Task 1,3:

Subreddit: wallstreetbets, it was the top 1 at 24/4/2022

Data collected at 5/5/2022

For each post, we collected all the subcomments of the first at most 3000 level 0 comments

red top 1 post of that month

https://www.reddit.com/r/wallstreetbets/comments/txma40/wallstreetbets\_predictions\_tournament\_for\_april/?utm\_source=share&utm\_medium=web2x&context=3

blue top 2 post of that month

https://www.reddit.com/r/wallstreetbets/comments/ufc3eu/alright\_boys\_time\_for\_some\_classic\_wsb\_degeneracy/?utm\_source=share&utm\_medium=web2x&context=3

green top 3 post of that month

<https://www.reddit.com/r/wallstreetbets/comments/twk0qn/our_savior/?utm_source=share&utm_medium=web2x&context=3>

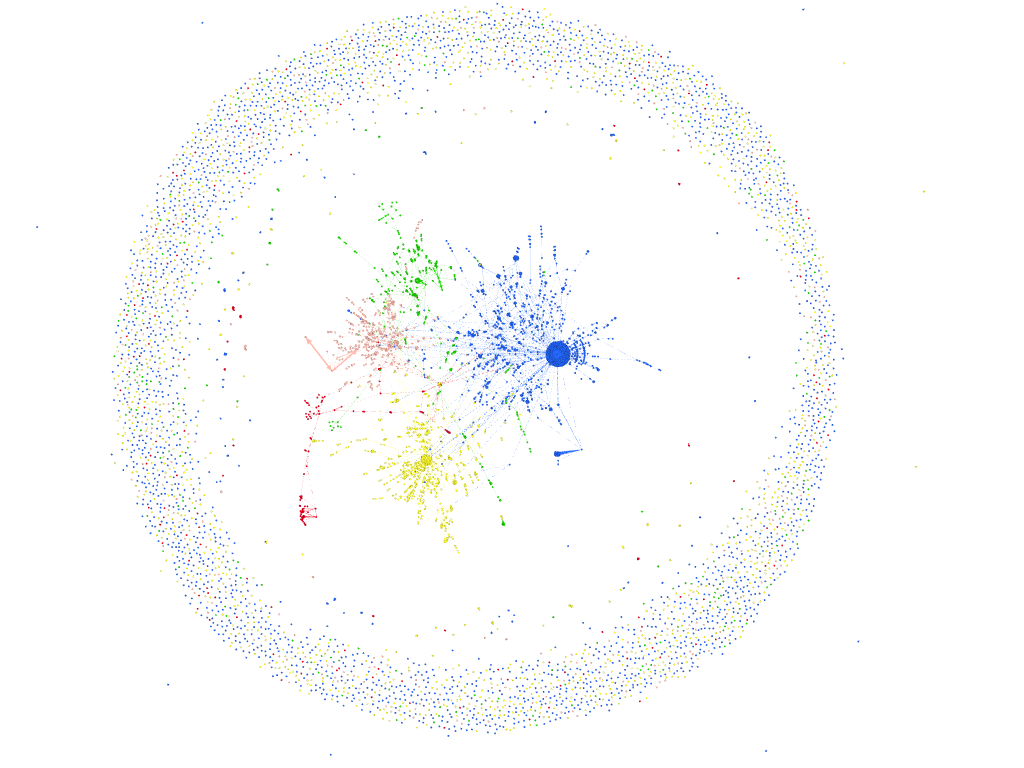
yellow top 4 post of that month

https://www.reddit.com/r/wallstreetbets/comments/u7wtfh/5k\_to\_100k\_overnight\_nflx\_put/?utm\_source=share&utm\_medium=web2x&context=3

pink top 5 post of that month

<https://www.reddit.com/r/wallstreetbets/comments/ug4351/suffering/?utm_source=share&utm_medium=web2x&context=3>

Whole graph



Software used: Gephi

Some important people:

Chart

Description automatically generated

Red arrows: the comments that user did.

Blue arrows: the comments he got

Chart, radar chart

Description automatically generated

A picture containing text, sky, outdoor, several

Description automatically generated

Chart, radar chart

Description automatically generated

A picture containing text, sky, document

Description automatically generated

Chart

Description automatically generated

Diagram

Description automatically generated with low confidence

A picture containing sky, text, map

Description automatically generated

A map of a city

Description automatically generated with low confidence

Chart

Description automatically generated with medium confidence

Some big arrows represent big weights. Weight = how many times someone commented in the same person

Chart

Description automatically generated

Chart, radar chart

Description automatically generated

Some other graph photos

A picture containing sky, map, several

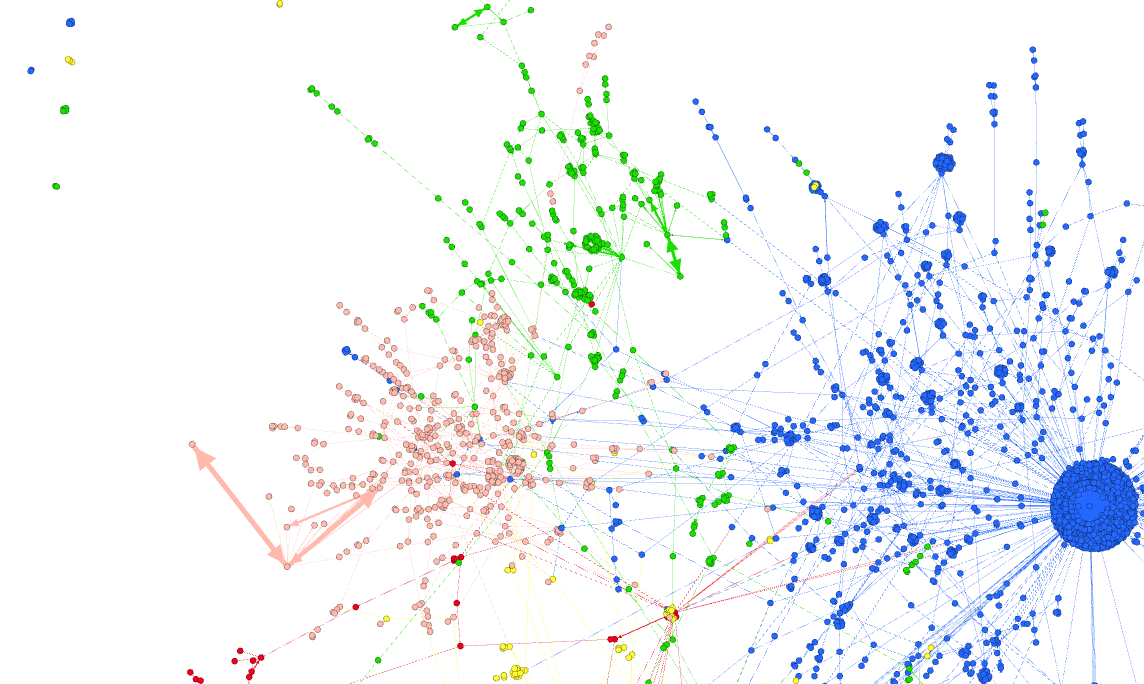
Description automatically generated

Map

Description automatically generated with medium confidence

A picture containing chart

Description automatically generated



A picture containing red, indoor

Description automatically generated

Chart, line chart

Description automatically generated

A picture containing ball, hitting

Description automatically generated

Chart, line chart

Description automatically generated

Text, chat or text message

Description automatically generated with medium confidence

Graphical user interface, text, application, chat or text message

Description automatically generated

Task 2

COMMENTS PER DAY.

THE FIRST DATE IS THE CREATION DATE OF THE POST

THE LAST DATE IS THE DATE OF THE LATEST COMMENT CAPTURED AT 5/5/2022

FOR THE TOTAL COMMENTS, FIRST DATE IS THE DATE OF THE OLDEST CREATED POST AMONG THESE 5 AND LAST DATE IS THE LATEST COMMENT DATE CAPTURED AMONG ALL THE COMMENTS

Chart, bar chart

Description automatically generated

Chart, bar chart

Description automatically generated

Chart

Description automatically generated

Chart

Description automatically generated

Chart

Description automatically generated

Chart, bar chart

Description automatically generated

Task 4

Data extracted from Gephi:

Text

Description automatically generated

Considering the directions, the diameter is 23(by GePhi). That means that the maximum depth of continuously replies on a comment could be 23. However we don’t exactly know what is the maximum depth.

For example, we could have a case of a lvl 0 comment of a user x with a reply by a user y, with user x replying in a different lvl 0 comment z.

(y)->(x)->(z) could be:

Comment x Comment z

-reply comment y OR -reply comment x

Comment z -reply comment y

-reply comment x

2 depth 2 comments 1 depth 3 comment

(slides 19-21 Lecture 3)

Clustering coefficient of the graph is a way to tell how much transitivity can be seen in the whole graph. Definition of transitivity:

If vertex u is connected by an edge with v, and v is connected  
by an edge with w, then u is connected by an edge with w

A high clustering coefficient is translated to a network with high transitivity (People belong to tight groups)

Text

Description automatically generated(Should be the same as slides say)

Cc = 6\*triangles/paths\_of\_len\_2

average\_clustering = sum of all node clustering/nodes

For average\_clustering, each node u clustering is calculated with:

Graphical user interface, text, application

Description automatically generated