

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)
```

```
## — Attaching packages — tidyverse 1.3.2 —
## ✓ ggplot2 3.3.6      ✓ purrr 0.3.4
## ✓ tibble 3.1.8       ✓ dplyr 1.0.9
## ✓ tidyr 1.2.0        ✓ stringr 1.4.0
## ✓ readr 2.1.2        ✓ forcats 0.5.1
## — Conflicts — tidyverse_conflicts() —
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()      masks stats::lag()
```

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	Hello everyone!
## 8	2023-08-04	Slack	Hello everyone!
## 9	2023-08-20	Email	Team meeting
## 10	2023-08-09	Slack	Hello everyone!
## 11	2023-08-06	Email	Team meeting
## 12	2023-08-16	Twitter	Great work!
## 13	2023-08-01	Twitter	Need assistance
## 14	2023-08-16	Slack	Exciting news!
## 15	2023-08-16	Twitter	Exciting news!
## 16	2023-08-07	Email	Great work!
## 17	2023-08-01	Twitter	Need assistance
## 18	2023-08-20	Email	Team meeting
## 19	2023-08-08	Slack	Need assistance
## 20	2023-08-06	Slack	Hello everyone!
## 21	2023-08-11	Twitter	Great work!
## 22	2023-08-12	Twitter	Team meeting
## 23	2023-08-12	Slack	Fun weekend!
## 24	2023-08-11	Email	Fun weekend!
## 25	2023-08-04	Email	Fun weekend!
## 26	2023-08-13	Email	Hello everyone!
## 27	2023-08-16	Twitter	Exciting news!
## 28	2023-08-09	Twitter	Need assistance
## 29	2023-08-14	Twitter	Great work!
## 30	2023-08-17	Twitter	Team meeting
## 31	2023-08-17	Twitter	Need assistance
## 32	2023-08-15	Email	Great work!
## 33	2023-08-01	Twitter	Need assistance
## 34	2023-08-16	Twitter	Great work!
## 35	2023-08-10	Twitter	Great work!
## 36	2023-08-07	Email	Team meeting
## 37	2023-08-02	Email	Great work!
## 38	2023-08-13	Email	Team meeting
## 39	2023-08-11	Slack	Team meeting
## 40	2023-08-05	Email	Exciting news!
## 41	2023-08-19	Twitter	Need assistance
## 42	2023-08-10	Slack	Need assistance
## 43	2023-08-11	Email	Need assistance
## 44	2023-08-06	Twitter	Exciting news!
## 45	2023-08-06	Email	Great work!
## 46	2023-08-18	Email	Fun weekend!
## 47	2023-08-07	Email	Fun weekend!
## 48	2023-08-20	Email	Great work!
## 49	2023-08-16	Slack	Exciting news!
## 50	2023-08-02	Twitter	Team meeting
## 51	2023-08-12	Email	Need assistance
## 52	2023-08-10	Twitter	Need assistance
## 53	2023-08-13	Slack	Hello everyone!
## 54	2023-08-13	Slack	Great work!

```
## 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 Hello everyone!
## 60 2023-08-15 Slack Hello everyone!
## 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 Hello everyone!
## 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 Hello everyone!
## 94 2023-08-19 Email Exciting news!
## 95 2023-08-07 Slack Need assistance
## 96 2023-08-17 Email Team meeting
## 97 2023-08-09 Twitter Fun weekend!
## 98 2023-08-19 Email Team meeting
## 99 2023-08-16 Twitter Exciting news!
## 100 2023-08-01 Twitter Exciting news!
## 101 2023-08-10 Email Hello everyone!
## 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 Hello everyone!
## 107 2023-08-20 Email Exciting news!
## 108 2023-08-13 Twitter Great work!
## 109 2023-08-06 Slack Hello everyone!
## 110 2023-08-20 Slack Great work!
```

```
## 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
## 118 2023-08-07 Slack Exciting news!
## 119 2023-08-04 Email Exciting news!
## 120 2023-08-13 Twitter Fun weekend!
## 121 2023-08-08 Email Team meeting
## 122 2023-08-18 Slack Fun weekend!
## 123 2023-08-12 Twitter Need assistance
## 124 2023-08-18 Email Need assistance
## 125 2023-08-11 Slack Exciting news!
## 126 2023-08-18 Twitter Need assistance
## 127 2023-08-11 Slack Hello everyone!
## 128 2023-08-15 Email Fun weekend!
## 129 2023-08-09 Twitter Great work!
## 130 2023-08-11 Twitter Need assistance
## 131 2023-08-15 Email Exciting news!
## 132 2023-08-15 Twitter Fun weekend!
## 133 2023-08-02 Twitter Exciting news!
## 134 2023-08-16 Email Team meeting
## 135 2023-08-07 Email Exciting news!
## 136 2023-08-19 Email Exciting news!
## 137 2023-08-17 Twitter Hello everyone!
## 138 2023-08-20 Twitter Exciting news!
## 139 2023-08-20 Twitter Great work!
## 140 2023-08-10 Slack Hello everyone!
## 141 2023-08-04 Email Need assistance
## 142 2023-08-15 Twitter Team meeting
## 143 2023-08-10 Email Need assistance
## 144 2023-08-03 Twitter Hello everyone!
## 145 2023-08-19 Slack Great work!
## 146 2023-08-12 Twitter Hello everyone!
## 147 2023-08-01 Slack Team meeting
## 148 2023-08-11 Email Great work!
## 149 2023-08-17 Twitter Fun weekend!
## 150 2023-08-01 Slack Exciting news!
## 151 2023-08-07 Twitter Fun weekend!
## 152 2023-08-20 Slack Great work!
## 153 2023-08-12 Slack Great work!
## 154 2023-08-17 Email Great work!
## 155 2023-08-10 Twitter Fun weekend!
## 156 2023-08-14 Twitter Hello everyone!
## 157 2023-08-11 Slack Hello everyone!
## 158 2023-08-11 Slack Fun weekend!
## 159 2023-08-03 Twitter Exciting news!
## 160 2023-08-18 Email Fun weekend!
## 161 2023-08-12 Twitter Exciting news!
## 162 2023-08-17 Email Fun weekend!
## 163 2023-08-16 Slack Need assistance
## 164 2023-08-01 Slack Great work!
## 165 2023-08-01 Twitter Team meeting
## 166 2023-08-04 Twitter Need assistance
```

##	167	2023-08-07	Email	Great work!
##	168	2023-08-06	Twitter	Fun weekend!
##	169	2023-08-15	Slack	Fun weekend!
##	170	2023-08-13	Twitter	Hello everyone!
##	171	2023-08-05	Twitter	Great work!
##	172	2023-08-10	Slack	Hello everyone!
##	173	2023-08-16	Twitter	Fun weekend!
##	174	2023-08-06	Email	Fun weekend!
##	175	2023-08-13	Slack	Exciting news!
##	176	2023-08-01	Twitter	Exciting news!
##	177	2023-08-07	Slack	Exciting news!
##	178	2023-08-13	Slack	Need assistance
##	179	2023-08-18	Twitter	Exciting news!
##	180	2023-08-14	Twitter	Great work!
##	181	2023-08-06	Twitter	Exciting news!
##	182	2023-08-13	Twitter	Hello everyone!
##	183	2023-08-07	Email	Hello everyone!
##	184	2023-08-14	Twitter	Great work!
##	185	2023-08-09	Email	Exciting news!
##	186	2023-08-15	Slack	Fun weekend!
##	187	2023-08-09	Slack	Team meeting
##	188	2023-08-03	Twitter	Hello everyone!
##	189	2023-08-16	Slack	Team meeting
##	190	2023-08-06	Email	Fun weekend!
##	191	2023-08-07	Email	Exciting news!
##	192	2023-08-12	Email	Exciting news!
##	193	2023-08-13	Slack	Exciting news!
##	194	2023-08-01	Slack	Need assistance
##	195	2023-08-07	Slack	Need assistance
##	196	2023-08-10	Slack	Need assistance
##	197	2023-08-18	Twitter	Need assistance
##	198	2023-08-07	Email	Team meeting
##	199	2023-08-12	Slack	Fun weekend!
##	200	2023-08-14	Slack	Hello everyone!
##	201	2023-08-06	Slack	Need assistance
##	202	2023-08-14	Twitter	Team meeting
##	203	2023-08-07	Twitter	Team meeting
##	204	2023-08-02	Slack	Exciting news!
##	205	2023-08-09	Twitter	Fun weekend!
##	206	2023-08-07	Slack	Hello everyone!
##	207	2023-08-16	Email	Great work!
##	208	2023-08-10	Email	Need assistance
##	209	2023-08-09	Slack	Fun weekend!
##	210	2023-08-03	Email	Hello everyone!
##	211	2023-08-03	Twitter	Team meeting
##	212	2023-08-05	Twitter	Need assistance
##	213	2023-08-19	Slack	Hello everyone!
##	214	2023-08-03	Email	Team meeting
##	215	2023-08-04	Slack	Need assistance
##	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	Slack	Exciting news!
##	220	2023-08-14	Email	Need assistance
##	221	2023-08-20	Twitter	Great work!
##	222	2023-08-20	Slack	Exciting news!

```
## 223 2023-08-16 Twitter    Great work!
## 224 2023-08-16  Email    Great work!
## 225 2023-08-11  Slack    Exciting news!
## 226 2023-08-12  Email    Need assistance
## 227 2023-08-18  Email    Hello everyone!
## 228 2023-08-03 Twitter    Need assistance
## 229 2023-08-20  Email    Need assistance
## 230 2023-08-19  Slack    Hello everyone!
## 231 2023-08-19 Twitter    Great work!
## 232 2023-08-05  Slack    Team meeting
## 233 2023-08-08 Twitter    Hello everyone!
## 234 2023-08-16 Twitter    Need assistance
## 235 2023-08-07  Slack    Hello everyone!
## 236 2023-08-03 Twitter    Great work!
## 237 2023-08-11  Email    Team meeting
## 238 2023-08-01  Slack    Hello everyone!
## 239 2023-08-08  Email    Fun weekend!
## 240 2023-08-16  Email    Exciting news!
## 241 2023-08-06  Slack    Fun weekend!
## 242 2023-08-14  Slack    Great work!
## 243 2023-08-05  Email    Exciting news!
## 244 2023-08-13  Email    Exciting news!
## 245 2023-08-18  Email    Need assistance
## 246 2023-08-20 Twitter    Great work!
## 247 2023-08-11 Twitter    Team meeting
## 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  Email    Need assistance
## 252 2023-08-19  Email    Exciting news!
## 253 2023-08-15  Slack    Exciting news!
## 254 2023-08-18  Email    Exciting news!
## 255 2023-08-14  Slack    Need assistance
## 256 2023-08-10  Slack    Great work!
## 257 2023-08-10  Slack    Team meeting
## 258 2023-08-11 Twitter    Exciting news!
## 259 2023-08-15  Email    Need assistance
## 260 2023-08-20 Twitter    Team meeting
## 261 2023-08-12 Twitter    Hello everyone!
## 262 2023-08-20  Slack    Exciting news!
## 263 2023-08-18 Twitter    Exciting news!
## 264 2023-08-14 Twitter    Great work!
## 265 2023-08-02 Twitter    Exciting news!
## 266 2023-08-19  Email    Team meeting
## 267 2023-08-02 Twitter    Exciting news!
## 268 2023-08-05 Twitter    Fun weekend!
## 269 2023-08-12  Slack    Need assistance
## 270 2023-08-08  Slack    Exciting news!
## 271 2023-08-19  Slack    Great work!
## 272 2023-08-01  Email    Fun weekend!
## 273 2023-08-04  Slack    Fun weekend!
## 274 2023-08-03 Twitter    Great work!
## 275 2023-08-16  Slack    Team meeting
## 276 2023-08-06 Twitter    Team meeting
## 277 2023-08-06  Email    Need assistance
## 278 2023-08-06 Twitter    Team meeting
```

```
## 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 Need assistance
## 294 2023-08-18 Twitter Exciting news!
## 295 2023-08-20 Email Team meeting
## 296 2023-08-12 Twitter Great work!
## 297 2023-08-14 Twitter Fun weekend!
## 298 2023-08-20 Slack Team meeting
## 299 2023-08-20 Email Team meeting
## 300 2023-08-02 Twitter Exciting news!
## 301 2023-08-09 Slack Need assistance
## 302 2023-08-17 Twitter Fun weekend!
## 303 2023-08-08 Slack Great work!
## 304 2023-08-05 Slack Exciting news!
## 305 2023-08-19 Email Team meeting
## 306 2023-08-19 Slack Team meeting
## 307 2023-08-03 Slack Great work!
## 308 2023-08-15 Slack Team meeting
## 309 2023-08-10 Twitter Team meeting
## 310 2023-08-06 Email Great work!
## 311 2023-08-08 Email Exciting news!
## 312 2023-08-07 Slack Exciting news!
## 313 2023-08-03 Twitter Hello everyone!
## 314 2023-08-01 Email Team meeting
## 315 2023-08-18 Email Exciting news!
## 316 2023-08-03 Email Need assistance
## 317 2023-08-04 Slack Fun weekend!
## 318 2023-08-15 Email Need assistance
## 319 2023-08-06 Slack Fun weekend!
## 320 2023-08-11 Slack Hello everyone!
## 321 2023-08-05 Twitter Team meeting
## 322 2023-08-20 Slack Great work!
## 323 2023-08-20 Email Exciting news!
## 324 2023-08-09 Slack Fun weekend!
## 325 2023-08-13 Email Exciting news!
## 326 2023-08-20 Slack Fun weekend!
## 327 2023-08-15 Email Hello everyone!
## 328 2023-08-16 Slack Exciting news!
## 329 2023-08-02 Twitter Team meeting
## 330 2023-08-16 Twitter Exciting news!
## 331 2023-08-19 Email Hello everyone!
## 332 2023-08-14 Slack Exciting news!
## 333 2023-08-07 Slack Great work!
## 334 2023-08-01 Twitter Exciting news!
```

```
## 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 Email 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 Email Hello everyone!
## 360 2023-08-07 Slack Team meeting
## 361 2023-08-07 Twitter Need assistance
## 362 2023-08-01 Slack Team meeting
## 363 2023-08-17 Slack Great work!
## 364 2023-08-04 Slack Need assistance
## 365 2023-08-08 Slack Hello everyone!
## 366 2023-08-17 Twitter Fun weekend!
## 367 2023-08-11 Twitter Fun weekend!
## 368 2023-08-19 Slack Hello everyone!
## 369 2023-08-18 Twitter Need assistance
## 370 2023-08-17 Email Great work!
## 371 2023-08-10 Email Exciting news!
## 372 2023-08-12 Email Team meeting
## 373 2023-08-02 Email Exciting news!
## 374 2023-08-18 Email Fun weekend!
## 375 2023-08-14 Slack Need assistance
## 376 2023-08-08 Twitter Fun weekend!
## 377 2023-08-18 Twitter Exciting news!
## 378 2023-08-17 Twitter Need assistance
## 379 2023-08-12 Email Exciting news!
## 380 2023-08-04 Email Exciting news!
## 381 2023-08-04 Twitter Exciting news!
## 382 2023-08-17 Twitter Hello everyone!
## 383 2023-08-10 Twitter Exciting news!
## 384 2023-08-10 Twitter Team meeting
## 385 2023-08-16 Email Exciting news!
## 386 2023-08-12 Slack Fun weekend!
## 387 2023-08-11 Twitter Fun weekend!
## 388 2023-08-12 Email Fun weekend!
## 389 2023-08-15 Twitter Great work!
## 390 2023-08-18 Slack Team meeting
```



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

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

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

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

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

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

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

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



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

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

```

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

```

Question-2: Channel Selection

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

Solution:

```
# Enter code here
comm_data %>%
  filter(channel == "Twitter", date == "2023-08-02")
```

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

```

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

```

Question-4: Distinct Discovery

Apply the distinct command to find the unique senders in the “comm_data” dataframe.

Solution:

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

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

Question-5: Sender Stats

Employ the count and group_by commands to generate a summary table that shows the count of messages sent by each sender in the “comm_data” dataframe.

Solution:

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

Solution:

```
# 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)
```

```
## # A tibble: 3 × 2
##   sender      avg_sentiment
##   <chr>          <dbl>
## 1 dave@example    0.541
## 2 @frank_chat     0.528
## 3 alice@example   0.493
```

Question-8: Message Mood Over Time

With the group_by, summarise, and arrange commands, calculate the average sentiment score for each day in the “comm_data” dataframe.

Solution:

```
# Enter code here
comm_data %>%
  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.

Solution:

```
# 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
## 13	Great work!	-0.179680133
## 14	Team meeting	-0.092784007
## 15	Team meeting	-0.955364774
## 16	Need assistance	-0.766245456
## 17	Need assistance	-0.547700667
## 18	Exciting news!	-0.415566467
## 19	Great work!	-0.579760317
## 20	Exciting news!	-0.290788232
## 21	Need assistance	-0.340010146
## 22	Great work!	-0.443448592
## 23	Team meeting	-0.774452816
## 24	Hello everyone!	-0.882707532
## 25	Hello everyone!	-0.689319659
## 26	Hello everyone!	-0.219064676
## 27	Team meeting	-0.004460444
## 28	Team meeting	-0.935610580
## 29	Hello everyone!	-0.452905738
## 30	Need assistance	-0.834047724
## 31	Need assistance	-0.195926677
## 32	Fun weekend!	-0.285561244
## 33	Team meeting	-0.060755176
## 34	Fun weekend!	-0.569811309
## 35	Exciting news!	-0.018193701
## 36	Exciting news!	-0.301641050
## 37	Great work!	-0.244326655
## 38	Hello everyone!	-0.761104998
## 39	Exciting news!	-0.408464086
## 40	Fun weekend!	-0.584208118
## 41	Team meeting	-0.178657859
## 42	Great work!	-0.329095908
## 43	Fun weekend!	-0.707901944
## 44	Hello everyone!	-0.166448134
## 45	Exciting news!	-0.533024813
## 46	Need assistance	-0.356371285
## 47	Team meeting	-0.467768930
## 48	Fun weekend!	-0.056202481
## 49	Team meeting	-0.757670477
## 50	Exciting news!	-0.265161676
## 51	Exciting news!	-0.822780307
## 52	Need assistance	-0.680233249
## 53	Hello everyone!	-0.647561021
## 54	Great work!	-0.705626460

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

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

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

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

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

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



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

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

Question-10: Enhancing Engagement

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

Solution:

Enter code here

```
comm_data %>%  
  mutate(sentiment_label = ifelse(sentiment > 0, "Positive",  
                                   ifelse(sentiment < 0, "Negative", "Neutral")))
```

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

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

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

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

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

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

##	335	2023-08-11	Twitter	@bob_tweets	Exciting news!	0.260118117
##	336	2023-08-18	Slack	@bob_tweets	Need assistance	-0.754348847
##	337	2023-08-14	Email	dave@example	Need assistance	-0.829999507
##	338	2023-08-14	Email	alice@example	Need assistance	0.043240849
##	339	2023-08-01	Slack	carol_slack	Fun weekend!	-0.8777705400
##	340	2023-08-12	Twitter	@bob_tweets	Team meeting	0.265132846
##	341	2023-08-04	Slack	alice@example	Team meeting	-0.111247493
##	342	2023-08-05	Email	carol_slack	Fun weekend!	0.451752027
##	343	2023-08-04	Email	@frank_chat	Great work!	-0.317266905
##	344	2023-08-08	Twitter	alice@example	Hello everyone!	0.223401716
##	345	2023-08-07	Twitter	dave@example	Exciting news!	0.466239469
##	346	2023-08-14	Slack	dave@example	Hello everyone!	0.491653796
##	347	2023-08-04	Twitter	@bob_tweets	Fun weekend!	0.163814227
##	348	2023-08-04	Email	@erin_tweets	Fun weekend!	-0.415885320
##	349	2023-08-18	Slack	@erin_tweets	Exciting news!	-0.537696546
##	350	2023-08-01	Email	carol_slack	Need assistance	-0.130674560
##	351	2023-08-10	Slack	@bob_tweets	Need assistance	0.279333149
##	352	2023-08-16	Twitter	carol_slack	Need assistance	-0.375053814
##	353	2023-08-18	Email	carol_slack	Exciting news!	-0.978982675
##	354	2023-08-14	Email	@erin_tweets	Need assistance	-0.220039924
##	355	2023-08-14	Email	alice@example	Need assistance	0.041204039
##	356	2023-08-20	Twitter	@bob_tweets	Fun weekend!	0.236553716
##	357	2023-08-08	Email	alice@example	Great work!	0.222402995
##	358	2023-08-19	Email	alice@example	Great work!	0.301563812
##	359	2023-08-17	Email	dave@example	Hello everyone!	0.976894801
##	360	2023-08-07	Slack	carol_slack	Team meeting	0.190247875
##	361	2023-08-07	Twitter	carol_slack	Need assistance	0.895823483
##	362	2023-08-01	Slack	dave@example	Team meeting	0.093826082
##	363	2023-08-17	Slack	alice@example	Great work!	0.652192219
##	364	2023-08-04	Slack	carol_slack	Need assistance	0.088740259
##	365	2023-08-08	Slack	@bob_tweets	Hello everyone!	0.740663246
##	366	2023-08-17	Twitter	dave@example	Fun weekend!	0.775130778
##	367	2023-08-11	Twitter	dave@example	Fun weekend!	0.124404418
##	368	2023-08-19	Slack	@bob_tweets	Hello everyone!	0.487545231
##	369	2023-08-18	Twitter	dave@example	Need assistance	-0.613432584
##	370	2023-08-17	Email	@frank_chat	Great work!	-0.951084716
##	371	2023-08-10	Email	@erin_tweets	Exciting news!	0.679597112
##	372	2023-08-12	Email	alice@example	Team meeting	0.774573303
##	373	2023-08-02	Email	dave@example	Exciting news!	0.717076284
##	374	2023-08-18	Email	@frank_chat	Fun weekend!	0.061621126
##	375	2023-08-14	Slack	@frank_chat	Need assistance	-0.920249034
##	376	2023-08-08	Twitter	@frank_chat	Fun weekend!	0.484796492
##	377	2023-08-18	Twitter	dave@example	Exciting news!	-0.209318373
##	378	2023-08-17	Twitter	carol_slack	Need assistance	-0.806338225
##	379	2023-08-12	Email	@bob_tweets	Exciting news!	-0.597888714
##	380	2023-08-04	Email	alice@example	Exciting news!	0.308247630
##	381	2023-08-04	Twitter	@bob_tweets	Exciting news!	-0.122806889
##	382	2023-08-17	Twitter	@erin_tweets	Hello everyone!	0.299843722
##	383	2023-08-10	Twitter	@erin_tweets	Exciting news!	0.275836162
##	384	2023-08-10	Twitter	@frank_chat	Team meeting	-0.976236885
##	385	2023-08-16	Email	alice@example	Exciting news!	-0.858994203
##	386	2023-08-12	Slack	carol_slack	Fun weekend!	0.608656868
##	387	2023-08-11	Twitter	@frank_chat	Fun weekend!	-0.926554946
##	388	2023-08-12	Email	dave@example	Fun weekend!	0.043927317
##	389	2023-08-15	Twitter	dave@example	Great work!	0.435108419
##	390	2023-08-18	Slack	dave@example	Team meeting	-0.718652172

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

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

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

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

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

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

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

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

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

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

```

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

```

## 6	Negative
## 7	Negative
## 8	Negative
## 9	Positive
## 10	Negative
## 11	Positive
## 12	Positive
## 13	Positive
## 14	Positive
## 15	Positive
## 16	Positive
## 17	Positive
## 18	Positive
## 19	Negative
## 20	Positive
## 21	Negative
## 22	Negative
## 23	Positive
## 24	Positive
## 25	Negative
## 26	Positive
## 27	Negative
## 28	Positive
## 29	Positive
## 30	Negative
## 31	Negative
## 32	Positive
## 33	Positive
## 34	Negative
## 35	Positive
## 36	Positive
## 37	Positive
## 38	Negative
## 39	Negative
## 40	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

## 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
## 76	Positive
## 77	Negative
## 78	Positive
## 79	Negative
## 80	Positive
## 81	Positive
## 82	Positive
## 83	Positive
## 84	Negative
## 85	Negative
## 86	Negative
## 87	Negative
## 88	Negative
## 89	Positive
## 90	Negative
## 91	Negative
## 92	Negative
## 93	Negative
## 94	Negative
## 95	Negative
## 96	Negative
## 97	Negative
## 98	Negative
## 99	Negative
## 100	Negative
## 101	Positive
## 102	Positive
## 103	Positive
## 104	Positive
## 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

## 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	Positive
## 150	Positive
## 151	Negative
## 152	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
## 171	Negative
## 172	Positive
## 173	Negative

## 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	Positive
## 196	Negative
## 197	Negative
## 198	Negative
## 199	Positive
## 200	Positive
## 201	Positive
## 202	Positive
## 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

## 230	Negative
## 231	Positive
## 232	Negative
## 233	Negative
## 234	Negative
## 235	Positive
## 236	Positive
## 237	Positive
## 238	Positive
## 239	Positive
## 240	Positive
## 241	Negative
## 242	Negative
## 243	Positive
## 244	Positive
## 245	Negative
## 246	Negative
## 247	Positive
## 248	Positive
## 249	Negative
## 250	Negative
## 251	Positive
## 252	Positive
## 253	Negative
## 254	Positive
## 255	Negative
## 256	Positive
## 257	Positive
## 258	Positive
## 259	Positive
## 260	Positive
## 261	Positive
## 262	Negative
## 263	Positive
## 264	Negative
## 265	Positive
## 266	Negative
## 267	Positive
## 268	Positive
## 269	Negative
## 270	Negative
## 271	Positive
## 272	Positive
## 273	Negative
## 274	Positive
## 275	Negative
## 276	Negative
## 277	Negative
## 278	Negative
## 279	Positive
## 280	Negative
## 281	Positive
## 282	Negative
## 283	Positive
## 284	Positive
## 285	Negative

## 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
## 306	Negative
## 307	Negative
## 308	Negative
## 309	Positive
## 310	Positive
## 311	Negative
## 312	Positive
## 313	Negative
## 314	Negative
## 315	Positive
## 316	Negative
## 317	Negative
## 318	Positive
## 319	Negative
## 320	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
## 337	Negative
## 338	Positive
## 339	Negative
## 340	Positive
## 341	Negative

## 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	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

## 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	Positive
## 441	Positive
## 442	Positive
## 443	Negative
## 444	Negative
## 445	Positive
## 446	Positive
## 447	Positive
## 448	Positive
## 449	Positive
## 450	Positive
## 451	Negative
## 452	Negative
## 453	Positive

## 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
## 498	Positive
## 499	Negative
## 500	Negative
## 501	Positive
## 502	Positive
## 503	Positive
## 504	Negative
## 505	Positive
## 506	Negative
## 507	Negative
## 508	Positive
## 509	Negative

## 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	Positive
## 526	Negative
## 527	Positive
## 528	Negative
## 529	Positive
## 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	Positive
## 551	Negative
## 552	Positive
## 553	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

## 566	Negative
## 567	Negative
## 568	Positive
## 569	Positive
## 570	Positive
## 571	Negative
## 572	Positive
## 573	Positive
## 574	Negative
## 575	Negative
## 576	Positive
## 577	Negative
## 578	Positive
## 579	Positive
## 580	Negative
## 581	Positive
## 582	Negative
## 583	Positive
## 584	Positive
## 585	Positive
## 586	Negative
## 587	Positive
## 588	Negative
## 589	Positive
## 590	Positive
## 591	Positive
## 592	Negative
## 593	Positive
## 594	Negative
## 595	Positive
## 596	Positive
## 597	Negative
## 598	Positive
## 599	Positive
## 600	Positive
## 601	Negative
## 602	Negative
## 603	Negative
## 604	Negative
## 605	Negative
## 606	Negative
## 607	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

## 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	Positive
## 674	Negative
## 675	Negative
## 676	Negative
## 677	Positive

## 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	Negative
## 698	Positive
## 699	Negative
## 700	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	Negative
## 725	Negative
## 726	Negative
## 727	Negative
## 728	Positive
## 729	Positive
## 730	Positive
## 731	Positive
## 732	Negative
## 733	Negative

## 734	Positive
## 735	Positive
## 736	Negative
## 737	Positive
## 738	Positive
## 739	Positive
## 740	Positive
## 741	Positive
## 742	Negative
## 743	Negative
## 744	Positive
## 745	Positive
## 746	Positive
## 747	Negative
## 748	Positive
## 749	Negative
## 750	Positive
## 751	Negative
## 752	Negative
## 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
## 770	Negative
## 771	Positive
## 772	Negative
## 773	Positive
## 774	Negative
## 775	Positive
## 776	Negative
## 777	Negative
## 778	Positive
## 779	Negative
## 780	Positive
## 781	Positive
## 782	Negative
## 783	Positive
## 784	Negative
## 785	Negative
## 786	Negative
## 787	Positive
## 788	Negative
## 789	Positive

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

## 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
## 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

## 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

```

Question-12: Daily Message Challenge

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

Solution:

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

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

Question-13: Untidy data

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

Solution: 1. There are multiple 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.