708
        2023-08-08
                             @erin_tweets
## 975
                             @erin tweets
        2023-08-01
                      Email
                                              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
                              @bob_tweets
                                                             0.170066014
        2023-08-07
                      Slack
                                               Great work!
## 980
        2023-08-08 Twitter alice@example
                                               Great work!
                                                             0.552484959
## 981
        2023-08-14
                      Email
                             @erin_tweets
                                               Great work! -0.129584252
## 982
                      Email
                             @erin tweets
        2023-08-13
                                              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
                                              Team meeting
                                                             0.243233590
                              @bob tweets
##
  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
                              @frank chat Hello everyone!
                      Email
                                                             0.583445542
##
        sentiment_label
## 1
               Positive
## 2
               Positive
## 3
               Negative
## 4
               Positive
## 5
               Positive
```

0/2023	3, 19:06	
##	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
##	31	Negative
## ##	32	Positive
##	33 34	Positive Negative
##	35	Positive
##	36	Positive
##	37	Positive
##	38	Negative
##		Negative
##		Positive
##	41	Positive
##	42	Negative
##	43	Negative
##	44	Negative
##	45	Negative
##	46	Positive
##	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

9/2023, 19	:06	
## 62	!	Negative
## 63	;	Negative
## 64	·	Positive
## 65	i	Negative
## 66	i	Positive
## 67	•	Negative
## 68	1	Positive
## 69		Positive
## 70)	Positive
## 71		Negative
## 72	!	Negative
## 73		Negative
## 74		Positive
## 75		Negative
## 76		Positive
## 77		Negative
## 78		Positive
## 79		Negative
## 80		Positive
## 81		Positive
## 82		Positive
## 83		Positive
## 84		Negative
## 85		
## 86		Negative
## 87		Negative
		Negative
## 88 ## 89		Negative Positive
## 90		Negative
## 91		Negative
## 92		Negative
## 93		Negative
## 94		Negative
## 95		Negative
## 96		Negative
## 97		Negative
## 98		Negative
## 99		Negative
## 10		Negative
## 10		Positive
## 10		Negative
## 10		Negative
## 10		Positive
## 10		Negative
## 10		Negative
## 11		Negative
## 11		Positive
## 11		Negative
## 11		Negative
## 11		Negative
## 11		Positive
## 11		Negative
## 11	.7	Negative

9/2023	3, 19:06	
##	118	Positive
##	119	Negative
##	120	Negative
##	121	Positive
##	122	Negative
##	123	Negative
##	124	Negative
##	125	Negative
##	126	Positive
##	127	Negative
##	128	Negative
##	129	Positive
##	130	Negative
##	131	Negative
##	132	Positive
##	133	Positive
##	134	Positive
##	135	Positive
##	136	Positive
##	137	Positive
##	138	Positive
##	139	Positive
##	140	Negative
##	141	Positive
##	142	Positive
##	143	Negative
##	144	Positive
##	145	Negative
##	146	Positive
##	147	Negative
##	148	Positive
##	149	${\tt Positive}$
##	150	${\tt Positive}$
##	151	Negative
##	152	${\tt Positive}$
##	153	Negative
##	154	Positive
##	155	Negative
##	156	Negative
##	157	Negative
##	158	Negative
##	159	Positive
##	160	Negative
##	161	Negative
##	162	Positive
##	163	Positive
##	164	Positive
##	165	Negative
##	166	Negative
##	167	Negative
##	168	Negative
##	169	Positive
##	170	Positive
##		Negative
##		Positive
##	173	Negative

9/2023, 19:06	
## 174	Positive
## 175	Positive
## 176	Negative
## 177	Negative
## 178	Negative
## 179	Negative
## 180	Positive
## 181	Negative
## 182	Negative
## 183	Positive
## 184	Negative
## 185	Positive
## 186	Negative
## 187	Positive
## 188	Negative
## 189	Positive
## 190	Negative
## 191	Positive
## 192	Negative
## 193	Positive
## 194	Positive
## 195 ## 106	Positive
## 196	Negative
## 197 ## 100	Negative
## 198 ## 199	Negative Positive
## 199	Positive
## 200 ## 201	Positive
## 202	Positive
## 202 ## 203	Negative
## 204	Positive
## 205	Negative
## 206	Positive
## 207	Positive
## 208	Negative
## 209	Positive
## 210	Positive
## 211	Negative
## 212	Positive
## 213	Positive
## 214	Positive
## 215	Positive
## 216	Negative
## 217	Negative
## 218	Negative
## 219	Positive
## 220	Positive
## 221	Negative
## 222	Negative
## 223	Positive
## 224	Negative
## 225	Positive
## 226	Negative
## 227	Negative
## 228	Positive
## 229	Negative

0/2023, 19	9:06	
## 2	30	Negative
## 2	31	Positive
## 2	32	Negative
## 2	33	Negative
## 2	34	Negative
## 2	35	Positive
## 2	36	Positive
## 2	37	Positive
## 2	38	Positive
## 2	39	Positive
## 2	40	Positive
## 2	41	Negative
## 2	42	Negative
## 2	43	Positive
## 2	44	Positive
## 2	45	Negative
## 2	46	Negative
## 2	47	Positive
## 2	48	Positive
## 2	49	Negative
## 2	50	Negative
## 2	51	Positive
## 2	52	Positive
## 2	53	Negative
## 2	54	Positive
## 2	55	Negative
## 2	56	Positive
## 2	57	Positive
	58	Positive
## 2	59	Positive
	60	Positive
	61	Positive
	62	Negative
	63	Positive
	64	Negative
	65	Positive
	66	Negative
	67	Positive
	68	Positive
	69	Negative
	70	Negative
	71	Positive
	72 73	Positive
	73	Negative
	74 75	Positive
	75 76	Negative
	76 77	Negative Negative
	78	Negative
	78 79	Positive
	80	Negative
	81	Positive
	82	Negative
	83	Positive
	84	Positive
	85	Negative
=	-	

3, 19:06	
286	Negative
287	Positive
288	Positive
289	Positive
290	Negative
291	Positive
292	Positive
293	Positive
294	Positive
295	Negative
296	Positive
297	Positive
298	Negative
299	Positive
300	Negative
301	Positive
302	Negative
303	Negative
304	Negative
305	Positive
	Negative
	Negative
	Negative
	Positive
	Positive
	Negative
	Positive
	Negative
	Negative
	Positive
	Negative
	Negative
	Positive
	Negative
	Positive
321	
	POSITIVE
322	Positive Positive
322 323	Positive
323	Positive Negative
323 324	Positive Negative Negative
323 324 325	Positive Negative Negative Negative
323 324 325 326	Positive Negative Negative Negative Positive
323 324 325 326 327	Positive Negative Negative Negative Positive Negative
323 324 325 326 327 328	Positive Negative Negative Negative Positive Positive
323 324 325 326 327 328 329	Positive Negative Negative Positive Negative Positive Positive Positive
323 324 325 326 327 328 329 330	Positive Negative Negative Positive Negative Positive Positive Positive
323 324 325 326 327 328 329 330 331	Positive Negative Negative Positive Negative Positive Positive Negative Positive
323 324 325 326 327 328 329 330 331 332	Positive Negative Negative Positive Negative Positive Positive Positive Positive Positive
323 324 325 326 327 328 329 330 331 332 333	Positive Negative Negative Positive Positive Positive Negative Positive Positive Positive Positive
323 324 325 326 327 328 329 330 331 332 333	Positive Negative Negative Positive
323 324 325 326 327 328 329 330 331 332 333 334 335	Positive Negative Negative Positive Negative Negative Positive
323 324 325 326 327 328 329 330 331 332 333 334 335 336	Positive Negative Negative Positive Positive Positive Positive Positive Positive Positive Positive Positive Negative Negative Negative Negative Negative Negative
323 324 325 326 327 328 329 330 331 332 333 334 335 336 337	Positive Negative Negative Negative Positive Positive Positive Positive Positive Positive Positive Positive Negative Negative Negative Negative Negative Negative Negative
323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	Positive Negative Negative Positive Positive Positive Positive Positive Positive Positive Positive Positive Negative Negative Negative Positive Negative Positive Negative Positive Negative Positive
323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339	Positive Negative Negative Negative Positive Positive Positive Positive Positive Positive Negative Positive Negative Negative Negative Positive Negative Positive Negative Negative Negative Negative Negative Negative
323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	Positive Negative Negative Positive Positive Positive Positive Positive Positive Positive Positive Positive Negative Negative Negative Positive Negative Positive Negative Positive Negative Positive
	287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320

9/2023	3, 19:06	
##	342	Positive
##	343	Negative
##	344	Positive
	345	Positive
	346	Positive
##		Positive
	348	Negative
	349	
		Negative
##		Negative
##		Positive
##	352	Negative
##		Negative
##		Negative
	355	Positive
	356	Positive
##		Positive
##	358	Positive
##		Positive
##		Positive
##	361	Positive
##		Positive
	369	Negative
	370	Negative
##		Positive
	372	Positive
##	373	Positive
##	374	Positive
##	375	Negative
##	376	Positive
##	377	Negative
##	378	Negative
##	379	Negative
##	380	Positive
##	381	Negative
##	382	Positive
##	383	Positive
##	384	Negative
##	385	Negative
##	386	Positive
##	387	Negative
##	388	Positive
##	389	Positive
##	390	Negative
##	391	Positive
##	392	Positive
##	393	Negative
##	394	Negative
##	395	Positive
##	396	Negative
##	397	Negative

9/2023	3, 19:06	
##	398	Negative
##	399	Positive
##	400	Negative
##	401	Positive
##	402	Positive
	403	Positive
	404	Negative
	405	Negative
	406	Positive
	407	Negative
	408	Positive
	409	Positive
	410	Positive
	411	Positive
	411	Positive
		Positive
	413	
	414	Positive
	415	Negative
	416	Negative
	417	Negative
##	418	Positive
##	419	Positive
##	420	Negative
##	421	Negative
##	422	Negative
##	423	Negative
##	424	Negative
##	425	Positive
##	426	Positive
##	427	Positive
##	428	Negative
##	429	Positive
##	430	Negative
##	431	Negative
##	432	Positive
	433	Positive
	434	Positive
	435	Positive
	436	Negative
	437	Negative
	438	Positive
	439	Negative
	440	Positive
	441	Positive
	442	Positive
	443	Negative
##		Negative
	445	Positive
	446	Positive
##		Positive
	448	Positive
	449	Positive
##	450	Positive
##	451	Negative
##	452	Negative
##	453	Positive

9/2023	3, 19:06	
##	454	Negative
##	455	Negative
##	456	Positive
##	457	Negative
##	458	Positive
##	459	Positive
##		Negative
##	461	Negative
##	462	Negative
##	463	Negative
##	464	Negative
##	465	Negative
##		Positive
##	467	Positive
##	468	Positive
##	469	Positive
##	470	Positive
##	471	Positive
##	472	Positive
##		Positive
##	474	Negative
##	474	_
##		Negative
	476	Positive
##	477	Positive
##	478	Negative
##	479	Negative
##	480	Negative
##		Negative
##	482	Positive
##	483	Negative
##		Negative
##	485	Positive
##	486	Positive
##	487	Negative
##	488	Negative
##		Negative
##	490	Positive
##	491	Negative
##	492	Positive
##	493	Positive
##	494	Negative
##	495	Negative
##	496	Negative
##	497	Positive
##	498	Positive
##	499	Negative
##	500	Negative
##	501	Positive
##	502	Positive
##	503	Positive
##	504	Negative
##	505	Positive
##	506	Negative
##	507	Negative
##		Positive
##	509	Negative

9/2023, 19:06	
## 510	Negative
## 511	Negative
## 512	Positive
## 513	Positive
## 514	Negative
## 515	Negative
## 516	Positive
## 517	Negative
## 518	Positive
## 519	Positive
## 520	Positive
## 521	Positive
## 522	Positive
## 523	Positive
## 524	Negative
## 525 ## 526	Positive
## 526 ## 527	Negative
## 527 ## 528	Positive
## 528 ## 529	Negative Positive
## 529 ## 530	Negative
## 531	Positive
## 532	Negative
## 533	Negative
## 534	Negative
## 535	Positive
## 536	Positive
## 537	Negative
## 538	Positive
## 539	Positive
## 540	Negative
## 541	Positive
## 542	Negative
## 543	Positive
## 544	Negative
## 545	Positive
## 546	Positive
## 547	Positive
## 548	Negative
## 549	Negative
## 550 ## 551	Positive
## 551 ## 553	Negative
## 552 ## 553	Positive Negative
## 554	Positive
## 555	Negative
## 556	Positive
## 557	Negative
## 558	Negative
## 559	Positive
## 560	Positive
## 561	Positive
## 562	Negative
## 563	Negative
## 564	Negative
## 565	Positive

9/2023	3, 19:06	
##	566	Negative
##	567	Negative
##	568	Positive
##	569	Positive
##	570	${\tt Positive}$
##	571	Negative
##	572	Positive
##	573	Positive
##	574	Negative
##	575	Negative
##		Positive
##	577	Negative
	578	Positive
##		Positive
##		Negative
## ##	581	Positive
	582 583	Negative
## ##	584	Positive Positive
##		Positive
##		Negative
##	587	Positive
##	588	Negative
##	589	Positive
##	590	Positive
##	591	Positive
##	592	Negative
##	593	Positive
##	594	Negative
##	595	Positive
##	596	${\tt Positive}$
##	597	Negative
##	598	Positive
##	599	Positive
##	600	Positive
##		Negative
##	602	Negative
##	603	Negative
##	604	Negative
##	605 606	Negative
## ##	607	Negative Negative
##	608	Negative
##	609	Positive
##	610	Positive
##	611	Negative
##	612	Positive
##	613	Negative
##	614	Positive
##	615	Positive
##	616	Negative
##	617	Positive
##	618	Negative
##	619	Positive
##	620	Negative
##	621	Negative

9/2023	3, 19:06	
##	622	Positive
##	623	Negative
##	624	Positive
##	625	Negative
##	626	Positive
##	627	Negative
##	628	Positive
##	629	Negative
##	630	Positive
##	631	Negative
##	632	Negative
##	633	Positive
##	634	Positive
##	635	Positive
##	636	Positive
##	637	Negative
##	638	Negative
##	639	Negative
##	640	Positive
## ##	641 642	Negative Positive
##	643	Positive
##	644	Negative
##	645	Positive
##	646	Negative
##	647	Positive
##	648	Negative
##	649	Negative
##	650	Negative
##	651	Negative
##	652	Negative
##	653	Positive
##	654	Positive
##	655	Positive
##	656	Positive
##	657	Positive
##	658	Negative
##	659	Positive
##	660	Positive
##	661	Positive
##	662	Negative
##	663	Positive
##	664	Negative
##	665	Positive
##	666	Negative
##	667	Negative
##	668	Positive
##	669	Negative
##	670	Negative
##	671	Positive
##	672	Negative
## ##	673 674	Positive
##	675	Negative
##	676	Negative Negative
##	677	Positive
π#	077	TOSTUTVE

9/2023	3, 19:06	
##	678	Negative
##	679	Negative
##	680	Positive
##	681	Negative
##	682	Negative
##	683	Positive
##	684	Positive
##	685	Positive
##	686	Positive
##	687	Negative
##	688	Positive
##	689	Negative
##	690	Positive
##	691	Negative
##	692	Negative
##	693	Positive
##	694	Negative
##	695	Negative
##	696	Negative
## ##	697 698	Negative Positive
##	699	
##	700	Negative Positive
##	701	Negative
##	702	Negative
##	703	Negative
##	704	Positive
##	705	Negative
##	706	Positive
##	707	Positive
##	708	Positive
##	709	Negative
##	710	Positive
##	711	Positive
##	712	Negative
##	713	Positive
##	714	Negative
##	715	Negative
##	716	Positive
##	717	Positive
##	718	Positive
##	719	Positive
##	720	Negative
##	721	Positive
##	722	Negative
##	723	Negative
## ##	724 725	Negative
##		Negative
##	726 727	Negative Negative
##	727	Positive
##	729	Positive
##	730	Positive
##	731	Positive
##		Negative
##	733	Negative
"		

9/2023	3, 19:06	
##	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
##	753	Negative
##	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
##	767	Positive
##	768	Positive
##	769	Negative
##		Negative
##	771	Positive
##		Negative
##	773	Positive
##	774	Negative
##		Positive
##	776	Negative
##		Negative
##	778	Positive
##	779	Negative
##	780	Positive
##	781	Positive
##		Negative
##	783	Positive
##	784	Negative
##		Negative
##	786	Negative
##	787	Positive
##	788	Negative
##	789	Positive

9/2023	3, 19:06	
##	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
## ##	810 811	Negative
##	812	Negative 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
##	838 839	Negative Positive
##	839	Negative
##	840	Negative
##	842	Positive
##	843	Positive
##		Negative
##		Negative
11 TT	0.10	-10gucive

9/2023	3, 19:06	
##	846	Negative
##	847	Positive
##	848	Negative
##	849	Positive
##	850	${\tt Positive}$
##	851	Negative
##	852	Positive
##	853	Negative
##	854	Positive
##	855	Negative
##	856	Positive
##	857	Negative
##	858	Negative
##	859	Positive
##	860	Positive
##	861	Negative
##	862	Negative
##	863	Positive
##	864	Negative
##	865	Positive
##	866	Negative
##	867	Negative
##	868	Negative
##	869	Negative
## ##	870 871	Negative
##		Negative Negative
##	873	Positive
##	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

0/2023	3, 19:06	
##	902	Positive
##	903	Positive
##	904	Positive
##	905	Positive
##	906	Positive
##	907	Negative
##	908	Positive
##	909	Positive
##	910	Positive
##	911	Negative
##	912	Negative
##	913	Negative
##	914	Positive
##	915	Positive
##	916	Positive
##	917	Negative
##	918	Positive
##	919	Negative
##	920	Negative
##	921	Positive
##	922	Negative
##	923	Positive
##	924	Positive
##	925	Positive
##	926	Negative
##	927	Negative
##	928	Positive
##	929	Positive
##	930	Negative
##	931	Negative
##	932	Positive
##	933	Positive
##	934	Negative
##	935	Negative
##	936	Negative
##	937	Negative
##	938	Negative
##	939	Negative
##	940	Negative
##	941	Negative
##	942	Positive
##	943	Positive
##	944	Negative
##	945	Negative
##	946	Negative
##	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
```

##		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	<pre>Hello everyone!</pre>	-0.740855453
##	8	2023-08-04	Slack	alice@example	<pre>Hello everyone!</pre>	-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	-	0.819675826
##	12	2023-08-16		@erin_tweets		0.150156671
##		2023-08-01		-	Need assistance	0.676776995
##		2023-08-16		alice@example	_	0.320830711
##				alice@example	_	0.927110374
	16	2023-08-07	Email	<u> </u>	Great work!	0.642848774
##		2023-08-01		_	Need assistance	0.148395223
##		2023-08-20	Email	carol_slack	Team meeting	0.909817838
##		2023-08-08	Slack	_	Need assistance	
##		2023-08-06	Slack	=	Hello everyone!	0.968081689
##		2023-08-11		@bob_tweets		
## ##		2023-08-12		dave@example		-0.786887704
## ##		2023-08-12 2023-08-11	Slack Email	@frank_chat		
##		2023-08-11	-	@frank_chat		0.874191639 -0.539049788
##		2023-08-04		@bob_tweets		0.433930994
##		2023-08-16		@bob tweets	Exciting news!	
##				_	Need assistance	
##		2023-08-14		dave@example		0.866824818
##				alice@example		-0.189370414
##				=	Need assistance	
##		2023-08-15	Email	@bob tweets	Great work!	
##		2023-08-01	Twitter	_	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	<pre>@bob_tweets</pre>	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	 -	Need assistance	
##		2023-08-11	Email		Need assistance	
##		2023-08-06		@erin_tweets	=	
##		2023-08-06	Email	carol_slack		-0.579760317
##		2023-08-18		alice@example		
##		2023-08-07	Email	@frank_chat		
## ##		2023-08-20		alice@example		0.062977130
##		2023-08-16	Slack	@erin_tweets		
##				alice@example	_	0.210089974
##		2023-08-12 2023-08-10	Email	=	Need assistance	
## ##		2023-08-10	Slack	_	Need assistance Hello everyone!	
##		2023-08-13	Slack	@bob tweets	_	-0.443448592
ππ	J-1	2023-00-13	DIACK	enon_cweecs	GLEAC WOLK:	0.143440392

```
## 55
                     Slack
                                              Team meeting -0.774452816
        2023-08-16
                              @bob_tweets
## 56
        2023-08-13
                     Slack alice@example
                                               Great work!
                                                             0.480868685
## 57
        2023-08-07
                      Slack
                              @frank_chat Need assistance
                                                             0.914976185
                                              Fun weekend!
## 58
        2023-08-13 Twitter
                             dave@example
                                                             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
                                              Fun weekend!
                      Email
                             @erin tweets
                                                             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
                              @bob tweets
                                              Team meeting -0.060755176
                     Email
## 76
                                                             0.407506729
        2023-08-12 Twitter
                              carol slack
                                               Great work!
## 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
                                                             0.924440826
                                               Great work!
## 81
                              @bob_tweets
        2023-08-04 Twitter
                                              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
                             @erin tweets
                                              Team meeting -0.757670477
        2023-08-19
                      Email
## 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
                                                             0.891589128
                     Email
                             @erin_tweets
                                               Great work!
## 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
                                               Great work! -0.459148118
## 110
        2023-08-20
                     Slack alice@example
```

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	## 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	efrank 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	_	-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	$\verb"alice@example"$	Exciting news!	0.401543677
	## 137	2023-08-17	Twitter	@frank_chat	<pre>Hello everyone!</pre>	0.951721462
	## 138	2023-08-20	Twitter	$\verb"alice@example"$	Exciting news!	0.310656996
	## 139	2023-08-20	Twitter	carol_slack	Great work!	0.544291852
	## 140	2023-08-10	Slack	_	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		=	Need assistance	
	## 144			=	Hello everyone!	
	## 145	2023-08-19	Slack	dave@example		-0.526421044
	## 146	2023-08-12		=	Hello everyone!	0.278570379
	## 147	2023-08-01	Slack	@frank_chat	Team meeting	
	## 148	2023-08-11	Email	dave@example		0.509797142
	## 149	2023-08-17		carol_slack		
	## 150	2023-08-01	Slack	@bob_tweets	_	0.146396939
	## 151	2023-08-07		@bob_tweets	Fun weekend!	
	## 152	2023-08-20	Slack	@bob_tweets		0.203791809
	## 153 ## 154	2023-08-12 2023-08-17	Slack Email	carol_slack	Great work!	-0.733910211 0.709753431
	## 154	2023-08-17		<pre>@erin_tweets @erin_tweets</pre>	Fun weekend!	
	## 156				Hello everyone!	
	## 157	2023-08-11	Slack		Hello everyone!	
	## 158	2023-08-11		alice@example	Fun weekend!	
	## 159	2023-08-03		carol slack		0.044649603
	## 160	2023-08-18	Email	@bob tweets	Fun weekend!	
	## 161	2023-08-12	_	<pre>@bob_tweets</pre>		
	## 162	2023-08-17	Email	dave@example	Fun weekend!	
	## 163	2023-08-16		-	Need assistance	
	## 164	2023-08-01	Slack	@erin_tweets	Great work!	0.244422906
	## 165	2023-08-01		@frank_chat	Team meeting	
	## 166	2023-08-04		_	Need assistance	
				-		

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	##	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	<pre>Hello everyone!</pre>	-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	<pre>@bob_tweets</pre>	Team meeting	0.500293179
	##	188	2023-08-03	Twitter	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	-0.243440011
	##	189	2023-08-16	Slack	<pre>@bob_tweets</pre>	Team meeting	0.120248223
	##	190	2023-08-06	Email	<pre>@bob_tweets</pre>	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	$\verb"alice@example"$	Need assistance	0.877496709
	##	196	2023-08-10	Slack	$\verb"alice@example"$	Need assistance	-0.356432681
	##	197	2023-08-18	Twitter	dave@example	Need assistance	-0.577738499
	##	198	2023-08-07	Email	<pre>@bob_tweets</pre>	Team meeting	-0.767587414
	##	199	2023-08-12	Slack	alice@example	Fun weekend!	0.226010282
		200	2023-08-14	Slack	@erin_tweets	<pre>Hello everyone!</pre>	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	=	0.900116188
	##	205	2023-08-09	Twitter	alice@example	Fun weekend!	-0.391704335
		206	2023-08-07	Slack	-	Hello everyone!	0.079340591
		207	2023-08-16	Email	carol_slack	Great work!	0.306993762
		208	2023-08-10	Email	_	Need assistance	
		209	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.542777083
		210	2023-08-03	Email	_	Hello everyone!	0.575844854
		211	2023-08-03		dave@example	_	-0.024207670
		212	2023-08-05			Need assistance	
		213	2023-08-19	Slack	-	Hello everyone!	0.679174718
		214	2023-08-03	Email	@erin_tweets	Team meeting	
		215	2023-08-04	Slack	_	Need assistance	0.691338675
		216	2023-08-07	Slack	-	Need assistance	
		217	2023-08-11	Slack	_	Need assistance	
		218	2023-08-05	Slack	_	Hello everyone!	
		219	2023-08-20		=	Exciting news!	
		220 221	2023-08-14 2023-08-20	Email	-	Need assistance	0.867801995 -0.404516522
		222	2023-08-20	Slack	<pre>@erin_tweets dave@example</pre>		
	##	444	2023-00-20	STACK	aaveeexampie	EXCICING NEWS!	-0.4/0039032

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	##	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	efrank chat	Hello everyone!	-0.081353148
	##	234	2023-08-16	Twitter	_	Need assistance	
	##	235	2023-08-07	Slack		Hello everyone!	
	##	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!	
		254	2023-08-18	Email	@bob_tweets	Exciting news!	0.497974098
		255	2023-08-14	Slack	-	Need assistance	
		256	2023-08-10		alice@example	Great work!	0.804542714
		257	2023-08-10	Slack	@erin_tweets	Team meeting	
		258	2023-08-11		dave@example	Exciting news!	0.018387399
		259	2023-08-15	Email	_	Need assistance	0.414960733
		260	2023-08-20		@frank_chat	Team meeting	0.659773430
		261				Hello everyone!	0.532433989
		262	2023-08-20		alice@example	Exciting news!	
		263	2023-08-18		@frank_chat	Exciting news!	0.784590872
		264	2023-08-14		@bob_tweets		-0.970631612
		265	2023-08-02		dave@example	Exciting news!	0.817105632
		266	2023-08-19	Email	@erin_tweets	_	-0.823923888
		267 268	2023-08-02 2023-08-05		<pre>@erin_tweets carol slack</pre>	Exciting news! Fun weekend!	0.581556937 0.706561523
		269	2023-08-03	Slack	-	Need assistance	
		209		Slack	carol slack	Exciting news!	
		271	2023-08-08 2023-08-19	Slack	@erin tweets	Great work!	0.037533612
		271	2023-08-19	Email	carol slack	Fun weekend!	0.757286296
		272	2023-08-01	Slack	carol slack		-0.049394990
		274	2023-00-04		carol slack		0.049291416
		275	2023-00-05	Slack	@frank_chat		-0.143542713
		276	2023-08-06		carol slack		-0.385177557
		277	2023-08-06	Email	_	Need assistance	
		278	2023-08-06		@bob tweets		-0.549432104
	"						

	,					
##	279	2023-08-14	Email	carol_slack	Fun weekend!	0.446355308
##	280	2023-08-04	Email	$\verb"alice@example"$	Great work!	-0.769964864
##	281	2023-08-05	Slack	@erin_tweets	Need assistance	0.519475343
##	282	2023-08-06	Slack	$\verb"alice@example"$	Fun weekend!	-0.103599444
##	283	2023-08-04	Email	@frank_chat	Need assistance	0.063336529
##	284	2023-08-15	Slack	<pre>@bob_tweets</pre>	Exciting news!	0.423514269
##	285	2023-08-16	Slack	carol_slack	<pre>Hello everyone!</pre>	-0.321912185
##	286	2023-08-03	Slack	$\verb"alice@example"$	Great work!	-0.150377708
##	287	2023-08-18	Slack	@erin_tweets	Team meeting	0.353438236
##	288	2023-08-03	Twitter	dave@example	<pre>Hello everyone!</pre>	0.902683333
##	289	2023-08-20	Twitter	$\verb"alice@example"$	Fun weekend!	0.280627117
##	290	2023-08-15	Twitter	<pre>@frank_chat</pre>	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	_	Need assistance	0.017915569
	294	2023-08-18	Twitter	carol_slack	Exciting news!	0.222249684
##	295	2023-08-20	Email	@bob_tweets	Team meeting	
	296	2023-08-12		dave@example		0.195303030
##	297	2023-08-14		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	
	300	2023-08-02		@erin_tweets	Exciting news!	
	301	2023-08-09		_	Need assistance	
	302	2023-08-17		@erin_tweets	Fun weekend!	
	303	2023-08-08	Slack	@erin_tweets		-0.410223121
	304	2023-08-05	Slack	@erin_tweets	Exciting news!	
	305	2023-08-19	Email	dave@example	Team meeting	0.087382621
	306	2023-08-19		alice@example	Team meeting	
	307	2023-08-03	Slack	dave@example		-0.488912587
	308	2023-08-15	Slack	@bob_tweets	Team meeting	
	309	2023-08-10		@erin_tweets	Team meeting	
	310	2023-08-06	Email	carol_slack	Great work!	0.766328182
	311	2023-08-08		alice@example	Exciting news!	
	312	2023-08-07	Slack	@bob_tweets	Exciting news!	0.370947586
	313			-	Hello everyone!	
	314 315	2023-08-01 2023-08-18	Email	<pre>@frank_chat alice@example</pre>	Team meeting Exciting news!	0.422912350
	316	2023-08-18	Email	=	Need assistance	
	317	2023-08-03	Slack	dave@example	Fun weekend!	
	318	2023-08-15	Email	-	Need assistance	0.385732211
	319	2023-08-06		alice@example	Fun weekend!	
	320	2023-08-11	Slack	-	Hello everyone!	0.879992486
	321	2023-08-05		carol slack	Team meeting	
	322	2023-08-20	Slack	dave@example	Great work!	0.814900840
	323	2023-08-20	Email	@erin tweets	Exciting news!	
	324	2023-08-09	Slack	dave@example	Fun weekend!	
	325	2023-08-13	Email	carol slack	Exciting news!	
	326	2023-08-20	Slack	@erin_tweets	Fun weekend!	0.604609676
	327	2023-08-15	Email		Hello everyone!	
	328	2023-08-16	Slack	dave@example	Exciting news!	0.461496073
	329			alice@example	Team meeting	0.964958043
	330	2023-08-16		carol slack	Exciting news!	
	331	2023-08-19	Email	_	Hello everyone!	0.179850068
	332	2023-08-14	Slack	@erin_tweets	Exciting news!	0.336964048
	333	2023-08-07	Slack	@erin_tweets		-0.643276188
##	334	2023-08-01	Twitter	ebob_tweets	Exciting news!	-0.452694423
				_	-	

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	##	335	2023-08-11	Twitter	<pre>@bob_tweets</pre>	Exciting news!	0.260118117
	##	336	2023-08-18	Slack	<pre>@bob_tweets</pre>	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		-0.415885320
	##	349	2023-08-18	Slack	_ @erin tweets		-0.537696546
	##	350	2023-08-01	Email	_	Need assistance	
		351	2023-08-10	Slack	-	Need assistance	
		352	2023-08-16		-	Need assistance	
		353	2023-08-18	Email	-	Exciting news!	
		354	2023-08-14	Email	_	Need assistance	
		355	2023-08-14	-	_	Need assistance	
		356	2023-08-20		@bob tweets		
		357	2023-08-08		-	Great work!	
		358	2023-08-19		=	Great work!	0.301563812
		359	2023-08-17	Email	=	Hello everyone!	0.976894801
		360	2023-00-17	Slack	_	Team meeting	0.190247875
		361	2023-00-07		-	Need assistance	0.895823483
		362	2023-08-01	Slack	dave@example		0.093826082
		363	2023-00-01		alice@example	_	0.652192219
		364	2023-08-17	Slack	-	Need assistance	0.032192219
		365	2023-08-08	Slack	-	Hello everyone!	0.740663246
		366			-	Fun weekend!	
		367	2023-08-11 2023-08-19		dave@example	Fun weekend!	0.124404418
		368		Slack		Hello everyone!	0.487545231
		369	2023-08-18		=	Need assistance	
		370	2023-08-17	Email Email	@frank_chat		-0.951084716
		371	2023-08-10		@erin_tweets		0.679597112
		372	2023-08-12		alice@example	Team meeting Exciting news!	
		373	2023-08-02	Email	dave@example	_	
		374	2023-08-18	Email	@frank_chat	Fun weekend!	0.061621126
		375	2023-08-14	Slack	_	Need assistance	
		376	2023-08-08		@frank_chat	Fun weekend!	0.484796492
		377	2023-08-18		dave@example	Exciting news!	
		378	2023-08-17		-	Need assistance	
		379	2023-08-12	Email	@bob_tweets	Exciting news!	
		380	2023-08-04		alice@example	Exciting news!	0.308247630
		381	2023-08-04		@bob_tweets	Exciting news!	
		382	2023-08-17		-	Hello everyone!	0.299843722
		383	2023-08-10		@erin_tweets	Exciting news!	0.275836162
		384	2023-08-10		@frank_chat	_	-0.976236885
		385	2023-08-16		alice@example	Exciting news!	
		386	2023-08-12	Slack	carol_slack	Fun weekend!	0.608656868
		387	2023-08-11		@frank_chat		-0.926554946
		388	2023-08-12	Email	dave@example	Fun weekend!	0.043927317
		389	2023-08-15		dave@example	Great work!	0.435108419
	##	390	2023-08-18	Slack	dave@example	Team meeting	-0.718652172
-							

	, 17.00				Chancinge-4	
##	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	efrank chat		-0.371842024
	398	2023-08-18	Twitter	dave@example		-0.012694929
	399	2023-08-12	Twitter	@erin tweets	=	0.650313874
	400	2023-08-02	Email	dave@example	_	-0.357268680
	401	2023-08-14	Slack	=	Need assistance	
	402	2023-08-15		_	Need assistance	
	403	2023-08-11	Slack	_	Need assistance	0.930096855
	404	2023-08-18	Slack	dave@example	Fun weekend!	
	405	2023-08-19	Twitter	dave@example	Team meeting	-0.284638313
	406	2023-08-19	Email	carol slack	_	0.892766985
	407	2023-08-07	Email	- @bob_tweets		-0.150205611
	408	2023-08-05	Email	-	Hello everyone!	
	409	2023-08-10	Email	@frank chat	-	0.533465849
	410	2023-08-02	Twitter	dave@example		0.516138048
	411	2023-08-18	Twitter	-	Need assistance	0.116931847
	412	2023-08-15	Slack		Need assistance	0.674294885
##	413	2023-08-06	Email	efrank chat		0.696377364
##	414	2023-08-20	Email	dave@example	Team meeting	0.985037738
##	415	2023-08-10	Slack	_	Need assistance	-0.904224418
##	416	2023-08-11	Email	alice@example	Exciting news!	
##	417	2023-08-14	Slack	@erin tweets		-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
		2023-08-12 2023-08-20	Email	_	Need assistance Fun weekend!	
##	421		Email Twitter	_	Fun weekend!	
## ##	421 422	2023-08-20	Email Twitter	dave@example	Fun weekend! Great work!	-0.818538250 -0.349391197
## ## ##	421 422 423	2023-08-20 2023-08-20	Email Twitter Twitter Email	dave@example @erin_tweets	Fun weekend! Great work!	-0.818538250 -0.349391197 -0.212464974
## ## ## ##	421 422 423 424	2023-08-20 2023-08-20 2023-08-02	Email Twitter Twitter Email Twitter	dave@example @erin_tweets dave@example	Fun weekend! Great work! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402
## ## ## ##	421 422 423 424 425	2023-08-20 2023-08-20 2023-08-02 2023-08-19	Email Twitter Twitter Email Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455
## ## ## ## ##	421 422 423 424 425 426	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-09	Email Twitter Twitter Email Twitter Slack Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455
## ## ## ## ##	421 422 423 424 425 426 427	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-09 2023-08-11	Email Twitter Twitter Email Twitter Slack Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455
## ## ## ## ## ##	421 422 423 424 425 426 427 428	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-16	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896
## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-14 2023-08-16 2023-08-05	Email Twitter Email Twitter Slack Email Twitter Slack Twitter Slack Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533
## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-05 2023-08-05 2023-08-01	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272
## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-14 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-10	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916
## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-14 2023-08-09 2023-08-05 2023-08-05 2023-08-01 2023-08-10 2023-08-04	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099
## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-01 2023-08-04 2023-08-20	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971
## ## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-10 2023-08-20 2023-08-20	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email Slack	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Great work!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005
## ## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-09 2023-08-05 2023-08-05 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-20	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Slack Slack	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets derin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771
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## ## ## ## ## ## ## ## ## ## ## ## ##	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-16 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10	Email Twitter Twitter Email Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Slack Email Slack Slack Slack Email Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example dave@example deve@example	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news! Great work! Team meeting	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032
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######################################	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-04 2023-08-07 2023-08-04 2023-08-06 2023-08-08	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Email Email Email Email	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example @bob_tweets @frank_chat @bob_tweets @frank_chat carol_slack dave@example dave@example dave@example dave@example gerin_tweets alice@example @frank_chat @frank_chat @frank_chat	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news! Great work! Team meeting Fun weekend! Great work! Fun weekend! Fun weekend! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032 0.397376804 0.263225980 0.791513952 -0.050068120
######################################	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-04 2023-08-07	Email Twitter Twitter Slack Email Twitter Slack Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Slack Email Email Email Email Email Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example dave@example dave@example dave@example frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Great work! Exciting news! Great work! Team meeting Fun weekend! Great work! Fun weekend! Exciting news! Hello everyone!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032 0.397376804 0.263225980 0.791513952 -0.050068120 -0.355751095
######################################	421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443	2023-08-20 2023-08-20 2023-08-02 2023-08-19 2023-08-11 2023-08-14 2023-08-16 2023-08-16 2023-08-05 2023-08-01 2023-08-01 2023-08-10 2023-08-20 2023-08-20 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-10 2023-08-04 2023-08-07	Email Twitter Twitter Email Twitter Slack Email Twitter Twitter Twitter Twitter Twitter Slack Email Slack Email Email Slack Email Twitter Twitter Twitter	dave@example @erin_tweets dave@example carol_slack alice@example @bob_tweets @erin_tweets dave@example dave@example dbob_tweets @frank_chat @bob_tweets @frank_chat carol_slack carol_slack dave@example dave@example dave@example dave@example frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat @frank_chat carol_slack	Fun weekend! Great work! Exciting news! Team meeting Fun weekend! Hello everyone! Need assistance Fun weekend! Fun weekend! Hello everyone! Great work! Fun weekend! Need assistance Great work! Great work! Exciting news! Great work! Team meeting Fun weekend! Great work! Fun weekend! Fun weekend! Exciting news!	-0.818538250 -0.349391197 -0.212464974 0.317846402 0.690391378 0.576369455 -0.543064435 0.229193896 -0.286604216 -0.038818533 0.473425272 0.346377916 0.933738099 0.680826971 -0.574539005 -0.762122771 0.480317921 -0.956999032 0.397376804 0.263225980 0.791513952 -0.050068120

```
## 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
                              @bob tweets Need assistance
        2023-08-13 Twitter
                                                            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
                     Email
                              @frank chat
        2023-08-16
                                              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
                                                            0.266619468
                                               Great work!
## 472
                                           Exciting news!
        2023-08-18 Twitter
                              @bob_tweets
                                                            0.290797958
## 473
                             @erin_tweets
        2023-08-20 Twitter
                                              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
                             @erin_tweets Need assistance
        2023-08-06
                      Email
                                                             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
                              @bob_tweets
                                               Great work! -0.400677142
                      Email
## 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
        2023-08-19 Twitter alice@example Need assistance
## 521
                                                             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
                             @erin_tweets Hello everyone!
        2023-08-01 Twitter
                                                             0.524320859
## 530
        2023-08-07
                             dave@example
                                               Great work! -0.359934055
                      Email
## 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
                             @erin_tweets
                                               Great work! -0.049498704
                      Email
## 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
                             @erin_tweets
## 554
        2023-08-15
                      Slack
                                              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
                                              Fun weekend! -0.436848105
## 558
        2023-08-20 Twitter alice@example
```

 1712023, 17.00				Chancinge-4	
## 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	-	0.796501584
## 566	2023-08-20	Slack	@bob tweets		
## 567	2023-08-04	Email	_	Need assistance	
## 568	2023-08-18		@bob tweets	Fun weekend!	
## 569	2023-08-01		_	Hello everyone!	
## 570			=	Hello everyone!	
## 571	2023-08-12	Slack		Need assistance	
## 572	2023-08-18		@frank chat	Team meeting	0.818109252
## 573	2023-08-10	Email	@bob tweets	=	0.664575256
## 574	2023-08-18	Email	dave@example	-	
## 575	2023-08-20		carol slack	-	-0.595158034
## 576	2023-08-06		-	Need assistance	0.037042340
## 577	2023-08-14		dave@example		
## 578	2023-08-13	Email	@erin tweets		0.496487776
## 579	2023-08-13		@frank chat	Team meeting	
## 580			_	Hello everyone!	
## 581	2023-08-17	Email	=	Hello everyone!	0.488557915
## 581	2023-08-03		_	=	
## 582	2023-08-07		@frank_chat		-0.823533585 0.384222084
## 584	2023-08-15		alice@example	Hello everyone! Team meeting	
		Email	-	_	
## 585	2023-08-10	_	_	Hello everyone!	0.051583528
## 586	2023-08-02		alice@example		
## 587	2023-08-01	Slack	@erin_tweets	Team meeting	0.031597136
## 588	2023-08-15	Email	_	Need assistance	
## 589	2023-08-09	Email	_	Hello everyone!	0.703965933
## 590	2023-08-16	Slack	dave@example	Fun weekend!	0.438361928
## 591	2023-08-14	Email	_	Hello everyone!	
## 592	2023-08-04		dave@example		
## 593	2023-08-20	Slack	@frank_chat		0.606102686
## 594	2023-08-07	Email	_	Hello everyone!	
## 595	2023-08-02		-	Hello everyone!	
## 596	2023-08-05	Slack	carol_slack	Great work!	0.470731148
## 597	2023-08-07	Email	dave@example		
## 598	2023-08-15	Slack	_		
## 599	2023-08-19	Email	@bob_tweets	-	
## 600	2023-08-02	Slack	@bob_tweets	=	
## 601	2023-08-01	Slack	_	-	
## 602	2023-08-01	Email	@frank_chat	Fun weekend!	
## 603			alice@example	Team meeting	
## 604	2023-08-15			Need assistance	
## 605	2023-08-08	Slack	_	Need assistance	
## 606	2023-08-18		_	Need assistance	
## 607	2023-08-17	Email	@frank_chat	_	
## 608	2023-08-17		-	Need assistance	
## 609	2023-08-10	Email	<pre>@bob_tweets</pre>	Team meeting	
## 610	2023-08-15		_	Need assistance	
## 611	2023-08-12	Twitter	<pre>@bob_tweets</pre>	Great work!	-0.405934577
## 612	2023-08-13	Twitter	@erin_tweets		0.515643027
## 613	2023-08-17	Twitter	@erin_tweets	<pre>Hello everyone!</pre>	-0.606922586
## 614	2023-08-02	Twitter	carol_slack	<pre>Hello everyone!</pre>	0.173851238

```
## 615
                      Slack
                              @frank_chat
                                            Exciting news!
                                                             0.769946682
        2023-08-10
## 616
                             @erin_tweets Hello everyone! -0.172054263
        2023-08-06
                      Email
## 617
        2023-08-04
                              carol slack Need assistance
                      Email
                                                             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
                              carol_slack
        2023-08-10 Twitter
                                            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
                      Slack
        2023-08-19
                             @erin_tweets
                                               Great work! -0.725357866
## 639
                             @erin tweets
        2023-08-03
                      Slack
                                              Team meeting -0.812502595
  640
##
        2023-08-08 Twitter
                                               Great work!
                                                             0.564973874
                              @bob_tweets
## 641
                                              Fun weekend! -0.042934414
        2023-08-13 Twitter
                             dave@example
## 642
        2023-08-17
                      Slack
                              carol_slack
                                                             0.169502832
                                              Fun weekend!
##
  643
        2023-08-12
                                                             0.383860287
                      Email alice@example
                                               Great work!
##
  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
                             @erin_tweets
##
        2023-08-07
                      Slack
                                              Team meeting -0.780283807
##
  650
        2023-08-14
                             @erin tweets
                                              Fun weekend! -0.835450725
                      Email
##
  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
                             @erin tweets Hello everyone! -0.446434771
        2023-08-14
                      Email
##
  659
        2023-08-05
                      Email alice@example
                                              Fun weekend!
                                                             0.347548683
  660
                              @bob_tweets
##
        2023-08-18
                      Slack
                                              Fun weekend!
                                                             0.567603516
  661
##
        2023-08-19 Twitter
                              @frank chat
                                            Exciting news!
                                                             0.388266448
## 662
        2023-08-15 Twitter
                                              Team meeting -0.144443278
                              @bob_tweets
## 663
        2023-08-01
                              @bob_tweets Hello everyone!
                                                             0.902623749
                      Email
## 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
                      Slack alice@example Hello everyone! -0.812013249
        2023-08-08
```

```
## 671
                              carol_slack Hello everyone!
        2023-08-02
                     Slack
                                                            0.805289558
## 672
                              @frank_chat
        2023-08-10
                     Email
                                              Team meeting -0.320194449
## 673
        2023-08-14
                              @bob tweets Hello everyone!
                     Slack
                                                            0.450289166
## 674
        2023-08-18
                              carol slack
                                           Exciting news! -0.546088908
                     Email
## 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
                             @erin_tweets Need assistance
        2023-08-15 Twitter
                                                            0.599532404
## 694
                              @frank_chat
        2023-08-03
                     Email
                                               Great work! -0.022698464
## 695
                             @erin tweets
        2023-08-05
                     Email
                                           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
                                                            0.041871845
        2023-08-11
                     Slack
                              @bob_tweets
                                               Great work!
## 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
        2023-08-16 Twitter alice@example
## 719
                                           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
                     Email
        2023-08-03
                              @frank_chat
                                               Great work! -0.222633559
## 723
        2023-08-14
                     Email alice@example
                                               Great work! -0.111933967
## 724
        2023-08-06
                              @bob_tweets
                                               Great work! -0.417041691
                     Email
##
  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	<pre>Hello everyone!</pre>	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	<pre>Hello everyone!</pre>	-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	<pre>@bob_tweets</pre>	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	<pre>Hello everyone!</pre>	-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	$\verb"alice@example"$	Fun weekend!	0.542070733
##	757	2023-08-07	Slack	<pre>@bob_tweets</pre>	Need assistance	0.251102221
##	758	2023-08-01	Slack	@frank_chat	Team meeting	-0.113114946
##	759	2023-08-08	Email	alice@example	Hello everyone!	
	760	2023-08-01	Email	<pre>@bob_tweets</pre>	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	
	764	2023-08-11		carol_slack	Great work!	0.782265475
	765	2023-08-12		alice@example	Exciting news!	
	766	2023-08-11	Slack	@bob_tweets		-0.549234209
	767	2023-08-03	Email	@frank_chat	Fun weekend!	0.992682932
	768	2023-08-08		carol_slack	Exciting news!	0.614791796
	769	2023-08-01		_	Hello everyone!	
	770	2023-08-10	Slack	@bob_tweets	Exciting news!	
	771	2023-08-12		alice@example	Team meeting	0.255163795
	772	2023-08-16	Email	_	Hello everyone!	
	773	2023-08-10		@erin_tweets	Great work!	0.181200765
	774	2023-08-09	Email	_	Hello everyone!	
	775	2023-08-01		@frank_chat	Great work!	0.159243134
	776 777	2023-08-15	Slack	dave@example		-0.481857921
	777 778	2023-08-19		<pre>@frank chat</pre>	Hello everyone! Exciting news!	0.795437461
	778 779	2023-08-04		@bob tweets	-	-0.674055766
	780	2023-08-10	Slack	-	Hello everyone!	0.747580624
	781	2023-08-07		=	Need assistance	0.739025190
	782	2023-08-15	Slack	_	Hello everyone!	
ııπ	, 52	2023-00-13	DIGCK	CITAIIN_CIIdC	cvcryone:	0.500014/42

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## 783
                                            Exciting news!
        2023-08-14 Twitter
                              @bob_tweets
                                                             0.671785708
## 784
        2023-08-10
                      Slack alice@example Need assistance -0.917325706
##
  785
                             @erin tweets Need assistance -0.600080754
        2023-08-09 Twitter
## 786
        2023-08-11
                              @bob_tweets
                                               Great work! -0.539260621
                      Email
##
  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
                             @erin tweets Need assistance -0.329706852
        2023-08-12 Twitter
##
  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
                      Slack
  804
        2023-08-09
                              carol slack Hello everyone!
                                                             0.346090994
##
## 805
                             @erin_tweets
        2023-08-06
                      Slack
                                            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
                             @erin_tweets Hello everyone!
                                                             0.063933458
                      Email
## 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
                             @erin tweets Hello everyone! -0.568787924
                      Slack
##
  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
                                                             0.231915887
                                              Fun weekend!
## 832
                                              Fun weekend!
        2023-08-03
                      Email alice@example
                                                             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
                              carol slack
                                                             0.704733795
        2023-08-12 Twitter
                                              Team meeting
##
  837
        2023-08-10 Twitter
                              carol_slack
                                               Great work!
                                                             0.268422757
                              @bob_tweets
                                              Fun weekend! -0.898072343
## 838
        2023-08-18
                      Slack
```

```
Great work!
## 839
        2023-08-19
                      Email
                              @frank_chat
                                                             0.463513046
## 840
        2023-08-03
                      Email
                              carol_slack Need assistance -0.161143415
## 841
                      Email alice@example Hello everyone! -0.040838550
        2023-08-19
## 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
                                            Exciting news!
                             @erin tweets
                                                             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
                                              Fun weekend! -0.511013610
                              @bob_tweets
##
  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
                                            Exciting news! -0.750027833
                             dave@example
## 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
                      Slack alice@example Hello everyone! -0.691606675
        2023-08-14
##
  883
        2023-08-07
                      Slack
                              @bob_tweets
                                               Great work!
                                                             0.872962321
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##
        2023-08-05 Twitter
                             @erin_tweets
                                                             0.619198539
                                              Fun weekend!
  885
##
        2023-08-01
                      Email
                              carol slack
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## 886
        2023-08-14
                      Email
                             dave@example Hello everyone! -0.359136123
## 887
        2023-08-16
                              @bob_tweets
                                               Great work! -0.351176404
                      Email
##
  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
                              @frank chat
                      Slack
                                              Team meeting -0.472906698
  893
##
        2023-08-19
                      Slack
                             dave@example
                                              Team meeting -0.789976987
## 894
                              @bob tweets Need assistance 0.743181323
        2023-08-06
                      Slack
```

```
## 895
                                              Team meeting -0.307752223
        2023-08-01
                     Email
                              @frank_chat
## 896
                                               Great work! -0.948017055
        2023-08-01
                     Email
                             dave@example
## 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
                                                            0.698494015
                                              Fun weekend!
## 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
                      Slack alice@example
        2023-08-10
                                              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
                             dave@example Need assistance
        2023-08-09
                      Slack
                                                            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
                              @bob tweets
                                               Great work! -0.251496902
                      Email
## 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
                                           Exciting news!
        2023-08-01
                     Slack alice@example
                                                            0.350437745
## 943
                                           Exciting news!
        2023-08-08
                     Email alice@example
                                                            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
                              @frank chat Need assistance -0.696885624
        2023-08-01 Twitter
##
  949
        2023-08-02
                      Slack
                             dave@example
                                           Exciting news! -0.662697271
                             dave@example Need assistance 0.060486035
## 950
        2023-08-11
                     Email
```

```
## 951
                                               Great work! -0.704862314
                             @erin_tweets
        2023-08-11
                      Slack
## 952
        2023-08-05
                      Slack
                              @frank_chat Need assistance -0.129298556
## 953
        2023-08-07
                                                             0.079245736
                      Email
                              @bob tweets
                                              Fun weekend!
## 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
                             dave@example Need assistance
                                                             0.492307736
                      Email
##
  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
                             @erin tweets
        2023-08-02
                      Slack
                                               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
                             @erin_tweets Need assistance
        2023-08-02 Twitter
                                                             0.821079701
## 974
                      Slack
                                            Exciting news!
                                                             0.085280708
        2023-08-08
                             @erin_tweets
## 975
                             @erin tweets
        2023-08-01
                      Email
                                              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
                              @bob_tweets
                                                             0.170066014
        2023-08-07
                      Slack
                                               Great work!
## 980
        2023-08-08 Twitter alice@example
                                               Great work!
                                                             0.552484959
## 981
        2023-08-14
                      Email
                             @erin_tweets
                                               Great work! -0.129584252
## 982
                      Email
                             @erin tweets
        2023-08-13
                                              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
                                              Team meeting
                                                             0.243233590
                              @bob tweets
##
  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
                      Slack
                             dave@example
                                            Exciting news! -0.531753783
        2023-08-14
## 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
                                                             0.172925062
                                              Fun weekend!
##
  1000 2023-08-03
                              @frank chat Hello everyone!
                      Email
                                                             0.583445542
##
        sentiment_label
## 1
               Positive
## 2
               Positive
## 3
               Negative
## 4
               Positive
## 5
               Positive
```

0/2023	3, 19:06	
##	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
##	31	Negative
## ##	32	Positive
##	33 34	Positive Negative
##	35	Positive
##	36	Positive
##	37	Positive
##	38	Negative
##		Negative
##		Positive
##	41	Positive
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##	43	Negative
##	44	Negative
##	45	Negative
##	46	Positive
##	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

/2023	, 19:06	
##	62	Negative
##	63	Negative
##	64	Positive
##	65	Negative
##	66	Positive
##	67	Negative
##	68	Positive
##	69	Positive
##	70	Positive
##	71	Negative
##	72	Negative
##	73	Negative
##	74	Positive
##	75	Negative
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##	77	Negative
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##	80	Positive
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##	83	Positive
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##	88	Negative
##	89	Positive
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##	105	Negative
##	106	Negative
##	107	Positive
##	108	Negative
##	109	Negative
##	110	Negative
##	111	Positive
##	112	Negative
##	113	Negative
##	114	Negative
##	115	Positive
##	116	Negative
##	117	Negative
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0/2023	3, 19:06	
##	118	Positive
##	119	Negative
##	120	Negative
##	121	Positive
##	122	Negative
##	123	Negative
##	124	Negative
##	125	Negative
##	126	Positive
##	127	Negative
##	128	Negative
##	129	Positive
##	130	Negative
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##	143	Negative
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##	145	Negative
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##	147	Negative
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##	150	Positive
##	151	Negative
##		_
	152	Positive
## ##	153 154	Negative
##	155	Positive Negative
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	156 157	Negative
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##	159	Positive
##	160	Negative
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##	162	Positive
##	163	Positive
##	164	Positive
##	165	Negative
##	166	Negative
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##	169	Positive
##	170	Positive
##	171	Negative
##	172	Positive
##	173	Negative

9/2023, 19:06	
## 174	Positive
## 175	Positive
## 176	Negative
## 177	Negative
## 178	Negative
## 179	Negative
## 180	Positive
## 181	Negative
## 182	Negative
## 183	Positive
## 184	Negative
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## 186	Negative
## 187	Positive
## 188	Negative
## 189	Positive
## 190	Negative
## 191	Positive
## 192	Negative
## 193	Positive
## 194	Positive
## 195 ## 106	Positive
## 196	Negative
## 197 ## 100	Negative
## 198 ## 199	Negative Positive
## 199	Positive
## 200 ## 201	Positive
## 202	Positive
## 202 ## 203	Negative
## 204	Positive
## 205	Negative
## 206	Positive
## 207	Positive
## 208	Negative
## 209	Positive
## 210	Positive
## 211	Negative
## 212	Positive
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## 214	Positive
## 215	Positive
## 216	Negative
## 217	Negative
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## 221	Negative
## 222	Negative
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## 224	Negative
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## 226	Negative
## 227	Negative
## 228	Positive
## 229	Negative

9/2023	3, 19:06	
##	230	Negative
##	231	Positive
##	232	Negative
##	233	Negative
##	234	Negative
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##	236	Positive
##	237	Positive
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##		Positive
##		Negative
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	243	Positive
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## ##		Negative
		Negative
## ##	247 248	Positive Positive
	249	Negative
##	_	Negative
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##	252	Positive
##		Negative
##	254	Positive
##		Negative
##		Positive
##	257	Positive
##	258	Positive
##	259	Positive
##	260	Positive
##	261	Positive
##	262	Negative
##	263	Positive
##		Negative
##		Positive
##		Negative
##	267	Positive
##		Positive
##		Negative
## ##	270271	Negative Positive
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##	284	Positive
##	285	Negative

9/2023	3, 19:06	
##	286	Negative
##	287	Positive
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##		Positive
##		Negative
##		Positive
##	292	Positive
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##	297	Positive
##	298	Negative
##	299	Positive
##	300	Negative
##	301	Positive
##	302	Negative
##	303	Negative
##	304	Negative
##	305	Positive
##		Negative
##	307	Negative
##	308	Negative
##	309	Positive
##	310	Positive
##		
	311	Negative
##	_	Positive
##		Negative
##	314	Negative
##		Positive
##		Negative
##	317	Negative
##	318	Positive
##		Negative
##		Positive
##	321	Positive
##	322	Positive
##	323	Negative
##	324	Negative
##	325	Negative
##	326	Positive
##	327	Negative
##	328	Positive
##	329	Positive
##	330	Negative
##	331	Positive
##	332	Positive
##	333	Negative
##	334	Negative
##	335	Positive
##	336	Negative
##		Negative
##	338	Positive
##	339	Negative
##		Positive
##		Negative
"		J. ==.0

9/2023	3, 19:06	
##	342	Positive
##	343	Negative
##	344	Positive
##	345	Positive
##	346	Positive
##	347	Positive
##	348	Negative
##	349	Negative
##	350	Negative
##	351	Positive
##	352	Negative
##	353	Negative
##	354	Negative
##	355	Positive
##	356	Positive
##	357	Positive
##	358	Positive
##	359	Positive
##	360	Positive
##	361	Positive
##	362	Positive
##	363	Positive
##	364	Positive
##	365	Positive
##	366	Positive
##	367	Positive
##	368	Positive
##	369	Negative
##	370	Negative
##	371	Positive
##	372	Positive
##	373	${\tt Positive}$
##	374	Positive
##	375	Negative
##	376	Positive
##	377	Negative
##	378	Negative
##	379	Negative
##	380	Positive
##	381	Negative
##	382	Positive
##	383	Positive
##	384	Negative
##	385	Negative
##	386	Positive
##	387	Negative
##	388	Positive
##		Positive
##	390	Negative
##	391	Positive
##		Positive
##	393	Negative
##	394	Negative
##		Positive
##		Negative
##	397	Negative

9/2023, 19:06	
## 398	Negative
## 399	Positive
## 400	Negative
## 401	Positive
## 402	Positive
## 403	Positive
## 404	Negative
## 405	Negative
## 406	Positive
## 407	Negative
## 408	Positive
## 409	Positive
## 410	Positive
## 411	Positive
## 412	Positive
## 413	Positive
## 414	Positive
## 415	Negative
## 416	Negative
## 417	Negative
## 418	Positive
## 419	Positive
## 420	Negative
## 421	Negative
## 422	Negative
## 423	Negative
## 424	Negative
## 425	Positive
## 426	Positive
## 427	Positive
## 428	Negative
## 429	Positive
## 430	Negative
## 431	Negative
## 432	Positive
## 433	Positive
## 434	Positive
## 435	Positive
## 436	Negative
## 437	Negative
## 438	Positive
## 439	Negative
## 440 ## 441	Positive
## 441 ## 442	Positive Positive
## 442 ## 443	Negative
## 444	Negative
## 445	Positive
## 445 ## 446	Positive
## 447	Positive
## 447 ## 448	Positive
## 448 ## 449	Positive
## 450	Positive
## 451	Negative
## 451 ## 452	Negative
## 453	Positive
ин 1 33	TOSTUTVE

9/2023	3, 19:06	
##	454	Negative
##	455	Negative
##	456	Positive
##	457	Negative
##	458	Positive
##	459	Positive
##	460	Negative
##	461	Negative
##	462	Negative
##	463	Negative
##	464	Negative
##	465	Negative
##	466	Positive
##	467	Positive
##	468	Positive
##	469	Positive
##	470	Positive
##	471	Positive
##	472	Positive
##	473	Positive
##	474	Negative
##	475	Negative
##	476	Positive
##	477	Positive
##	478	Negative
##	479	Negative
##	480	Negative
##	481	Negative
##	482	Positive
##	483	Negative
##	484	Negative
##	485	Positive
##	486	Positive
##	487	Negative
##	488	Negative
##	489	Negative
##	490	Positive
##	491	Negative
##	492	Positive
##	493	Positive
##	494	Negative
##	495	Negative
##	496	Negative
##	497	Positive
##		Positive
##	499	Negative
##	500	Negative
##		Positive
##	502	Positive
##	503	Positive
##		Negative
##		Positive
	506	Negative
	507	Negative
##		Positive
##	509	Negative

9/2023, 19:06	
## 510	Negative
## 511	Negative
## 512	Positive
## 513	Positive
## 514	Negative
## 515	Negative
## 516	Positive
## 517	Negative
## 518	Positive
## 519	Positive
## 520	Positive
## 521	Positive
## 522	Positive
## 523	Positive
## 524	Negative
## 525 ## 526	Positive
## 526 ## 527	Negative
## 527 ## 528	Positive
## 528 ## 529	Negative Positive
## 529 ## 530	Negative
## 531	Positive
## 532	Negative
## 533	Negative
## 534	Negative
## 535	Positive
## 536	Positive
## 537	Negative
## 538	Positive
## 539	Positive
## 540	Negative
## 541	Positive
## 542	Negative
## 543	Positive
## 544	Negative
## 545	Positive
## 546	Positive
## 547	Positive
## 548	Negative
## 549	Negative
## 550 ## 551	Positive
## 551 ## 553	Negative
## 552 ## 553	Positive Negative
## 554	Positive
## 555	Negative
## 556	Positive
## 557	Negative
## 558	Negative
## 559	Positive
## 560	Positive
## 561	Positive
## 562	Negative
## 563	Negative
## 564	Negative
## 565	Positive

9/2023, 1	9:06	
## 5	66	Negative
## 5	67	Negative
## 5	68	Positive
## 5	69	Positive
## 5	70	Positive
## 5	71	Negative
## 5	72	Positive
## 5	73	Positive
## 5	74	Negative
## 5	75	Negative
## 5	76	Positive
## 5	77	Negative
## 5	78	Positive
## 5	79	Positive
## 5	80	Negative
## 5	81	Positive
## 5	82	Negative
## 5	83	Positive
## 5	84	Positive
## 5	85	Positive
## 5	86	Negative
## 5	87	Positive
## 5	88	Negative
## 5	89	Positive
## 5	90	Positive
	91	Positive
## 5	92	Negative
	93	Positive
	94	Negative
	95	Positive
## 5	96	Positive
## 5	97	Negative
## 5	98	Positive
## 5	99	Positive
## 6	00	Positive
## 6	01	Negative
	02	Negative
## 6	03	Negative
## 6	04	Negative
## 6	05	Negative
## 6	06	Negative
## 6	07	Negative
## 6	08	Negative
## 6	09	Positive
## 6	10	Positive
## 6	11	Negative
## 6	12	Positive
## 6	13	Negative
## 6	14	Positive
## 6	15	Positive
	16	Negative
	17	Positive
	18	Negative
## 6	19	Positive
	20	Negative
## 6	21	Negative
		-

9/2023	3, 19:06	
##	622	Positive
##	623	Negative
##	624	Positive
##	625	Negative
##	626	Positive
##	627	Negative
##	628	Positive
##	629	Negative
##	630	Positive
##	631	Negative
##	632	Negative
##	633	Positive
##	634	Positive
##	635	Positive
##	636	Positive
##	637	Negative
##	638	Negative
##	639	Negative
##	640	Positive
##	641	Negative
##	642	Positive
##	643	Positive
##	644	Negative
##	645	Positive
##	646	Negative
##	647	Positive
##	648	Negative
##	649	Negative
##	650	Negative
##	651	Negative
##	652	Negative
##	653	Positive
##	654	Positive
##	655	Positive
##	656	Positive
##	657	Positive
##	658	Negative
##	659	Positive
##	660	Positive
##	661	Positive
##	662	Negative
##	663	Positive
##	664	Negative
##	665	Positive
##	666	Negative
##	667	Negative
##	668	Positive
##	669	Negative
##	670	Negative
##	671	Positive
##	672	Negative
##		_
##	673 674	Positive Negative
	675	
## ##	676	Negative
		Negative
##	677	Positive

/2023	3, 19:06	
##	678	Negative
##	679	Negative
##	680	Positive
##	681	Negative
##	682	Negative
##	683	${\tt Positive}$
##	684	Positive
##	685	Positive
##	686	Positive
##	687	Negative
##	688	Positive
##	689	Negative
##	690	Positive
##	691	Negative
##	692	Negative
##	693	Positive
##	694	Negative
##	695	Negative
##	696	Negative
##	697	Negative
##	698	Positive
##	699	Negative
##	700	Positive
##	701	Negative
##	702	Negative
##	703	Negative
## ##	704 705	Positive
##	706	Negative Positive
##	707	Positive
##	707	Positive
##	709	Negative
##	710	Positive
##	711	Positive
##	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

11202.	3, 19:06	
##	734	Positive
##	735	Positive
##	736	Negative
##	737	Positive
##	738	Positive
##		Positive
##		Positive
##	741	Positive
##		Negative
##		Negative
##	744	Positive
##		Positive
##	746	Positive
##	747	Negative
##		Positive
##		Negative
##	750	Positive
##	751	Negative
##	752	Negative
##	753	Negative
##		Positive
##	755	Negative
##	756	Positive
##	757	Positive
##	758	Negative
##	759	Negative
##		Positive
##	761	Positive
##	762	Positive
##	763	Positive
	764	Positive
##	765	Negative
##	766	Negative
##	767	Positive
##	768	Positive
##	769	Negative
##	770	Negative
##	771	Positive
##	772	Negative
##	773	Positive
##	774	Negative
##	775	Positive
		POSICIVE
##	776	Negative
## ##	776 777	
		Negative
##	777 778	Negative Negative
##	777 778	Negative Negative Positive
## ## ##	777 778 779	Negative Negative Positive Negative
## ## ##	777 778 779 780	Negative Negative Positive Negative Positive
## ## ## ##	777 778 779 780 781	Negative Negative Positive Positive Positive
## ## ## ## ##	777 778 779 780 781 782	Negative Negative Positive Positive Positive Negative
## ## ## ## ##	777 778 779 780 781 782 783 784	Negative Negative Positive Positive Positive Negative Positive Negative
## ## ## ## ##	777 778 779 780 781 782 783 784	Negative Negative Positive Positive Positive Negative Positive
## ## ## ## ## ##	777 778 779 780 781 782 783 784	Negative Negative Positive Positive Positive Negative Positive Negative Negative Negative
## ## ## ## ## ##	777 778 779 780 781 782 783 784 785 786	Negative Negative Positive Positive Positive Negative Positive Negative Negative Negative Negative Positive
## ## ## ## ## ##	777 778 779 780 781 782 783 784 785 786 787	Negative Negative Positive Positive Positive Negative Positive Negative Negative Negative

9/2023	3, 19:06	
##	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
## ##	810 811	Negative
##	812	Negative 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
##	838 839	Negative Positive
##	839	Negative
##	840	Negative
##	842	Positive
##	843	Positive
##		Negative
##		Negative
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9/2023	3, 19:06	
##	846	Negative
##	847	Positive
##	848	Negative
##	849	Positive
##	850	Positive
##	851	Negative
##	852	Positive
##	853	Negative
##	854	Positive
##	855	Negative
##	856	Positive
##	857	Negative
##	858	Negative
##	859	Positive
##	860	Positive
##	861	Negative
##	862	Negative
		_
##	863	Positive
##	864	Negative
##	865	Positive
##	866	Negative
##	867	Negative
##	868	Negative
##	869	Negative
##	870	Negative
##	871	Negative
##	872	Negative
##		Positive
##	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	${\tt Positive}$
##	889	${\tt Positive}$
##	890	Negative
##	891	Negative
##	892	Negative
##	893	Negative
##	894	Positive
##	895	Negative
##	896	Negative
##	897	Positive
##		Negative
##	899	Negative
##	900	Positive
##		Negative
		J = =

9/2023	3, 19:06	
##	902	Positive
##	903	Positive
##	904	Positive
##	905	Positive
##		Positive
##	907	Negative
##	908	Positive
##	909	Positive
	910	Positive
##	911	Negative
##	912	Negative
##		Negative
##	914	Positive
	915	Positive
##		Positive
##	917	Negative
##	918	Positive
##		
##	919	Negative
		Negative
##	921	Positive
##		Negative
##	923	Positive
##	924	Positive
##	925	Positive
##	926	Negative
##	927	Negative
##		Positive
##	929	Positive
##	930	Negative
##	931	Negative
	932	Positive
##	933	Positive
##	934	Negative
##		Negative
##	936	Negative
##	937	Negative
##	938	Negative
##	939	Negative
##	940	Negative
##	941	Negative
##		Positive
##	943	Positive
##	944	Negative
##	945	Negative
##	946	Negative
##	947	Negative
##	948	Negative
##	949	Negative
##	950	Positive
##	951	Negative
##	952	Negative
##	953	Positive
##	954	Positive
##	955	Negative
##	956	Positive
##		Negative
		J -

09/2023	3, 19:06	Challenge-4
##	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

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
comm_data %>%
  mutate(length_of_message = nchar(message), product = length_of_message*sentiment) %
>%
  arrange(desc(product))
```

##	¥		date	channel	sender	message	sentiment
	, ⊁ 1	ı	2023-08-16	Email		Hello everyone!	0.997601895
" "	/ - ∤ 2		2023-08-14	Slack	_	Hello everyone!	0.987832270
	# 3		2023-00-14	Email	_	Hello everyone!	0.978220029
	r 3 ∤ 4		2023-08-17	Email	=	Hello everyone!	0.976894801
	f = 5		2023-08-17	Slack	=	Hello everyone:	0.973429719
	† 6				_		
			2023-08-06	Slack	-	Hello everyone!	0.968081689
##			2023-08-08	Slack	_	Need assistance	0.963640937
	¥ 8		2023-08-09	Email	-	Need assistance	0.953375103
	# 9 " •		2023-08-17	Twitter	_	Hello everyone!	0.951721462
	¥ 1		2023-08-12	Email	_	Need assistance	0.937844194
##		l 1	2023-08-17	Slack	_	Hello everyone!	0.937329018
	¥ 1		2023-08-13	Email	_	Need assistance	0.935812009
##		L3	2023-08-04	Slack	_	Need assistance	0.933738099
	¥ 1		2023-08-11	Slack	_	Need assistance	0.930096855
##	[#] 1	_	2023-08-07	Slack	@frank_chat	-	0.993148146
##		L6	2023-08-13	Email	carol_slack	•	0.991050147
##		L7	2023-08-07	Email	alice@example	Hello everyone!	0.917979236
##	[#] 1	L8	2023-08-07	Slack	@frank_chat	Need assistance	0.914976185
##	¥ 1	L9	2023-08-06	Twitter	<pre>@bob_tweets</pre>	Exciting news!	0.979591473
##	¥ 2	20	2023-08-08	Twitter	dave@example	Need assistance	0.911442756
##	¥ 2	21	2023-08-06	Email	@erin_tweets	Hello everyone!	0.905330024
##	¥ 2	22	2023-08-17	Twitter	alice@example	Exciting news!	0.968932204
##	¥ 2	23	2023-08-03	Twitter	dave@example	Hello everyone!	0.902683333
##	¥ 2	24	2023-08-01	Email	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	0.902623749
##	¥ 2	25	2023-08-09	Slack	carol_slack	<pre>Hello everyone!</pre>	0.902016178
##	¥ 2	26	2023-08-15	Slack	$\verb"alice@example"$	Need assistance	0.899728119
##	¥ 2	27	2023-08-03	Slack	@erin_tweets	Need assistance	0.896539724
##	¥ 2	28	2023-08-07	Twitter	carol_slack	Need assistance	0.895823483
##	¥ 2	29	2023-08-17	Twitter	<pre>@bob_tweets</pre>	Exciting news!	0.953910344
##	¥ 3	30	2023-08-13	Slack	carol_slack	Need assistance	0.886342321
##	# 3	31	2023-08-11	Slack	dave@example	<pre>Hello everyone!</pre>	0.879992486
##	# 3	32	2023-08-07	Slack	alice@example	Need assistance	0.877496709
##	# 3	33	2023-08-20	Email	@bob_tweets	Exciting news!	0.931368547
##	¥ 3	34	2023-08-14	Email	@erin_tweets	Need assistance	0.867801995
##	# 3	35	2023-08-12	Email	@erin_tweets	Need assistance	0.866607873
##	¥ 3	36	2023-08-16	Twitter	alice@example	Exciting news!	0.927110374
##	¥ 3	37	2023-08-19	Twitter	alice@example	Hello everyone!	0.857508211
##	¥ 3	88	2023-08-02	Slack	@erin_tweets	Exciting news!	0.900116188
##	# 3	39	2023-08-10	Email	dave@example	Need assistance	0.834841503
##	¥ 4	10	2023-08-02	Twitter	@erin_tweets	Need assistance	0.821079701
##	¥ 4	11	2023-08-12	Twitter	alice@example	Exciting news!	0.874988238
##	¥ 4	12	2023-08-10	Twitter	carol_slack	Need assistance	0.809991531
##	¥ 4	13	2023-08-11	Twitter	@frank_chat	Hello everyone!	0.807257727
##	¥ 4	14	2023-08-16	Twitter	@erin_tweets	Hello everyone!	0.806540163
##	¥ 4	15	2023-08-02	Slack	carol slack	Hello everyone!	0.805289558
##	¥ 4	16	2023-08-01	Slack	-	Hello everyone!	0.802523659
##	¥ 4	17	2023-08-03	Email	_ @frank_chat	=	0.992682932
##	¥ 4	18	2023-08-12	Slack	_ @bob_tweets		0.990166281
##	¥ 4	19	2023-08-13		dave@example		0.986894567
##	¥ 5	50	2023-08-20	Email	dave@example		0.985037738
##	¥ 5	51	2023-08-15	Twitter	-	Need assistance	0.787741330
	¥ 5				alice@example	Fun weekend!	0.977650215
	¥ 5		2023-08-15	Email	-	Need assistance	0.773382573
	¥ 5				alice@example	Team meeting	0.964958043
					<u>.</u>	,	

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	##	55	2023-08-15	Twitter	@erin_tweets	Hello everyone!	0.768580468
	##	56	2023-08-19	Email	dave@example	Exciting news!	0.821827833
	##	57	2023-08-10	Slack	@bob_tweets	Fun weekend!	0.957983019
	##	58	2023-08-09	Twitter	alice@example	Hello everyone!	0.762754925
	##	59	2023-08-02	Twitter	dave@example	Exciting news!	0.817105632
	##	60	2023-08-19	Twitter	@erin tweets	Team meeting	0.945942261
	##	61	2023-08-13	Twitter	alice@example	Hello everyone!	0.752351641
	##	62	2023-08-07	Slack	dave@example	Hello everyone!	0.747580624
	##	63	2023-08-03	Twitter	=	Need assistance	0.747163485
	##		2023-08-06	Slack	-	Need assistance	0.746888391
	##	65	2023-08-17	Email	efrank chat	Team meeting	0.932789830
	##		2023-08-06	Slack	_	Need assistance	0.743181323
	##		2023-08-04		@frank chat		0.795437461
	##		2023-08-08	Slack	-	Hello everyone!	0.740663246
	##		2023-08-03	Email	@erin tweets	Fun weekend!	0.924321534
	##		2023-08-14	_	_	Need assistance	0.739025190
	##		2023-08-11	Slack	carol slack	Team meeting	0.921573296
		72	2023-08-07	Email	carol slack	-	0.785684678
	##		2023-00-07		@frank chat	Exciting news!	0.784590872
	##		2023-00-10	Email	carol slack	Team meeting	0.909817838
	##		2023-00-20	Email	@frank chat	Exciting news!	0.777389107
	##		2023-00-12	Email	-	Hello everyone!	0.725036937
	##		2023-08-07	-	alice@example	Exciting news!	0.773558143
		78	2023-00-07		carol slack	=	0.771407587
	##		2023-08-13	Slack	_	-	0.769946682
	##		2023-08-10		<pre>@frank_chat alice@example</pre>	Exciting news! Fun weekend!	0.893210486
				Email	=		
	##		2023-08-19	-	carol_slack		0.892766985
	##		2023-08-02	Email	dave@example	Great work!	0.973676749
	##				alice@example	Team meeting	0.892404643
	##		2023-08-03		_	Hello everyone!	0.713812393
	##		2023-08-06		-	Hello everyone!	0.710270591
	##		2023-08-15	Slack	@frank_chat	Great work!	0.960373470
	##		2023-08-14		@bob_tweets	Exciting news!	0.754322437
	##	88	2023-08-09	Email	_	Hello everyone!	0.703965933
	##		2023-08-02		@erin_tweets	Exciting news!	0.750492542
	##		2023-08-11	Email	@frank_chat	Fun weekend!	0.874191639
	##				alice@example	Team meeting	0.870818266
	##		2023-08-05		=	Need assistance	0.694902051
	##		2023-08-18		@bob_tweets	Fun weekend!	0.866654206
	##		2023-08-04	Slack	@bob_tweets	Fun weekend!	0.866016825
	##		2023-08-04	Slack	-	Need assistance	0.691338675
	##		2023-08-17	Email	@erin_tweets	Team meeting	0.863822790
	##		2023-08-10	Slack	@erin_tweets	Team meeting	0.862134462
	##		2023-08-04	Email	-	Need assistance	0.689327837
	##		2023-08-07	Slack	carol_slack	Great work!	0.937586371
		100	2023-08-16		alice@example	Team meeting	0.858062949
		101	2023-08-19	Email	@bob_tweets	Team meeting	0.855612874
		102	2023-08-15		@bob_tweets	Team meeting	0.853966497
		103	2023-08-20		alice@example	Fun weekend!	0.851679420
		104	2023-08-08	Slack	@erin_tweets	Team meeting	0.849549761
		105	2023-08-19	Slack	-	Hello everyone!	0.679174718
		106	2023-08-10	Email	<pre>@bob_tweets</pre>	Great work!	0.924440826
		107	2023-08-01		=	Need assistance	0.676776995
		108	2023-08-07	Slack	$\verb"alice@example"$	Fun weekend!	0.844455994
	##	109	2023-08-13	Slack		Hello everyone!	0.675182751
	##	110	2023-08-08	Email	$\verb"alice@example"$	Exciting news!	0.723251828

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##	111	2023-08-15	Slack	carol_slack	Need assistance	0.674294885
##	112	2023-08-05	Twitter	alice@example	Exciting news!	0.722319741
##	113	2023-08-10	Slack	@frank_chat	Hello everyone!	0.672468295
##	114	2023-08-02	Email	dave@example	Exciting news!	0.717076284
##	115	2023-08-16	Slack	alice@example	Need assistance	0.669039086
##	116	2023-08-11	Twitter	carol slack	Great work!	0.910158344
##	117	2023-08-09	Slack	alice@example	Need assistance	0.665302936
##	118	2023-08-06	Email		Need assistance	0.664381829
##	119	2023-08-11	Email	_ @bob tweets	Hello everyone!	0.662486946
##	120	2023-08-09	Slack	_	Need assistance	0.662048494
##	121	2023-08-17	Email	@bob tweets	Fun weekend!	0.825692308
##	122	2023-08-05	Twitter	alice@example	Team meeting	0.824948560
##	123	2023-08-11		dave@example	Fun weekend!	0.824099663
##	124	2023-08-02	Slack	alice@example	Fun weekend!	0.823352248
##	125	2023-08-06	Email	efrank chat	Team meeting	0.819675826
	126	2023-08-18	Twitter	efrank_chat	Team meeting	0.818109252
##	127	2023-08-14	Email	_ @erin_tweets	Great work!	0.891589128
##	128	2023-08-15	Slack	- @frank chat	Fun weekend!	0.816346027
	129	2023-08-16	Twitter	alice@example	Exciting news!	0.696509592
	130	2023-08-06	Email	@frank chat	Exciting news!	0.696377364
	131	2023-08-09	Twitter	-	Hello everyone!	0.649366590
	132	2023-08-03	Slack	ebob tweets	Great work!	0.884830707
##	133	2023-08-12	Slack	carol slack	Great work!	0.874556832
	134	2023-08-20	Twitter	_	Hello everyone!	0.640248996
##	135	2023-08-07	Slack	- @bob tweets	Great work!	0.872962321
	136	2023-08-20	Slack	alice@example	Exciting news!	0.685212519
	137	2023-08-16		dave@example	Team meeting	0.796688539
	138	2023-08-04	Slack	dave@example	Fun weekend!	0.796501584
	139	2023-08-14	Twitter	dave@example	Great work!	0.866824818
	140	2023-08-10	Email	@erin tweets	Exciting news!	0.679597112
##	141	2023-08-06	Email	efrank chat	Fun weekend!	0.791513952
##	142	2023-08-14	Twitter	@bob_tweets	Exciting news!	0.671785708
##	143	2023-08-01	Email	@bob_tweets	Team meeting	0.783531986
##	144	2023-08-10	Slack	@frank_chat	Need assistance	0.626154714
##	145	2023-08-05	Twitter	dave@example	Team meeting	0.779166287
##	146	2023-08-08	Email	@frank_chat	Team meeting	0.778342899
##	147	2023-08-10	Email	@bob_tweets	Exciting news!	0.664575256
##	148	2023-08-17	Twitter	dave@example	Fun weekend!	0.775130778
##	149	2023-08-12	Email	alice@example	Team meeting	0.774573303
##	150	2023-08-05	Email	@bob_tweets	Hello everyone!	0.616259416
##	151	2023-08-05	Email	@erin_tweets	Great work!	0.830162693
##	152	2023-08-16	Twitter	dave@example	Great work!	0.827052074
##	153	2023-08-01	Email	carol_slack	Fun weekend!	0.757286296
##	154	2023-08-14	Slack	<pre>@erin_tweets</pre>	<pre>Hello everyone!</pre>	0.605556316
##	155	2023-08-01	Slack	@frank_chat	Need assistance	0.601800072
##	156	2023-08-05	Twitter	@frank_chat	<pre>Hello everyone!</pre>	0.599585856
##	157	2023-08-15	Twitter	@erin_tweets	Need assistance	0.599532404
##	158	2023-08-01	Twitter	<pre>@frank_chat</pre>	Need assistance	0.599045397
##	159	2023-08-20	Slack	dave@example	Great work!	0.814900840
##	160	2023-08-09	Email	dave@example	Team meeting	0.746085706
##	161	2023-08-13	Email	alice@example	Need assistance	0.596431601
##	162	2023-08-19	Twitter	@erin_tweets	Exciting news!	0.638825124
##	163	2023-08-07	Slack	dave@example	<pre>Hello everyone!</pre>	0.593321668
##	164	2023-08-08	Slack	@erin_tweets	Need assistance	0.593302410
##	165	2023-08-07	Twitter	carol_slack	Great work!	0.805481421
##	166	2023-08-10	Slack	alice@example	Great work!	0.804542714

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##	167	2023-08-08	Email	@erin_tweets	Fun weekend!	0.734125260
##	168	2023-08-15	Twitter	alice@example	Great work!	0.798867194
##	169	2023-08-03	Email	@frank_chat	<pre>Hello everyone!</pre>	0.583445542
##	170	2023-08-17	Twitter	$\verb"alice@example"$	<pre>Hello everyone!</pre>	0.582868762
##	171	2023-08-20	Slack	dave@example	Exciting news!	0.617734990
##	172	2023-08-11	Email	@bob_tweets	<pre>Hello everyone!</pre>	0.576369455
##	173	2023-08-03	Email	dave@example	Hello everyone!	0.575844854
##	174	2023-08-08	Twitter	carol_slack	Exciting news!	0.614791796
##	175	2023-08-11	Twitter	carol_slack	Great work!	0.782265475
##	176	2023-08-06	Slack	carol_slack	Need assistance	0.572155187
	177	2023-08-05		carol_slack	Fun weekend!	0.706561523
	178	2023-08-09	Twitter	@bob_tweets	=	0.605349668
	179	2023-08-12		carol_slack	_	0.704733795
	180	2023-08-06	Email	carol_slack	Great work!	0.766328182
	181	2023-08-05	Email	_	Need assistance	0.558824511
	182	2023-08-09	Email	dave@example	Fun weekend!	0.698494015
	183	2023-08-14	Email	carol_slack	=	0.596924395
	184	2023-08-09		alice@example		0.690391378
	185	2023-08-03	Slack	@frank_chat	=	0.591279314
	186	2023-08-10	Slack	dave@example	Great work!	0.746216161
	187	2023-08-12	Email	-	Need assistance	0.544408341
	188	2023-08-02		@erin_tweets	-	0.581556937
	189	2023-08-08	Email	carol_slack	Fun weekend!	0.670605208
	190	2023-08-10	Email	-	Hello everyone!	0.535708998
	191	2023-08-04		-	Need assistance	0.534302738
	192	2023-08-12		=	Hello everyone!	0.532433989
	193 194			-	Hello everyone! Hello everyone!	0.530999278 0.530733542
	195	2023-08-05	Email	@frank chat		0.567230823
	196	2023-08-05	Slack	_	Hello everyone!	0.529127310
	197	2023-00-10		@frank chat		0.659773430
	198	2023-00-20	Slack	dave@example	Exciting news!	0.563268560
	199	2023-08-01		-	Hello everyone!	0.524320859
	200	2023-08-08	Email	carol slack	Great work!	0.710615378
	201	2023-08-20	Slack	-	Hello everyone!	0.520647362
	202	2023-08-12	Email	dave@example	Fun weekend!	0.650773503
	203	2023-08-17	Email	@erin tweets	Great work!	0.709753431
	204	2023-08-12	Twitter	erin tweets	Team meeting	0.650313874
	205	2023-08-05	Slack	_	Need assistance	0.519475343
	206	2023-08-13	Email	- @bob tweets	Exciting news!	0.553149406
##	207	2023-08-05	Email	_ @erin tweets	Exciting news!	0.549038415
##	208	2023-08-10	Email	alice@example	Great work!	0.693037350
##	209	2023-08-11	Twitter	@frank_chat	Team meeting	0.629940747
##	210	2023-08-20	Email	carol_slack	Great work!	0.680826971
##	211	2023-08-14	Email	@bob_tweets	Hello everyone!	0.498191035
##	212	2023-08-10	Slack	dave@example	Exciting news!	0.532747218
##	213	2023-08-03	Slack	@bob_tweets	Need assistance	0.496275815
##	214	2023-08-03	Slack	dave@example	Great work!	0.675534202
##	215	2023-08-05	Twitter	@erin_tweets	Fun weekend!	0.619198539
##	216	2023-08-20	Email	dave@example	Team meeting	0.617879979
##	217	2023-08-08	Email	$\verb alice@example $	Exciting news!	0.529548995
##	218	2023-08-06	Email	dave@example	Need assistance	0.492307736
##	219	2023-08-14	Slack	dave@example	<pre>Hello everyone!</pre>	0.491653796
	220	2023-08-05	Email	<pre>@frank_chat</pre>	Team meeting	0.611721705
##	221	2023-08-03	Email	<pre>@frank_chat</pre>	<pre>Hello everyone!</pre>	0.488557915
##	222	2023-08-19	Slack	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	0.487545231

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	##	223	2023-08-12	Slack	carol_slack	Fun weekend!	0.608656868
	##	224	2023-08-16	Slack		Need assistance	0.484403751
	##	225	2023-08-20	Slack	@erin_tweets	Fun weekend!	0.604609676
	##	226	2023-08-20	Twitter	alice@example	Hello everyone!	0.482187657
	##	227	2023-08-19	Twitter	@frank_chat	Need assistance	0.481529109
	##	228	2023-08-17	Slack	alice@example	Great work!	0.652192219
	##	229	2023-08-03	Twitter	carol_slack	Great work!	0.646422371
	##	230	2023-08-18	Twitter	ebob tweets		0.590919483
	##	231	2023-08-07	Email	_ @bob tweets	Great work!	0.642848774
	##	232	2023-08-19	Slack	alice@example	Exciting news!	0.502961815
	##	233	2023-08-12	Twitter	alice@example	Team meeting	0.582250814
		234	2023-08-18	Email	@bob tweets	Exciting news!	0.497974098
	##	235	2023-08-19	Twitter	carol slack	Team meeting	0.578111817
	##	236	2023-08-07	Slack	alice@example	Team meeting	0.569526526
	##	237	2023-08-12		=	Need assistance	0.454688824
		238	2023-08-14		@bob tweets	Fun weekend!	0.567614020
	##	239	2023-08-18	Slack	_ @bob tweets	Fun weekend!	0.567603516
	##	240	2023-08-18	Email	_	Need assistance	0.453627230
	##	241	2023-08-02	Twitter		Hello everyone!	0.450987421
	##	242	2023-08-14	Slack	-	Hello everyone!	0.450289166
	##	243	2023-08-20	Email	efrank chat	Team meeting	0.560076173
	##	244	2023-08-16	Slack	alice@example	Need assistance	0.445466304
	##	245	2023-08-20	Slack	@frank_chat	Great work!	0.606102686
	##	246	2023-08-01	Email	carol_slack	Great work!	0.605523043
	##	247	2023-08-13	Slack	carol slack	Exciting news!	0.474910577
	##	248	2023-08-05	Email	carol_slack	Exciting news!	0.468174768
	##	249	2023-08-07	Twitter	dave@example	Exciting news!	0.466239469
	##	250	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.542777083
	##	251	2023-08-13	Email	$\verb"alice@example"$	<pre>Hello everyone!</pre>	0.433930994
	##	252	2023-08-03	Slack	$\verb"alice@example"$	Fun weekend!	0.542070733
	##	253	2023-08-16	Slack	dave@example	Exciting news!	0.461496073
	##	254	2023-08-15	Email	@frank_chat	Fun weekend!	0.535877908
	##	255	2023-08-07	Slack	$\verb"alice@example"$	Great work!	0.580541194
	##	256	2023-08-09	Twitter	<pre>@bob_tweets</pre>	Team meeting	0.526457346
	##	257	2023-08-19	Twitter	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	0.420571170
	##	258	2023-08-09	Slack	@erin_tweets	Fun weekend!	0.525517232
		259	2023-08-19	Email	@erin_tweets	Great work!	0.570171806
	##	260	2023-08-12	Slack	@frank_chat	Fun weekend!	0.519153008
		261	2023-08-15	Email	carol_slack	Need assistance	0.414960733
	##	262	2023-08-13	Slack	@frank_chat	Exciting news!	0.443950114
		263	2023-08-08		<pre>@bob_tweets</pre>	Great work!	0.564973874
		264	2023-08-09	Email	@erin_tweets	Fun weekend!	0.513564137
		265	2023-08-13			Need assistance	0.408644735
		266			alice@example	Great work!	0.552484959
		267	2023-08-13	Email	dave@example	Great work!	0.550955762
		268	2023-08-12	Slack	carol_slack	Team meeting	0.504667453
		269	2023-08-03		-	Hello everyone!	0.401231622
		270	2023-08-09	Slack	@bob_tweets	Team meeting	0.500293179
		271	2023-08-14		@frank_chat	Team meeting	0.499737595
		272	2023-08-05		dave@example	Great work!	0.544805384
		273	2023-08-20		carol_slack	Great work!	0.544291852
		274	2023-08-15		carol_slack	Team meeting	0.498292263
		275	2023-08-13	Email	@erin_tweets	Fun weekend!	0.496487776
		276	2023-08-01		@erin_tweets	Exciting news!	0.423581860
		277	2023-08-15	Slack	@bob_tweets	Exciting news!	0.423514269
	##	278	2023-08-14	Slack	dave@example	Great work!	0.538406652
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##	279	2023-08-18	Email	alice@example	Exciting news!	0.422912350
##	280	2023-08-10	Email	@frank_chat	Great work!	0.533465849
##	281	2023-08-08	Twitter	@frank_chat	Fun weekend!	0.484796492
##	282	2023-08-14	Twitter	alice@example	Exciting news!	0.415267176
##	283	2023-08-15	Email	@frank_chat	Need assistance	0.385732211
##	284	2023-08-15	Twitter	@frank_chat	Hello everyone!	0.384222084
##	285	2023-08-19	Twitter	@bob_tweets	Great work!	0.521462946
##	286	2023-08-14	Twitter	dave@example	Fun weekend!	0.474564350
##	287	2023-08-02	Twitter	dave@example	Great work!	0.516138048
##	288	2023-08-13	Twitter	@erin tweets	Great work!	0.515643027
##	289	2023-08-15	Twitter	dave@example	Fun weekend!	0.469535301
##	290	2023-08-19	Email	alice@example	Exciting news!	0.401543677
##	291	2023-08-11	Email	dave@example	Great work!	0.509797142
##	292	2023-08-15	Twitter	@bob_tweets	Need assistance	0.373691486
##	293	2023-08-04	Twitter	dave@example	Fun weekend!	0.463157478
##	294	2023-08-03	Slack	@frank_chat	Hello everyone!	0.368215033
##	295	2023-08-15	Slack	@erin_tweets	Team meeting	0.457860831
##	296	2023-08-19	Twitter	efrank chat	Exciting news!	0.388266448
##	297	2023-08-05	Email	carol_slack	Fun weekend!	0.451752027
##	298	2023-08-14	Email	carol_slack	Fun weekend!	0.446355308
##	299	2023-08-13	Slack	alice@example	Great work!	0.480868685
##	300	2023-08-12	Email	dave@example	Great work!	0.480317921
##	301	2023-08-16	Slack	dave@example	Fun weekend!	0.438361928
##	302	2023-08-01	Twitter	@frank_chat	Great work!	0.473425272
##	303	2023-08-07	Slack	<pre>@bob_tweets</pre>	Exciting news!	0.370947586
##	304	2023-08-09	Slack	carol_slack	<pre>Hello everyone!</pre>	0.346090994
##	305	2023-08-05	Slack	carol_slack	Great work!	0.470731148
##	306	2023-08-15	Twitter	@frank_chat	Need assistance	0.344264537
##	307	2023-08-16	Email	@frank_chat	Need assistance	0.343977793
	308	2023-08-14	Twitter	@erin_tweets	Great work!	0.468599080
##	309	2023-08-13	Twitter	@frank_chat	Exciting news!	0.368110256
	310	2023-08-15	Email	<pre>@bob_tweets</pre>	Great work!	0.468266435
	311	2023-08-02	Slack	<pre>@bob_tweets</pre>	Exciting news!	0.365244868
	312	2023-08-10		alice@example	Team meeting	0.425960287
	313	2023-08-19	Email	@frank_chat	Great work!	0.463513046
	314	2023-08-13	Slack	carol_slack	Great work!	0.460303653
	315	2023-08-17	Email	dave@example	Fun weekend!	0.420022254
	316	2023-08-04	Email	@bob_tweets	Fun weekend!	0.419715998
	317	2023-08-13	Email	@erin_tweets	Fun weekend!	0.418006041
	318	2023-08-14	Email	-	Need assistance	0.330107941
	319	2023-08-01		alice@example	Exciting news!	0.350437745
	320	2023-08-18	Slack	@bob_tweets	Team meeting	0.403409261
	321	2023-08-16	Email	@frank_chat	Fun weekend!	0.402509230
	322	2023-08-15		dave@example	Great work!	0.435108419
	323	2023-08-07		alice@example	Fun weekend!	0.397376804
	324			alice@example	Great work!	0.432502551
	325	2023-08-11	Slack	@frank_chat	Great work!	0.431652104
	326	2023-08-06		carol_slack	Fun weekend!	0.394200163
	327	2023-08-14	Slack	@erin_tweets	Exciting news!	0.336964048
	328 329	2023-08-07	Email Twitter	<pre>@frank_chat</pre>	Fun weekend!	0.387379609
				@erin_tweets	Team meeting	0.384202328
	330 331	2023-08-18 2023-08-08	Email Email	<pre>@frank_chat @erin_tweets</pre>	Fun weekend! Fun weekend!	0.380196611 0.378708432
	332	2023-08-08	Email	dave@example	Exciting news!	0.376706432
	333	2023-08-19	Email	-	Need assistance	0.324592507
	334	2023-08-03		_	Hello everyone!	0.299843722
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## 335	2023-08-16	Slack	alice@example	Exciting news!	0.320830711
## 336	2023-08-12	Twitter	@erin_tweets	Need assistance	0.298994374
## 337	2023-08-12	Twitter	carol_slack	Great work!	0.407506729
## 338	2023-08-01	Twitter	carol_slack	Great work!	0.406890230
## 339	2023-08-17	Twitter	@bob_tweets	Great work!	0.401612313
## 340	2023-08-05	Twitter	carol_slack	Team meeting	0.364639959
## 341	2023-08-05	Slack	@bob_tweets	Need assistance	0.291605130
## 342	2023-08-20	Twitter	alice@example	Exciting news!	0.310656996
## 343	2023-08-04	Email	alice@example	Exciting news!	0.308247630
## 344	2023-08-20	Twitter	@frank chat	Exciting news!	0.307898677
## 345	2023-08-16	Email	efrank chat	Exciting news!	0.305391626
## 346	2023-08-11	Email	_	Fun weekend!	0.355941510
## 347	2023-08-18	Slack	-	Team meeting	0.353438236
## 348	2023-08-15	Email	-	Hello everyone!	0.282330315
## 349	2023-08-12	Email	_	Great work!	0.383860287
## 350	2023-08-10	Slack	_	Need assistance	0.279333149
	2023-08-12	Twitter			0.278570379
	2023-08-05	Email	=	Fun weekend!	0.347548683
			-	Fun weekend!	0.346377916
			-		0.345517721
			-		0.275121063
			=		0.343653605
		_	_	•	0.341763970
				=	0.290797958
			-	_	0.362224979
		-	_		0.360768258
			=		0.264306294
		_	-	_	0.327507946
			_	_	0.275836162
			_	<u>-</u>	0.346799491
			-		0.317846402
			-	_	0.251102221
			_		0.250149151
			-		0.312383833
			-		0.312006338
			_		0.247236022
		_	-		0.304697359
			=		0.260118117
			-	-	0.235724795
			-		0.244900235
			-	_	0.306993762
			-		0.280627117
			_		0.223401716
			-	=	0.301563812
			=		0.271711212
			=		0.215954025
			-		0.269629325
			_		0.268132484
				=	0.265132846
			-	=	0.222249684
			-	=	0.282790715
			-		0.221380584
			_	=	0.221300304
## 388	2023-08-12			Team meeting	0.255163795
			_	=	
## 389	2023-08-10	Email	(bob tweets	Team meeting	0.253805156
## 389 ## 390	2023-08-10 2023-08-10	Email Twitter	<pre>@bob_tweets carol slack</pre>	Team meeting Great work!	0.253805156 0.268422757
	## ## ## ## ## ## ## ## ## ## ## ## ##	## 335	## 335	## 335	## 335

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	##	391	2023-08-10	Twitter	alice@example	Great work!	0.266619468
	##	392	2023-08-05	Email	@bob_tweets	Team meeting	0.243233590
	##	393	2023-08-04	Email	@frank_chat	Great work!	0.263225980
	##	394	2023-08-09	Email	@erin tweets	Fun weekend!	0.237909144
	##	395	2023-08-20	Twitter	@bob_tweets	Fun weekend!	0.236553716
	##	396	2023-08-04	Email	carol slack	Need assistance	0.188933107
	##	397	2023-08-14	Slack	-	Need assistance	0.187954018
		398	2023-08-18	Email	alice@example	Fun weekend!	0.233402089
		399	2023-08-08		carol_slack	Fun weekend!	0.232626481
		400	2023-08-20	Slack	carol slack	Fun weekend!	0.231915887
	##	401	2023-08-09	Twitter	_	Hello everyone!	0.184942272
		402	2023-08-09	Slack	dave@example	Fun weekend!	0.229193896
		403	2023-08-12		@bob tweets	Fun weekend!	0.226440192
		404	2023-08-12		alice@example		0.226010282
		405	2023-08-05		dave@example	Great work!	0.245927144
		406	2023-08-19	Email	-	Hello everyone!	0.179850068
	##	407	2023-08-01	Slack	erin tweets	Great work!	0.244422906
		408	2023-08-07	Slack	carol slack	Exciting news!	0.186763622
		409	2023-08-02		_	Hello everyone!	0.173851238
		410	2023-08-18	Email	_	Need assistance	0.171319252
		411	2023-08-08	Email	carol slack		0.213498762
		412		Twitter	alice@example	Team meeting	0.210089974
		413	2023-08-04	Slack	-	Need assistance	0.165087673
		414	2023-08-08	Email	alice@example		0.222402995
	##	415	2023-08-01	Email	@erin tweets	Fun weekend!	0.203746784
		416	2023-08-04	Email	_	Hello everyone!	0.161035733
	##	417	2023-08-06	Email	@bob tweets	Fun weekend!	0.201027735
	##	418	2023-08-02	Twitter	alice@example	Need assistance	0.157653404
	##	419	2023-08-10	Twitter	@frank_chat	Great work!	0.214199054
	##	420	2023-08-18	Slack	<pre>@bob_tweets</pre>	Team meeting	0.192284770
	##	421	2023-08-07	Email	@frank_chat	Team meeting	0.192018484
	##	422	2023-08-08	Twitter	@erin_tweets	Fun weekend!	0.191519982
	##	423	2023-08-07	Slack	carol_slack	Team meeting	0.190247875
	##	424	2023-08-20	Slack	<pre>@bob_tweets</pre>	Great work!	0.203791809
	##	425	2023-08-01	Twitter	<pre>@bob_tweets</pre>	Need assistance	0.148395223
	##	426	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.185009266
	##	427	2023-08-14	Twitter	alice@example	Exciting news!	0.157755047
	##	428	2023-08-10	Twitter	@erin_tweets	Great work!	0.199771451
	##	429	2023-08-19	Twitter	alice@example	Need assistance	0.143810244
	##	430	2023-08-12	Twitter	dave@example	Great work!	0.195303030
		431	2023-08-15	Twitter	alice@example	Exciting news!	0.153143482
		432	2023-08-10	Slack	_	Hello everyone!	0.142070077
		433	2023-08-15		alice@example	Team meeting	0.176413531
		434	2023-08-14	Slack	-	Need assistance	0.141076977
		435	2023-08-08	Slack	@erin_tweets	Fun weekend!	0.172925062
		436	2023-08-17		carol_slack		0.172285239
		437	2023-08-01	Slack	@bob_tweets	=	0.146396939
		438	2023-08-03		_	Need assistance	0.135939530
		439	2023-08-17	Slack	carol_slack	Fun weekend!	0.169502832
		440	2023-08-10		@erin_tweets		0.181200765
		441	2023-08-06		dave@example	Team meeting	0.165403601
		442	2023-08-04		@bob_tweets	Fun weekend!	0.163814227
		443	2023-08-05		_	Hello everyone!	0.130742100
		444	2023-08-07	Slack	@bob_tweets	Great work!	0.170066014
		445	2023-08-20		@erin_tweets	Exciting news!	0.131818828
	##	446	2023-08-18	Email	caroi_stack	Need assistance	0.121493359

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##	447	2023-08-12	Email	alice@example	Need assistance	0.120129855
##	448	2023-08-13	Twitter	alice@example	Need assistance	0.119616441
##	449	2023-08-19	Email	@erin_tweets	Fun weekend!	0.149510738
##	450	2023-08-11	Email	dave@example	Team meeting	0.146319367
##	451	2023-08-18	Twitter	@erin_tweets	Need assistance	0.116931847
##	452	2023-08-01	Twitter	@frank_chat	Great work!	0.159243134
##	453	2023-08-06	Twitter	@bob_tweets	Hello everyone!	0.116596443
##	454	2023-08-03	Twitter	@bob_tweets	Need assistance	0.115823371
##	455	2023-08-08	Email	@bob_tweets	Need assistance	0.115187556
##	456	2023-08-16	Twitter	@erin_tweets	Great work!	0.150156671
##	457	2023-08-02	Email	@frank_chat	Fun weekend!	0.129630754
##	458	2023-08-11	Twitter	dave@example	Fun weekend!	0.124404418
##	459	2023-08-16	Slack	@bob tweets	Team meeting	0.120248223
##	460	2023-08-12	Email	_ dave@example	Need assistance	0.091942075
##	461	2023-08-05	Twitter	@bob tweets	Need assistance	0.089429019
##	462	2023-08-04	Slack	carol_slack	Need assistance	0.088740259
##	463	2023-08-15	Email	@frank_chat	Great work!	0.120376800
##	464	2023-08-10	Slack	@erin tweets	Need assistance	0.086844633
##	465	2023-08-08	Email	_ dave@example	Need assistance	0.084778340
##	466	2023-08-18	Twitter	@bob_tweets	Need assistance	0.083397951
##	467	2023-08-09	Twitter	alice@example	Need assistance	0.083300223
##	468	2023-08-03	Email	@erin_tweets	Team meeting	0.100578078
##	469	2023-08-08	Slack	@erin_tweets	Exciting news!	0.085280708
##	470	2023-08-07	Slack	@erin_tweets	Hello everyone!	0.079340591
##	471	2023-08-06	Email	carol_slack	Hello everyone!	0.076276061
##	472	2023-08-01	Slack	dave@example	Team meeting	0.093826082
##	473	2023-08-19	Email	dave@example	Team meeting	0.087382621
##	474	2023-08-20	Email	carol_slack	Team meeting	0.082343857
##	475	2023-08-05	Twitter	$\verb"alice@example"$	Team meeting	0.082249742
##	476	2023-08-10	Email	@erin_tweets	<pre>Hello everyone!</pre>	0.063933458
##	477	2023-08-07	Email	<pre>@bob_tweets</pre>	Fun weekend!	0.079245736
##	478	2023-08-04	Email	<pre>@frank_chat</pre>	Need assistance	0.063336529
##	479	2023-08-20	Email	carol_slack	Team meeting	0.078007510
##		2023-08-11	Email	-	Need assistance	0.060486035
	481	2023-08-12	Email	alice@example	Exciting news!	0.063475272
##	482	2023-08-06	Slack	@erin_tweets	Exciting news!	0.063273371
	483	2023-08-11	Slack	carol_slack	Exciting news!	0.062969209
	484	2023-08-15	Slack	@frank_chat	Hello everyone!	0.058449768
	485	2023-08-08	Slack	@erin_tweets	Team meeting	0.068864945
	486	2023-08-10	Email	_	Hello everyone!	0.051583528
	487	2023-08-08	Slack	carol_slack	Exciting news!	0.055117640
	488	2023-08-04		@bob_tweets	Exciting news!	0.053784013
	489	2023-08-18	Email	@frank_chat	Fun weekend!	0.061621126
	490	2023-08-02	Slack	carol_slack	Great work!	0.066785066
	491	2023-08-20		alice@example	Great work!	0.062977130
	492	2023-08-14			Need assistance	0.043240849
	493	2023-08-13		=	Hello everyone!	0.042741961
	494	2023-08-03		carol_slack	Exciting news!	0.044649603
	495	2023-08-14		=	Need assistance	0.041204039
	496	2023-08-10	Slack		Need assistance	0.037588875
	497	2023-08-06			Need assistance	0.037042340
	498 499	2023-08-02	Slack	carol_slack	Fun weekend! Great work!	0.045978463
	500	2023-08-03 2023-08-12	Email	carol_slack dave@example	Fun weekend!	0.049291416 0.043927317
	500	2023-08-12	Slack	@bob_tweets	Great work!	0.043927317
	502	2023-08-11		@erin tweets	Fun weekend!	0.038330505
π#	J U Z	2023-00-12	TMTCCET	GET TII CMEECS	run weekend:	0.030330303

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## 50	3 2023-08-10	Twitter	carol_slack	Exciting news!	0.030849482
## 50	4 2023-08-14	Email	@erin_tweets	Fun weekend!	0.035476264
## 50	5 2023-08-19	Slack	@erin_tweets	Great work!	0.037533612
## 50	6 2023-08-10	Slack	@bob_tweets	Exciting news!	0.027252671
## 50	7 2023-08-01	Slack	@erin_tweets	Team meeting	0.031597136
## 50	8 2023-08-14	Twitter	alice@example	Team meeting	0.024089097
## 50	9 2023-08-09	Email	@erin_tweets	Exciting news!	0.020394353
## 51	0 2023-08-04	Email	@bob_tweets	Need assistance	0.017915569
## 51	1 2023-08-11	Twitter	dave@example	Exciting news!	0.018387399
## 51	2 2023-08-05	Slack	dave@example	Great work!	0.018169560
## 51	3 2023-08-06	Twitter	dave@example	Fun weekend!	0.005671109
## 51	4 2023-08-01	Twitter	@frank_chat	Need assistance	-0.003094339
## 51	5 2023-08-18	Twitter	@frank chat	Team meeting	-0.004460444
## 51	6 2023-08-08	Email	alice@example	Exciting news!	-0.007040349
## 51	7 2023-08-10	Email	@frank chat	Exciting news!	-0.010767524
## 51	8 2023-08-18	Twitter	dave@example		-0.012694929
## 51	9 2023-08-09	Twitter	alice@example	Great work!	-0.013945965
## 52	0 2023-08-07	Twitter	dave@example	Team meeting	-0.014527882
## 52	1 2023-08-14	Twitter	@bob tweets	=	-0.018533767
## 52	2 2023-08-16	Email	-	Need assistance	-0.014521594
## 52	3 2023-08-03	Email	@frank chat	Great work!	-0.022698464
## 52	4 2023-08-09	Email	erin tweets	Exciting news!	-0.018193701
## 52	5 2023-08-05	Twitter	dave@example	Fun weekend!	-0.021554315
## 52	6 2023-08-13	Twitter	alice@example	Great work!	-0.026141260
## 52	7 2023-08-03	Twitter	dave@example	Team meeting	-0.024207670
## 52	8 2023-08-08	Twitter	@bob_tweets	Team meeting	-0.024243061
## 52	9 2023-08-01	Slack	@bob tweets	Exciting news!	-0.024743940
## 53	0 2023-08-18	Email	alice@example	Hello everyone!	-0.024430894
## 53	1 2023-08-11	Email	alice@example	Fun weekend!	-0.034278538
## 53	2 2023-08-16	Email	carol_slack	Hello everyone!	-0.029610693
## 53	3 2023-08-11	Slack	@bob_tweets	Exciting news!	-0.033773244
## 53	4 2023-08-16	Email	carol_slack	Great work!	-0.045373839
## 53	5 2023-08-13	Twitter	dave@example	Fun weekend!	-0.042934414
## 53	6 2023-08-17	Twitter	dave@example	Need assistance	-0.035525655
## 53	7 2023-08-11	Email	@erin_tweets	Great work!	-0.049498704
## 53	8 2023-08-17	Email	dave@example	Team meeting	-0.047711935
## 53	9 2023-08-05	Twitter	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	-0.038818533
## 54	0 2023-08-04	Slack	carol_slack	Fun weekend!	-0.049394990
## 54	1 2023-08-19	Email	$\verb"alice@example"$	<pre>Hello everyone!</pre>	-0.040838550
## 54	2 2023-08-12	Email	<pre>@bob_tweets</pre>	Need assistance	-0.042491458
## 54	3 2023-08-12	Slack	carol_slack	Need assistance	-0.044029484
## 54	4 2023-08-09	Twitter	carol_slack	Fun weekend!	-0.056202481
## 54	5 2023-08-08	Email	<pre>@frank_chat</pre>	Exciting news!	-0.050068120
## 54	6 2023-08-10	Email	<pre>@bob_tweets</pre>	Team meeting	-0.060755176
## 54	7 2023-08-06	Slack	<pre>@frank_chat</pre>	<pre>Hello everyone!</pre>	-0.050532605
## 54	8 2023-08-08	Email	alice@example	Great work!	-0.068923920
## 54			<pre>@frank_chat</pre>	Exciting news!	
## 55			dave@example	Fun weekend!	
## 55			@frank_chat		-0.071027102
## 55			carol_slack	-	-0.074092148
## 55			dave@example	Team meeting	
## 55			-	Need assistance	
## 55				Hello everyone!	
## 55				Need assistance	
## 55			_	Need assistance	
## 55	8 2023-08-18	Slack	alice@example	Fun weekend!	-0.088887415

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## 559	2023-08-13	Email	@bob_tweets	Team meeting	-0.092784007
## 560	2023-08-10	Slack	<pre>@bob_tweets</pre>	Hello everyone!	-0.075317414
## 561	2023-08-05	Email	@frank_chat	Team meeting	-0.094959955
## 562	2023-08-08	Twitter	@frank_chat	Hello everyone!	-0.081353148
## 563	2023-08-12	Email	@frank_chat	Fun weekend!	-0.102208237
## 564	2023-08-14	Email	alice@example	Great work!	-0.111933967
## 565	2023-08-06	Slack	alice@example	Fun weekend!	-0.103599444
## 566	2023-08-18	Slack	alice@example	Great work!	-0.114574431
## 567	2023-08-19		=	Fun weekend!	-0.111042333
## 568	2023-08-04	Slack	alice@example	Team meeting	-0.111247493
## 569	2023-08-01	Slack	_	_	
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			_	-	
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## 614	2023-08-20	Email	alice@example	Hello everyone!	-0.166448134
	## 559 ## 560 ## 561 ## 562 ## 563 ## 564 ## 565 ## 566 ## 567	## 559	## 559	## 559	## 559

```
## 615
        2023-08-14 Twitter alice@example
                                               Great work! -0.232635738
## 616
                             @erin_tweets Hello everyone! -0.172054263
        2023-08-06
                      Email
## 617
        2023-08-07
                                            Exciting news! -0.184577833
                      Email
                             dave@example
## 618
        2023-08-08 Twitter alice@example
                                               Great work! -0.236779108
## 619
        2023-08-03
                      Slack
                             @erin_tweets Need assistance -0.173975688
## 620
        2023-08-15 Twitter
                             @erin tweets
                                               Great work! -0.244326655
## 621
        2023-08-20
                      Email
                             @erin tweets
                                            Exciting news! -0.195798854
## 622
        2023-08-17
                      Email
                              @frank_chat
                                              Team meeting -0.229243480
## 623
        2023-08-04
                      Email
                              @bob_tweets
                                               Great work! -0.251496902
## 624
                                              Team meeting -0.232014328
        2023-08-17 Twitter
                              @frank chat
## 625
        2023-08-07
                      Email
                              @bob tweets
                                              Team meeting -0.232356975
##
  626
        2023-08-04
                                            Exciting news! -0.200843529
                      Email alice@example
##
   627
        2023-08-04
                      Slack alice@example Hello everyone! -0.187917918
##
   628
        2023-08-04
                      Email
                              @bob tweets
                                              Team meeting -0.235653992
##
   629
        2023-08-05
                      Slack
                             @erin tweets
                                              Fun weekend! -0.240693055
## 630
        2023-08-16 Twitter
                             dave@example Need assistance -0.194268964
## 631
        2023-08-18 Twitter
                             dave@example
                                            Exciting news! -0.209318373
##
   632
        2023-08-05
                      Slack
                             @erin tweets Need assistance -0.195926677
## 633
        2023-08-10
                      Slack
                              @frank chat Need assistance -0.198273231
## 634
        2023-08-02
                      Email
                             dave@example
                                            Exciting news! -0.212464974
## 635
        2023-08-19
                      Slack alice@example
                                              Team meeting -0.249497572
  636
        2023-08-14
                      Slack
                             @erin tweets
                                              Fun weekend! -0.259928443
##
## 637
        2023-08-15
                      Slack
                              @bob_tweets
                                              Team meeting -0.271451744
## 638
        2023-08-04 Twitter
                             @erin_tweets Hello everyone! -0.217646003
## 639
        2023-08-12
                      Slack
                              @frank chat Hello everyone! -0.219064676
        2023-08-14
##
  640
                      Email
                             @erin_tweets Need assistance -0.220039924
## 641
        2023-08-17 Twitter
                              carol_slack
                                            Exciting news! -0.237763272
## 642
        2023-08-19 Twitter
                                              Team meeting -0.284638313
                             dave@example
## 643
                                               Great work! -0.311243319
        2023-08-07
                      Slack
                              @bob_tweets
##
   644
        2023-08-12
                      Slack
                             dave@example
                                              Fun weekend! -0.285561244
## 645
        2023-08-01 Twitter
                              carol_slack
                                               Great work! -0.311684015
##
  646
        2023-08-16 Twitter
                             dave@example
                                              Fun weekend! -0.286604216
  647
##
        2023-08-16
                      Email
                              @frank_chat
                                              Team meeting -0.287118956
##
   648
        2023-08-10 Twitter
                              @frank_chat
                                              Team meeting -0.289186294
  649
##
        2023-08-04
                      Email
                              @frank_chat
                                               Great work! -0.317266905
   650
        2023-08-06
##
                      Slack
                              carol slack
                                            Exciting news! -0.249575844
##
  651
        2023-08-10
                      Slack alice@example Need assistance -0.236316590
##
   652
        2023-08-19 Twitter alice@example
                                              Team meeting -0.299451457
##
  653
        2023-08-18
                      Email
                             @erin_tweets Need assistance -0.240649289
##
   654
        2023-08-07
                      Email alice@example
                                               Great work! -0.329095908
##
  655
        2023-08-12
                      Email
                             @erin tweets
                                            Exciting news! -0.260005387
##
   656
        2023-08-11 Twitter
                              @frank_chat
                                              Team meeting -0.303564250
##
   657
        2023-08-03 Twitter
                              @bob tweets Hello everyone! -0.243440011
## 658
                                              Team meeting -0.307752223
        2023-08-01
                      Email
                              @frank_chat
##
  659
        2023-08-19
                      Email
                             dave@example
                                               Great work! -0.336303487
  660
##
        2023-08-16 Twitter
                             @erin_tweets
                                            Exciting news! -0.265161676
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   661
        2023-08-08
                              @bob tweets Need assistance -0.249764988
                      Email
## 662
        2023-08-10
                      Email
                              @frank_chat
                                              Team meeting -0.320194449
## 663
        2023-08-05
                      Slack
                              carol_slack
                                              Team meeting -0.320228465
## 664
                             @erin tweets
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                                               Great work! -0.359934055
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   669
        2023-08-05
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## 670
        2023-08-10
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```

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Slack
## 671
                             @erin_tweets
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        2023-08-16
## 672
                             dave@example Need assistance -0.273263505
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        2023-08-03 Twitter
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        2023-08-11 Twitter
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                      Slack
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        2023-08-15
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        2023-08-03
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  725
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                      Email
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                             @erin tweets Hello everyone! -0.360894154
## 726
        2023-08-12
                      Slack
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	##	727	2023-08-08	Slack	carol_slack	Exciting news!	-0.388513986
	##	728	2023-08-09	Twitter	dave@example	Great work!	-0.495721815
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	##	730	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.369747002
	##	731	2023-08-10	Twitter	dave@example	Great work!	-0.505026447
	##	732	2023-08-01	Twitter	@frank_chat	Exciting news!	-0.398672424
	##	733	2023-08-17	Email	@bob_tweets	Team meeting	-0.467768930
	##	734	2023-08-16	Twitter	carol_slack	Need assistance	-0.375053814
	##	735	2023-08-19	Slack	efrank chat	Team meeting	-0.472906698
	##	736	2023-08-19	Twitter	alice@example	Hello everyone!	
	##	737	2023-08-02	Slack	@erin tweets	Fun weekend!	-0.474169046
	##	738	2023-08-14	Slack	_ @erin tweets	Great work!	-0.518683678
	##	739	2023-08-20	Twitter	efrank chat	Team meeting	-0.476500273
	##	740	2023-08-03	Twitter	@bob_tweets	Exciting news!	-0.408464086
	##	741	2023-08-14	Slack	efrank chat	Need assistance	-0.384110797
	##	742	2023-08-19	Slack	dave@example	Great work!	-0.526421044
	##	743	2023-08-06	Twitter	@erin_tweets	Exciting news!	-0.415566467
	##	744	2023-08-02	Slack	alice@example	Fun weekend!	-0.485003887
	##	745	2023-08-20		alice@example	Exciting news!	-0.415822029
		746	2023-08-12	Email	carol slack	Team meeting	
	##	747	2023-08-13	Slack	alice@example	Team meeting	
	##	748	2023-08-11	Email	@bob tweets		-0.539260621
	##	749	2023-08-18	Slack	-	Hello everyone!	
	##	750	2023-08-04	Twitter	dave@example	Fun weekend!	
	##	751	2023-08-10	Twitter	@erin tweets	Fun weekend!	-0.496555788
	##	752	2023-08-06	Slack	alice@example		-0.545365768
	##	753	2023-08-07		@bob tweets		-0.548428072
	##	754	2023-08-11	Slack	_ @bob tweets	Great work!	-0.549234209
	##	755	2023-08-06	Twitter	dave@example	Exciting news!	-0.433124611
	##	756	2023-08-07	Slack	@bob tweets	Fun weekend!	-0.511013610
	##	757	2023-08-18	Twitter	@frank_chat	Exciting news!	-0.445320373
	##	758	2023-08-13	Slack	carol_slack	Hello everyone!	-0.416070993
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	##	760	2023-08-01	Twitter	@frank_chat	Team meeting	-0.526283488
	##	761	2023-08-20	Slack	carol_slack	Great work!	-0.574539005
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	##	767	2023-08-13	Twitter	<pre>@frank_chat</pre>	<pre>Hello everyone!</pre>	-0.426096413
	##	768	2023-08-16	Twitter	@bob_tweets	Fun weekend!	-0.533522750
	##	769	2023-08-06	Slack	dave@example	Team meeting	-0.536957865
	##	770	2023-08-04	Email	<pre>@bob_tweets</pre>	Fun weekend!	-0.539049788
	##	771	2023-08-12	Twitter	carol_slack	Need assistance	-0.435741366
	##	772	2023-08-20	Slack	carol_slack	Great work!	-0.595158034
	##	773	2023-08-07	Twitter	@erin_tweets	Great work!	-0.597466531
	##	774	2023-08-06	Email	dave@example	Need assistance	-0.438415068
	##	775	2023-08-15	Email	@frank_chat	Need assistance	-0.438784983
	##	776	2023-08-06	Twitter	<pre>@bob_tweets</pre>	Team meeting	-0.549432104
	##	777	2023-08-03	Email	$\verb"alice@example"$	<pre>Hello everyone!</pre>	-0.440484574
	##	778	2023-08-16	Email	<pre>@frank_chat</pre>	Fun weekend!	-0.552409418
	##	779	2023-08-20	Slack	dave@example	Exciting news!	-0.476039052
	##	780	2023-08-14	Email	@erin_tweets	<pre>Hello everyone!</pre>	-0.446434771
	##	781	2023-08-18	Email	<pre>@bob_tweets</pre>	Fun weekend!	-0.558283084
	##	782	2023-08-18	Slack	<pre>@bob_tweets</pre>	Fun weekend!	-0.558302570

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## 783
                      Slack
                              @bob_tweets Hello everyone! -0.452905738
        2023-08-06
## 784
        2023-08-18
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                                              Fun weekend! -0.566594298
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## 787
        2023-08-16
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                              @bob_tweets Need assistance -0.459899545
## 788
        2023-08-15
                      Email
                             @erin tweets
                                              Fun weekend! -0.576360519
##
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  791
        2023-08-11 Twitter
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  792
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                                              Fun weekend! -0.584208118
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##
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  794
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                             @erin tweets
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##
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        2023-08-14 Twitter alice@example
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  797
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## 801
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                             dave@example
## 802
        2023-08-19
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##
        2023-08-17 Twitter
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        2023-08-18
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## 806
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        2023-08-20 Twitter
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## 807
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## 808
        2023-08-15
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## 809
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  823
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  829
##
        2023-08-20 Twitter
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        2023-08-11
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## 838
        2023-08-15 Twitter alice@example
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                      Email
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##
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##
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        2023-08-19
                      Slack
                             dave@example
                                              Team meeting -0.789976987
##
  879
        2023-08-09
                      Email
                              @frank chat Hello everyone! -0.633588556
##
   880
        2023-08-04
                   Twitter
                             dave@example Need assistance -0.635092593
##
   881
        2023-08-01
                      Email
                              @frank chat
                                              Fun weekend! -0.797102704
##
  882
        2023-08-15 Twitter
                              carol slack Hello everyone! -0.638266036
##
  883
        2023-08-15 Twitter
                              @frank chat Need assistance -0.639425840
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##
        2023-08-11
                      Slack alice@example
                                              Fun weekend! -0.799520459
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##
        2023-08-07
                      Slack alice@example
                                            Exciting news! -0.686074989
                                              Team meeting -0.801527123
## 886
        2023-08-20
                      Email
                              @bob_tweets
                                              Team meeting -0.801572199
## 887
        2023-08-15
                      Email
                              @bob_tweets
  888
##
        2023-08-02 Twitter
                              carol slack
                                            Exciting news! -0.693217811
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  889
        2023-08-14 Twitter
                             @erin_tweets Hello everyone! -0.647561021
                                              Team meeting -0.812502595
## 890
        2023-08-03
                      Slack
                             @erin_tweets
                             @erin_tweets
## 891
        2023-08-02
                      Slack
                                               Great work! -0.887057793
##
  892
        2023-08-14
                              @bob_tweets
                                              Team meeting -0.815906889
                      Email
##
   893
        2023-08-20 Twitter
                             dave@example
                                              Fun weekend! -0.818538250
                                              Team meeting -0.823923888
## 894
        2023-08-19
                      Email
                             @erin tweets
```

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	##	895	2023-08-03	Email	@erin_tweets	Great work!	-0.900102365
	##	896	2023-08-08	Email	alice@example	Hello everyone!	-0.666331347
	##	897	2023-08-14	Email	@erin_tweets	Fun weekend!	-0.835450725
	##	898	2023-08-14	Twitter	@frank_chat	Great work!	-0.912142744
	##	899	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.719712700
	##	900	2023-08-04	Slack	dave@example	Fun weekend!	-0.848228461
	##	901	2023-08-03	Twitter	@erin_tweets	Need assistance	-0.680233249
	##	902	2023-08-14	Slack	@erin_tweets	Exciting news!	-0.736287751
	##	903	2023-08-15	Slack	@erin_tweets	Hello everyone!	-0.689319659
	##	904	2023-08-14	Slack	alice@example	Hello everyone!	-0.691606675
	##	905	2023-08-13	Twitter	@frank_chat	Hello everyone!	-0.694118693
	##	906	2023-08-13	Slack	carol_slack	Great work!	-0.947211589
	##	907	2023-08-01	Email	dave@example	Great work!	-0.948017055
	##	908	2023-08-15	Email	carol_slack	Exciting news!	-0.745493084
	##	909	2023-08-01	Twitter	@frank chat	Need assistance	-0.696885624
	##	910	2023-08-17	Email	efrank_chat	Great work!	-0.951084716
	##	911	2023-08-10	Slack	dave@example	Exciting news!	-0.750027833
	##	912	2023-08-13	Twitter	@erin tweets	Great work!	-0.956337988
	##	913	2023-08-01	Slack	carol_slack	Fun weekend!	-0.877705400
	##	914	2023-08-13	Twitter	efrank_chat	Team meeting	-0.877922161
	##	915	2023-08-10	Twitter	dave@example	Team meeting	-0.879799920
	##	916	2023-08-19	Slack	@frank chat	Team meeting	-0.887928675
	##	917	2023-08-10	Slack	dave@example	_	
	##	918	2023-08-14	Twitter	@bob tweets		-0.970631612
	##	919	2023-08-12	Twitter	dave@example	Need assistance	-0.713639749
	##	920	2023-08-11	Slack	@erin_tweets	Team meeting	-0.893834382
	##	921	2023-08-06	Slack	@bob_tweets	Fun weekend!	-0.895003283
	##	922	2023-08-08	Twitter	@bob_tweets	Need assistance	-0.716619523
	##	923	2023-08-18	Email	dave@example	Exciting news!	-0.768564025
	##	924	2023-08-07	Slack	dave@example	Need assistance	-0.718395420
	##	925	2023-08-18	Slack	<pre>@bob_tweets</pre>	Fun weekend!	-0.898072343
	##	926	2023-08-17	Email	@frank_chat	Exciting news!	-0.770805090
	##	927	2023-08-09	Email	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	-0.725457437
	##	928	2023-08-09	Twitter	alice@example	Exciting news!	-0.792284821
	##	929	2023-08-10	Twitter	<pre>@frank_chat</pre>	<pre>Hello everyone!</pre>	-0.740855453
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	##	931	2023-08-13	Slack	alice@example	Team meeting	-0.927027794
	##	932	2023-08-06	Slack	<pre>@bob_tweets</pre>	Fun weekend!	-0.927836751
	##	933	2023-08-16	Email	<pre>@erin_tweets</pre>	Fun weekend!	-0.928850479
	##	934	2023-08-05		<pre>@bob_tweets</pre>	Exciting news!	-0.798021044
		935	2023-08-16	Slack	<pre>@frank_chat</pre>	Team meeting	
		936	2023-08-10	Slack	dave@example	Team meeting	
		937	2023-08-14		<pre>@frank_chat</pre>	Team meeting	
		938	2023-08-17	Slack	_	Need assistance	
		939	2023-08-10		alice@example	Team meeting	
	##	940	2023-08-18	Slack		Need assistance	
		941	2023-08-19	Email	@frank_chat	Team meeting	
		942	2023-08-15		-	Hello everyone!	
		943	2023-08-04	Email	@bob_tweets	Fun weekend!	
		944	2023-08-11	Slack	@bob_tweets	Team meeting	
		945	2023-08-09	Email	@erin_tweets	Team meeting	
		946	2023-08-10	Slack	_	Need assistance	
		947			alice@example	Fun weekend!	
		948	2023-08-01		@frank_chat	Exciting news!	
		949	2023-08-07	Slack	dave@example	Exciting news!	
	##	950	2023-08-18	Email	aave@example	Need assistance	-0.//0186925

```
## 951
        2023-08-04 Twitter
                              @bob_tweets Hello everyone! -0.774547359
## 952
                             @erin tweets Need assistance -0.775436828
        2023-08-08
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                                             Team meeting -0.970338997
## 953
        2023-08-10
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                     Email
## 954
                              @frank_chat
        2023-08-10 Twitter
                                             Team meeting -0.976236885
## 955
        2023-08-08
                     Email
                             @erin_tweets
                                           Exciting news! -0.847681918
## 956
        2023-08-20
                     Email
                              @frank_chat
                                             Team meeting -0.993759494
## 957
        2023-08-14
                     Email
                              @bob_tweets
                                             Team meeting -0.996662613
## 958
        2023-08-14
                     Slack alice@example Hello everyone! -0.798660460
## 959
        2023-08-14 Twitter
                             dave@example
                                             Fun weekend! -0.998980226
## 960
        2023-08-16
                     Email alice@example
                                          Exciting news! -0.858994203
## 961
        2023-08-17 Twitter
                              carol slack Need assistance -0.806338225
## 962
        2023-08-08
                     Slack alice@example Hello everyone! -0.812013249
##
  963
        2023-08-11
                     Slack
                              @frank chat
                                           Exciting news! -0.871460078
## 964
        2023-08-10
                     Slack
                              @bob tweets
                                           Exciting news! -0.873230109
## 965
        2023-08-10
                     Email alice@example Need assistance -0.815106571
## 966
        2023-08-16 Twitter
                              carol slack
                                          Exciting news! -0.875286373
## 967
        2023-08-05
                     Email alice@example Hello everyone! -0.822144668
##
  968
        2023-08-14
                     Email
                             dave@example Need assistance -0.829999507
## 969
        2023-08-13
                     Email
                             dave@example Need assistance -0.834047724
## 970
        2023-08-17
                     Email
                              @frank_chat Need assistance -0.837423526
## 971
        2023-08-11
                     Email alice@example Exciting news! -0.901918261
## 972
        2023-08-11
                     Slack
                             dave@example Hello everyone! -0.843954970
## 973
        2023-08-07
                              @bob_tweets Need assistance -0.846264025
                     Slack
## 974
        2023-08-16
                     Email
                              carol_slack Hello everyone! -0.851052538
## 975
        2023-08-10
                     Email
                              @frank chat Need assistance -0.857863282
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        2023-08-20
                     Slack alice@example Hello everyone! -0.863882122
## 977
        2023-08-13
                              carol_slack Exciting news! -0.930242309
                     Email
## 978
        2023-08-16
                     Slack
                              @frank_chat Hello everyone! -0.878399170
## 979
        2023-08-08
                     Slack
                             @erin_tweets Need assistance -0.879413284
## 980
        2023-08-06 Twitter alice@example Hello everyone! -0.882707532
## 981
        2023-08-13 Twitter
                              @bob_tweets Need assistance -0.883181106
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        2023-08-14 Twitter alice@example Hello everyone! -0.892831107
## 983
        2023-08-03 Twitter alice@example Hello everyone! -0.893453151
## 984
        2023-08-10
                     Slack
                             @erin tweets Need assistance -0.904224418
## 985
        2023-08-18
                              carol_slack Exciting news! -0.978982675
                     Email
                     Slack alice@example Need assistance -0.917325706
## 986
        2023-08-10
## 987
        2023-08-01 Twitter
                              @bob tweets Hello everyone! -0.918783627
##
  988
        2023-08-12
                     Slack
                              carol slack Need assistance -0.919222645
## 989
        2023-08-14
                     Slack
                              @frank_chat Need assistance -0.920249034
## 990
        2023-08-12
                     Email alice@example
                                          Exciting news! -0.995861550
## 991
        2023-08-09
                     Slack
                             @erin tweets Hello everyone! -0.932525445
## 992
        2023-08-18 Twitter alice@example Hello everyone! -0.936083395
## 993
        2023-08-13
                     Email
                             @erin tweets Hello everyone! -0.939573104
## 994
        2023-08-05
                     Slack
                              @bob tweets Hello everyone! -0.940684421
## 995
        2023-08-13
                     Slack
                            dave@example Hello everyone! -0.945477226
## 996
        2023-08-01 Twitter
                              @frank_chat Need assistance -0.970480603
## 997
                             dave@example Hello everyone! -0.987261285
        2023-08-06
                     Email
## 998
        2023-08-01
                     Slack
                             dave@example Need assistance -0.988749139
## 999
        2023-08-08
                     Email
                              @frank_chat Need assistance -0.992002849
##
  1000 2023-08-08
                     Email
                             dave@example Need assistance -0.998774239
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        length_of_message
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## 4
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## 5
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## 194	15	7.96100313
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## 218 ## 219	15 15	7.38461604 7.37480694
## 220	12	7.34066046
## 220 ## 221	15	7.32836872
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## 227	15	7.22293664
## 228	11	7.17411441
## 229	11	7.11064608
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//// / / / / / / / / / / / / / / / / /	1 0 0 1000	77 /XX 1 4 / C1 11 4

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## 230	12	7.09103379
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## 285	11	5.73609240
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## 888	14 -9.70504935
## 889	15 -9.71341532
## 890	12 -9.75003114
## 891	11 -9.75763572
## 892	12 -9.79088267
## 893	12 -9.82245900
## 894	12 -9.88708666
## 895	11 -9.90112602
## 896	15 -9.99497020
## 897	12 -10.02540870
## 898	11 -10.03357018
## 899	14 -10.07597780
## 900	12 -10.17874153
## 901	15 -10.20349873

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## 902	14 -10.30802851
## 903	15 -10.33979489
## 904	15 -10.37410012
## 905	15 -10.41178040
## 906	11 -10.41932748
## 907	11 -10.42818761
## 908	14 -10.43690318
## 909	15 -10.45328437
## 910	11 -10.46193188
## 911	14 -10.50038966
## 912	11 -10.51971787
## 913	12 -10.53246480
## 914	12 -10.53506594
## 915	12 -10.55759904
## 916	12 -10.65514410
## 917	14 -10.66971880
## 918	11 -10.67694773
## 919	15 -10.70459624
## 920	12 -10.72601259
## 921	12 -10.74003940
## 922	15 -10.74929284
## 923	14 -10.75989636
## 924	15 -10.77593130
## 925	12 -10.77686812
## 926	14 -10.79127126
## 927	15 -10.88186155
## 928	14 -11.09198750
## 929	15 -11.11283179
## 930	12 -11.11865935
## 931	12 -11.12433352
## 932	12 -11.13404101
## 933	12 -11.14620575
## 934	14 -11.17229462
## 935	12 -11.20413451
## 936	12 -11.21931751
## 937	12 -11.22732696
## 938	15 -11.25707340
## 939	12 -11.27288802
## 940	15 -11.31523270
## 941	12 -11.31659926
## 942	15 -11.41657497
## 943	12 -11.43866660
## 944	12 -11.46437728
## 945	12 -11.48398839
## 946	15 -11.49368184
## 947	12 -11.50630001
## 948	14 -11.51892430
## 949	14 -11.53429080
## 950	15 -11.55280388
## 951	15 -11.61821038
## 952	15 -11.63155242
## 953	12 -11.64406797
## 954	12 -11.71484262
## 955	14 -11.86754685
## 956	12 -11.92511393
## 957	12 -11.95995136
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## 958
                        15 -11.97990691
## 959
                        12 -11.98776271
## 960
                        14 -12.02591884
## 961
                        15 -12.09507338
## 962
                        15 -12.18019874
                        14 -12.20044109
## 963
## 964
                        14 -12.22522152
## 965
                        15 -12.22659857
## 966
                        14 -12.25400923
## 967
                        15 -12.33217002
## 968
                        15 -12.44999260
## 969
                        15 -12.51071587
## 970
                        15 -12.56135289
## 971
                        14 -12.62685565
## 972
                        15 -12.65932455
## 973
                        15 -12.69396038
                        15 -12.76578807
## 974
## 975
                        15 -12.86794923
## 976
                        15 -12.95823183
## 977
                        14 -13.02339232
## 978
                        15 -13.17598754
## 979
                        15 -13.19119926
                        15 -13.24061299
## 980
## 981
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## 982
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## 983
                        15 -13.40179727
## 984
                        15 -13.56336626
## 985
                        14 -13.70575745
## 986
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## 987
                        15 -13.78175441
## 988
                        15 -13.78833968
## 989
                        15 -13.80373551
## 990
                        14 -13.94206170
## 991
                        15 -13.98788168
## 992
                        15 -14.04125092
## 993
                        15 -14.09359656
## 994
                        15 -14.11026632
## 995
                        15 -14.18215839
                        15 -14.55720904
## 996
## 997
                        15 -14.80891927
## 998
                        15 -14.83123708
## 999
                        15 -14.88004273
                        15 -14.98161358
## 1000
```

```
comm_data %>%
  mutate(product = nchar(message)*sentiment) %>%
  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	_	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	<pre>Hello everyone!</pre>	0.937329018	14.05993527
##	12	2023-08-13	Email	<pre>@frank_chat</pre>	Need assistance	0.935812009	14.03718014
##	13	2023-08-04	Slack	<pre>@frank_chat</pre>	Need assistance	0.933738099	14.00607149
##	14	2023-08-11	Slack	dave@example	Need assistance	0.930096855	13.95145283
##	15	2023-08-07	Slack	<pre>@frank_chat</pre>	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
##		2023-08-07	Slack	@frank_chat	Need assistance	0.914976185	13.72464278
##		2023-08-06		<pre>@bob_tweets</pre>	Exciting news!	0.979591473	13.71428062
##		2023-08-08		=	Need assistance	0.911442756	13.67164134
##		2023-08-06	Email	-	Hello everyone!	0.905330024	13.57995036
##		2023-08-17		=	Exciting news!	0.968932204	13.56505086
##		2023-08-03			Hello everyone!	0.902683333	13.54025000
##		2023-08-01			Hello everyone!	0.902623749	13.53935624
##		2023-08-09	Slack	_	Hello everyone!	0.902016178	13.53024267
##		2023-08-15		=	Need assistance	0.899728119	13.49592178
## ##		2023-08-03	Slack	_	Need assistance	0.896539724	13.44809587 13.43735224
##		2023-08-07 2023-08-17		_	Need assistance Exciting news!	0.895823483 0.953910344	13.45/35224
##		2023-08-17	Slack	_	Need assistance	0.886342321	13.29513481
##		2023-08-11			Hello everyone!	0.879992486	13.19988729
##		2023-08-07			Need assistance	0.877496709	13.16245064
##		2023-08-20	Email	@bob tweets		0.931368547	13.03915965
##		2023-08-14	Email		Need assistance	0.867801995	13.01702993
##		2023-08-12	Email	_	Need assistance	0.866607873	12.99911810
##			Twitter	alice@example		0.927110374	12.97954523
##				-	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	<pre>@frank_chat</pre>	Fun weekend!	0.992682932	11.91219518
##		2023-08-12	Slack	<pre>@bob_tweets</pre>	Fun weekend!	0.990166281	11.88199537
##		2023-08-13		dave@example	Fun weekend!	0.986894567	11.84273481
##		2023-08-20	Email	dave@example	Team meeting	0.985037738	11.82045285
##		2023-08-15		_	Need assistance	0.787741330	11.81611995
##				alice@example	Fun weekend!	0.977650215	11.73180258
##		2023-08-15	Email	=	Need assistance	0.773382573	11.60073860
##	54	2023-08-02	Twitter	alice@example	Team meeting	0.964958043	11.57949651

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	##	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
	##		2023-08-10	Slack	@bob tweets	Fun weekend!	0.957983019	11.49579623
	##		2023-08-09	Twitter	_	Hello everyone!	0.762754925	11.44132388
	##		2023-08-02		dave@example	Exciting news!	0.817105632	11.43947885
	##		2023-08-19		@erin_tweets	Team meeting	0.945942261	11.35130714
	##				-	Hello everyone!	0.752351641	11.28527462
	##		2023-00-13	Slack		Hello everyone!	0.747580624	11.21370936
	##				=	=		
					-	Need assistance	0.747163485	11.20745228
	##		2023-08-06	Slack	_	Need assistance	0.746888391	11.20332586
	##		2023-08-17	Email	@frank_chat	Team meeting	0.932789830	11.19347795
	##		2023-08-06	Slack	_	Need assistance	0.743181323	11.14771985
	##		2023-08-04		@frank_chat	-	0.795437461	11.13612446
		68	2023-08-08	Slack	_	Hello everyone!	0.740663246	11.10994869
	##		2023-08-03	Email	@erin_tweets	Fun weekend!	0.924321534	11.09185841
	##		2023-08-14		_	Need assistance	0.739025190	11.08537785
	##		2023-08-11	Slack	carol_slack	Team meeting	0.921573296	11.05887955
	##		2023-08-07	Email	carol_slack	Exciting news!	0.785684678	10.99958549
	##		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	<pre>@bob_tweets</pre>	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	$\verb"alice@example"$	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	<pre>Hello everyone!</pre>	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
	##		2023-08-04	Slack	_ @bob_tweets	Fun weekend!	0.866016825	10.39220190
	##	95	2023-08-04	Slack	-	Need assistance	0.691338675	10.37008012
	##		2023-08-17	Email	@erin_tweets	Team meeting	0.863822790	10.36587348
	##		2023-08-10	Slack	_ @erin tweets	Team meeting	0.862134462	10.34561354
	##		2023-08-04	Email	_	Need assistance	0.689327837	10.33991755
	##		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		@bob_tweets	Team meeting	0.853966497	10.24759796
		103	2023-08-20		alice@example	Fun weekend!	0.851679420	10.22015304
		104	2023-08-08	Slack	@erin tweets	Team meeting	0.849549761	10.19459713
		105	2023-00-00	Slack	_	Hello everyone!	0.679174718	10.18762078
		106	2023 00 13	Email	<pre>@bob_tweets</pre>	Great work!	0.924440826	10.16884909
		107			_	Need assistance	0.676776995	10.15165492
		108	2023-00-01		alice@example	Fun weekend!	0.844455994	10.13103492
		109	2023-08-07	Slack	=	Hello everyone!	0.675182751	10.13347192
	$\pi\pi$	107			_	=		
	##	110	2023-08-08	E-mail	alice@example	Exciting news!	0.723251828	10.12552560

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	##	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		Need assistance	0.664381829	9.96572744
		119	2023-08-11	Email	-	Hello everyone!	0.662486946	9.93730419
		120	2023-08-09	Slack	_	Need assistance	0.662048494	9.93072742
		121	2023-08-17	Email	@bob tweets	Fun weekend!	0.825692308	9.90830769
		122			alice@example	Team meeting	0.824948560	9.89938273
		123	2023-08-11		dave@example	Fun weekend!	0.824099663	9.88919596
		124	2023-08-02		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		@frank chat	Team meeting	0.818109252	9.81731103
		127	2023-08-14	Email	@erin tweets	Great work!	0.891589128	9.80748041
		128	2023-00-14	Slack	@frank chat	Fun weekend!	0.816346027	9.79615233
		129			alice@example	Exciting news!	0.696509592	
		130	2023-08-16	Email	_	Exciting news!		9.75113428
			2023-08-09		@frank_chat	-	0.696377364	9.74928310
		131			-	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		-	Hello everyone!	0.640248996	9.60373494
		135	2023-08-07	Slack	@bob_tweets	Great work!	0.872962321	9.60258553
		136	2023-08-20		alice@example	Exciting news!	0.685212519	9.59297527
		137	2023-08-16		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		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		@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	_	Need assistance	0.626154714	9.39232071
	##	145	2023-08-05		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	<pre>@bob_tweets</pre>	Exciting news!	0.664575256	9.30405358
	##	148	2023-08-17		dave@example	Fun weekend!	0.775130778	9.30156934
		149	2023-08-12		alice@example	Team meeting	0.774573303	9.29487963
		150	2023-08-05	Email	-	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	<pre>@frank_chat</pre>	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	$\verb"alice@example"$	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	<pre>Hello everyone!</pre>	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
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	##	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	_	Hello everyone!	0.575844854	8.63767281
	##	174	2023-08-08	Twitter		Exciting news!	0.614791796	8.60708514
		175	2023-08-11		carol slack	Great work!	0.782265475	8.60492022
		176	2023-08-06	Slack	_	Need assistance	0.572155187	8.58232781
		177	2023-08-05		carol slack	Fun weekend!	0.706561523	8.47873828
		178	2023-08-09		@bob_tweets	Exciting news!	0.605349668	8.47489536
		179	2023-08-12		carol slack	Team meeting	0.704733795	8.45680553
		180	2023-08-06	Email	carol slack	Great work!	0.766328182	8.42961000
		181	2023-00-00	Email	_	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		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	_	Need assistance	0.544408341	8.16612512
		188	2023-08-02		@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	-	Hello everyone!	0.535708998	8.03563497
		191	2023-08-04		=	Need assistance	0.534302738	8.01454106
		192	2023-08-12	Twitter	_	Hello everyone!	0.532433989	7.98650983
	##	193	2023-08-01		=	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	<pre>Hello everyone!</pre>	0.524320859	7.86481288
	##	200	2023-08-08	Email	carol_slack	Great work!	0.710615378	7.81676916
	##	201	2023-08-20	Slack	<pre>@bob_tweets</pre>	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	<pre>@bob_tweets</pre>	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	_	Need assistance	0.496275815	7.44413722
		214	2023-08-03	Slack	dave@example	Great work!	0.675534202	7.43087622
		215	2023-08-05		@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		alice@example	Exciting news!	0.529548995	7.41368593
		218	2023-08-06	Email	_	Need assistance	0.492307736	7.38461604
		219	2023-08-14	Slack	=	Hello everyone!	0.491653796	7.37480694
		220	2023-08-05	Email	@frank chat	Team meeting	0.611721705	7.34066046
		221	2023-08-03	Email	_	Hello everyone!	0.488557915	7.32836872
		222	2023-08-19	Slack	-	Hello everyone!	0.487545231	7.32330372
	ππ	<u> </u>	2023-00-13	DIACK	enon_cweecs	"CTTO EAST AOUS!	0.40/747771	1.0101/040

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	##	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	ebob tweets	Great work!	0.642848774	7.07133651
	##	232	2023-08-19	Slack	alice@example	Exciting news!	0.502961815	7.04146541
	##	233	2023-08-12		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		carol slack	Team meeting	0.578111817	6.93734181
		236	2023-08-07		alice@example	Team meeting	0.569526526	6.83431831
		237	2023-08-12		=	Need assistance	0.454688824	6.82033236
		238	2023-08-14		@bob tweets	Fun weekend!	0.567614020	6.81136824
		239	2023-08-18	Slack	<pre>@bob tweets</pre>	Fun weekend!	0.567603516	6.81124220
		240	2023-08-18	Email	_	Need assistance	0.453627230	6.80440845
		241	2023-08-02		_	Hello everyone!	0.450987421	6.76481131
		242	2023-08-14	Slack	_	Hello everyone!	0.450289166	6.75433748
		243	2023-00-14	Email	@frank chat	Team meeting	0.560076173	6.72091408
		244	2023-00-20		_	Need assistance	0.445466304	6.68199456
		245	2023-08-20	Slack	@frank_chat	Great work!	0.606102686	6.66712955
		246	2023-00-20	Email	carol slack	Great work!	0.605523043	6.66075348
			2023-08-01		-			6.64874808
		247248	2023-08-13	Slack Email	carol_slack	Exciting news! Exciting news!	0.474910577 0.468174768	6.55444675
					carol_slack	-		
		249 250	2023-08-07 2023-08-09	Slack	dave@example	Exciting news! Fun weekend!	0.466239469 0.542777083	6.52735257 6.51332500
					@erin_tweets			
		251	2023-08-13		-	Hello everyone! Fun weekend!	0.433930994	6.50896490
		252	2023-08-03		alice@example		0.542070733	6.50484880
		253	2023-08-16	Slack	dave@example	Exciting news!	0.461496073 0.535877908	6.46094502
		254	2023-08-15	Email	@frank_chat	Fun weekend!		6.43053489
		255	2023-08-07		alice@example	Great work!	0.580541194	6.38595314
		256	2023-08-09		@bob_tweets	Team meeting	0.526457346	6.31748815
		257	2023-08-19		-	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	-	Need assistance	0.414960733	6.22441100
		262	2023-08-13	Slack	@frank_chat	Exciting news!	0.443950114	6.21530160
		263	2023-08-08		@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		_	Need assistance	0.408644735	6.12967103
		266			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		_	Hello everyone!	0.401231622	6.01847433
		270	2023-08-09	Slack	@bob_tweets	Team meeting	0.500293179	6.00351815
		271	2023-08-14		@frank_chat	Team meeting	0.499737595	5.99685114
		272	2023-08-05		dave@example	Great work!	0.544805384	5.99285923
		273	2023-08-20		carol_slack	Great work!	0.544291852	5.98721037
		274	2023-08-15		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		@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

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	##	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		dave@example	Fun weekend!	0.474564350	5.69477220
		287	2023-08-02		dave@example	Great work!	0.516138048	5.67751853
		288	2023-08-13		@erin tweets	Great work!	0.515643027	5.67207329
		289	2023-08-15		dave@example	Fun weekend!	0.469535301	5.63442361
		290	2023-08-19		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		-	Need assistance	0.373691486	5.60537229
		293	2023-00-13		dave@example	Fun weekend!	0.463157478	5.55788974
		294	2023-00-04	Slack	=	Hello everyone!	0.368215033	5.52322549
				Slack	_			
		295	2023-08-15 2023-08-19		@erin_tweets	Team meeting	0.457860831	5.49432997
		296			@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		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		@frank_chat	Great work!	0.473425272	5.20767800
		303	2023-08-07	Slack	<pre>@bob_tweets</pre>	Exciting news!	0.370947586	5.19326621
	##	304	2023-08-09	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	<pre>@bob_tweets</pre>	Great work!	0.468266435	5.15093079
	##	311	2023-08-02	Slack	<pre>@bob_tweets</pre>	Exciting news!	0.365244868	5.11342815
	##	312	2023-08-10	Slack	$\verb"alice@example"$	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	<pre>@bob_tweets</pre>	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	efrank_chat	Great work!	0.431652104	4.74817314
		326	2023-08-06		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		@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	=	Need assistance	0.300882405	4.51323607
		334	2023-08-03		_	Hello everyone!	0.299843722	4.49765583
	##	JJ4	2023-00-1/	IMICCEL	eer TII_cweecs	merro everaone;	0.437043/22	4.47/00000

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##	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	-	Need assistance	0.291605130	4.37407695
	342			alice@example	Exciting news!	0.310656996	4.34919794
	343	2023-08-04		alice@example	Exciting news!	0.308247630	4.31546681
	344	2023-08-20		@frank_chat	Exciting news!	0.307898677	4.31058148
	345	2023-08-16	Email	@frank chat	Exciting news!	0.305391626	4.27548276
	346	2023-08-10	Email	carol_slack	Fun weekend!	0.355941510	4.27129812
	347	2023-08-18	Slack	@erin tweets	Team meeting	0.353438236	4.24125884
	348	2023-00-10	Email	-	Hello everyone!	0.282330315	4.23495473
	349	2023-00-13		alice@example	Great work!	0.383860287	4.22246316
	350	2023-08-12	Slack	=	Need assistance	0.279333149	4.18999723
		2023-08-10		_			4.17855568
	351			-	Hello everyone!	0.278570379	
	352	2023-08-05		alice@example	Fun weekend!	0.347548683	4.17058419
	353	2023-08-10		@bob_tweets	Fun weekend!	0.346377916	4.15653499
	354	2023-08-15		dave@example	Fun weekend!	0.345517721	4.14621265
	355	2023-08-18		_	Need assistance	0.275121063	4.12681595
	356	2023-08-18	Email	carol_slack	Team meeting	0.343653605	4.12384326
	357	2023-08-20		@erin_tweets	Team meeting	0.341763970	4.10116764
	358	2023-08-18		@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		alice@example	Great work!	0.360768258	3.96845084
	361	2023-08-13	Email	_	Hello everyone!	0.264306294	3.96459441
	362	2023-08-07	Email	dave@example	Team meeting	0.327507946	3.93009535
##	363	2023-08-10		@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	<pre>@bob_tweets</pre>	Need assistance	0.251102221	3.76653332
##	367	2023-08-14	Twitter	<pre>@bob_tweets</pre>	Hello everyone!	0.250149151	3.75223726
##	368	2023-08-03	Email	$\verb"alice@example"$	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	<pre>@bob_tweets</pre>	Exciting news!	0.260118117	3.64165363
##	373	2023-08-11	Slack	@frank_chat	Need assistance	0.235724795	3.53587192
##	374	2023-08-07	Email	<pre>@bob_tweets</pre>	Exciting news!	0.244900235	3.42860330
##	375	2023-08-16	Email	carol_slack	Great work!	0.306993762	3.37693138
##	376	2023-08-20	Twitter	$\verb"alice@example"$	Fun weekend!	0.280627117	3.36752540
##	377	2023-08-08	Twitter	$\verb"alice@example"$	Hello everyone!	0.223401716	3.35102573
##	378	2023-08-19	Email	$\verb"alice@example"$	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	<pre>@frank_chat</pre>	Fun weekend!	0.269629325	3.23555190
##	382	2023-08-09	Slack	@erin_tweets	Team meeting	0.268132484	3.21758980
##	383	2023-08-12	Twitter	<pre>@bob_tweets</pre>	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		_ @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		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		carol_slack	Great work!	0.268422757	2.95265032
"			:				

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##	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	-	Hello everyone!	0.184942272	2.77413409
	402	2023-08-09	Slack	dave@example	Fun weekend!	0.229193896	2.75032675
	403	2023-08-12		@bob tweets	Fun weekend!	0.226440192	2.71728230
##		2023-08-12		alice@example	Fun weekend!	0.226010282	2.71212338
	405	2023-08-05		dave@example	Great work!	0.245927144	2.70519859
	406	2023-08-19	Email	=	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		0.186763622	2.61469071
	409	2023-08-02		_	Hello everyone!	0.173851238	2.60776856
	410	2023-08-18	Email	_	Need assistance	0.171319252	2.56978878
	411	2023-08-08	Email	carol_slack	Team meeting	0.213498762	2.56198514
	412			alice@example	Team meeting	0.210089974	2.52107969
	413	2023-08-04	Slack	-	Need assistance	0.165087673	2.47631510
	414	2023-08-08		alice@example	Great work!	0.222402995	2.44643294
	415	2023-00-00	Email	@erin tweets	Fun weekend!	0.203746784	2.44496141
	416	2023-08-04		_	Hello everyone!	0.161035733	2.41553600
	417	2023-00-04	Email	@bob tweets	Fun weekend!	0.201027735	2.41233282
	418			_	Need assistance	0.157653404	2.36480107
	419	2023-00-02		@frank chat	Great work!	0.214199054	2.35618959
	420	2023-08-10	Slack	@bob tweets	Team meeting	0.192284770	2.33018939
	421	2023-08-17	Email	@frank chat	Team meeting	0.192284770	2.30/41/24
	422	2023-08-07		@erin_tweets	_	0.192018484	2.29823979
	423	2023-08-07	Slack	_	Fun weekend! Team meeting	0.191319982	2.29823979
	423	2023-08-07	Slack	carol_slack @bob tweets	Great work!		
	424	2023-08-20		_	Need assistance	0.203791809 0.148395223	2.24170990
				-	Fun weekend!		2.22592835
	426 427	2023-08-04		<pre>@bob_tweets alice@example</pre>	Exciting news!	0.185009266 0.157755047	2.22011119 2.20857066
	427	2023-08-14		@erin tweets	Great work!		
	429			_	Need assistance	0.199771451	2.19748596
	430	2023-08-19		dave@example	Great work!	0.143810244 0.195303030	2.15715366 2.14833333
	431			alice@example	Exciting news!	0.153143482	2.14400875
	431	2023-08-13	Slack	-	Hello everyone!	0.142070077	2.14400875
	433	2023-08-15		alice@example	Team meeting	0.176413531	2.13103110
	434	2023-08-13	Slack	-	Need assistance	0.141076977	2.11696237
	435	2023-08-08	Slack	@erin_tweets	Fun weekend!	0.172925062	2.07510074
	436	2023-08-08		carol_slack	Fun weekend!	0.172323002	2.07310074
	437	2023-08-01	Slack	@bob tweets	Exciting news!	0.146396939	2.04955714
	437	2023-08-01		_	Need assistance	0.135939530	2.04955714
	439	2023-08-03	Slack	carol slack	Fun weekend!	0.169502832	2.03403399
	440	2023-08-17		_	Great work!	0.189502832	
	441			<pre>@erin_tweets dave@example</pre>			1.99320841
		2023-08-06			Team meeting	0.165403601	1.98484321
	442	2023-08-04		@bob_tweets	Fun weekend!	0.163814227	1.96577073
	443	2023-08-05		_	Hello everyone!	0.130742100	1.96113150
	444	2023-08-07	Slack	@bob_tweets	Great work!	0.170066014	1.87072615
	445	2023-08-20		@erin_tweets	Exciting news!	0.131818828	1.84546359
##	446	2023-08-18	Email	caro1_slack	Need assistance	0.121493359	1.82240039

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	##	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	_	Hello everyone!	0.116596443	1.74894664
	##	454	2023-08-03	Twitter	-	Need assistance	0.115823371	1.73735056
		455	2023-08-08	Email	_	Need assistance	0.115187556	1.72781333
		456	2023-08-16		@erin_tweets	Great work!	0.150156671	1.65172338
		457	2023-08-02	Email	@frank chat		0.129630754	1.55556905
		458	2023-08-11		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	-	Need assistance	0.091942075	1.37913112
		461	2023-08-05		=	Need assistance	0.089429019	1.34143528
		462	2023-08-04	Slack	_	Need assistance	0.088740259	1.33110389
		463	2023-00-04	Email	-	Great work!	0.120376800	1.32414480
			2023-08-13	Slack	@frank_chat		0.086844633	
		464		Email	_	Need assistance		1.30266949
		465	2023-08-08			Need assistance	0.084778340	1.27167510
		466	2023-08-18		_	Need assistance	0.083397951	1.25096926
		467			_	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	-	Hello everyone!	0.079340591	1.19010886
		471	2023-08-06	Email	_	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			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	<pre>@bob_tweets</pre>	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	<pre>@erin_tweets</pre>	Team meeting	0.068864945	0.82637934
	##	486	2023-08-10	Email	<pre>@frank_chat</pre>	Hello everyone!	0.051583528	0.77375292
	##	487	2023-08-08	Slack	carol_slack	Exciting news!	0.055117640	0.77164696
	##	488	2023-08-04	Twitter	<pre>@bob_tweets</pre>	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	$\verb"alice@example"$	Great work!	0.062977130	0.69274843
	##	492	2023-08-14	Email	alice@example	Need assistance	0.043240849	0.64861274
	##	493	2023-08-13	Email	$\verb"alice@example"$	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
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	##	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		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		dave@example	Fun weekend!	0.005671109	0.06805330
		514	2023-08-01		-	Need assistance		-0.04641508
		515	2023-08-18		@frank chat		-0.004460444	-0.05352532
		516	2023-08-08		alice@example	Exciting news!		-0.09856489
		517	2023-00-00	Email	@frank chat	Exciting news!		-0.15074534
		518	2023-08-18	-	dave@example	-	-0.012694929	-0.15233915
		519			-	_	-0.013945965	
					alice@example			-0.15340562
		520	2023-08-07		dave@example	_	-0.014527882	-0.17433458
		521	2023-08-14		@bob_tweets		-0.018533767	-0.20387144
		522	2023-08-16	Email	-	Need assistance		-0.21782391
		523	2023-08-03	Email	@frank_chat		-0.022698464	-0.24968310
		524	2023-08-09	Email	@erin_tweets	Exciting news!		-0.25471181
		525	2023-08-05		dave@example		-0.021554315	-0.25865178
		526			alice@example		-0.026141260	-0.28755386
		527	2023-08-03		dave@example	_	-0.024207670	-0.29049204
		528	2023-08-08	Twitter	@bob_tweets	_	-0.024243061	-0.29091674
		529	2023-08-01	Slack	<pre>@bob_tweets</pre>	Exciting news!		-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	<pre>Hello everyone!</pre>		-0.44416040
	##	533	2023-08-11	Slack	<pre>@bob_tweets</pre>	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	<pre>@bob_tweets</pre>	<pre>Hello everyone!</pre>	-0.038818533	-0.58227800
	##	540	2023-08-04	Slack	carol_slack	Fun weekend!	-0.049394990	-0.59273988
	##	541	2023-08-19	Email	alice@example	<pre>Hello everyone!</pre>	-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!		-0.76875139
		550	2023-08-14	Twitter	dave@example	Fun weekend!		-0.77331710
		551	2023-08-18	Slack	@frank_chat		-0.071027102	-0.78129812
		552	2023-08-15		carol slack		-0.074092148	-0.88910578
		553	2023-08-20	Email	dave@example	_	-0.075425136	-0.90510163
		554	2023-08-06		_	Need assistance		-0.96267635
		555	2023-08-08	Email	-	Hello everyone!		-0.96695728
		556	2023-08-17		-	Need assistance		-0.98955503
		557	2023-08-04	Email	_	Need assistance		-1.05141382
		558	2023-08-18		alice@example	Fun weekend!		-1.06664898
	" "	550	1020 00-10	DIGCK		I dii woondid:	0.00001413	1.00004070

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## 559
                                              Team meeting -0.092784007
        2023-08-13
                      Email
                              @bob_tweets
                                                                          -1.11340808
## 560
        2023-08-10
                      Slack
                              @bob_tweets Hello everyone! -0.075317414
                                                                          -1.12976121
## 561
                                              Team meeting -0.094959955
        2023-08-05
                      Email
                              @frank_chat
                                                                          -1.13951946
## 562
        2023-08-08 Twitter
                              @frank_chat Hello everyone! -0.081353148
                                                                          -1.22029721
## 563
        2023-08-12
                              @frank_chat
                                              Fun weekend! -0.102208237
                                                                          -1.22649885
                      Email
## 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
                             dave@example
        2023-08-20 Twitter
                                               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
                              @frank chat
                                              Team meeting -0.134102609
                                                                          -1.60923131
        2023-08-18
                      Slack
  580
                             @erin tweets
                                              Team meeting -0.134665603
##
        2023-08-20
                      Slack
                                                                          -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
                              carol_slack
                                              Fun weekend! -0.141636565
                                                                          -1.69963878
                      Email
## 585
                              @bob_tweets
        2023-08-04 Twitter
                                            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
                              @frank_chat Need assistance -0.115179492
                                                                          -1.72769238
        2023-08-02 Twitter
## 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
                                              Fun weekend! -0.149422837
                                                                          -1.79307404
                              @bob tweets
  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
                                              Fun weekend! -0.159573650
                                                                          -1.91488379
                      Email
                              @bob tweets
##
  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
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##
  599
        2023-08-16
                   Twitter
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                                            Exciting news! -0.141741692
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  600
        2023-08-17
                      Email
                             dave@example
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## 601
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        2023-08-01
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## 603
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## 604
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        2023-08-07
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## 606
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## 612
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## 613
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                              @bob tweets Hello everyone! -0.164491392
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## 614
                      Email alice@example Hello everyone! -0.166448134
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```

```
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                                               Great work! -0.232635738
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                      Email
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## 618
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        2023-08-10
                      Email
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```

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## 671
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## 680
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## 681
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##
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##
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## 691
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##
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## 693
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## 694
        2023-08-09
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##
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                      Email
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##
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        2023-08-13
                      Slack
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##
  707
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##
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                   Twitter
##
  717
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                             dave@example
##
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## 726
                             @erin tweets Hello everyone! -0.360894154
        2023-08-12
                      Slack
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```

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## 727
                                            Exciting news! -0.388513986
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        2023-08-09 Twitter
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## 730
        2023-08-13 Twitter
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        2023-08-13
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        2023-08-10
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        2023-08-01 Twitter
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## 765
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```

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##
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```

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                                           Exciting news! -0.762122771 -10.66971880
## 918
        2023-08-14 Twitter
                              @bob_tweets
                                               Great work! -0.970631612 -10.67694773
                             dave@example Need assistance -0.713639749 -10.70459624
## 919
        2023-08-12 Twitter
                      Slack
                                              Team meeting -0.893834382 -10.72601259
## 920
        2023-08-11
                             @erin_tweets
## 921
        2023-08-06
                      Slack
                              @bob_tweets
                                              Fun weekend! -0.895003283 -10.74003940
## 922
                              @bob_tweets Need assistance -0.716619523 -10.74929284
        2023-08-08 Twitter
## 923
        2023-08-18
                     Email
                                           Exciting news! -0.768564025 -10.75989636
                             dave@example
## 924
        2023-08-07
                      Slack
                             dave@example Need assistance -0.718395420 -10.77593130
## 925
        2023-08-18
                      Slack
                                              Fun weekend! -0.898072343 -10.77686812
                              @bob_tweets
## 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
                              @frank chat
                                              Team meeting -0.933677876 -11.20413451
                      Slack
##
   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
                              @frank chat
                                              Team meeting -0.943049938 -11.31659926
                      Email
## 942
        2023-08-15 Twitter
                              carol_slack Hello everyone! -0.761104998 -11.41657497
## 943
                                              Fun weekend! -0.953222217 -11.43866660
        2023-08-04
                     Email
                              @bob_tweets
## 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
        2023-08-10
## 946
                      Slack
                             @erin_tweets Need assistance -0.766245456 -11.49368184
        2023-08-13 Twitter alice@example
## 947
                                              Fun weekend! -0.958858334 -11.50630001
## 948
        2023-08-01 Twitter
                              @frank chat
                                           Exciting news! -0.822780307 -11.51892430
                      Slack
## 949
        2023-08-07
                             dave@example
                                            Exciting news! -0.823877914 -11.53429080
                             dave@example Need assistance -0.770186925 -11.55280388
## 950
        2023-08-18
                     Email
```

```
## 951
        2023-08-04 Twitter
                              @bob_tweets Hello everyone! -0.774547359 -11.61821038
## 952
                            @erin_tweets Need assistance -0.775436828 -11.63155242
        2023-08-08
                     Email
                                             Team meeting -0.970338997 -11.64406797
## 953
        2023-08-10
                             carol slack
                     Email
## 954
                              @frank_chat
        2023-08-10 Twitter
                                             Team meeting -0.976236885 -11.71484262
## 955
        2023-08-08
                            @erin_tweets
                                           Exciting news! -0.847681918 -11.86754685
                     Email
## 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
                                           Exciting news! -0.858994203 -12.02591884
        2023-08-16
                     Email alice@example
## 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
                              @bob_tweets Need assistance -0.846264025 -12.69396038
        2023-08-07
                     Slack
## 974
        2023-08-16
                             carol_slack Hello everyone! -0.851052538 -12.76578807
                     Email
## 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
                             carol_slack Exciting news! -0.930242309 -13.02339232
                     Email
## 978
        2023-08-16
                     Slack
                              @frank_chat Hello everyone! -0.878399170 -13.17598754
## 979
        2023-08-08
                             @erin_tweets Need assistance -0.879413284 -13.19119926
                     Slack
## 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
                                          Exciting news! -0.978982675 -13.70575745
                     Email
                              carol slack
## 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
                              @bob_tweets Hello everyone! -0.940684421 -14.11026632
                     Slack
                            dave@example Hello everyone! -0.945477226 -14.18215839
## 995
        2023-08-13
                     Slack
## 996
                              @frank_chat Need assistance -0.970480603 -14.55720904
        2023-08-01 Twitter
## 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
                              @frank_chat Need assistance -0.992002849 -14.88004273
                     Email
## 1000 2023-08-08
                            dave@example Need assistance -0.998774239 -14.98161358
                     Email
```

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 %>%
  mutate(number_of_characters = nchar(message)) %>%
  group_by(date) %>%
  summarise(total_characters = sum(number_of_characters)) %>%
  arrange(desc(total_characters)) %>%
  slice(1)
```

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

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. There are mulitple variables stored within one column (i.e., the demographic and the employment status are both stored under the "subject" column). 2. The type of value stored in the column is not consistent (i.e., numbers are being stored under "percent" column).

How it can be improved - There can be new columns for employment status, gender and age.