

# Reports on Goodnotes Subreddit discussion

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Dec 2022

# Descriptive Statistics

- From Jan 2019 to May 2021, 6008 replies belong to 622 threads in 'goodnotes' subreddit.

```
# check count of unique values again  
df.nunique()
```

```
submission_id          639  
submission_score        28  
submission_title       622  
submission_link_flair_text    7  
submission_selftext     416  
reply_author          4107  
reply_body            6008  
reply_created_utc      3351  
dtype: int64
```

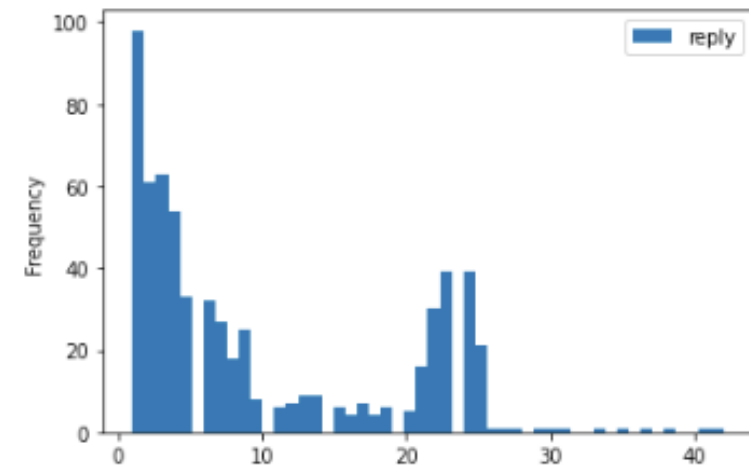
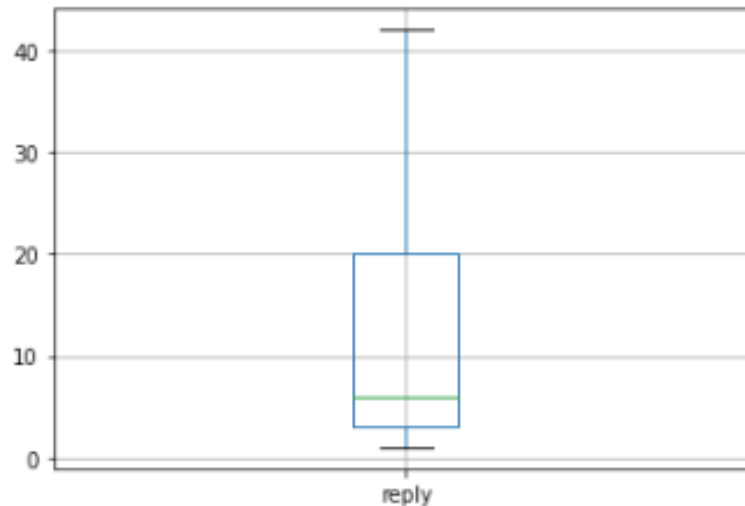
- The top author is a bot named 'AutoModerator' that tracks other bots but also promotes the 'OnlyFans' subreddit.

```
reply_author  
AutoModerator      124  
XF939495xj6        29  
davemacdo          24  
moegnus            24  
Topherho           23  
Name: reply, dtype: int64
```

# Descriptive Statistics

- The median replies per thread is 6 and average is 10.
  - The top 5 thread with the highest number of replies are typically about errors, tips for using the note-taking app, and sharing resources.

	reply
count	639.000000
mean	9.895149
std	9.081655
min	1.000000
25%	3.000000
50%	6.000000
75%	20.000000
max	42.000000



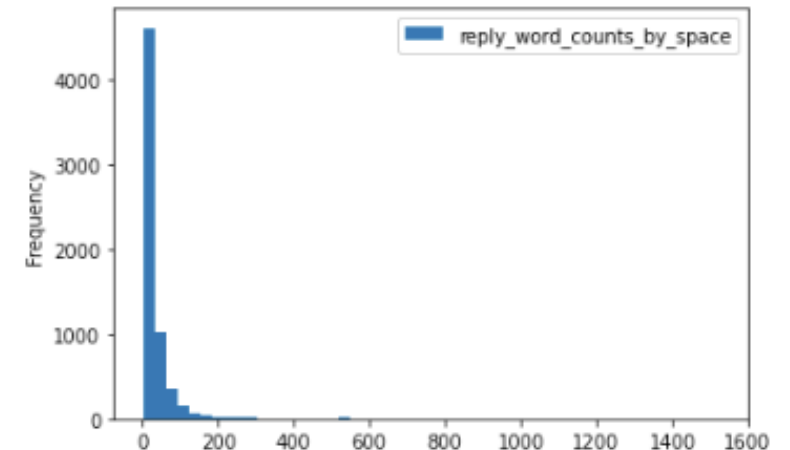
# Descriptive Statistics

- Median number of upvote for a thread is 1, with the highest thread having 132.

submission_score	
count	639.000000
mean	2.395931
std	8.022581
min	0.000000
25%	1.000000
50%	1.000000
75%	1.000000
max	132.000000

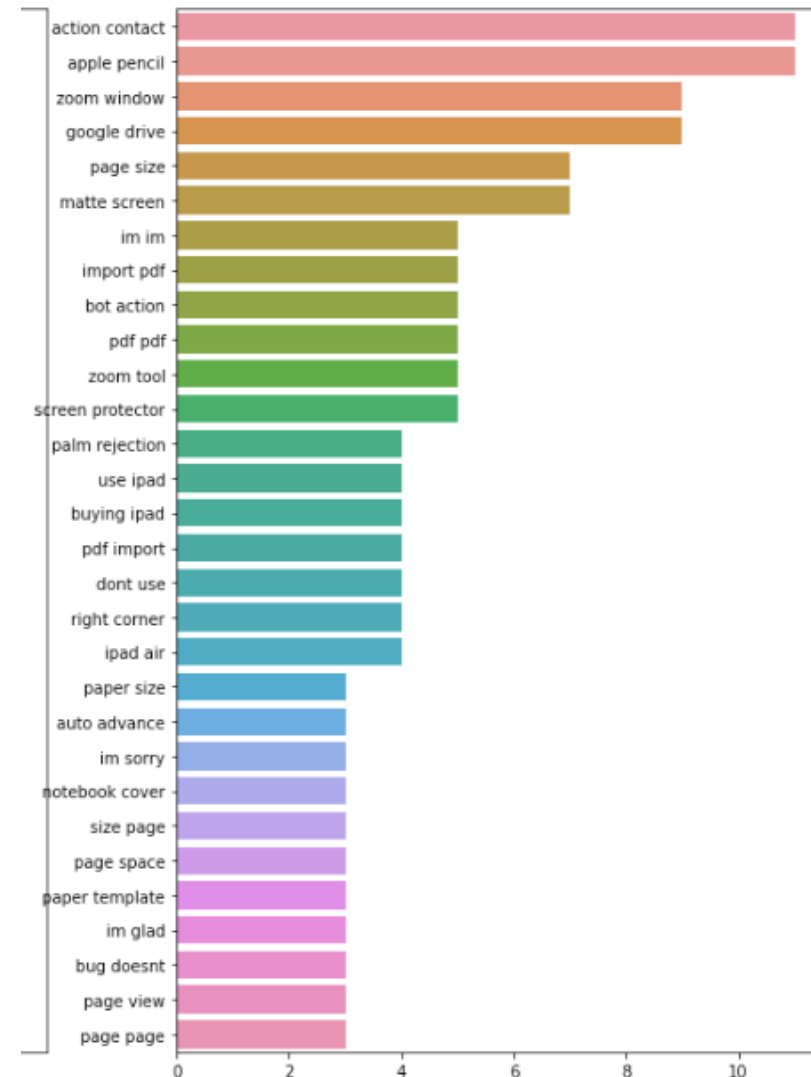
- A reply has a median of 15 words, but the distribution appears to be right-skewed.

reply_word_counts_by_space	
count	6323.000000
mean	28.925826
std	49.515237
min	1.000000
25%	6.000000
50%	15.000000
75%	34.000000
max	1525.000000



# Insights on N-gram and top words

- For threads tagged with 'Question – iPad', popular topics discussed were about apple pencil, the right page size, and zoom related topics.
- There are a lot of auto-replies stating *“I am a bot, and this action was performed automatically. Please contact the moderators of this subreddit if you have any questions or concerns.”*
- A lot of *“thank you”* and *“thanks”* in raw text.



# LDA Analysis

- The topics under tag 'Question – iPad' can be grouped into 4 different topics:
  - Discussions about some bug or problem and users sharing resources to resolve them.
  - Discussions about the tools (e.g., highlighter, page set-up) for the note-taking app.
  - Discussions about using the app and how it changed their life and the way they take notes.
  - Miscellaneous or other topics around pricing, news, etc.

# Summary

- Users tend to seek other users' validation or help in the goodnotes subreddit.
  - Top 5 threads ask for help in resolving errors, tips, and sharing resources.
  - Top keywords include "thank you" and "thanks", indicating replies were helpful in providing some assistance.
  - Some of the top discussions for 'Question – iPad' includes discussing bugs and sharing how they use the app.
- The top author is AutoModerator, a self-identified bot that posts things about politics, promote spammy OnlyFan subreddits, and track bugs.