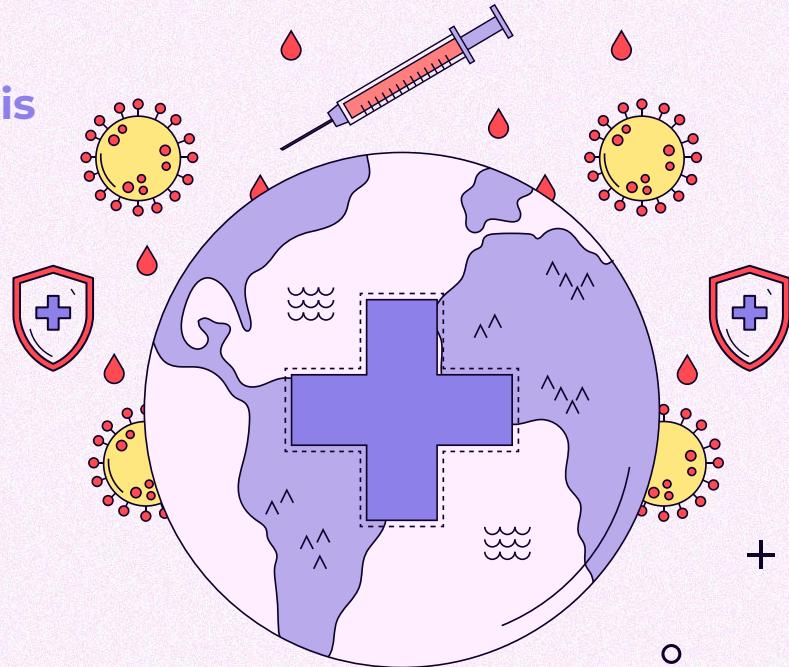


What people say about Dr. Robert Malone?

– NLP And Unsupervised Learning Analysis

By Kristy Yang



Introduction

Problem Trigger:

Dr. malone's Controversial remarks about covid-19 vaccine caused debate.

Problem to Solve:

- ❖ Who?
- ❖ What?
- ❖ How?



OUR METHODOLOGY

01



Collect Data

- ❖ Tweepy API;
- ❖ Key Word: "Dr Malone"
- ❖ "Robert Malone"
- ❖ Data size: 20K+ tweets and self_descriptions

02



EDA & Preprocessing

- ❖ Cleaning
- ❖ Preprocessing
 - > Spacy
 - > Regular expression

03



Sentiment Analysis

- ❖ VADER
- ❖ ScatterText
- ❖ Word Clouds

04



Topic Modeling

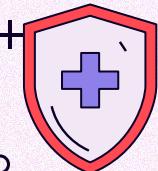
- ❖ Vectorization
- ❖ NMF
- ❖ Clustering

05

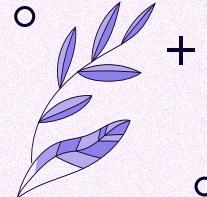


Visualization

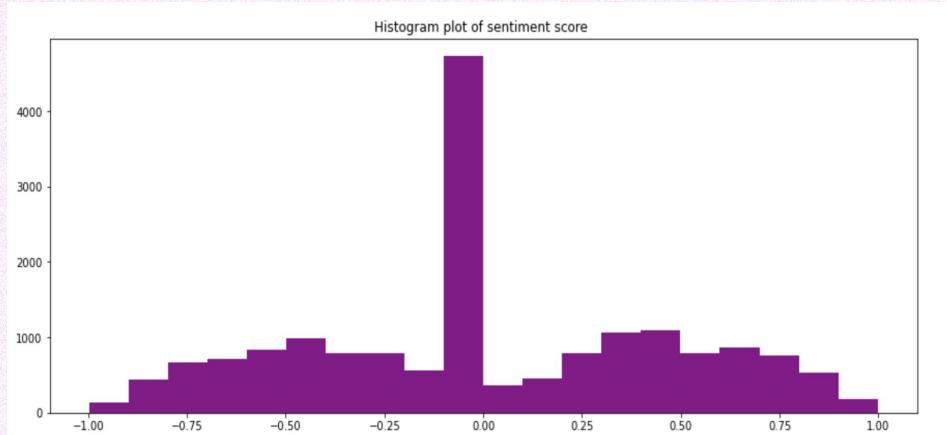
- ❖ TSNE
- ❖ GridPlot



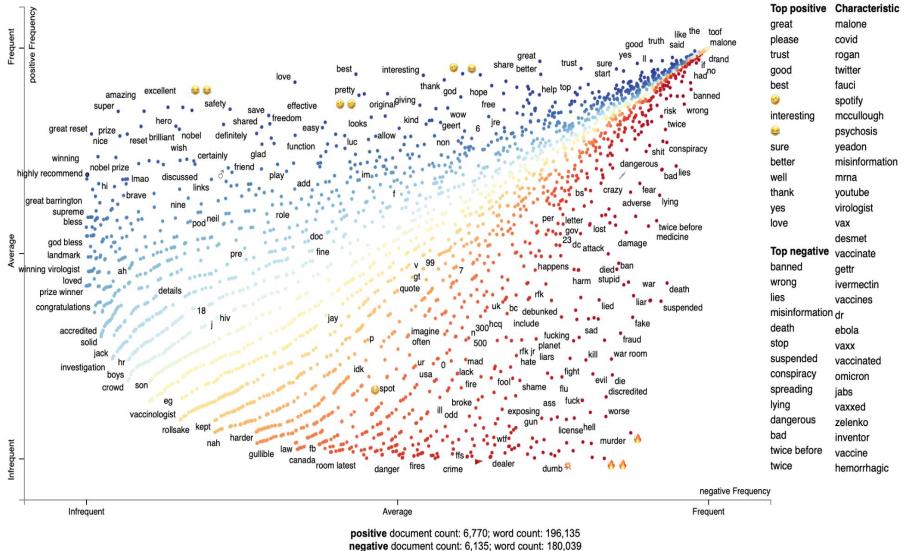
Who are talking about Dr. Malone?



A peek of people's attitude

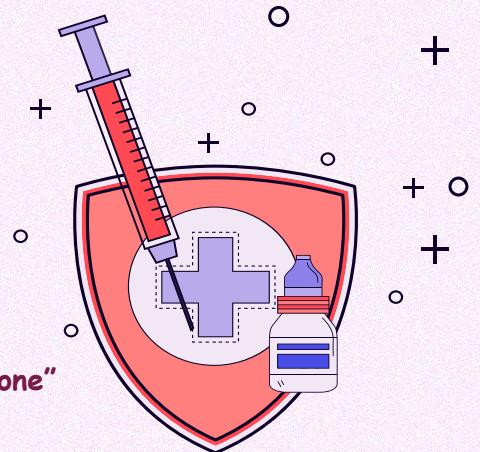


ScatterText of negative and positive opinions



Words specifically for “Malone”

Parse with spacy



different well interesting key critical symptoms dr credible
maybe bad talented unethic
old new yet controversial brilliant
full wrong anti ahead powerful
leaky banni recent much vaxxing
regular disgruntled back bigger
listener free dear innocent published e
specifically first amazing jewish
dr fake censured alternative vaccinated next
correct issues robert acclaimed researcher renowned
great unfortunately debunk maccoughly worth
unfortunate debunked respected godr loud honest
lying viral infamous vaccine
ie mcu1ough
apparently
fair
real
debut
debut
unscientific
obviously
instrumental
recently virologist
banned
discredited
disgraced
favoured
silenced
dr
acting
dr
btw
especially
right
important
license
called
courageous
politcal

Sample tweets :

sample of tweets hold positive attitue:

0 13661 : i don't care what "psychology experts say"; i've seen it with my own eyes, although until the amazing dr . malone introduced this new terminology, i always just referred to it as mass hysteria. mass formation psychosis s ounds way cooler so i'm going to continue using that.

1 17297 : masterful dismantling of the claims of the good dr. malone by that a huge number of good and reasonable p eople have fallen for

2 17081 : the great robert malone

3 11863 : free robert malone. research mattias desmet. the media is the virus!

4 5135 : well the great dr. malone didn't have much 'free speech', did he?

sample of tweets hold negative attitue:

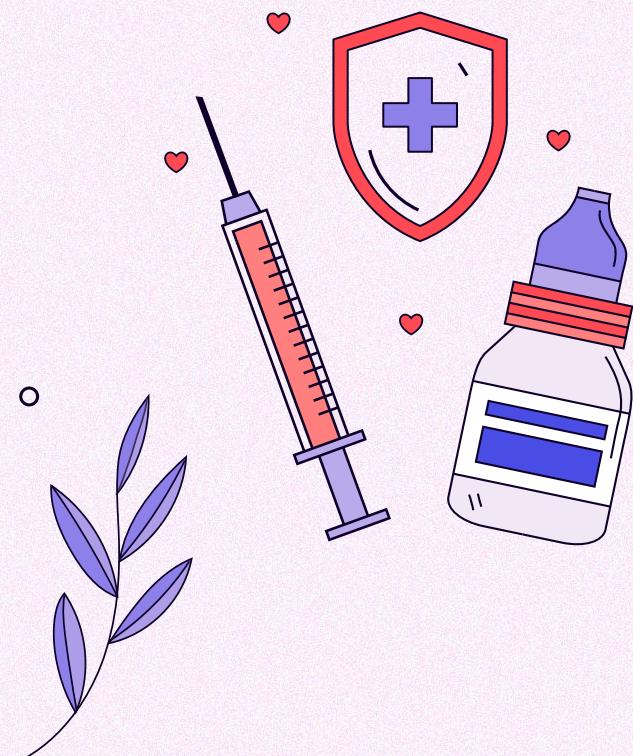
0 15349 : but this is not related to medicine but mass formation psychosis. no safety study by pfizer on vax in co vid +ve. with the constant pressure to vax as though it is a measure of safety is dangerous robert malone and mccul lough need listening to but now silenced on soc media

1 2363 : yes, that's true. it's time to start finding solutions for those most vulnerable. however it would be a h uge mistake to trust the same people who created this situation. especially fauci and unfortunately even dr malone who more or less repeats the same dogma, with variations.

2 1758 : rogan's ratings soared after his interview with lying robert malone. he's making big money riding the ant ivax wave.many are capitalizing on this now. antivax king, joe mercola is has his "experts": malone and peter mccul lough. many will lie to make money.

3 15515 : also you tagged the wrong robert malone. his account got suspended for spreading misinformation.

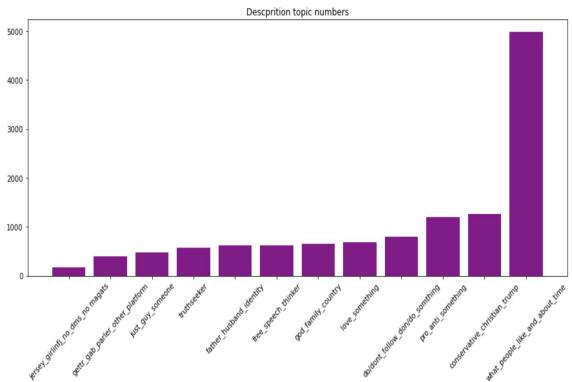
4 16126 : it's too bad dr. malone of mrna fame went on alex jones right after rogan. he says this covid thing is " mass psychosis" but imo it's absolutely class warfare on life itself. all done by a propaganda machine the power of which is extraordinary.



Topic Modeling For User Self Description:

12 Topics

- {0: 'conservative_christian_trump',
- 1: 'just_guy_someone',
- 2: 'truthseeker',
- 3: 'god_family_country',
- 4: 'getattr_gab_parler_other_platform',
- 5: 'jersey_girlinfj_no_dms_no_magats',
- 6: 'pro_anti_something',
- 7: 'father_husband_identity',
- 8: 'free_speech_thinker',
- 9: 'love_something',
- 10: 'do/dont_follow_don/do_somthing',
- 11: 'what_people_like_and_about_time'}



Sample descriptions

Topic number 5 :jersey_girlinfj_no_dms_no_magats

Top words are proud, dms, jersey_girlinfj, proud jersey, magats, girlinfj, girlinfj dms, dms magats, jersey, proud american, american, proud father, proud conservative, trains, canadian, proud supporter, awake proud, i fish awake, proud jersey_girlinfj no dms; no magats
0 : proud jersey_girlinfj no dms; no magats
1 : proud jersey_girlinfj no dms; no magats

Topic number 4 :getattr_gab_parler_other_platform

Top words are getattr, gab, parler, follow, telegram, twitter, getattr gab, username, follow getattr, gab getattr, getr username, pronouns, getattr parler, retired, handle, moving getattr, parler getattr, moving, politically, shots
0 : getattr: trish501
1 : getattr: jenna70101

Topic number 3 :just_guy_someone

Top words are just, guy, just guy, trying, just like, just trying, special, want, just banter, banter, make, person, simple, just want, stand, makes, just average, news, trying make, average
0 : just here for the trollino
1 : just haking a chaynik

Topic number 2 :truthseeker

Top words are truth, seeker, truth seeker, seeker truth, set free, set, truth set, truth truth, justice, speak hunter, does, patriot, speak truth, truth hunter, seekin, patriot, seeking, like truth, lies, truth justice
0 : true seeker
1 : truth seeker, muckraker.

Topic number 7 :father_husband_identity

Top words are father, husband, husband father, father husband, christian, fan, christian husband, dad, son, father patriot, veteran, father son, husband dad, grandfather, father grandfather, engineer, enthusiast, christian father, coach, sports
0 : husband, father and patriot
1 : husband, father and patriot

Topic number 8 :free_speech_thinker

Top words are free, thinker, free thinker, speech, free speech, freedom, person, free person, independent, set free, live, die, freedom free, truth set, live free, die, libertarian, free die, thinking, critical
0 : i'm a free thinker
1 : free thinker

Topic number 3 :god_family_country

Top words are god, family, country, god family, family country, love god, god country, bless, god bless, america, country family, bless america, loves, man, grace, lord, right, friends, patriot, family friends
0 : love god, family & country.
1 : i love god, my family, my country and i am not going to apologize for any of it!

Topic number 9 :love_something

Top words are love, music, love country, love god, love family, brandon, hate, dogs, country, kids, animals, wife, love freedom, love life, thing, freedom, family, let, jesus, love animals
0 : not the chromosom you were looking for. 🇺🇸🇺🇸🇺🇸 iko iko, namaste, love.
1 : 🇺🇸🇺🇸president trump 🇺🇸🇺🇸🙏 love our country love our patriots love president trump! family i love being a grandmother!

Topic number 10 :do/dont_follow_don/do_somthing

Top words are don, follow, know, don, know, ll, think, care, don follow, believe, don care, want, seriously, do or like, do believe, need, tweets, do think, going, cis, won
0 : i think apples chirp, don't they?
1 : you don't know

Topic number 6 :pro_anti_something

Top words are life, pro, anti, freedom, pro life, choice, lover, living, pro freedom, pro choice, life pro, liberty, medical, things, vaccine, science, way, retired, covid, animal
0 : live your life the way you feel fit and treat people with respect and you just may shock yourself at the response you will get,pro life pro choice. anti mandate
1 : pro freedom, anti lockdown, anti mandate, pro choice,

Topic number 0 :conservative_christian_trump

Top words are conservative, christian, trump, patriot, mom, america, wife, proud, american, supporter, maga, christian conservative, conservative christian, trump supporter, mother, president, retired, lover, jesus, won
0 : christian conservative, verbuna domini manet in aeternum.america first. trump won. ohio buckeye.
1 : 🇺🇸🇺🇸, maga, conservative, ★★★

Topic number 11 :what_people_like_and_about_time

Top words are like, time, world, people, twitter, new, human, right, good, news, make, politics, account, things, music, man, crypto, seize, want, better
0 : not conformed to this world
1 : people incapable of guilt usually do have a good time.

Topic Modeling For Tweets:

Sample Tweets

15
Topic number 6 :**veritas_project_premeditated_manslaughter**
Top words are: veritas, project, premeditated, manslaughter, highest, premeditated, manslaughter, h
ighest levels, levels, manslaughter millions, millions, coordinated, millions people, coordinated highest, wolf, p
eople coordinated, naomi, naomi wolf, bombshell, people

0 : premeditated manslaughter of millions of people coordinated at the highest levels naomi wolf and dr malone re
spond to project veritas bombshell video wtf.
1 : premeditated manslaughter of millions of people coordinated at the highest levels naomi wolf and dr malone re
spond to project veritas bombshell video ..unbelievable

Topic number 3 :**china_spread_hemorrhagic_fever_virus**
Top words are: china, virus, ebola, hemorrhagic, fever, ebola like, like hemorrhagic, fever virus
s, spreading, spreading china, disease, disease spreading, latest, china ebola, latest disease, like, malone late
s, war room, room
0 : china china dr malone fires off warning shot on the war room latest disease spreading across china an ebola l
ike hemorrhagic fever virus video.
1 : jack posobiec dr malone said the latest disease spreading across china an ebola like hemorrhagic fever virus

Topic number 10 :**about_what_malone_said**
Top words are said, malone said, said, joe, said rogan, true, believe, pepcid, omicron, said true, said mass, ago,
exactly, got, month, said dr, thing, said got, wrong, ovaries, created
0 : dr malone said it on joe rogan
1 : but joe rogan and malone said so

Topic number 2 :**inventor_of_mrna_malone**
Top words are: inventor, inventor mrna, mrna, malone inventor, technology, vaccines, mrna technology, mrna vaccines
, mrna vaccine, tech, mrna tech, vax, mrna inventor, vaccine technology, technology dr, rna, malone mrna, vaccinat
ion, scientists, children
0 : malone inventor of mrna vaccines do not give them to your kids december 16th 20212lby
1 : facts from dr malone inventor of mrna technology

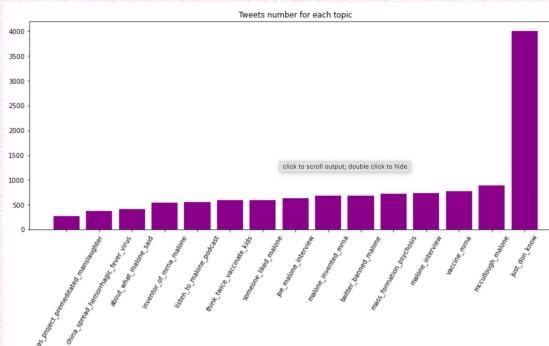
Topic number 9 :**listen_to_malone_podcast**
Top words are: listen, listen dr, podcast, listen joe, podcast dr, say, listen malone, did listen, malone podcast,
rogan podcast, listen podcast, need listen, malone listen, episode, want, children, doctor, need, malone say, don
listen
0 : also listen to the dr malone episode too
1 : listen to dr malone on joe rogan s podcast

Topic number 8 :**think_twice_vaccinate_kids**
Top words are covid, think, 19, covid 19, kids, twice, think twice, parents, vaccinate, vaccinate kids, twice vac
cinate, warns parents, warns, malone warns, kids dr, parents covid, shots, 19 shots, children, vaccines
0 : parents think twice 'think twice before you vaccinate your kids' dr malone warns parents on covid 19 shots
1 : new post 'think twice before you vaccinate your kids' dr malone warns parents on covid 19 shots

Topic number 5 :**someone_liked_malone**
Top words are like, like dr, people, people like, like malone, experts, looks, looks like, just like, experts like
, yeadon, mike, mike yeadon, mean, scientists, scientists like, mean like, don like, malone like, real
0 : exactly like dr malone said
1 : it s almost like they can t hear it like they truly are hypnotized under a mass formation psychosis like dr m
alone talked about

Topic number 6 :**joe_malone_interview**
Top words are: rogan, joe, joe rogan, podcast, rogan dr, rogan podcast, malone joe, podcast dr, spotify, watch, rog
an interview, rogan experience, watch joe, rogan malone, experience, listen joe, interview joe, malone podcast, li
stening, listening
0 : watch joe rogan dr malone show
1 : have you listened to the dr malone on the joe rogan podcast

Topic number 11 :**malone_invented_mrna**
Top words are invented, invented mrna, mrna, malone invented, technology, mrna technology, vaccines, mrna vaccines
, guy, invent, guy invented, invent mrna, used, claims, malone guy, did, didn, technology used, creator, tech
0 : i see you also believe that malone invented mrna
1 : dr malone invented the mrna technology used in the vaccines..you freaking liars



15 Topics for tweets:

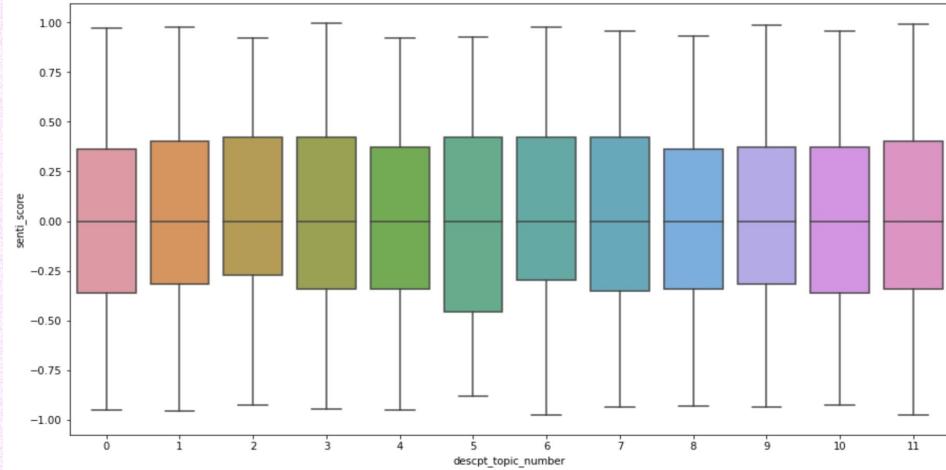
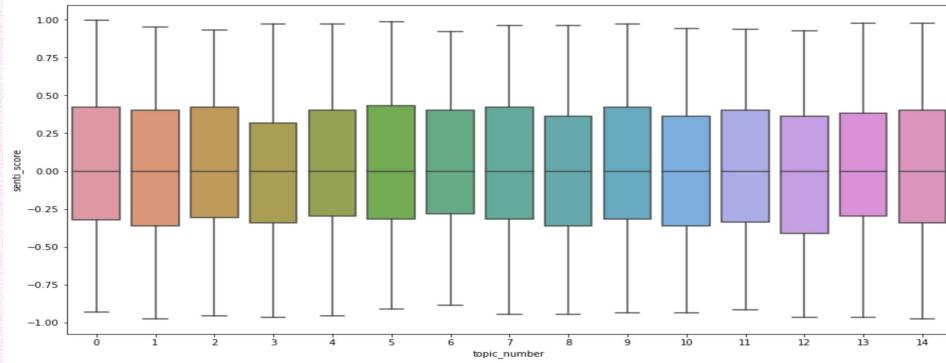
- {0: 'joe_malone_interview',
- 1: 'massFormationPsychosis',
- 2: 'inventorOfMrnaMalone',
- 3: 'chinaSpreadHemorrhagicFeverVirus',
- 4: 'mcculloughMalone',
- 5: 'someoneLikedMalone',
- 6: 'veritasProjectPremeditatedManslaughter',
- 7: 'maloneInterview',
- 8: 'thinkTwiceVaccinateKids',
- 9: 'listenToMalonePodcast',
- 10: 'aboutWhatMaloneSaid',
- 11: 'maloneInventedMrna',
- 12: 'vaccineMrna',
- 13: 'twitterBannedMalone',
- 14: 'justDonKnow'}



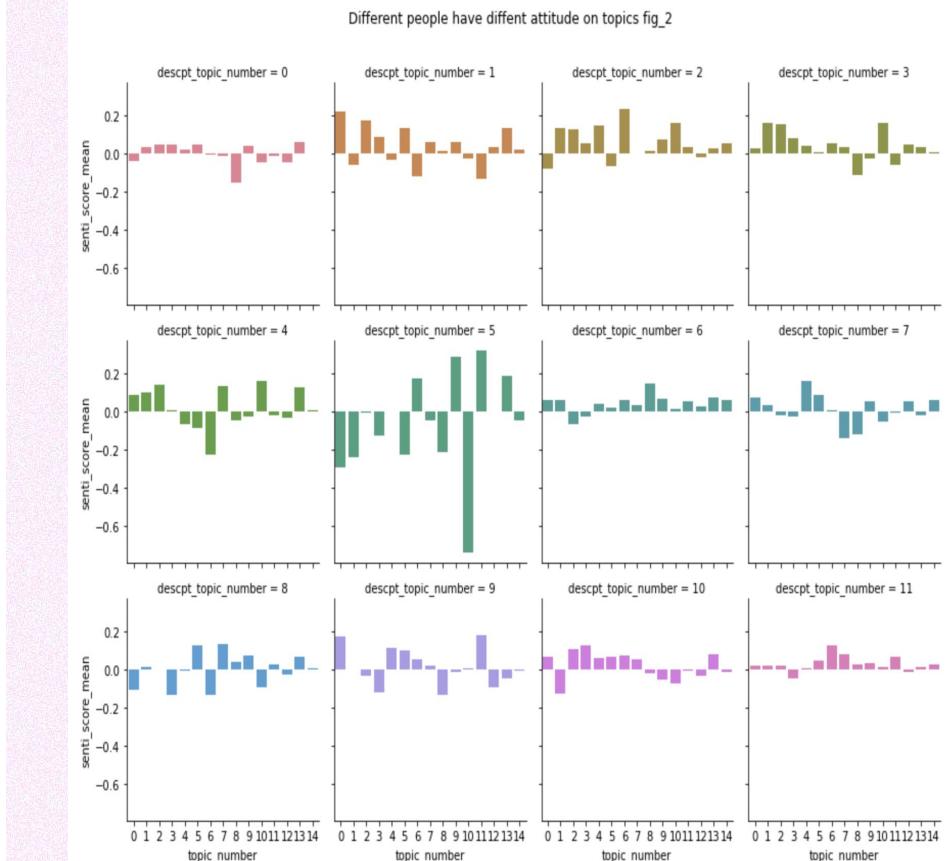
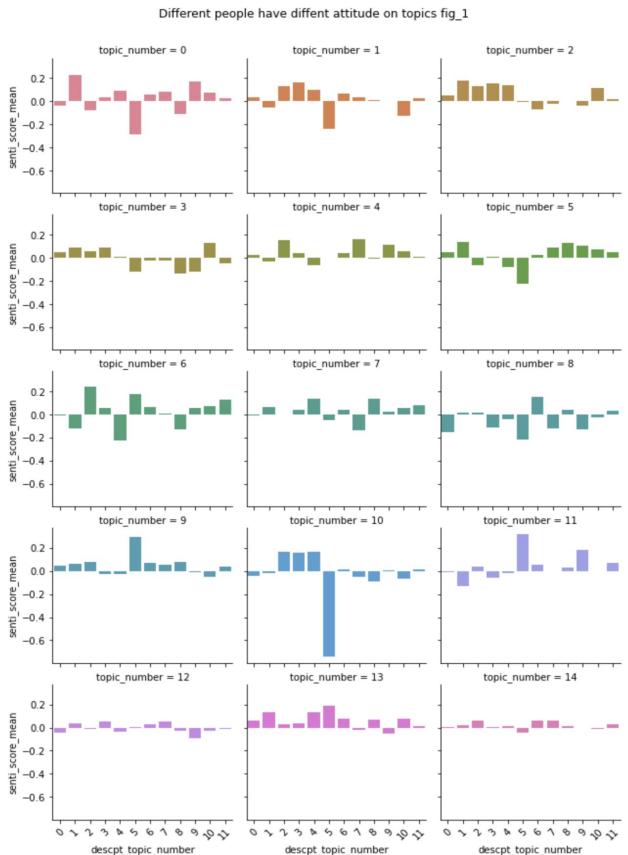
First Impression

For each topic &
each group,
Sentiment score is about the same

Average Sentiment Score for Each group and topic



Average Sentiment Score aggregate by group and Tweets



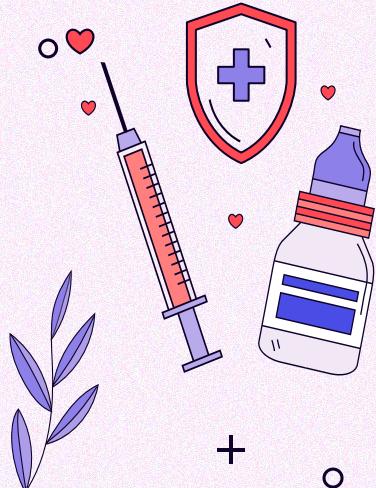
Sample tweets :

C topic_user_search(8,5)

Topic: **think_twice_vaccinate_kids**, user group: **jersey_girlinfj_no_dms_no_magats**
 Sentiment score mean is : -0.21575555555555556
 0 : question for you do you think dr malone is not a real doctor or scientist
 1 : the same dr malone who was suspended from twitter for spreading misinformation about covid 19 just checking
 2 : i would think this is the latest effort from genocide americans to scupper the olympics watch the video i check ed the date jan 10
 3 : ivermectin behind low covid death rates in the indian province of uttar pradesh malone suggests it could be and that biden is trying to cover it up highlights the dubiousness of malone's claim 2 3
 4 : do you have any sources that aren't garbage and quote malone who had his covid paper pulled due to "unsubstantiated claims"

topic_user_search(8,6)

Topic: **think_twice_vaccinate_kids**, user group: **pro_anti_something**
 Sentiment score mean is : 0.14933888888888888
 0 : lucky they are all healthy enough to get to the test centre
 1 : hmmmm that s a tuff one buuuuuut i think i ll go with dr malone and not the snake oil salesman
 2 : good job here debunking malone s misinformed take on covid 19 vaccines malone goes full anti science on joe rogan s podcast
 3 : again the same propaganda being spread everywhere and yes malone actually says that if you have had covid you should not get the vaxx as you are more at risk of side effect from the jabb
 4 : mounting evidence shows the us government could have prevented more than a half million american covid deaths through their cdc and fda if they had not outlawed early treatment with hydroxychloroquine hcq and ivermectin



topic_user_search(3,2)

Topic: **china_spread_hemorrhagic_fever_virus**, user group: **truthseeker**
 Sentiment score mean is : 0.0567142857142857
 0 : dr malone fires warning shot latest spreading across an ebola like hemorrhagic fever virus again
 1 : dr malone project veritas whistleblower gain of function fauci china s hemorrhagic fever virus a new deadly virus emerged in beijing china it s a hemorrhagic fever virus
 2 : india mustn t send any team to china winter olympics in the light of this development we should ban flights from to china if the world could ban travel to sa for omicron india for delta we must do to china to save from deadly ebola type fever
 3 : omg god help us dr malone fires off warning shot on the war room latest disease spreading across china an ebola like hemorrhagic fever virus video
 4 : heard it is an ebola type marburg virus high morbidity dr malone reported china is being secretive about it

topic_user_search(3,11)

Topic: **china_spread_hemorrhagic_fever_virus**, user group: **what_people_like_and_about_time**
 Sentiment score mean is : -0.04543712121212122
 0 : if u think its bad now then buckle up china i mean the ccp who r funded by the hard working man and womens tax s has another one brewing this 1 is the marburg we all heard of the name ages ago if the beijing games happen this will spread genocide games
 1 : dr malone spreading misinformation and fear no academic credibility full stop
 2 : dr malone has heard that ch na has been hit with a ebola type virus with a 50 fatality rate are the olympic games the way ch na plans to spread this worldwide
 3 : dr malone was right there are many articles discussing "hemorrhagic fever virus" in china
 4 : rapidly spreading ebola like hemorrhagic fever virus spreading in china

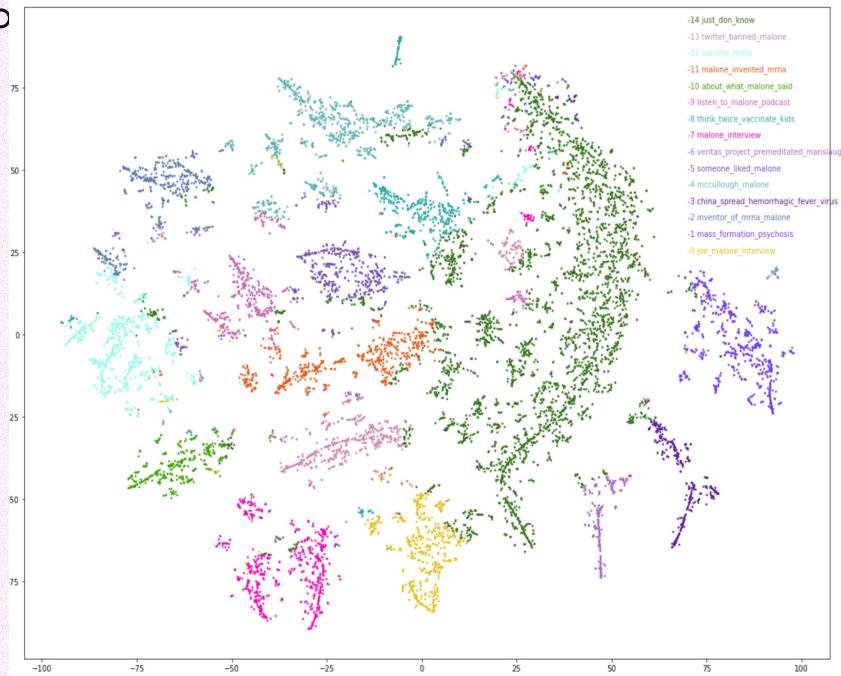
Topic: **malone_invented_mrna**, user group: **just_guy_someone**

Sentiment score mean is : -0.1315962962962963
 0 : many have been saying for 2 years mrna technology us rushed and experimental but now i see the same people saying this dr malone invented it when he was 28 in the 80's so which is it the truth is neither was started in 2012 and was the work of many scientists working together
 1 : when there is absolutely no benefit and there is risk please don't do anything foolish like getting your children vaccinated dr malone who invited invented the mrna technology has warned that it cytotoxic the cdc has proven itself to be corrupt time and again
 2 : like the creator of the mrna technology dr malone
 3 : dr malone a virologist and immunologist who has contributed significantly to the technology of mrna vaccines
 4 : so that's what you call dr malone who invented mrna vaccine tech righttt

topic_user_search(11,5)

Topic: **malone_invented_mrna**, user group: **jersey_girlinfj_no_dms_no_magats**
 Sentiment score mean is : 0.3207111111111111
 0 : dr malone md the guy who invented the technology of mrna vaccines just did a podcast with joe rogan he says that taking the vaccine actually increases your risk of infection i.e. the more doses you take the more you likely you are to catch covid
 1 : malone didn't invent "mrna technology"
 2 : go listen to dr malone s interview with joe rogan he s the one who invented the mrna technology you tool
 3 : dr malone had only a smart part in the invention of mrna technology
 4 : malone is a crank

Visualization



Insight and Summary



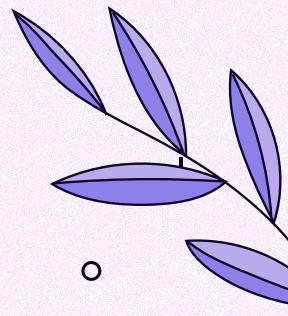
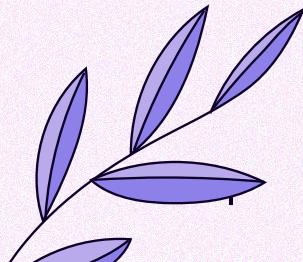
Insight

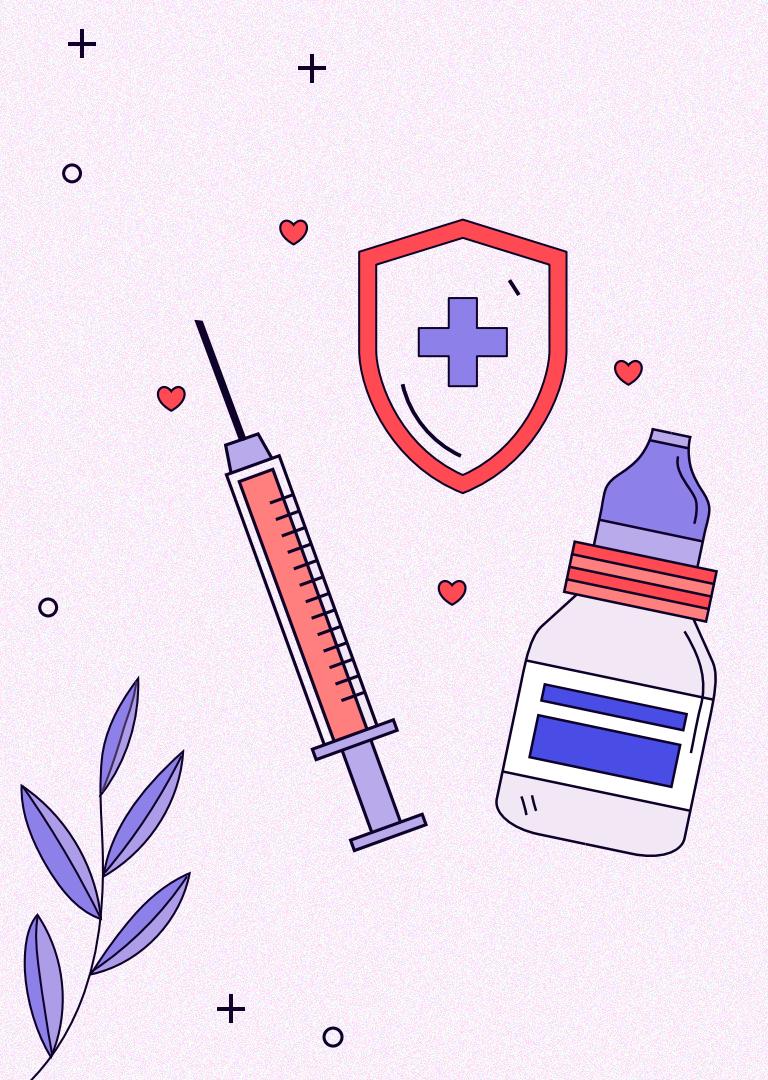
- ❖ Doing sentiment analysis on Text is limited;
- ❖ Most communication info is conveyed through expression,tone and body movement
- ❖ Sentiment score can only score the words, hard to catch people's real emotion and attitude.



Insight

- ❖ Doing sentiment analysis on Text is limited;
- ❖ Most communication info is conveyed through expression,tone and body movement
- ❖ Sentiment score can only score the words, hard to catch people's real emotion and attitude.





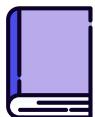
333,000,000

Earths fit in the Sun's mass

9h 37m 23s

is Jupiter's rotation period

LITERATURE REVIEW



THEORY 1

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than our Moon

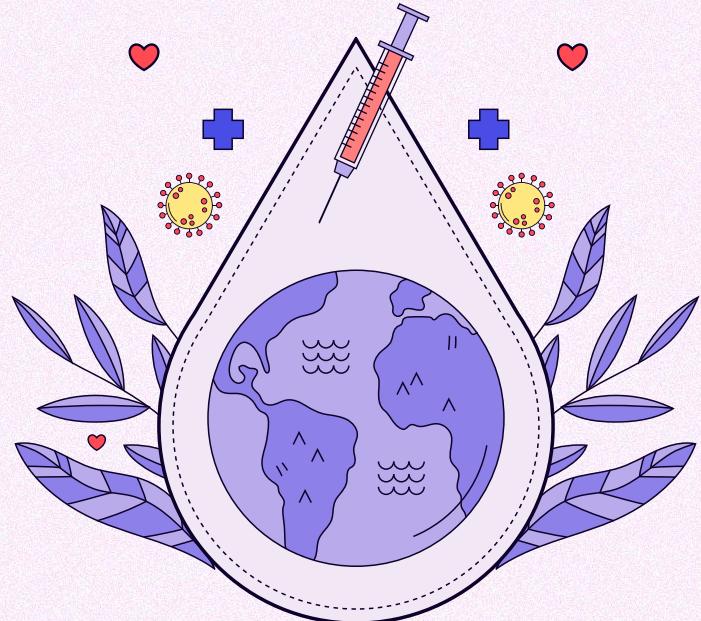


THEORY 2

Venus has a beautiful name and is the second planet. It's very hot and its atmosphere is extremely poisonous

WHOA!

This can be the part of the presentation where you introduce yourself, write your email...



CONTENTS OF THIS TEMPLATE

Here's what you'll find in this **Slidesgo** template:

1. A slide structure based on a thesis presentation, which you can easily adapt to your needs. For more info on how to edit the template, please visit **Slidesgo School** or read our **FAQs**.
2. An assortment of pictures/illustrations that are suitable for use in the presentation can be found in the **alternative resources** slide.
3. A **thanks** slide, which you must keep so that proper credits for our design are given.
4. A **resources** slide, where you'll find links to all the elements used in the template.
5. **Instructions for use**.
6. Final slides with:
 1. The **fonts and colors** used in the template.
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 3. More **infographic resources**, whose size and color can be edited.
 4. Sets of **customizable icons** of the following themes: general, business, avatar, creative process, education, help & support, medical, nature, performing arts, SEO & marketing, and teamwork.

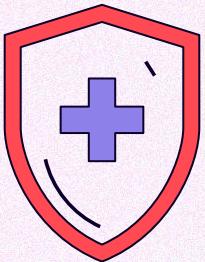
You can delete this slide when you're done editing the presentation.

TABLE OF CONTENTS

OBJECTIVES

Describe the topic of the section here

01



RESULTS

Describe the topic of the section here

03

02

METHODOLOGY

Describe the topic of the section here

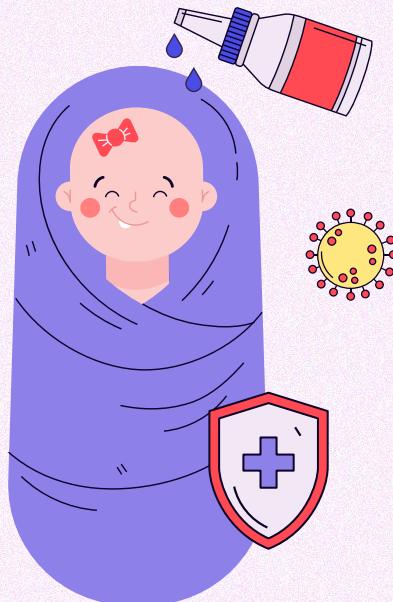
04

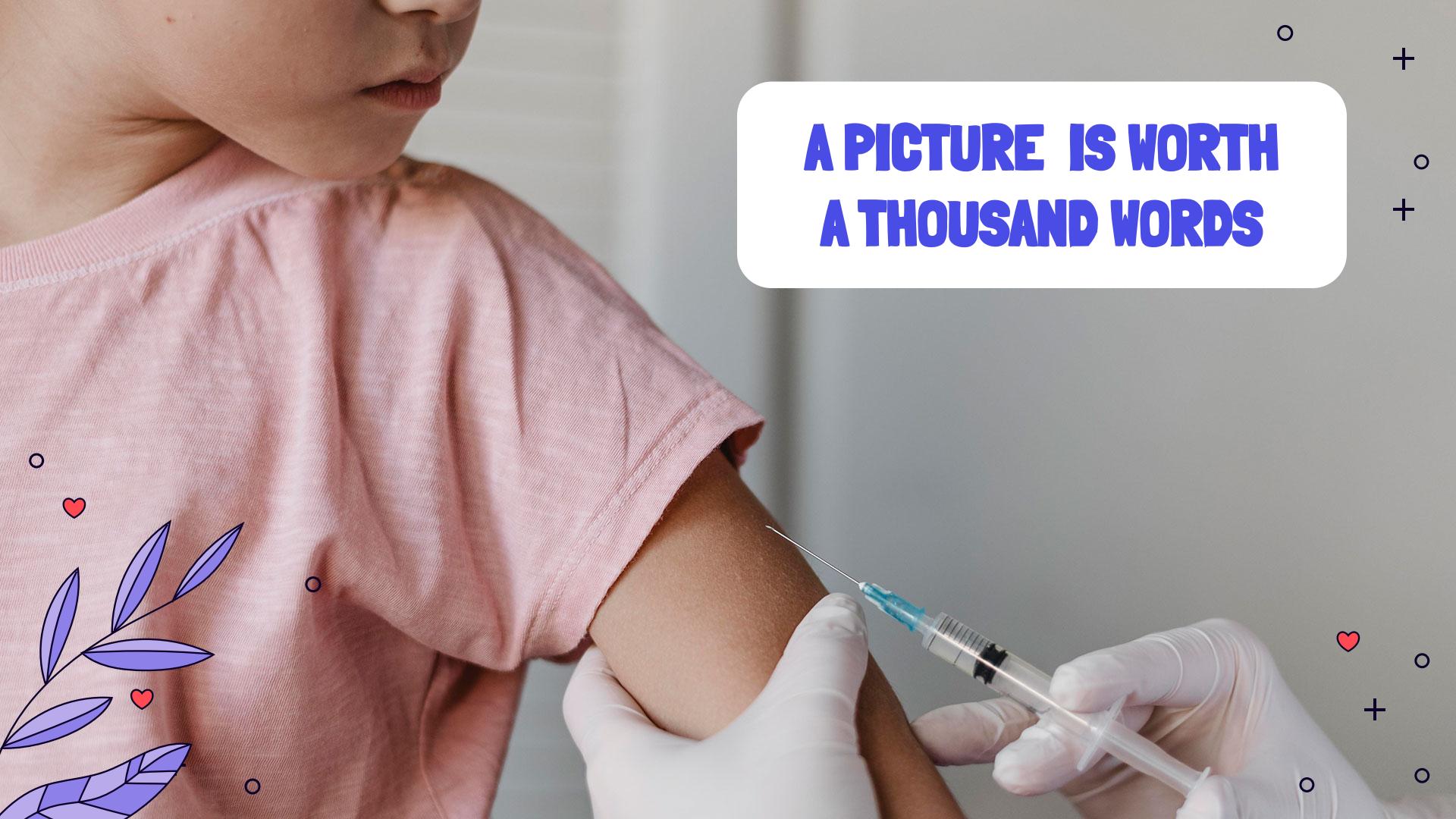
CONCLUSIONS

Describe the topic of the section here

INTRODUCTION

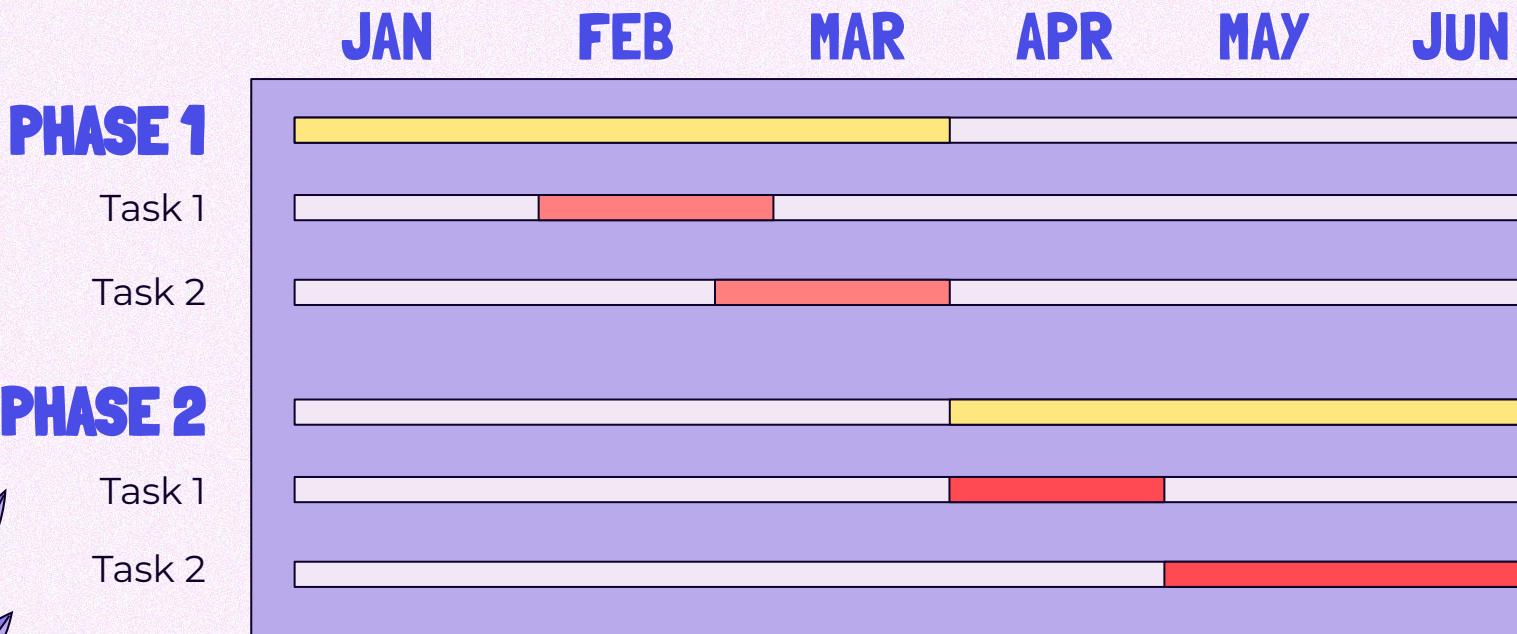
Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon. The planet's name has nothing to do with the liquid metal since it was named after the Roman messenger god, Mercury



A close-up photograph of a person's shoulder and arm. A medical professional wearing white gloves is holding a syringe and preparing to administer an injection into the person's upper arm. The person is wearing a light pink t-shirt. In the bottom left corner, there is a decorative graphic of purple leaves and small red hearts. The background is a plain, light-colored wall.

**A PICTURE IS WORTH
A THOUSAND WORDS**

SCHEDULE



RESOURCES

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ICON PACK:

- Vaccine Development Icon pack

VECTORS:

- Hand drawn world polio day illustration I
- Hand drawn world polio day illustration II
- Hand drawn world polio day illustration III
- Hand drawn world polio day illustration IV
- Hand drawn world diabetes day illustration

PHOTOS

- Doctor administering a vaccine to kid
- Close-up little boy getting vaccine

STUDY OBJECTIVES



RESEARCH

Venus has a beautiful name, but it's very hot



ANALYSIS

Jupiter is the biggest planet of them all



DATA STUDY

Despite being red, Mars is a very cold place



COMPARISON

Saturn is the ringed one and a gas giant

THIS IS A TABLE

ABOUT TEST RESULTS	FIRST DOSIS	SECOND DOSIS
Mercury's name has nothing to do with the metal	60%	51,2%
Jupiter is a gas giant and the biggest planet	60,1%	51,1%
Saturn is the only planet with rings	59,9%	50,9%
NOTES		
Mercury is the closest planet to the Sun and the smallest one in the Solar System. This planet's name has nothing to do with the liquid metal, since Mercury was named after the Roman messenger god		

OUR SOLUTIONS



MERCURY

Mercury is the closest planet to the Sun



VENUS

Venus has a beautiful name, but it's terribly hot



MARS

Despite being red, Mars is a very cold place



JUPITER

It's the biggest planet in the Solar System



SATURN

Saturn is the ringed one and a gas giant



NEPTUNE

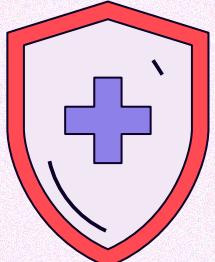
Neptune is the farthest planet from the Sun

RESULTS ANALYSIS

MERCURY

30%

Mercury is the smallest planet



VENUS

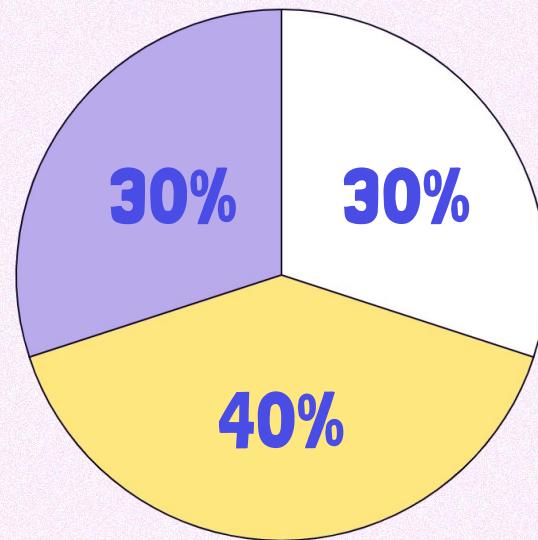
30%

Venus has a beautiful name

MERCURY

40%

Mars is a very cold place

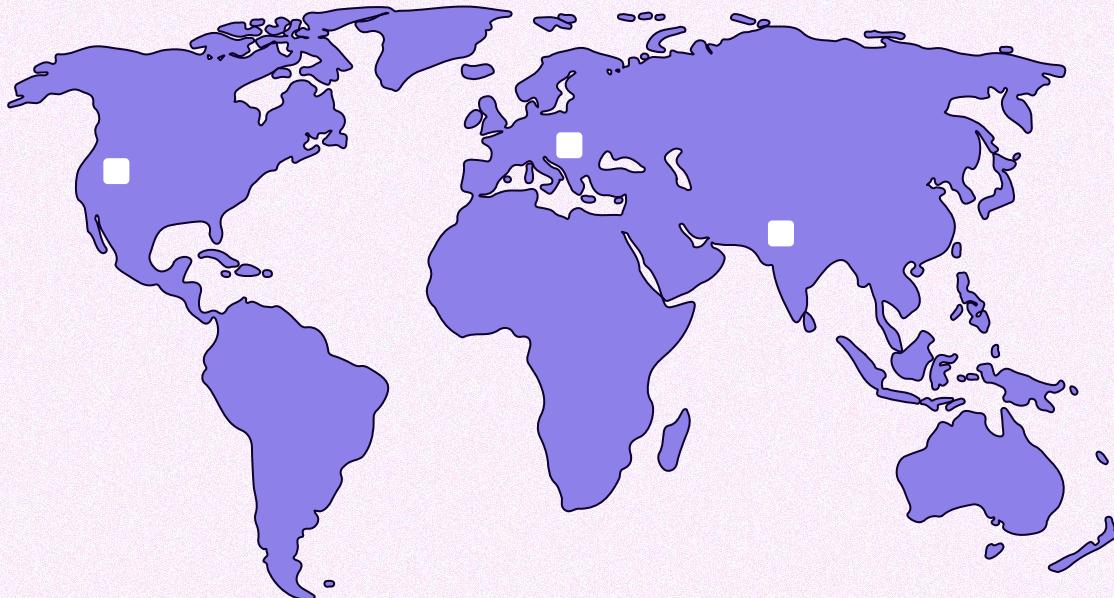


Follow the link in the graph to modify its data and then paste the new one here. For more info, [click here](#)

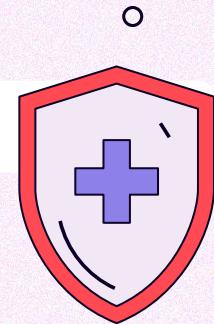
THIS IS A MAP

MERCURY

Mercury is the closest planet to the Sun and the smallest one in the Solar System



OUR CONCLUSIONS



MERCURY

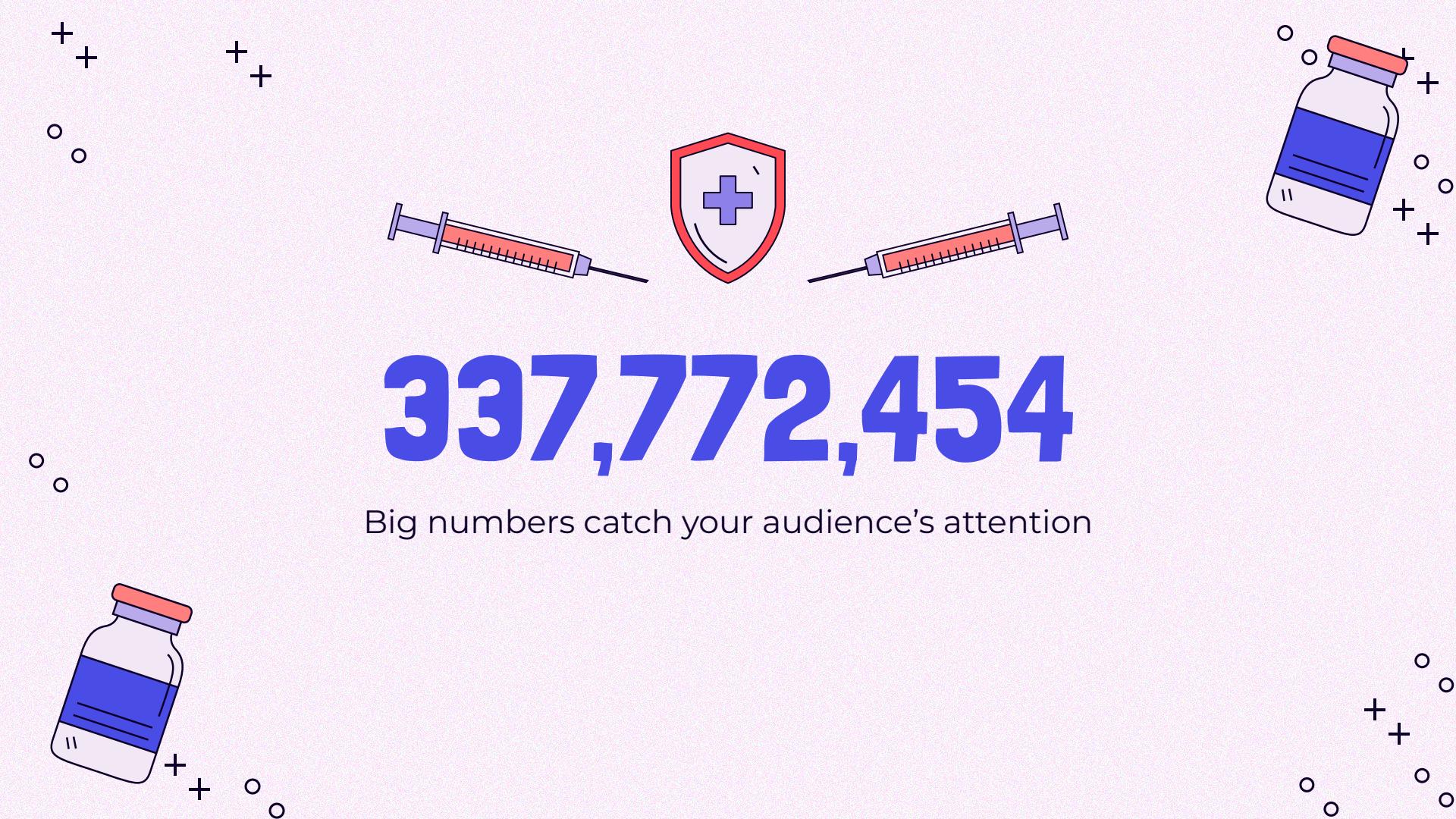
Mercury is the closest planet to the Sun and the smallest one in the Solar System



VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot





337,772,454

Big numbers catch your audience's attention

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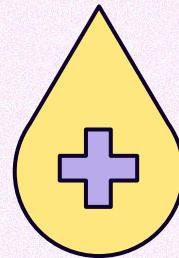
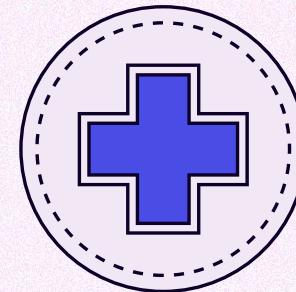
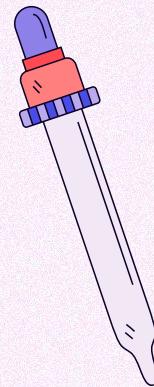
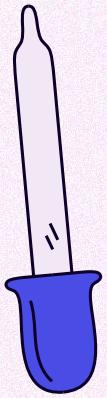
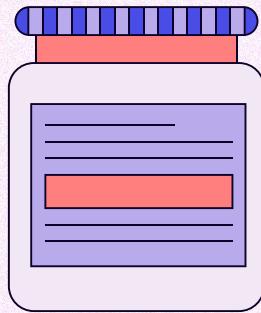
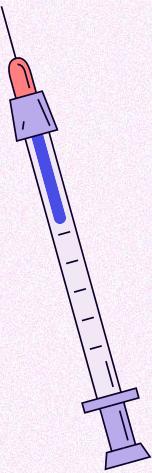
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VACCINE DEVELOPMENT ICON PACK



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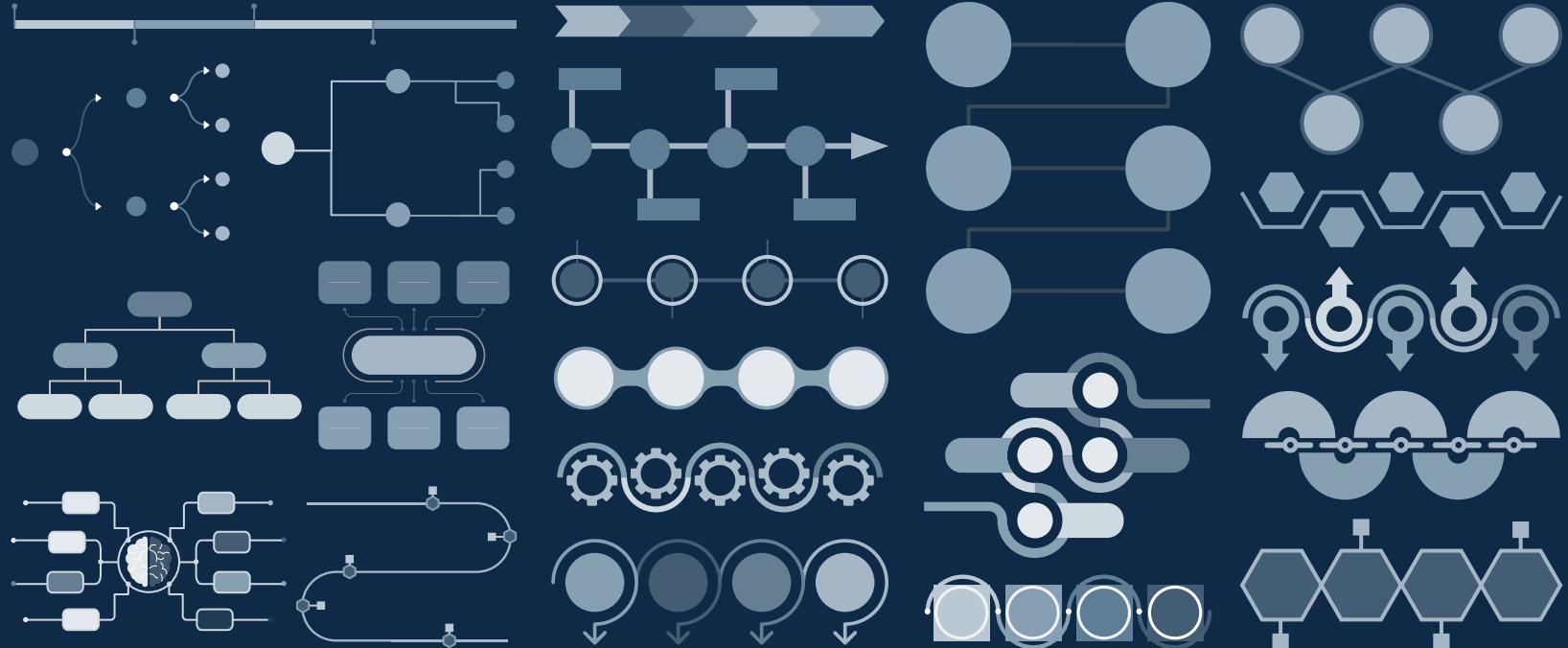
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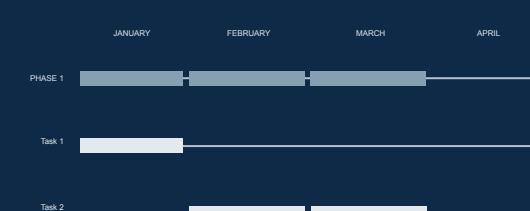
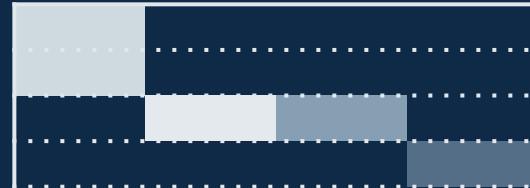
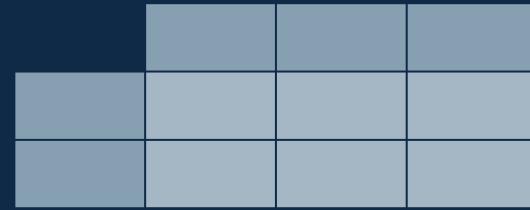
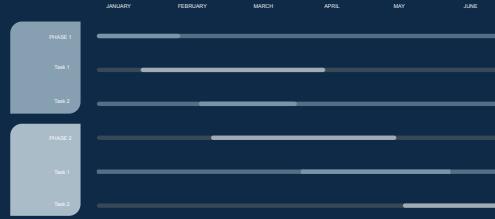
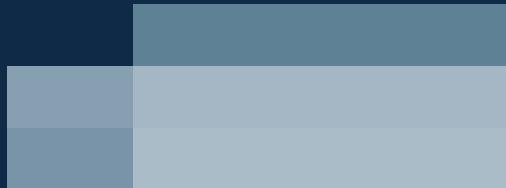
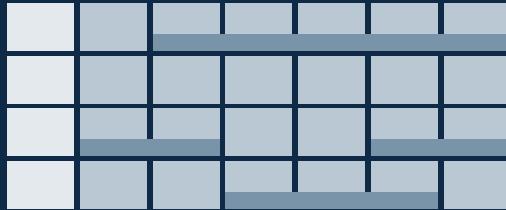
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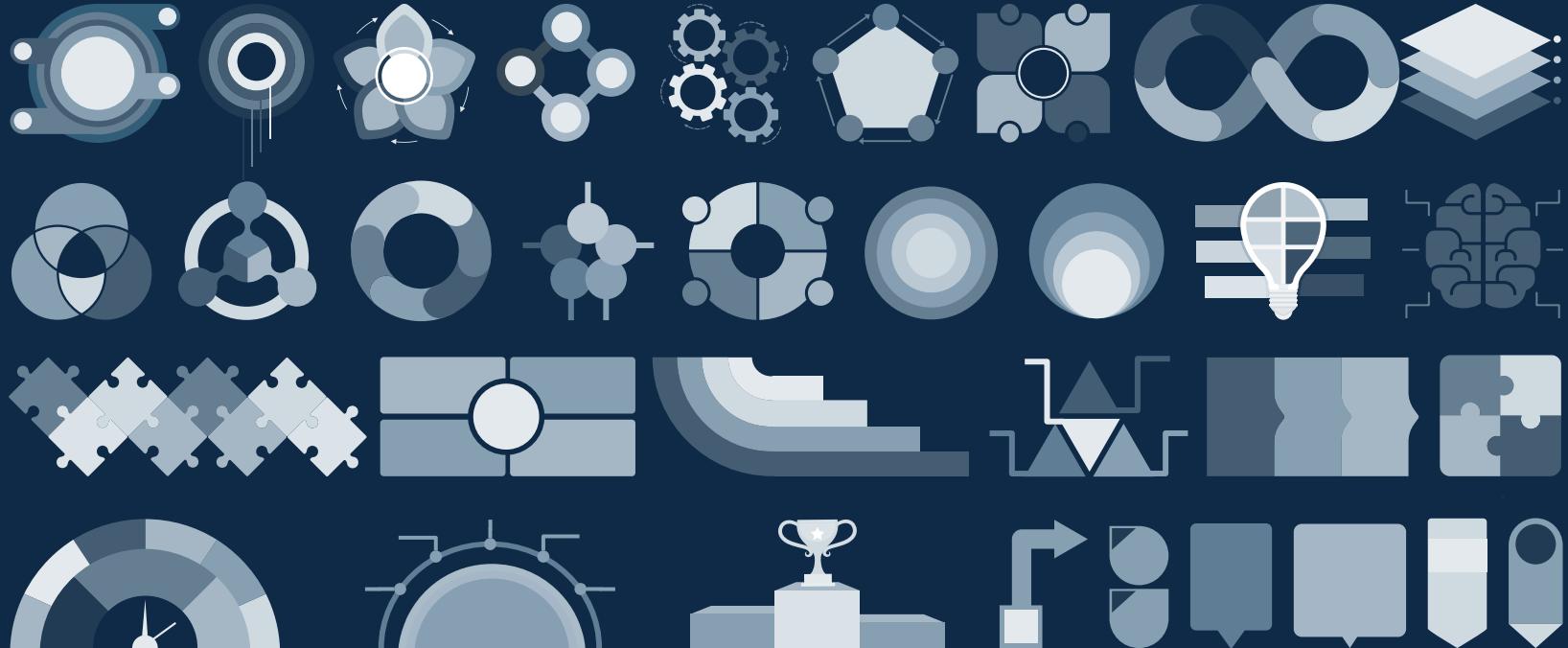
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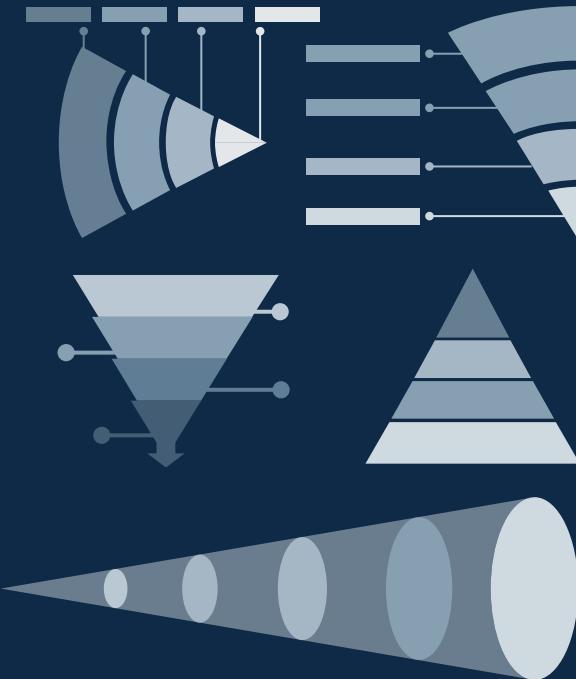
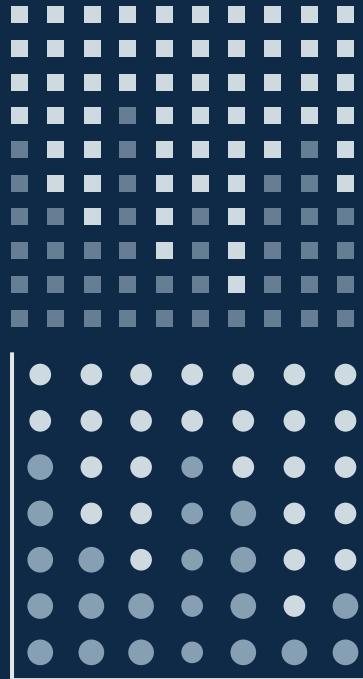












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