Knowledge Design, Data Visualization – Part 2

Compiled by:
Kim Frederic Albrecht, Filmuniversität Babelsberg KONRAD WOLF

2023-06-06
GEM Camp

#MeTool Anti-Network

https://metoo.kimalbrecht.com

#MeTool Anti-Network

Analysis

For qualitative analysis, our research focused on a random sample of one million tweets in the timespan from 2017 to 2020.

Diagrams

About

#MeTool Anti-Network

https://metoo.kimalbrecht.com

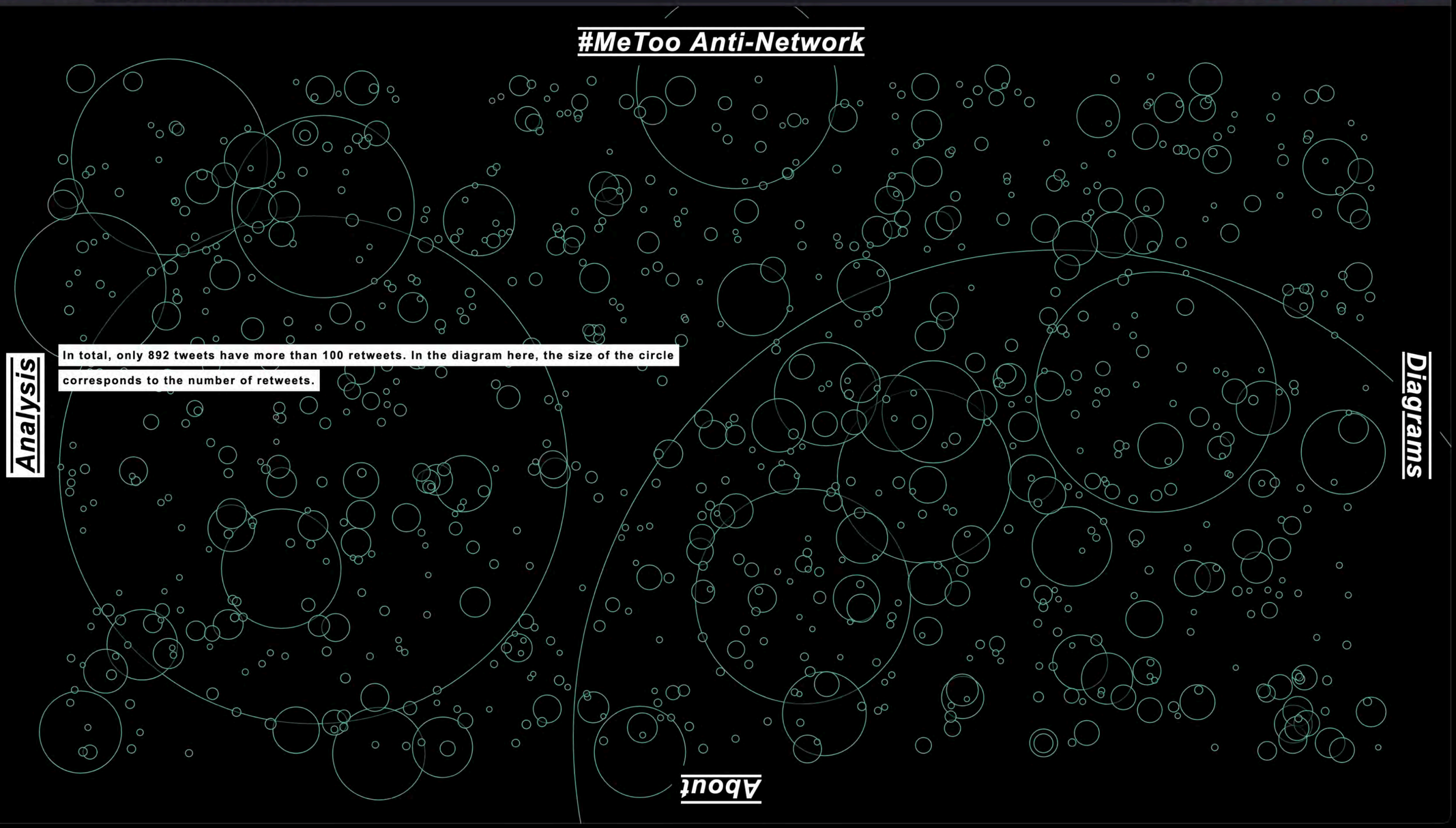
#MeToo Anti-Network

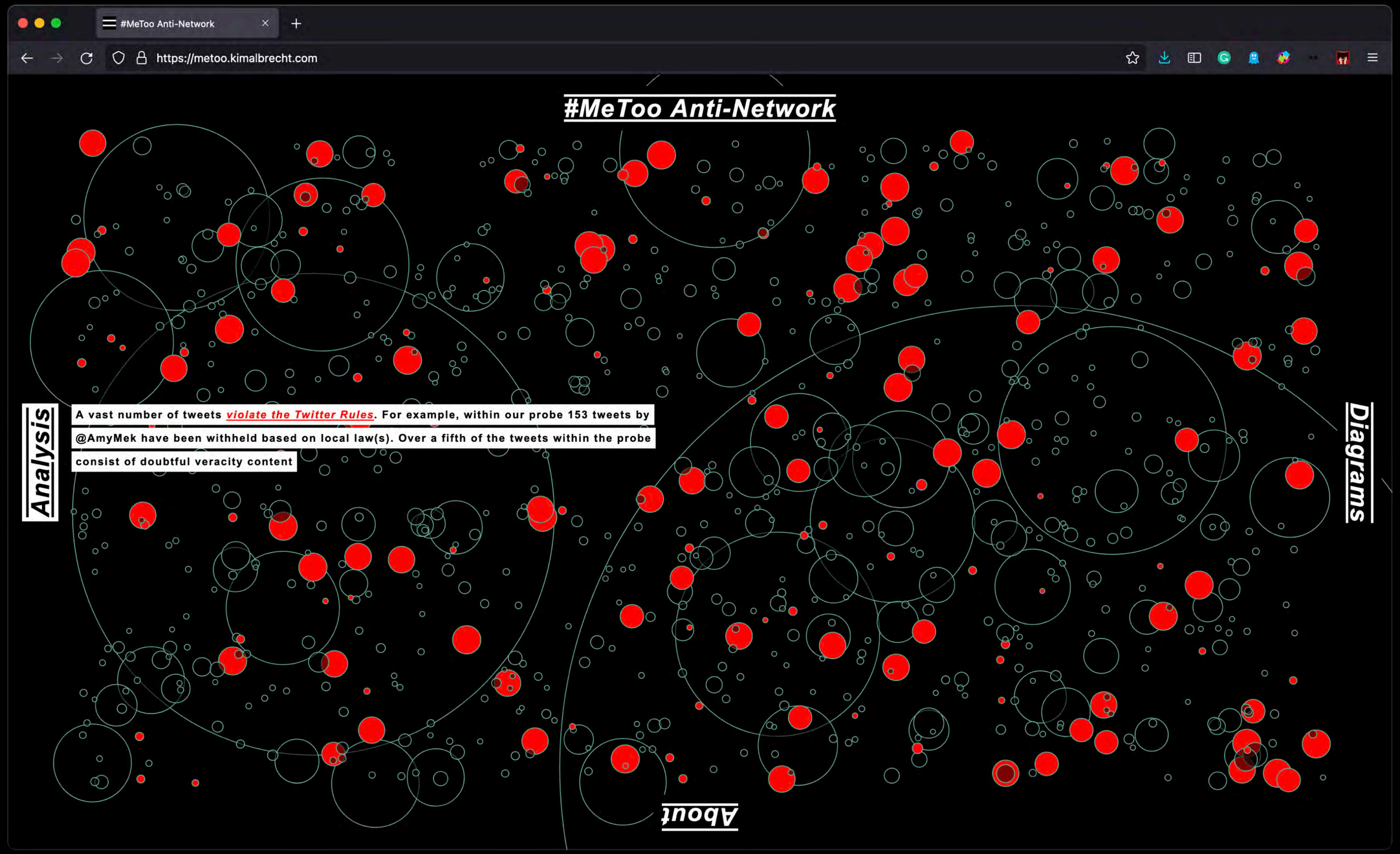
Analysis

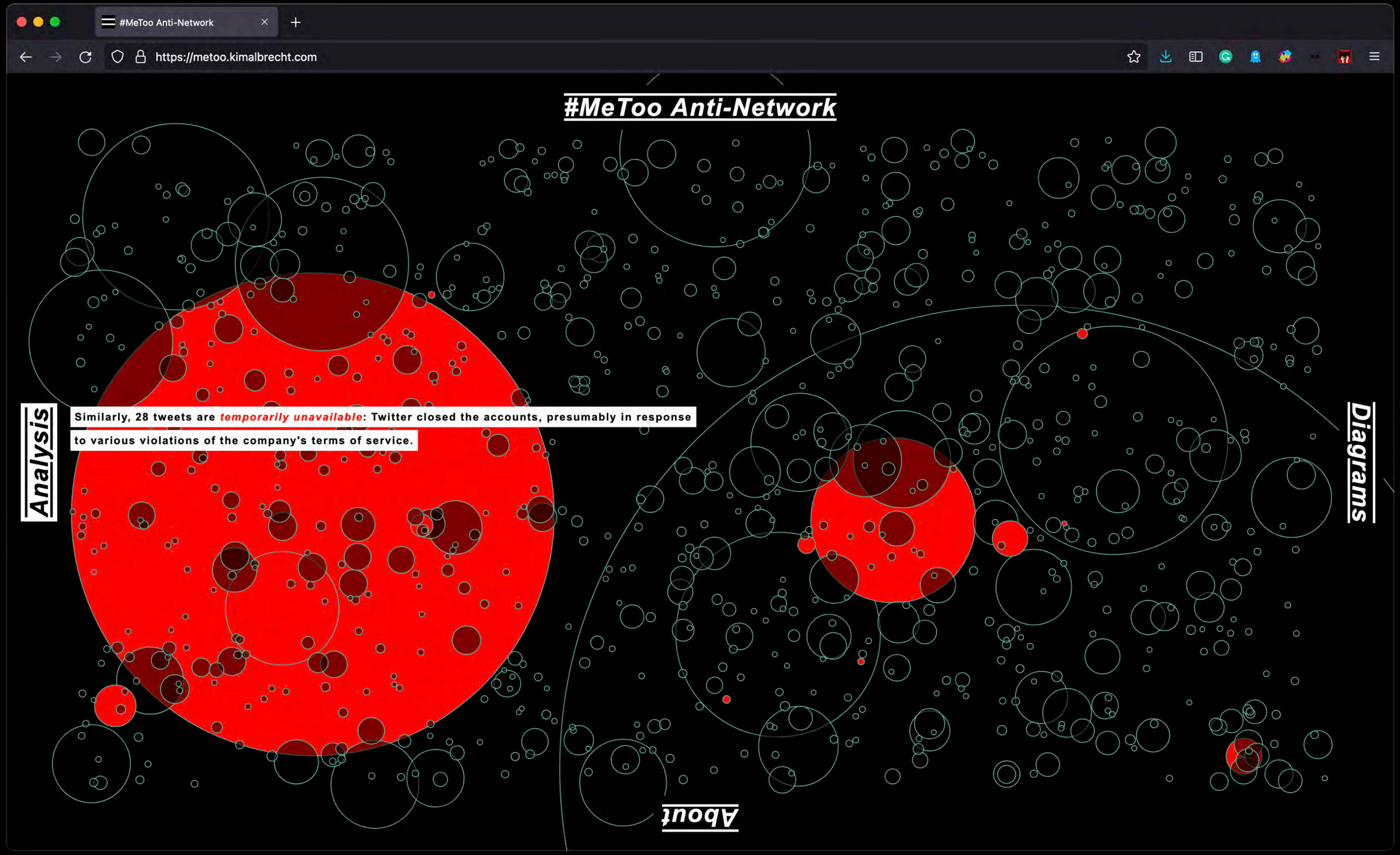
Diagrams

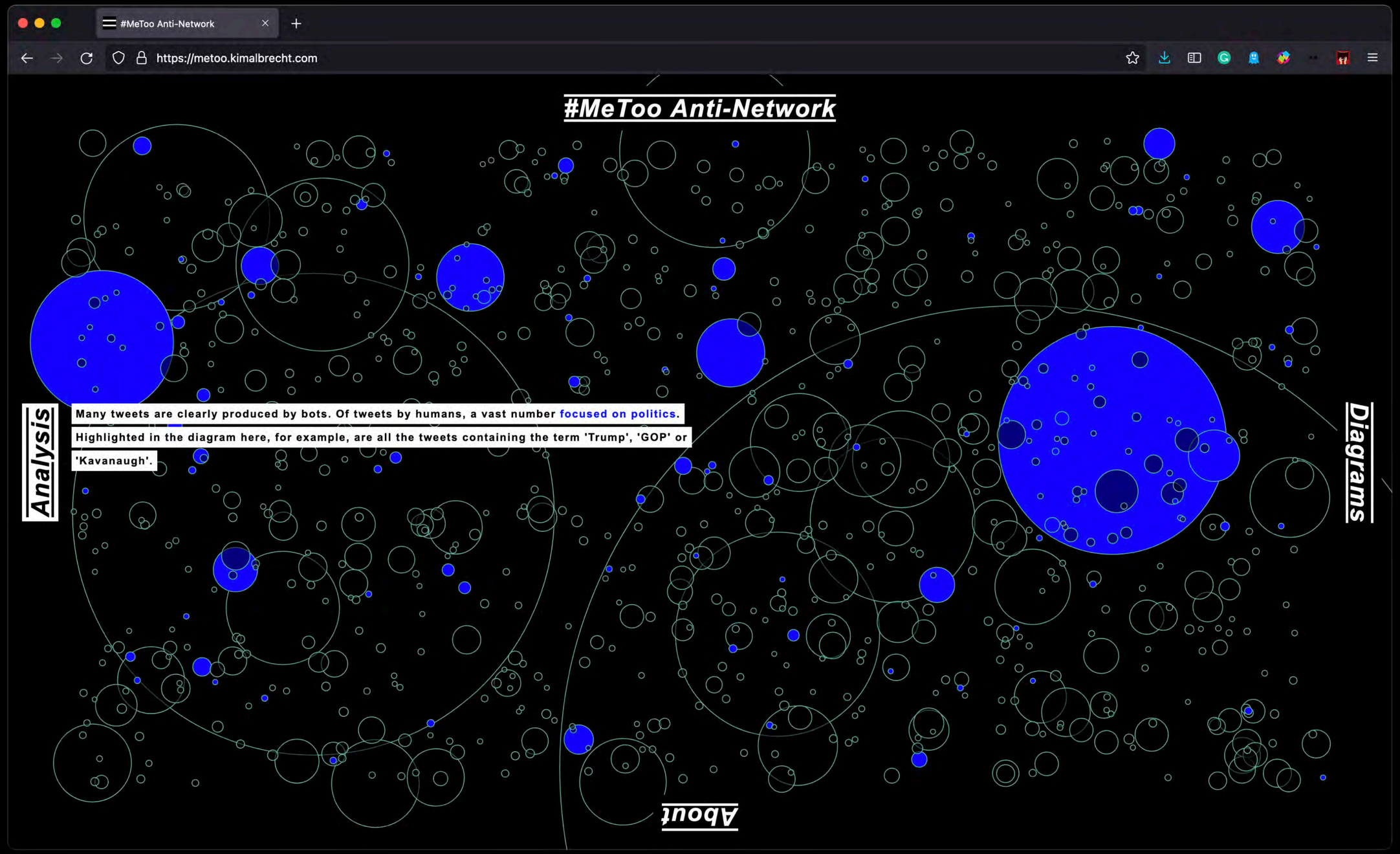
About

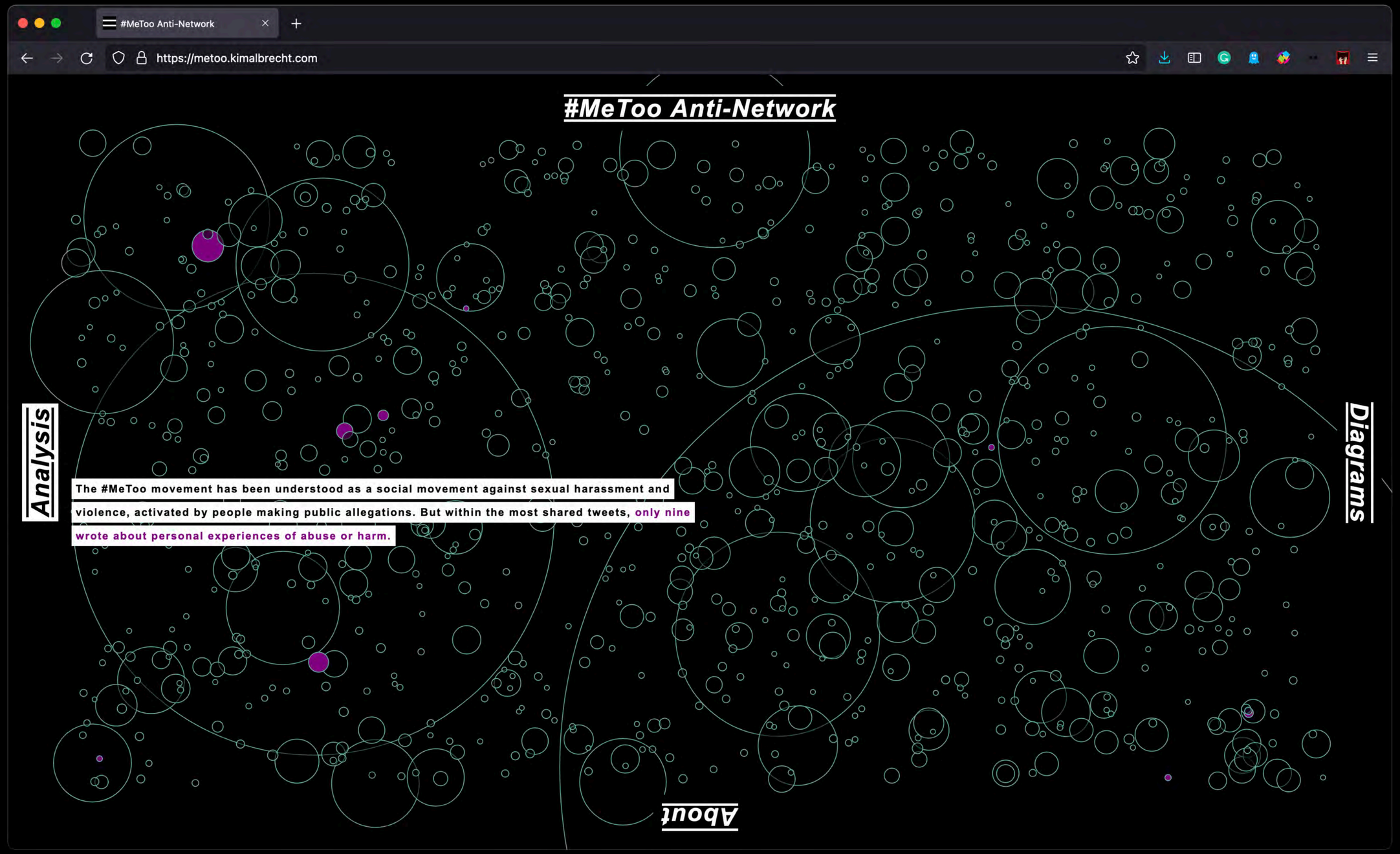
In total, only 892 tweets have more than 100 retweets. In the diagram here, the size of the circle corresponds to the number of retweets.

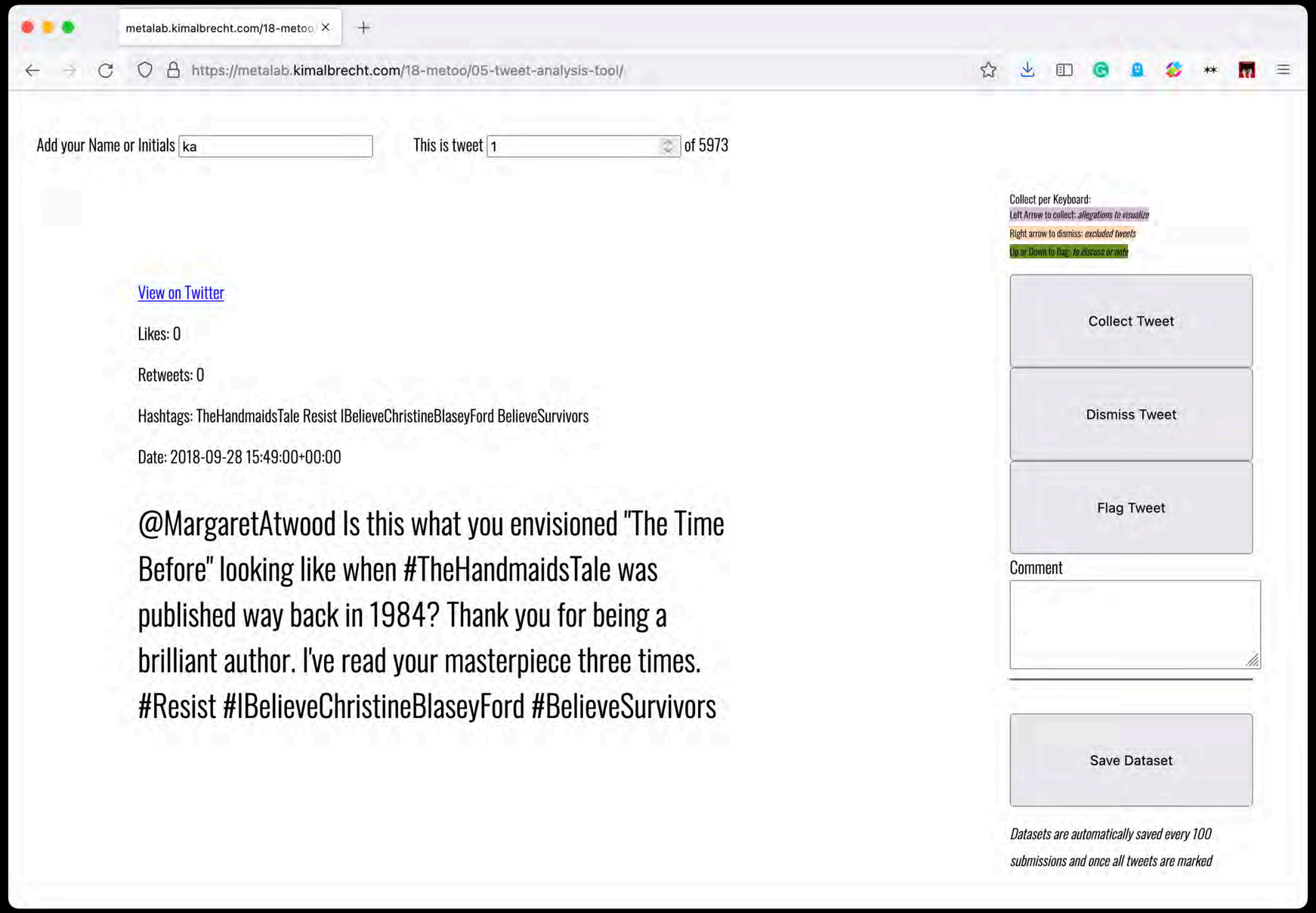



#MeTool Anti-Network
https://metoo.kimalbrecht.com
#MeToo Anti-Network
Analysis
A vast number of tweets violate the Twitter Rules. For example, within our probe 153 tweets by @AmyMek have been withheld based on local law(s). Over a fifth of the tweets within the probe consist of doubtful veracity content
Diagrams
About


#MeToo Anti-Network
https://metoo.kimalbrecht.com
#MeToo Anti-Network
Analysis
Similarly, 28 tweets are temporarily unavailable: Twitter closed the accounts, presumably in response to various violations of the company's terms of service.
Diagrams
About


#MeToo Anti-Network
https://metoo.kimalbrecht.com
Analysis
Many tweets are clearly produced by bots. Of tweets by humans, a vast number focused on politics.
Highlighted in the diagram here, for example, are all the tweets containing the term 'Trump', 'GOP' or 'Kavanaugh'.
Diagrams
About

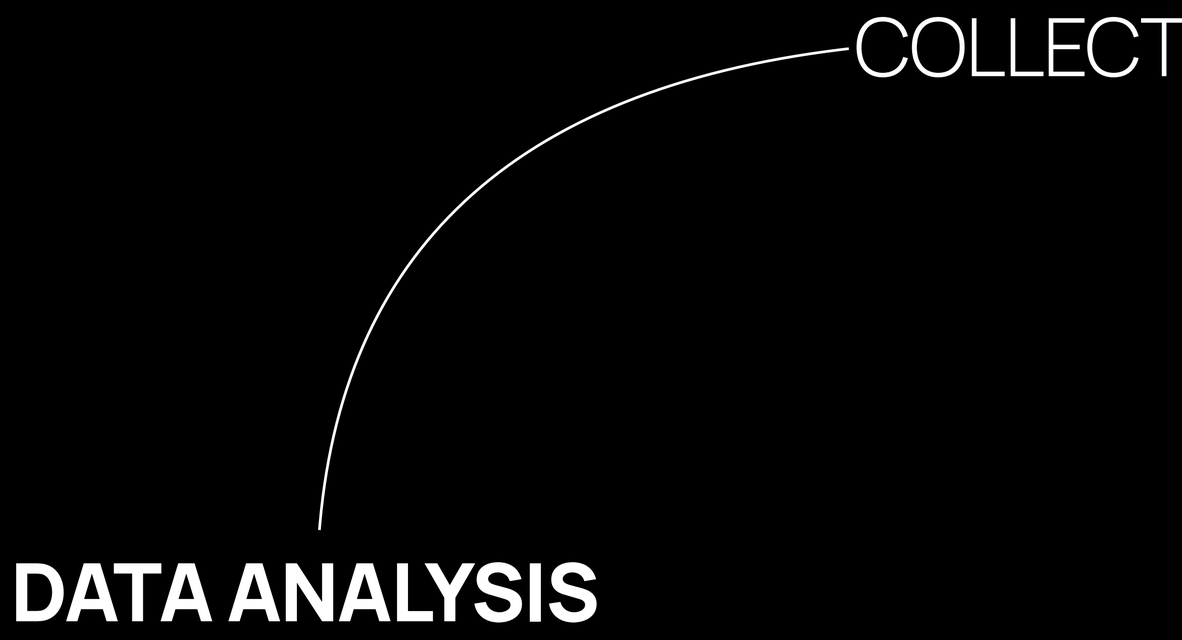

#MeToo Anti-Network
https://metoo.kimalbrecht.com
#MeToo Anti-Network
Analysis
Diagrams
About
The #MeToo movement has been understood as a social movement against sexual harassment and violence, activated by people making public allegations. But within the most shared tweets, only nine wrote about personal experiences of abuse or harm.

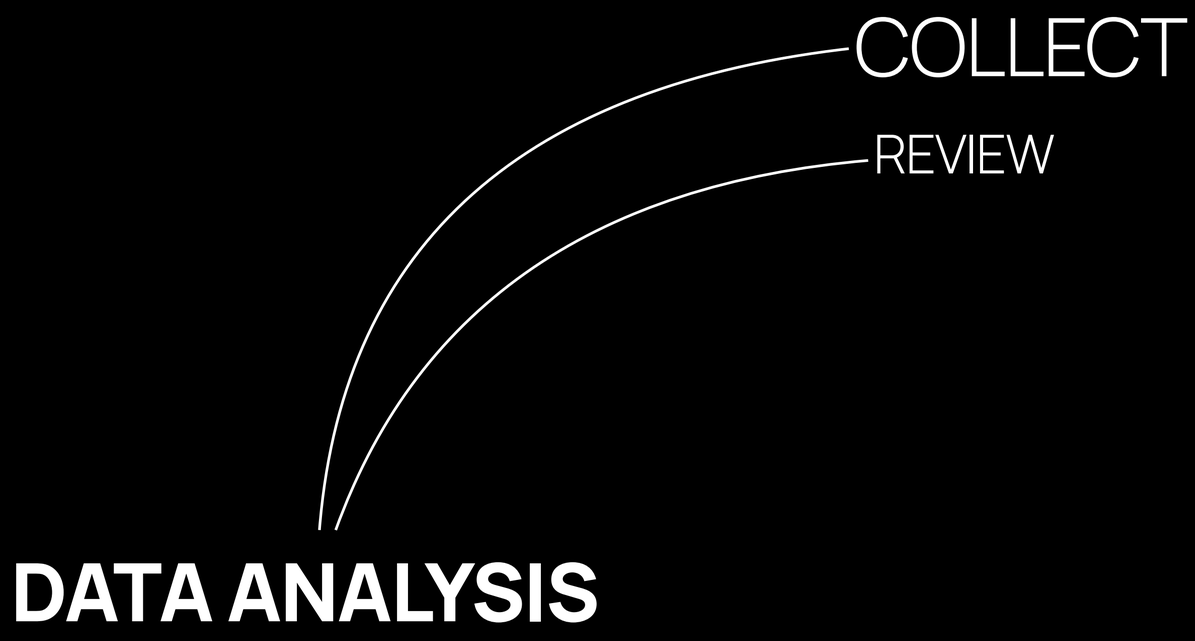

metalab.kimalbrecht.com/18-metoo
https://metalab.kimalbrecht.com/18-metoo/05-tweet-analysis-tool/
Add your Name or Initials ka
This is tweet 1 of 5973
View on Twitter
Likes: 0
Retweets: 0
Hashtags: TheHandmaidsTale Resist IBelieveChristineBlaseyFord BelieveSurvivors
Date: 2018-09-28 15:49:00+00:00
@MargaretAtwood Is this what you envisioned "The Time Before" looking like when #TheHandmaidsTale was published way back in 1984? Thank you for being a brilliant author. I've read your masterpiece three times. #Resist #IBelieveChristineBlaseyFord #BelieveSurvivors
Collect per Keyboard:
Left Arrow to collect: allegations to visualize
Right arrow to dismiss: excluded tweets
Up or Down to flag: to discuss or note
Collect Tweet
Dismiss Tweet
Flag Tweet
Comment
Save Dataset
Datasets are automatically saved every 100 submissions and once all tweets are marked

#WhyIDidntReport

#MeToo #metoo #METOO

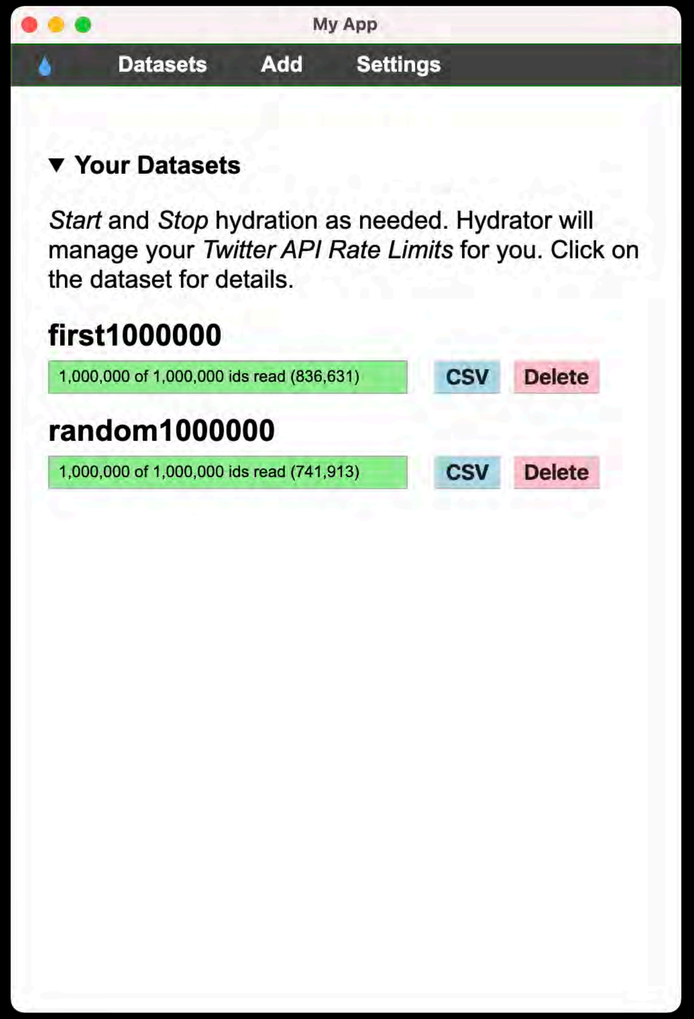
DATA ANALYSIS


COLLECT
DATA ANALYSIS


COLLECT
REVIEW
DATA ANALYSIS

EXAMPLE
COLLECT

EXAMPLE
TRANSFORM



```
coordinates,created_at,hashtags,media,urls,favorite_count,id,in_reply_to_screen_name,in_reply_to_status_id,in_reply_to_user_id,lang,place,possibly_sensitive,retweet_count,retweet_id,retweet_screen_name,source,text,tweet_url,user_created_at,user_screen_nam
e,user_default_profile_image,user_description,user_favourites_count,user_followers_count,user_friends_count,user_listed_count,user_location,user_name,user_screen_name,user_statuses_count,user_time_zone,user_urls,user_verified
,Mon Dec 17 16:46:43 +0000 2018,,,,0,1074707472814882816,,,,en,,,32,1074488421811437568,ColorOfChange,"<a href=""http://twitter.com/download/iphone"" rel=""nofollow"">Twitter for iPhone</a>",RT @ColorOfChange: .@rkelly's physical and psychological abuse of Black
women and girls is indefensible. Sign the petition to demand one of…,https://twitter.com/JoanneNSmith/status/1074707472814882816,Thu Jan 26 04:38:27 +0000 2017,JoanneNSmith,false,"Healer who generates abundance, love & joy. She/her, my assignment Founder @GGENYC,
co-founder @BlkGrlFreedom views & typos mine #BlackGirls2020 #WeGotUs 👸🏾",7284,1324,1106,32,"Brooklyn, NY",Joanne N. Smith,JoanneNSmith,1755,,http://www.ggenyc.org,false
,Mon Dec 17 16:11:24 +0000 2018,KatrinaKaif,,,0,1074698585361371136,,,,en,,,7,1074697594704683008,Spotboye,"<a href=""http://twitter.com"" rel=""nofollow"">Twitter Web Client</a>",RT @Spotboye: Does anybody have an answer to #KatrinaKaif's pertinent question: Why
are heroines ignored on stage platforms in comparison t…,https://twitter.com/skg_mne/status/1074698585361371136,Sat Nov 28 00:42:14 +0000 2015,skg_mne,false,"Sole Owner & Founder Chairman
7 Companies - 164 Divisions
SKG - 57 Div
SFZ - 13 Div
MBT - 57 Div
RFS - 2 Div
LMN - 16 Div
SKG 4 U - 14 Div
LCM - 5 Div",30691,949,4907,79,India,Kaushal Kamdar (( 7 Companies - 164 Divisions )),skg_mne,44999,,https://www.facebook.com/kaushal.kamdar.skg.mbt.lmn.rfs.lcm,false
,Mon Dec 17 16:34:40 +0000 2018,KatrinaKaif,,,0,1074704441117274112,,,,en,,,7,1074697594704683008,Spotboye,"<a href=""http://twitter.com/download/android"" rel=""nofollow"">Twitter for Android</a>",RT @Spotboye: Does anybody have an answer to #KatrinaKaif's
pertinent question: Why are heroines ignored on stage platforms in comparison t…,https://twitter.com/Sagarik66458431/status/1074704441117274112,Sun Jul 15 17:44:51 +0000 2018,Sagarik66458431,false,❤❤Biggest fan girl of Katrina kaif❤❤😍😘 💕 i love katrina
kaif more than my self💕,24368,648,115,0,"Assam,India ",Sagarika✨💫🌸,Sagarik66458431,18952,,,false
,Mon Dec 17 17:47:44 +0000 2018,Jesuits priests children churchtoo MeTooMovement MeToo Christians,,https://www.washingtonpost.com/religion/2018/12/17/
jesuits-name-priests-credibly-accused-sexually-abusing-children-including-dc-area/,0,1074722830527295488,,,,en,,false,0,,,"<a href=""http://twitter.com/download/android"" rel=""nofollow"">Twitter for Android</a>","#Jesuits name #priests credibly accused of sexually
abusing children  including in D.C. area

Sick of this crap. 😩😡

#children under attack for decades. 🤦🏻🤦🏻🤦🏻🤦🏻

#churchtoo
#MeTooMovement
#MeToo
#Christians

https://t.co/m36CGD4Znw",https://twitter.com/HillarySi2016/status/1074722830527295488,Sat May 28 05:44:54 +0000 2016,HillarySi2016,false,"#AmericaIsBack🇺🇸



2022 Democratic 🌊wave in D.C. and State Houses. #BuildBackBetter",52020,3295,4353,0,"California, USA",#POTUS46,HillarySi2016,86773,,,false
,Mon Dec 17 12:59:50 +0000 2018,metoomovement,,https://pushviews.com/blog/me-too-movement-in-a-recent-interview-with-the-new-york-times/ https://www.youtube.com/watch?v=-8flZCEq3kU,0,1074650375863586817,,,,en,,false,1,1074385625028194304,PushViews,"<a
href=""http://twitter.com"" rel=""nofollow"">Twitter Web Client</a>","RT @PushViews: https://t.co/0paKky12VA
In a recent interview with The New York Times #metoomovement
https://t.co/mBIJI4Sfki",https://twitter.com/jasmine_clark2/status/1074650375863586817,Sat Oct 20 23:56:30 +0000 2018,jasmine_clark2,false,Support Humanity Fight against sexual harassment & abuse in our Workplace. Support #MeToo,3312,306,670,1,,Jasmine
Clark,jasmine_clark2,2094,,,false
,Mon Dec 17 14:30:15 +0000 2018,MuteRKelly SurvivingRKelly,,,0,1074673131825049600,,,,en,,,33,1074396593305067520,OffMuteRKelly,"<a href=""http://twitter.com/download/android"" rel=""nofollow"">Twitter for Android</a>","RT @OffMuteRKelly: #MuteRKelly - these brave
survivors will not be silenced, and this movement will not be stopped.

#SurvivingRKelly http…",https://twitter.com/SuiteLadyOro/status/1074673131825049600,Sat Sep 17 01:51:03 +0000 2011,SuiteLadyOro,false,She/Her. Sister. Daughter. Lover. Friend. National co-founder of #MuteRKelly. WokeAsFk,37341,4075,410,18,"Atlanta, GA USA",Oronike
Odeleye,SuiteLadyOro,9906,,http://www.muterkelly.org,false
,Mon Dec 17 16:07:28 +0000 2018,KatrinaKaif MeTooMovement MeToo,,https://www.spotboye.com/bollywood/Bollywood-interviews/katrina-kaif-calls-out-why-are-female-actors-ignored-and-only-male-actors-given-importance-on-stage/
5c17b636fed05320d6f24b25,53,1074697594704683008,,,,en,,false,7,,,"<a href=""http://twitter.com"" rel=""nofollow"">Twitter Web Client</a>","Does anybody have an answer to #KatrinaKaif's pertinent question: Why are heroines ignored on stage platforms in comparison to
their male counterparts? 🤷‍♀️🔥

@iamvickeyleaks | @KatrinaKaifFB | @KatKaifDaily | @KatrinaKaifFanz | #MeTooMovement | #MeToo

https://t.co/RWzZ1FOvOH",https://twitter.com/Spotboye/status/1074697594704683008,Tue Jul 01 06:53:24 +0000 2014,Spotboye,false,"Hungry for Bollywood news? SpotboyE is your go-to guy for Sab Kuch Bollywood!

Facebook : https://t.co/XZQuyuBMvA
Instagram : https://t.co/Niv9zcarG9",5212,576043,678,129,Mumbai,SpotboyE,Spotboye,82708,,https://www.spotboye.com/,true
,Mon Dec 17 15:38:16 +0000 2018,MissUniverse MissUniverse2018 Top5 MissUniverseTop5 MissUniverse2018Top5 MissVietnam,,,0,1074690248439939072,,,,en,,,1,1074491433929732096,ylwknitsweater,"<a href=""http://twitter.com"" rel=""nofollow"">Twitter Web Client</a>","RT
@ylwknitsweater: #MissUniverse #MissUniverse2018 #Top5 #MissUniverseTop5 #MissUniverse2018Top5 #MissVietnam ""Do you think the #MeTooMove…",https://twitter.com/jasmine_clark2/status/1074690248439939072,Sat Oct 20 23:56:30 +0000 2018,jasmine_clark2,false,Support
Humanity Fight against sexual harassment & abuse in our Workplace. Support #MeToo,3312,306,670,1,,Jasmine Clark,jasmine_clark2,2094,,,false
,Mon Dec 17 13:56:55 +0000 2018,enough nomore,,http://www.mindfultshirt.com,0,1074664742021664773,,,,en,,false,2,1074549186962575360,MindfulTShirt,"<a href=""http://twitter.com/download/iphone"" rel=""nofollow"">Twitter for iPhone</a>",RT @MindfulTShirt: In like a
Lioness 💥out like a Lamb. The Women's March...Get ready 👉🏾👉🏾👉🏾https://t.co/yWqeu2fi2O  #enough #nomore #nomore…,https://twitter.com/nicochase/status/1074664742021664773,Sun Oct 03 19:36:29 +0000 2010,nicochase,true,,981,13,178,0,,C.R.E.B.,nicochase,1011,,,false
,Mon Dec 17 16:16:15 +0000 2018,,,,0,1074699807585918978,,,,en,,,46,1073062900334379008,barkhatrehan16,"<a href=""https://mobile.twitter.com"" rel=""nofollow"">Twitter Web App</a>",RT @trehan_barkha: Request all men to understand one thing clearly as long they will
keep supporting false allegations the problem will onl…,https://twitter.com/subhrat7/status/1074699807585918978,Tue Oct 09 14:51:36 +0000 2018,subhrat7,false,,1601,12,13,0,India,subhrat,subhrat7,2060,,,false
,Mon Dec 17 15:43:46 +0000 2018,MeToo MeTooIndia MeTooLiars MeToo4Publicity Feminazis,,,0,1074691630798524417,,,,en,,,24,1070744122795806720,Misandry_Kills,"<a href=""http://twitter.com/download/android"" rel=""nofollow"">Twitter for Android</a>","RT
@Misandry_Kills: #MeToo

#MeTooIndia

#MeTooLiars

#MeToo4Publicity
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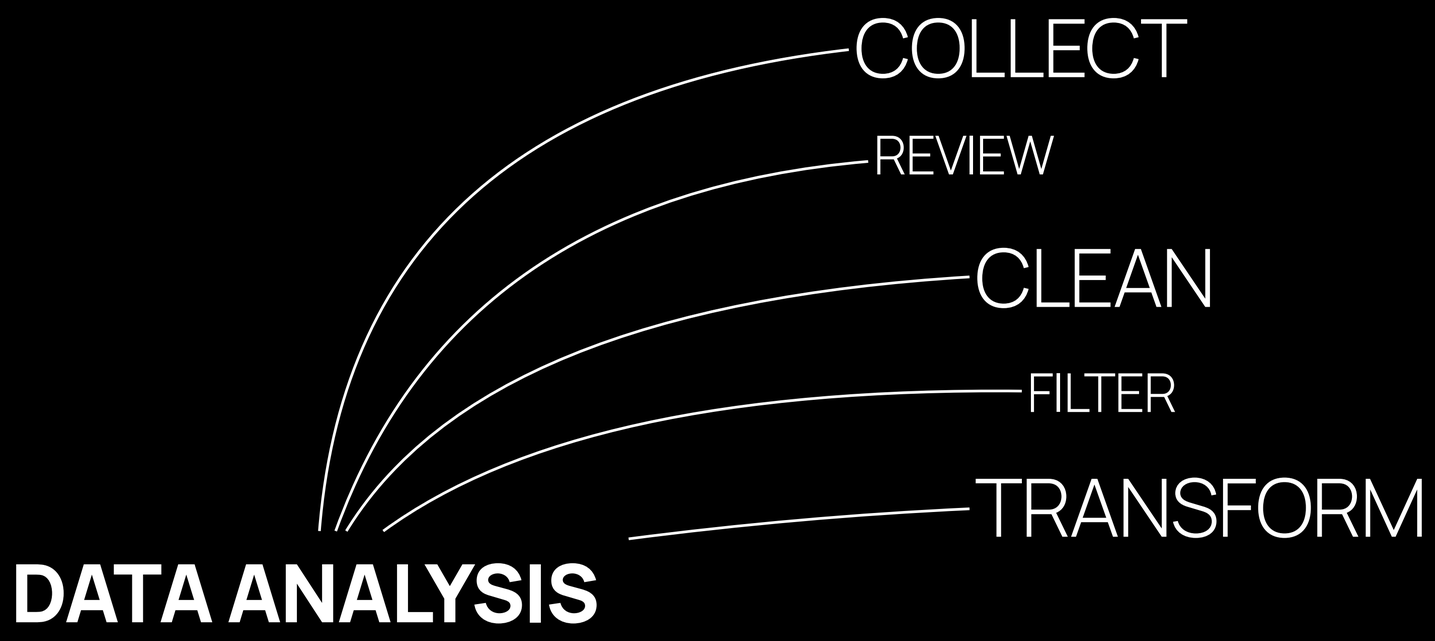
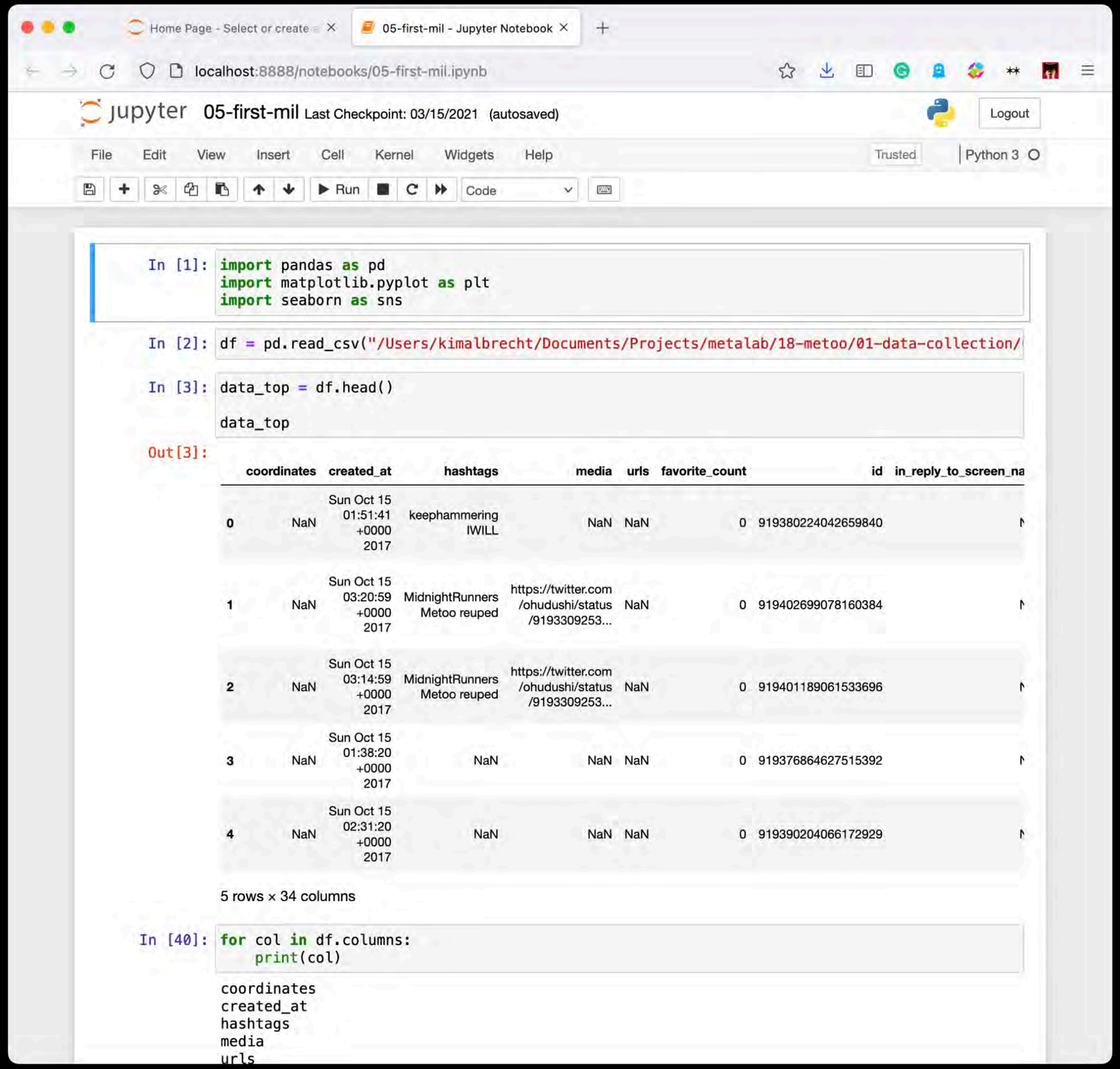

COLLECT
REVIEW
CLEAN
FILTER
TRANSFORM
DATA ANALYSIS

EXAMPLE
CLEAN
FILTER



EXAMPLE
TRANSFORM
INVESTIGATE

Home Page - Select or create a | 04-working-with-random-mil-tv | 05-first-mil - Jupyter Notebook

localhost:8888/notebooks/04-working-with-random-mil-tweets.ipynb

jupyter 04-working-with-random-mil-tweets Last Checkpoint: 07/20/2021 (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

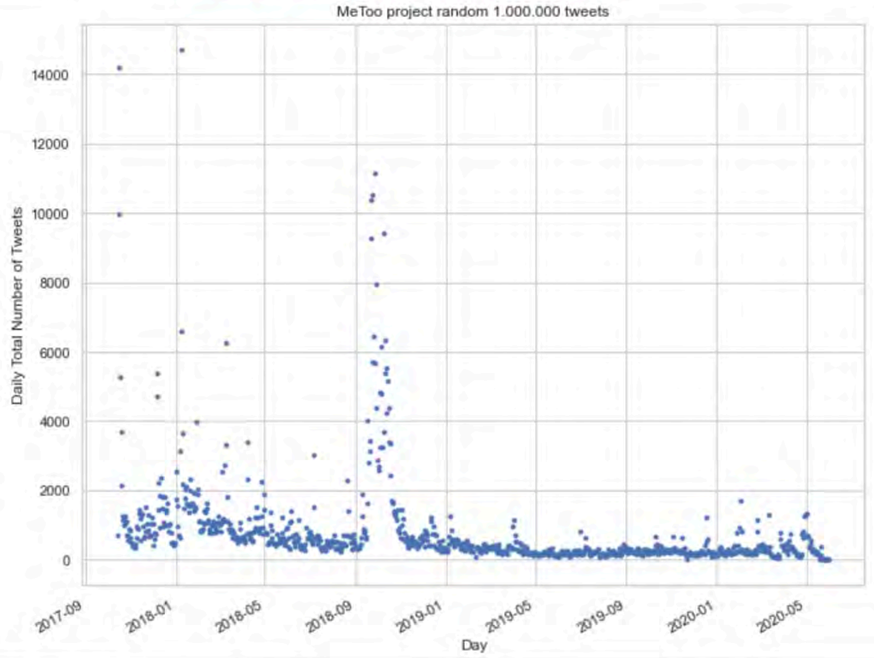
```
2020-05-29        4
2020-05-30        4
2020-05-31        1
Name: created_at, Length: 955, dtype: int64
```

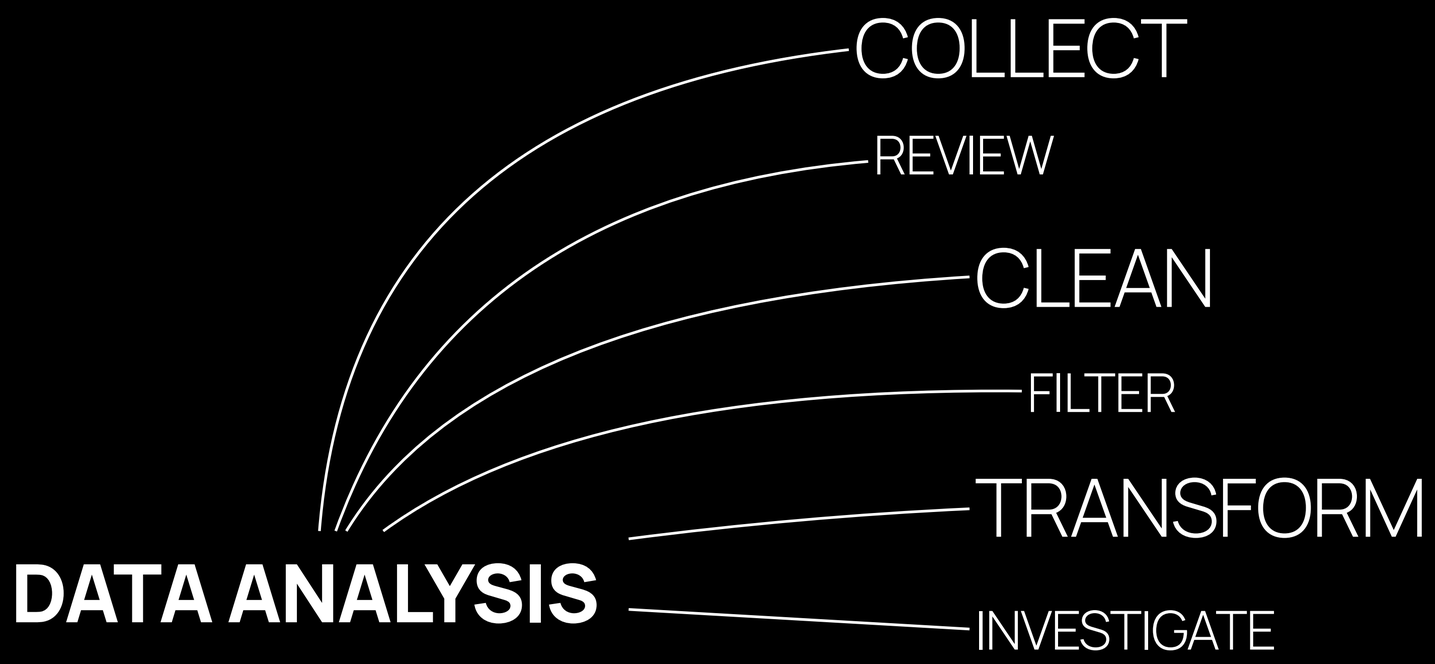
In [32]:
```
#Seaborn Visualization

sns.set(rc={'figure.figsize':(50, 20)})
sns.set_theme(style="whitegrid")

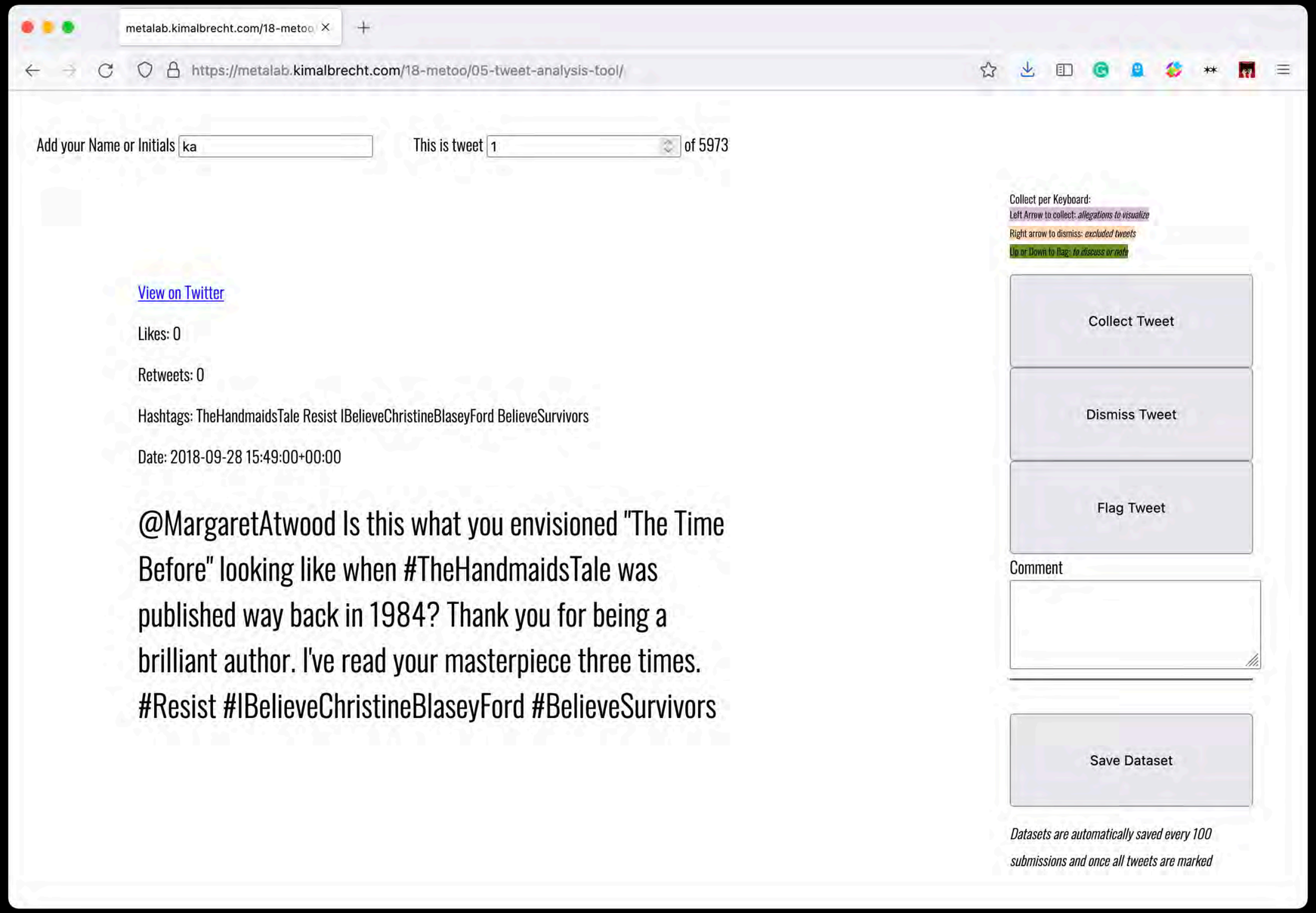
days = df['created_at'].dt.date.value_counts().sort_index()

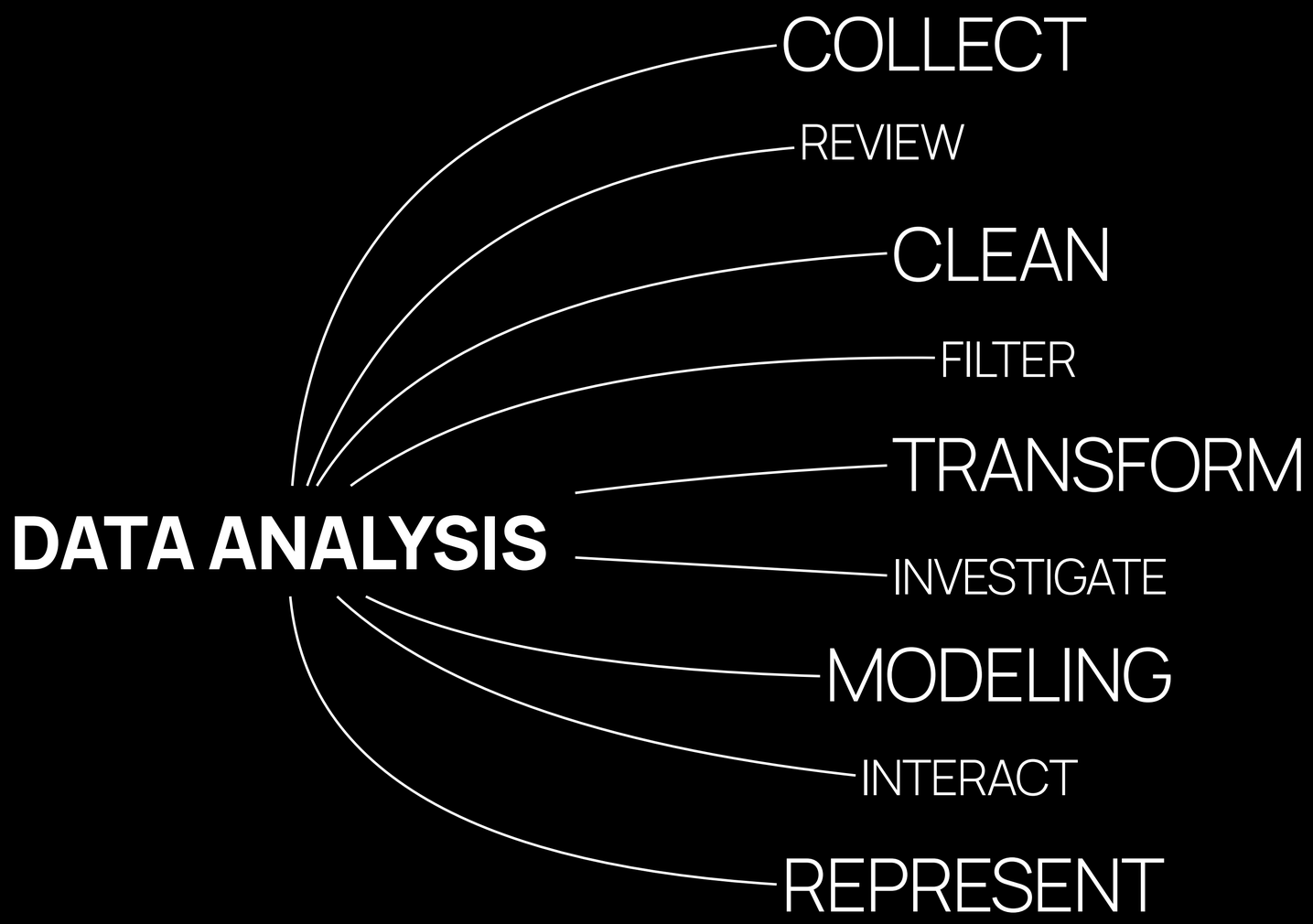
plot = days.plot(marker='.', alpha=1.0, linestyle='None', figsize=(11, 9), subplots=True)
for ax in plot:
    ax.set_ylabel('Daily Total Number of Tweets')
    ax.set_xlabel('Day')
    ax.set_title('MeToo project random 1.000.000 tweets')
```

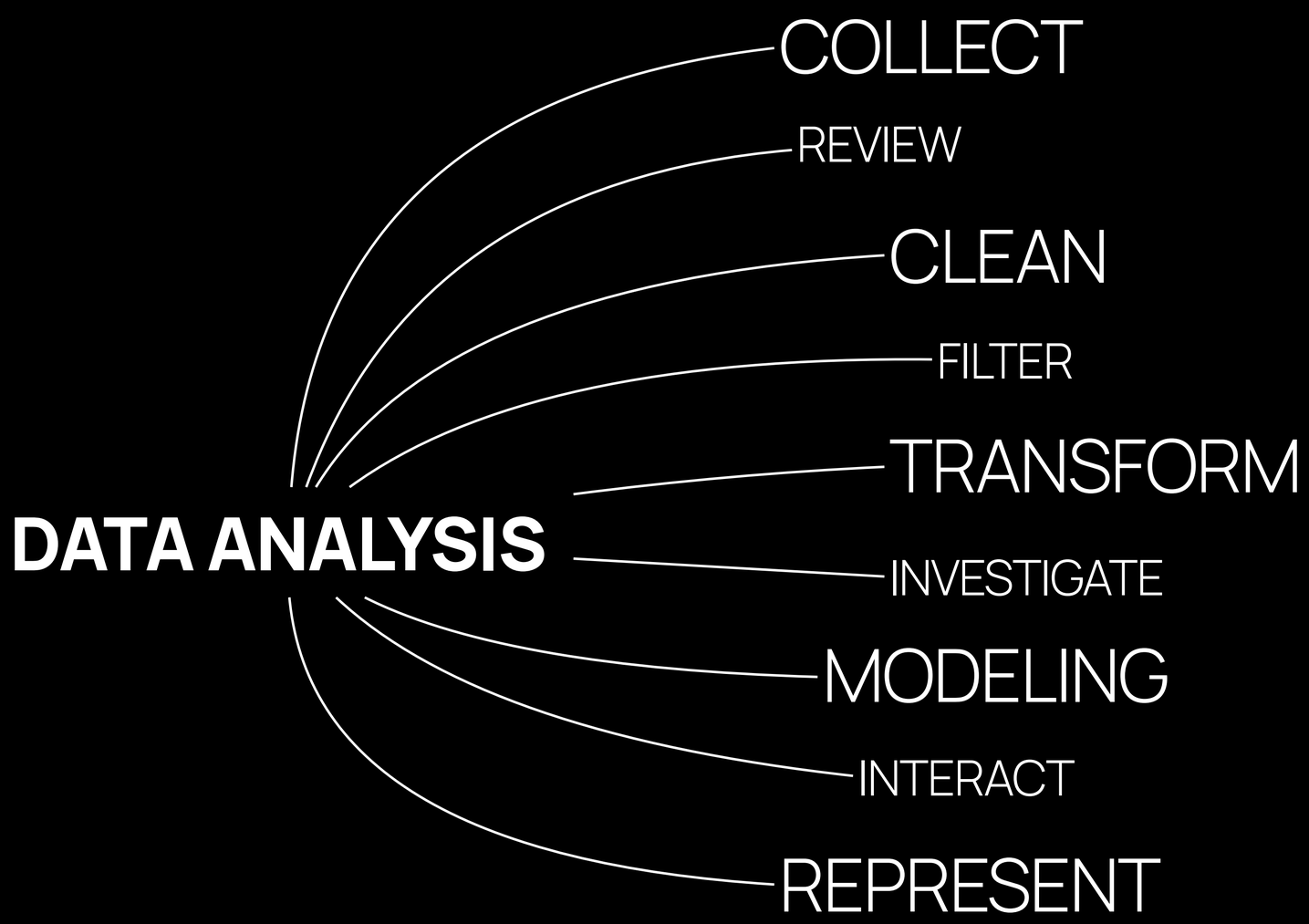



COLLECT
REVIEW
CLEAN
FILTER
TRANSFORM
DATA ANALYSIS
INVESTIGATE

EXAMPLE
ANALYSIS INTERACTION




COLLECT
REVIEW
CLEAN
FILTER
TRANSFORM
DATA ANALYSIS
INVESTIGATE
MODELING
INTERACT
REPRESENT



"DIGITAL" HUMANITIES

NATURAL SCIENCES

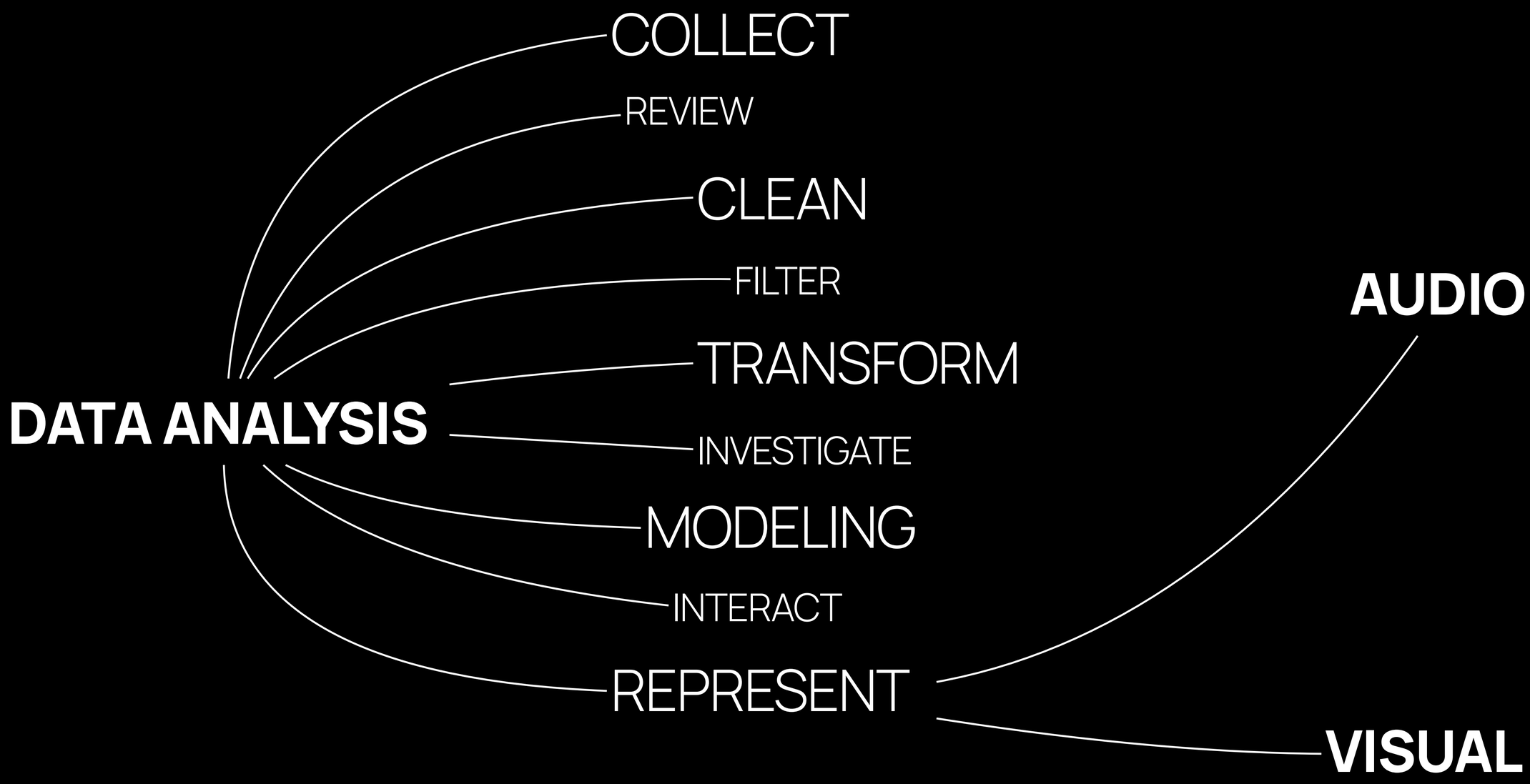
SOCIAL SCIENCE

ECONOMY

JOURNALISM

DESIGN

ART


COLLECT
REVIEW
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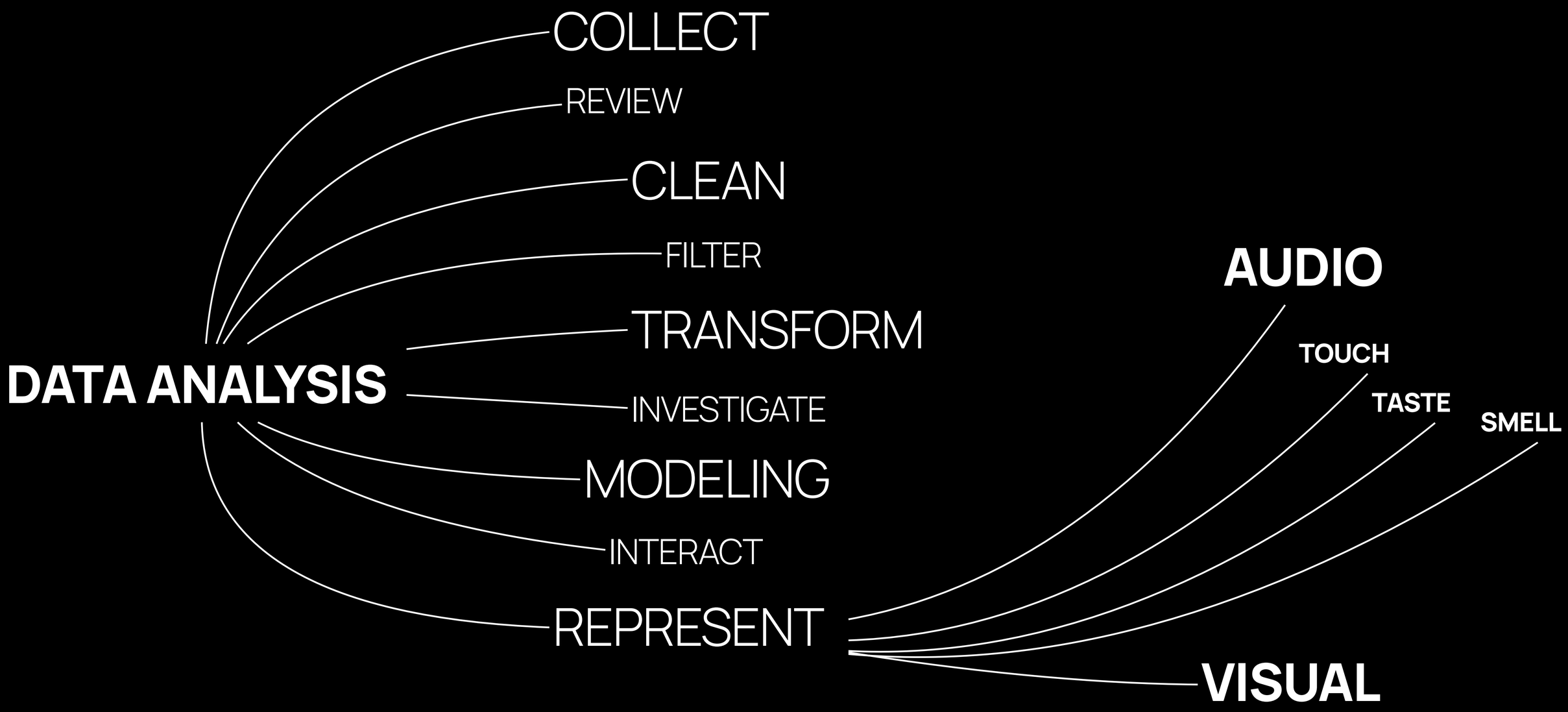
TRANSFORM
DATA ANALYSIS
INVESTIGATE
MODELING
INTERACT
REPRESENT
AUDIO
VISUAL


COLLECT
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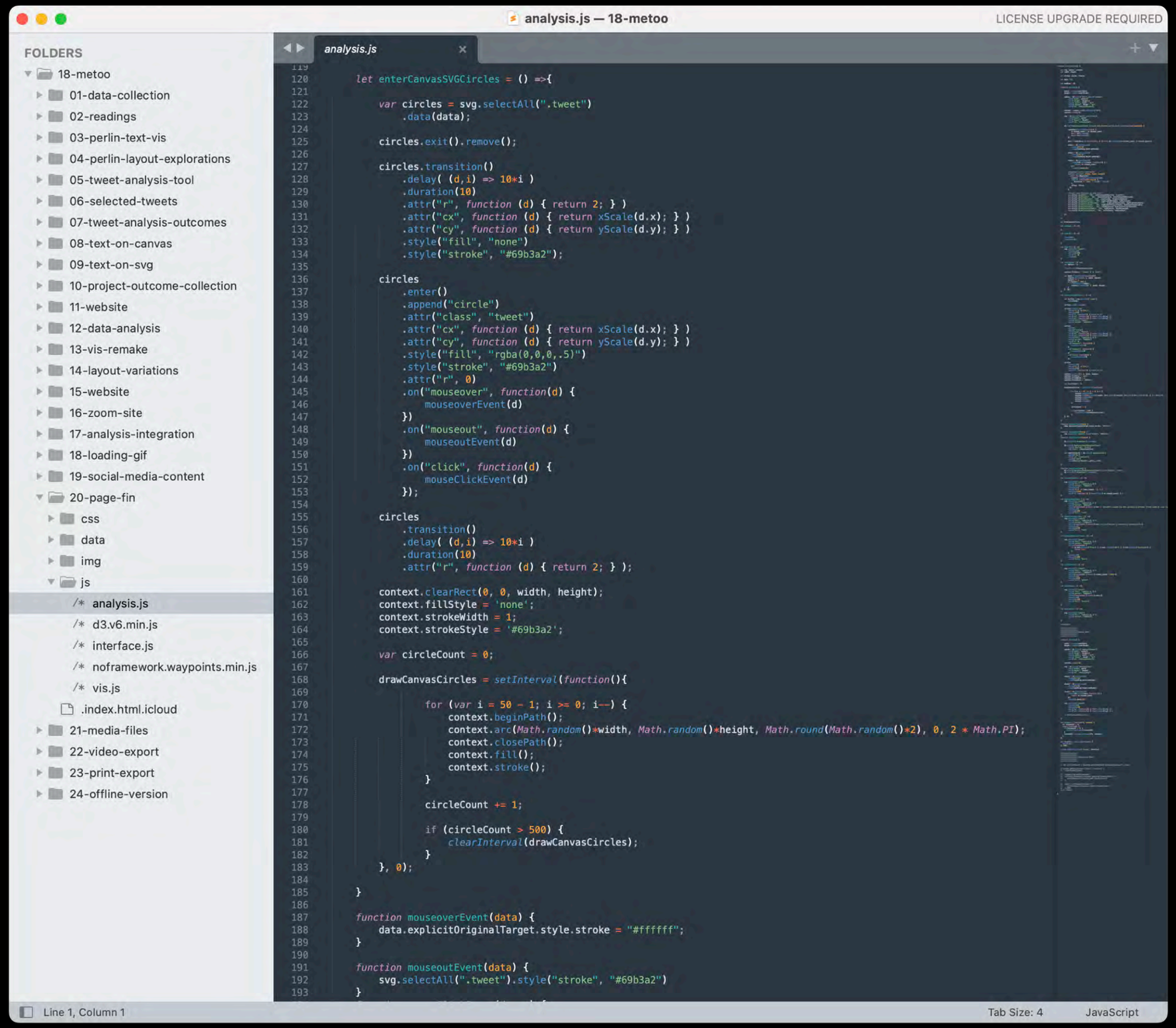
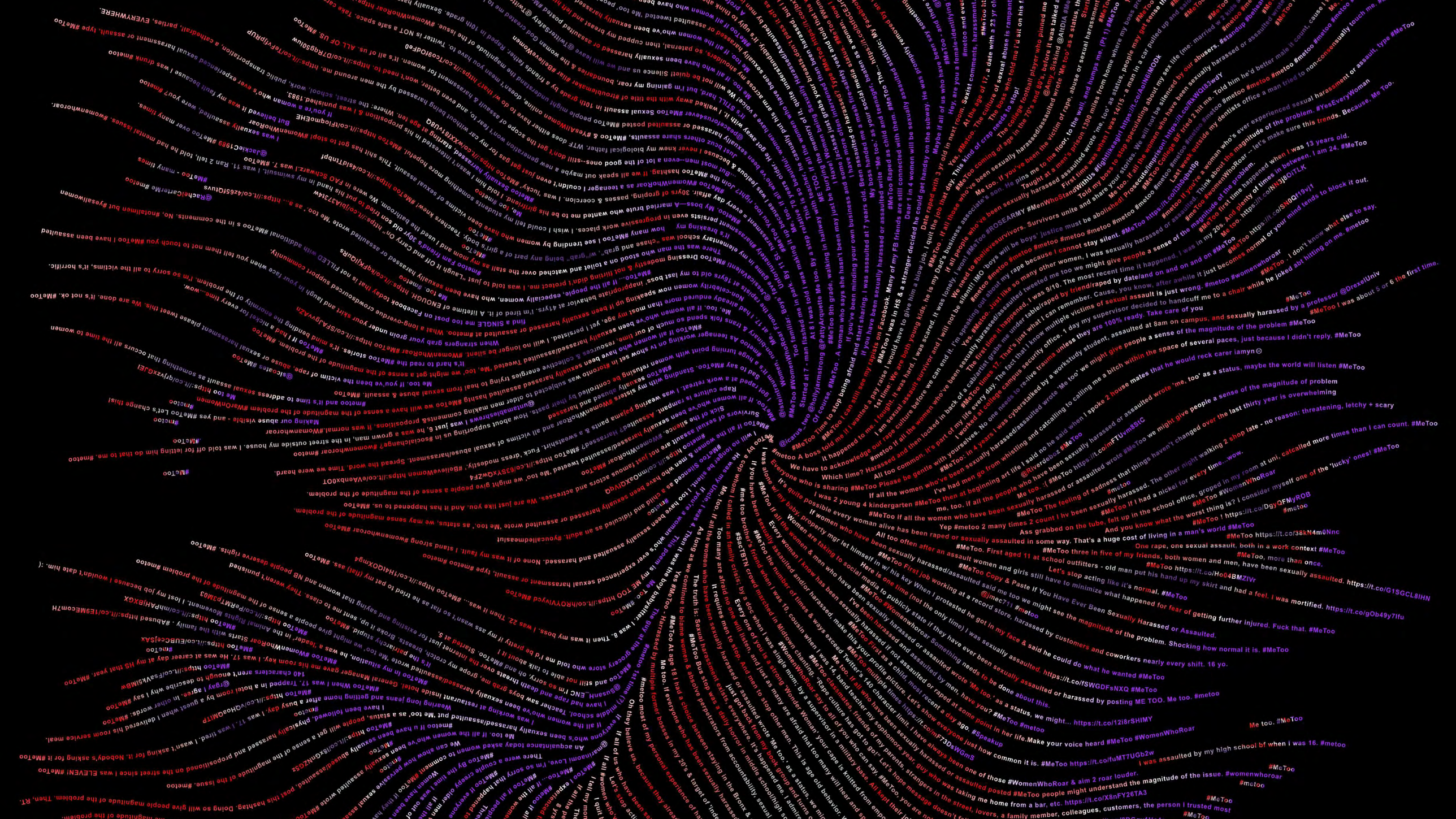
FILTER
TRANSFORM
DATA ANALYSIS
INVESTIGATE
MODELING
INTERACT
REPRESENT
AUDIO
TOUCH
TASTE
SMELL
VISUAL


analysis.js — 18-metoo
LICENSE UPGRADE REQUIRED
FOLDERS
18-metoo
01-data-collection
02-readings
03-perlin-text-vis
04-perlin-layout-explorations
05-tweet-analysis-tool
06-selected-tweets
07-tweet-analysis-outcomes
08-text-on-canvas
09-text-on-svg
10-project-outcome-collection
11-website
12-data-analysis
13-vis-remake
14-layout-variations
15-website
16-zoom-site
17-analysis-integration
18-loading-gif
19-social-media-content
20-page-fin
css
data
img
js
analysis.js
d3.v6.min.js
interface.js
noframework.waypoints.min.js
vis.js
.index.html.icloud
21-media-files
22-video-export
23-print-export
24-offline-version
analysis.js
let enterCanvasSVGCircles = () =>{
var circles = svg.selectAll(".tweet")
.data(data);
circles.exit().remove();
circles.transition()
.delay((d,i) => 10*i)
.duration(10)
.attr("r", function (d) { return 2; })
.attr("cx", function (d) { return xScale(d.x); })
.attr("cy", function (d) { return yScale(d.y); })
.style("fill", "none")
.style("stroke", "#69b3a2");
circles
.enter()
.append("circle")
.attr("class", "tweet")
.attr("cx", function (d) { return xScale(d.x); })
.attr("cy", function (d) { return yScale(d.y); })
.style("fill", "rgba(0,0,0,.5)")
.style("stroke", "#69b3a2")
.attr("r", 0)
.on("mouseover", function(d) {
mouseoverEvent(d)
})
.on("mouseout", function(d) {
mouseoutEvent(d)
})
.on("click", function(d) {
mouseClickEvent(d)
});
circles
.transition()
.delay((d,i) => 10*i)
.duration(10)
.attr("r", function (d) { return 2; });
context.clearRect(0, 0, width, height);
context.fillStyle = 'none';
context.strokeWidth = 1;
context.strokeStyle = '#69b3a2';
var circleCount = 0;
drawCanvasCircles = setInterval(function(){
for (var i = 50 - 1; i >= 0; i--) {
context.beginPath();
context.arc(Math.random()*width, Math.random()*height, Math.round(Math.random()*2), 0, 2 * Math.PI);
context.closePath();
context.fill();
context.stroke();
}
circleCount += 1;
if (circleCount > 500) {
clearInterval(drawCanvasCircles);
}
}, 0);
}
function mouseoverEvent(data) {
data.explicitOriginalTarget.style.stroke = "#ffffff";
}
function mouseoutEvent(data) {
svg.selectAll(".tweet").style("stroke", "#69b3a2")
}
Line 1, Column 1
Tab Size: 4
JavaScript

EXAMPLE
REPRESENT

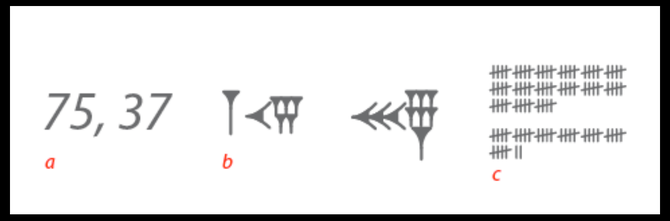


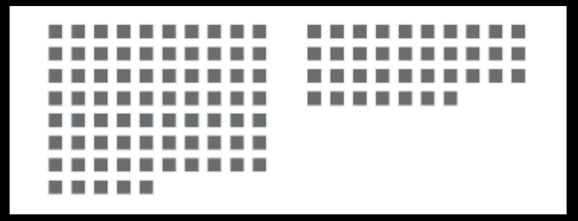
VISUALIZATION ("PICTORIALIZATION")

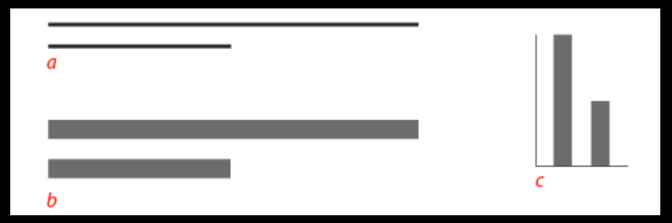
Visualizes two numbers:

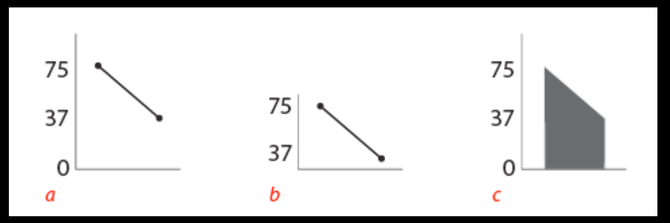
75 and 37

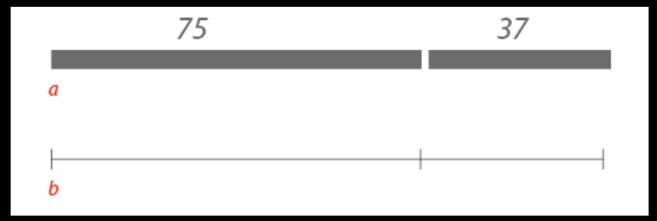
VISUALIZATION ("PICTORIALIZATION")

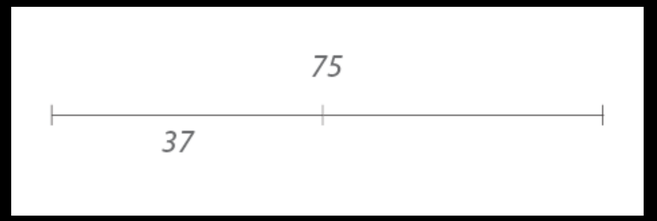


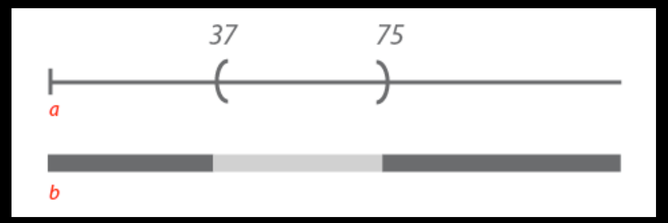


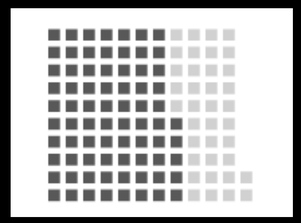


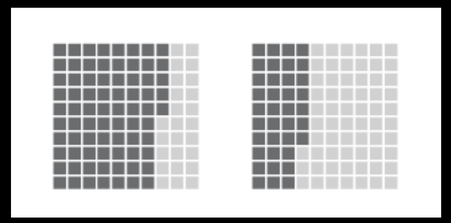


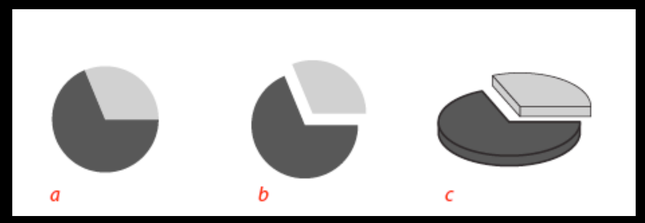


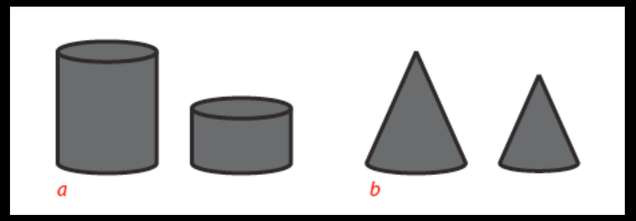


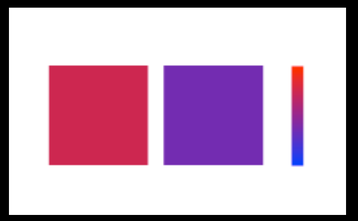


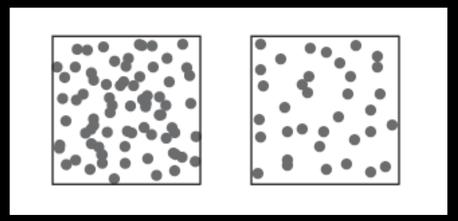




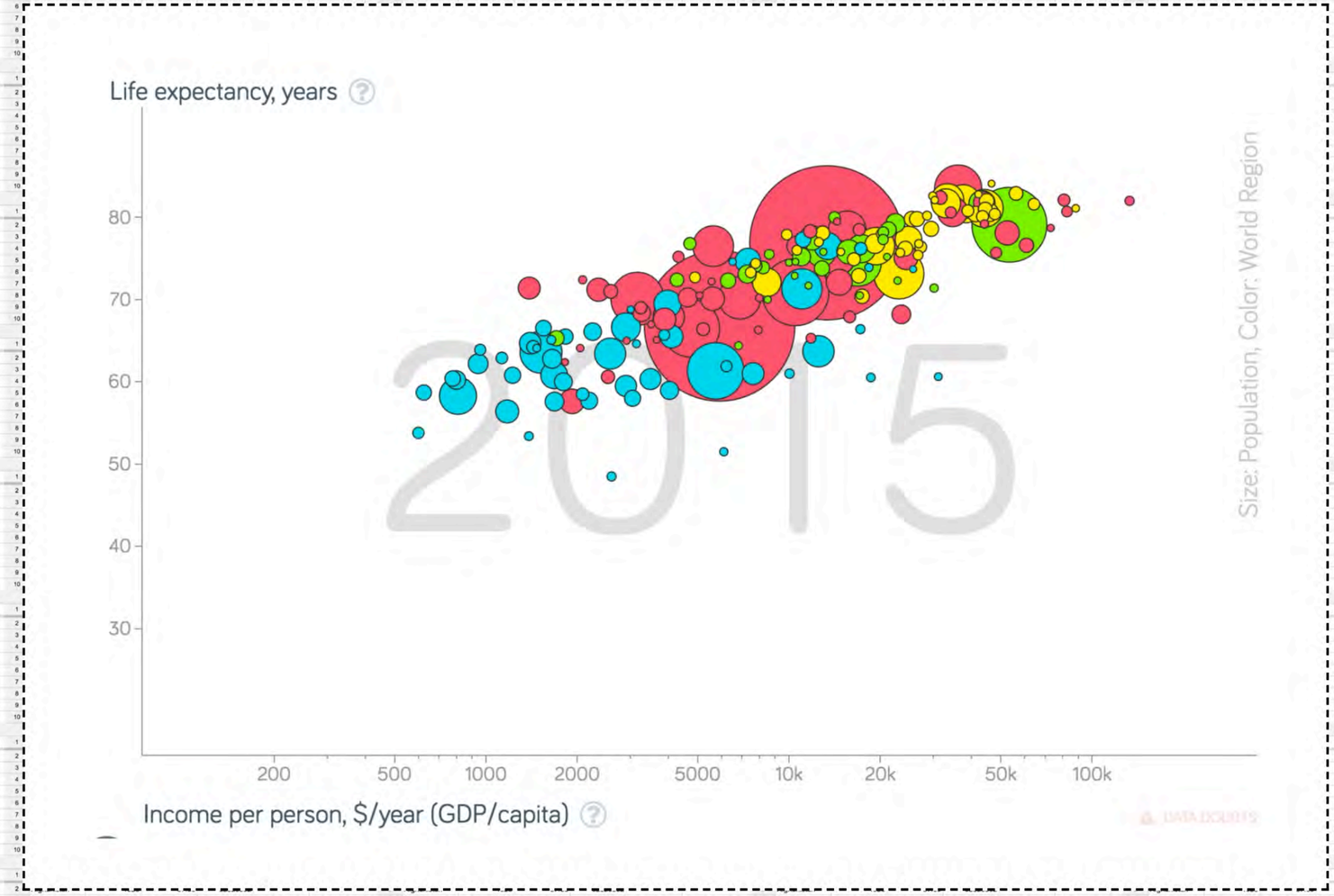








https://rockcontent.com/blog/45-ways-to-communicate-two-quantities/



Source: https://lisacharlotterost.de/2016/05/17/one-chart-tools/
https://lisacharlotterost.de/2016/05/17/one-chart-code/

TOOLS

Web Apps

- RAW Graphs: [https://www.rawgraphs.io/]
- Data Wrapper: [https://www.datawrapper.de/]

Software

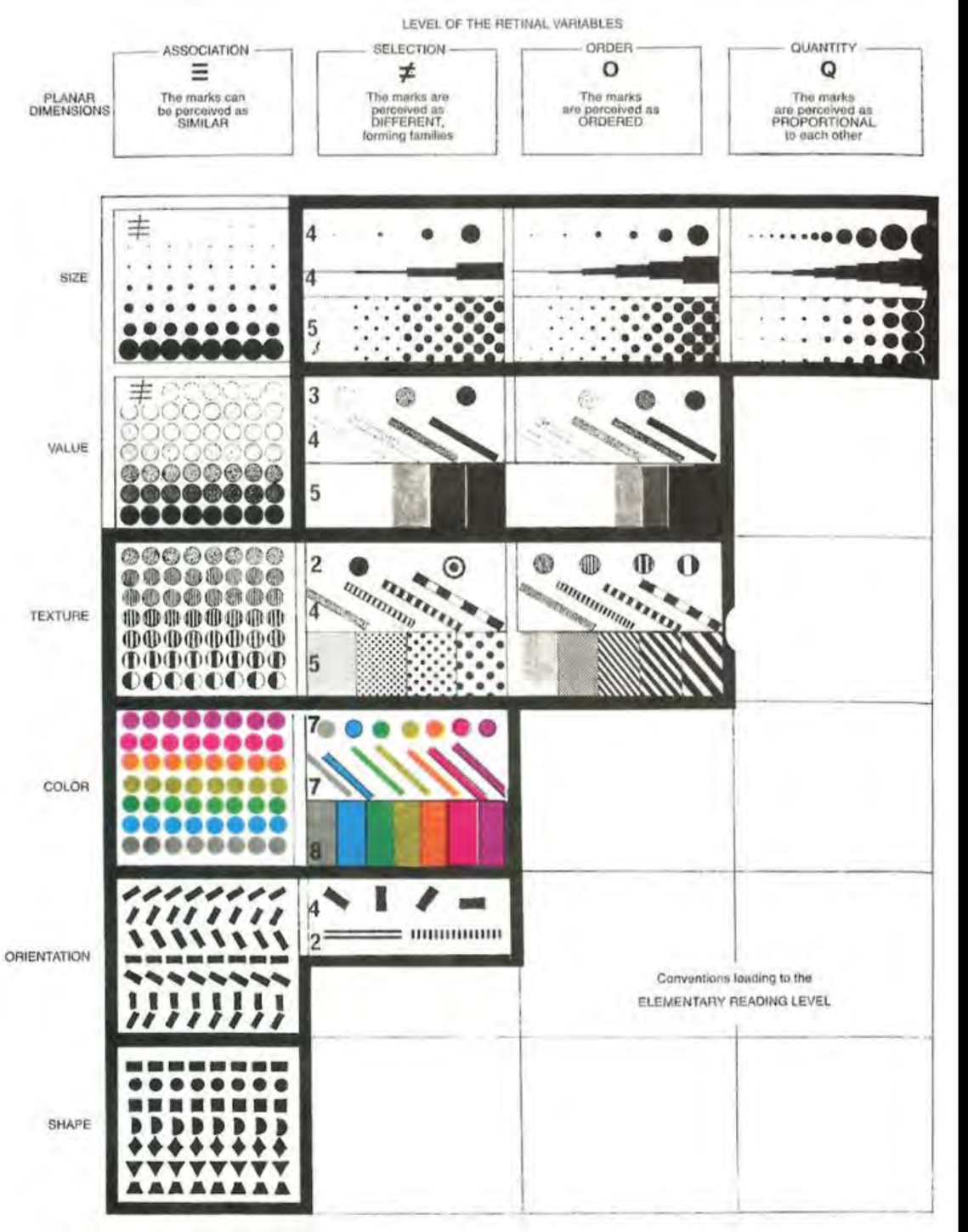
- Tableau: [https://www.tableau.com/]
- Gephi: [https://gephi.org/]

Code

- D3.js: [https://d3js.org/]
- Sigma.js: [https://www.sigmajs.org/]
- Three.js: [https://threejs.org/]

Data Processing

- OpenRefine: [https://openrefine.org/]
- iPython Notebooks (Pandas etc.): [https://pandas.pydata.org/]



Bertin, J. & Berg, W. J. (2011). Semiology of Graphics. Esri Press.

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