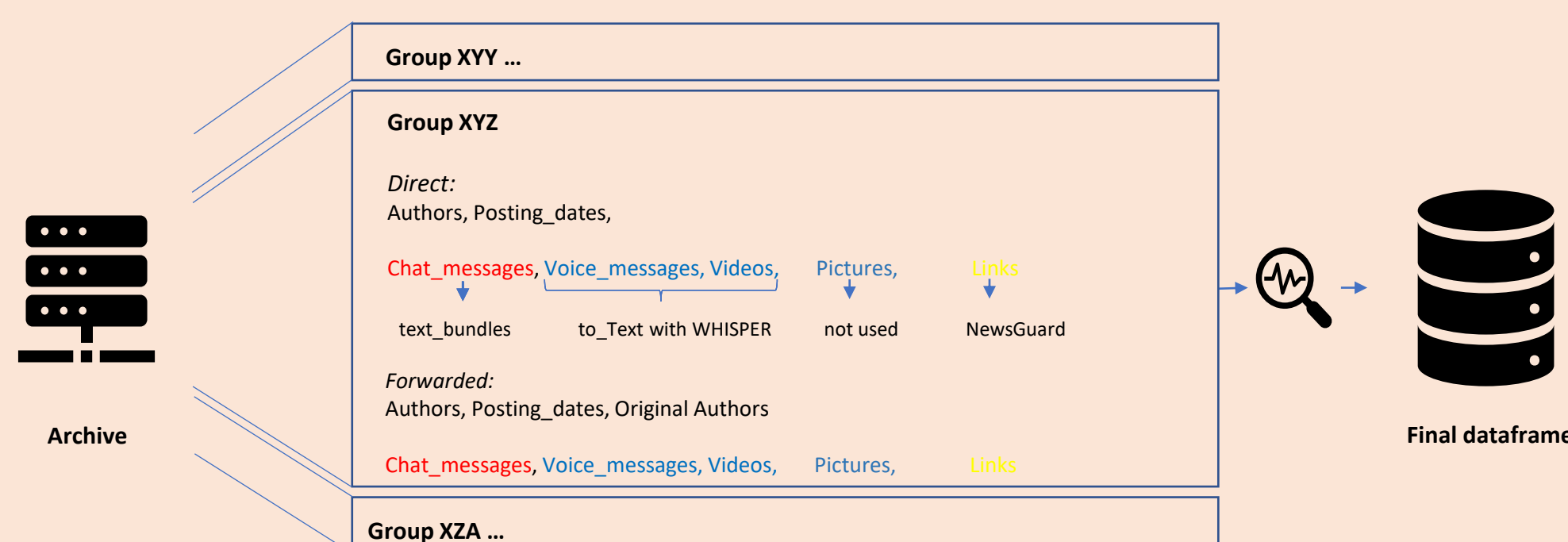


ORIENTATION IN THE WORLD OF CONSPIRACY

An investigation to understand and depict the structure underlying the Telegram chats within the “Schwurbelarchiv”

Mechanism of data preparation

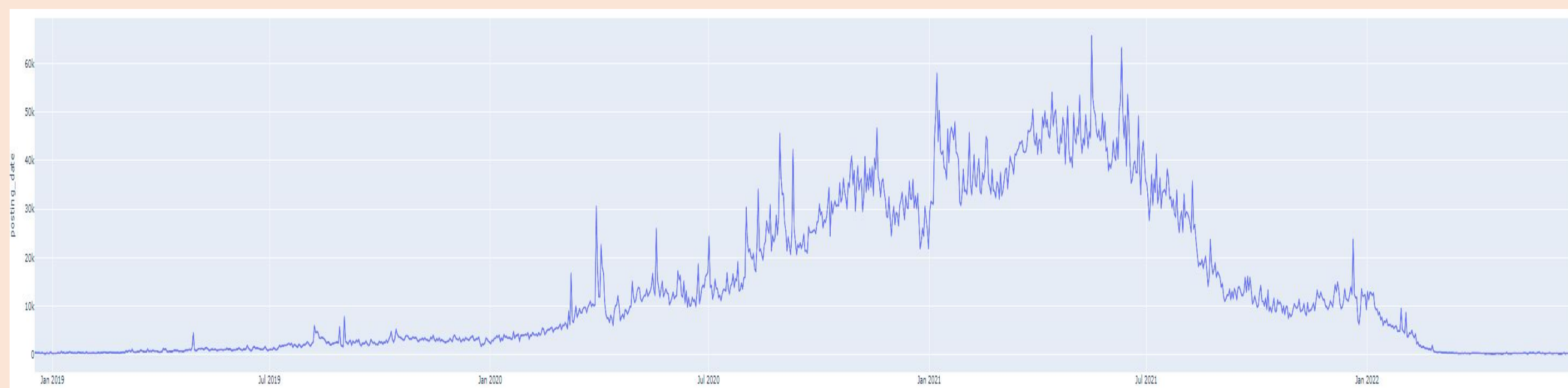


Result of preliminary data set analysis

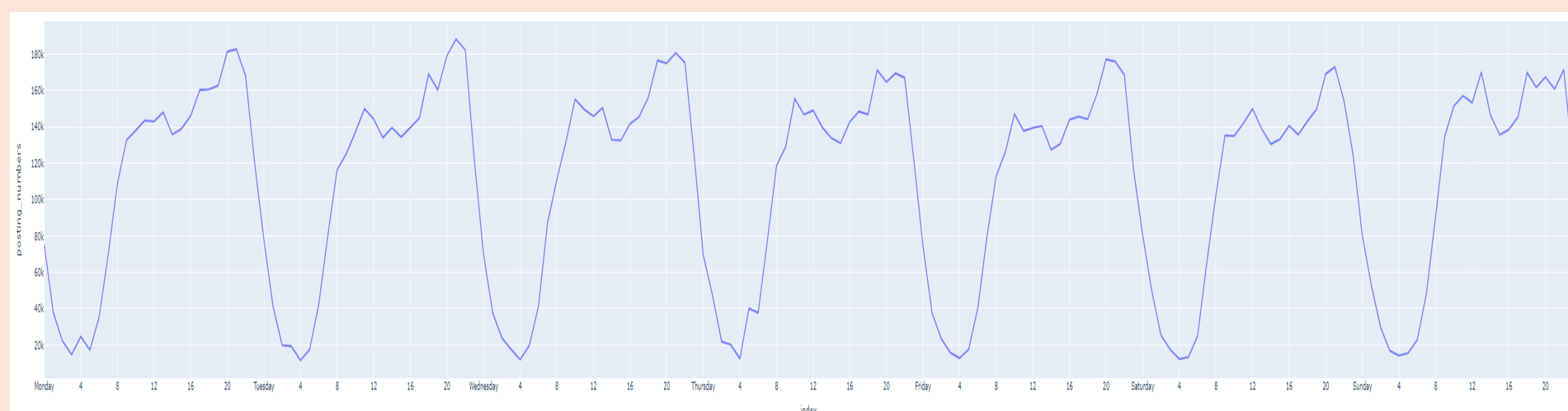
Obtainable chat folders in the archive:	7677
Analyzed chat folders:	2916
Total messages:	18,492,995
Total media files:	7,536,320
Photos:	5,949,081
Video:	1,190,710
Voice messages:	396,529
Ratio media/message	0.41
Ratio Groups - Channel (distributor : recipient = n:n - 1:n)	1439:1478

Preliminary quantitative analysis

Aggregated posting volume over time

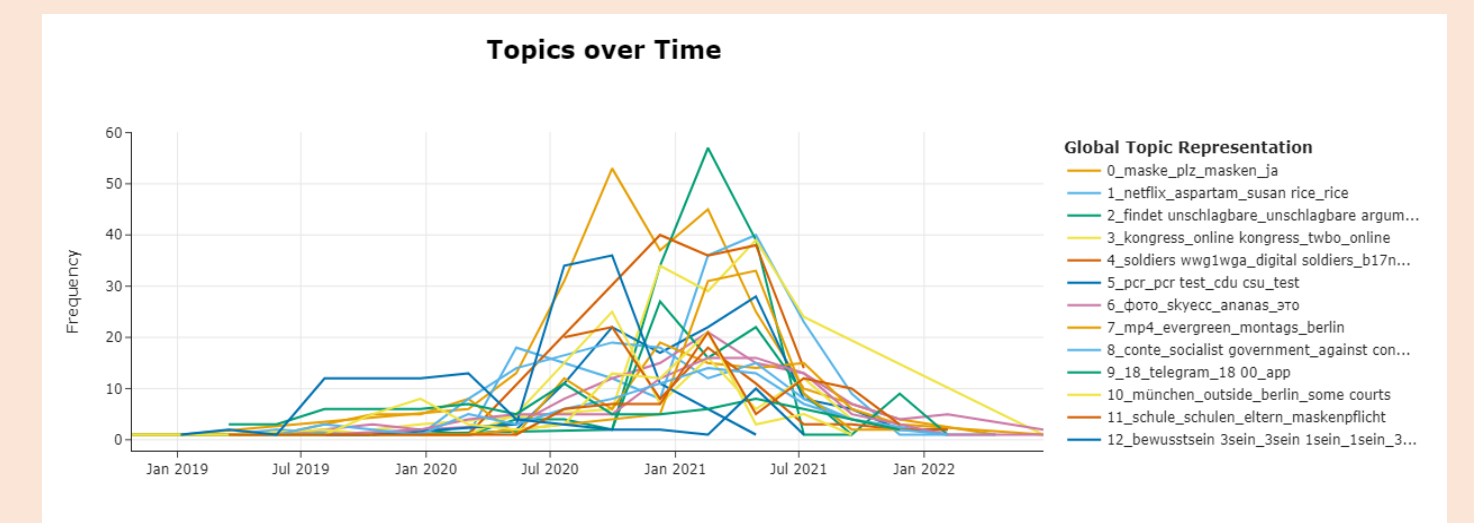


Hourly posting volume over a week



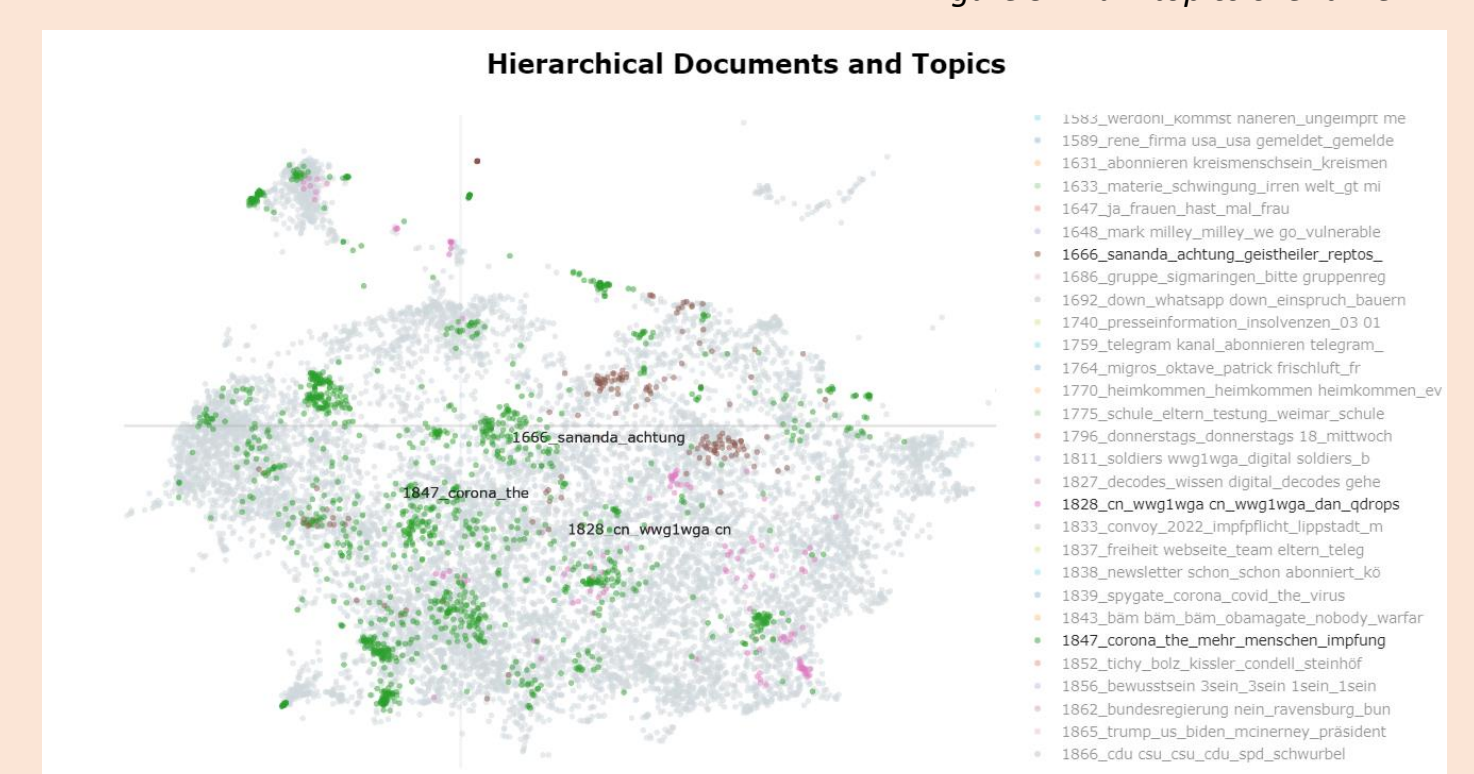
Preliminary topic analysis via BERTopic

Topics over time of a sample data set as a proof of concept.



Proof of concept to detect topics in the dataset via hierarchical topic modelling.

The UMAP shows the entirety of all groups and their respective topic. Hierarchical topic modelling aggregates groups that are closely related to each other topic wise. In the picture we highlighted three topics. Each dot is a group within that topic cluster.

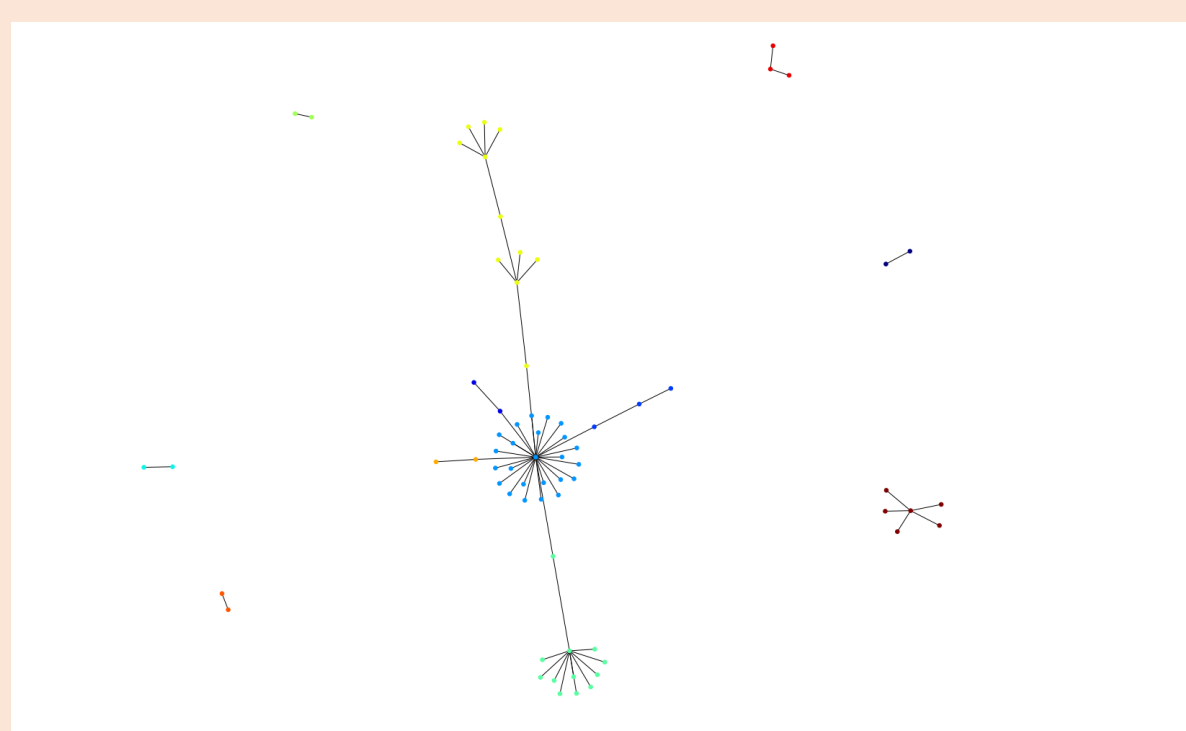


Preliminary network analysis

The network analysis was performed in such a way that forwarded messages and their originating group were examined. Undirected edges connect the origin group of the message and the group into which this message was forwarded.

Small sample size of groups to indicate various types of groups.

- Spreading groups with many adjacent groups
- Connecting groups that connect multiple groups
- Groups outside the network that have no or only few connections



Larger sample size to indicate network behaviour with the aforementioned group mechanisms when they are scaled up

