

THE RISE OF CBD

a (non-psychoactive) guide
to social trend measurement
brought to you by:

PULSAR 

Marc Geffen (@marc_it)
Research Director

Outline

- 1 Spotting & contextualizing a rising trend:
CBD case study
- 2 Evaluating trends in a systematic way:
a sneak peek of Pulsar's virality model
- 3 Understanding trend audiences:
how audience composition impacts spread



Preview + summary

If you take away anything from this prez, let it be these 4 key points:

Social data is not the definitive measure of a trend – but it is a highly useful signal to interpret:

interest, attitudes, and in some cases, behavior

Social data is a (more) powerful indicator for when paired:

- Search volume
- Sales data
- Market prices
- +more

When ‘spotting’ & measuring trends, think:
patterns > scale

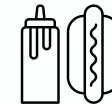
Audience composition (who’s participating) may be just as important to the trajectory of a trend as overall popularity, media coverage, spend, etc.



CANNABIDIOL (CBD)

In this presentation, we’re going to focus on our recent trend work around CBD + medical cannabis

However, we’ll give a sneak peek of other trend analyses we’ve done in 2018:



FOOD CULTURE



CRYPTOCURRENCY



MOVIES



1

**Spotting & contextualizing a
rising trend:**



CBD case study



The brief & study background

A client in the sport/athletics space came to us with a great challenge:

How can we use social media data to better understand: To what degree is CBD interest growing among the public, how relevant and in-demand are sport and pain relief use cases, and who, exactly, is engaging around the topic?

We designed a three-part research approach:

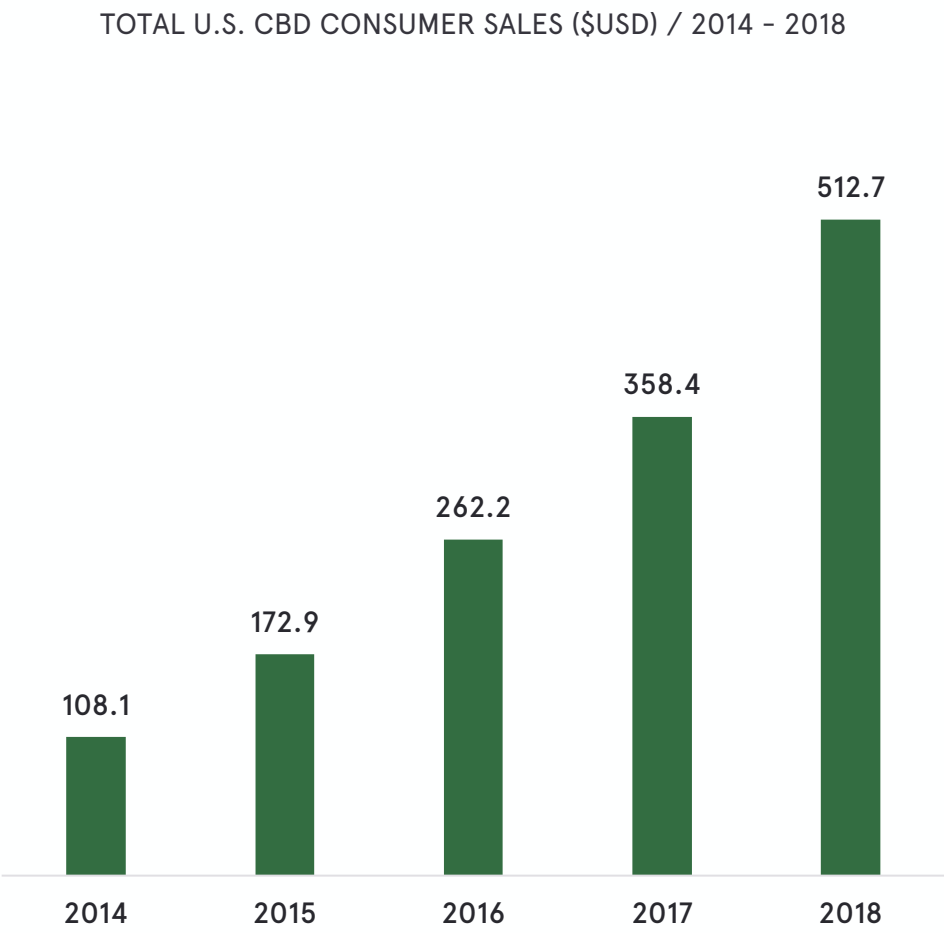
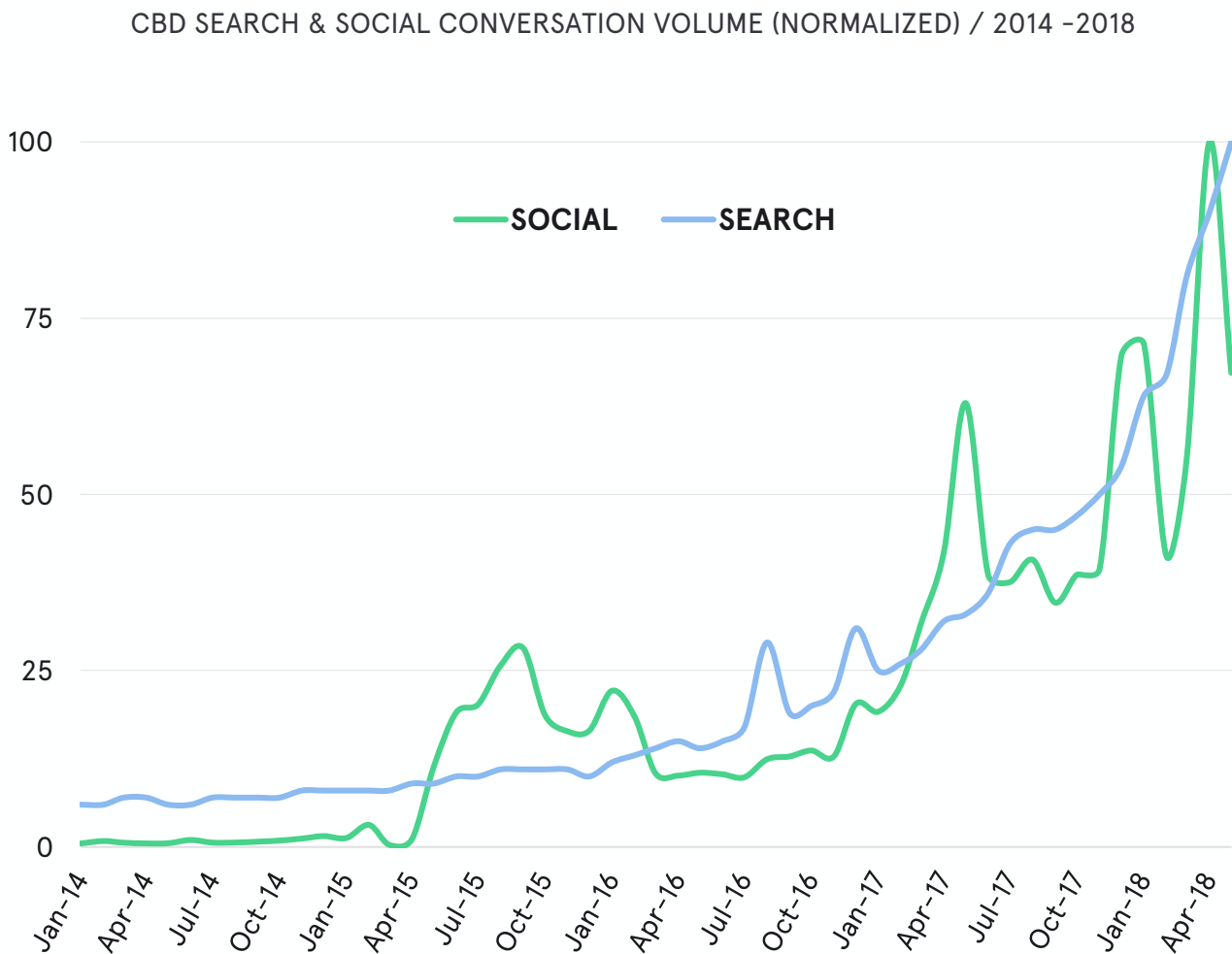
1. CBD Trend Measurement
2. CBD Category Listening
3. CBD Audience Mapping



CBD is outpacing many other wellness trends, as measured by multiple virality metrics; recently, “CBD” buzz has reached levels as high as “meditation” buzz

Digital & social interest in CBD mirror the upward trajectory in sales

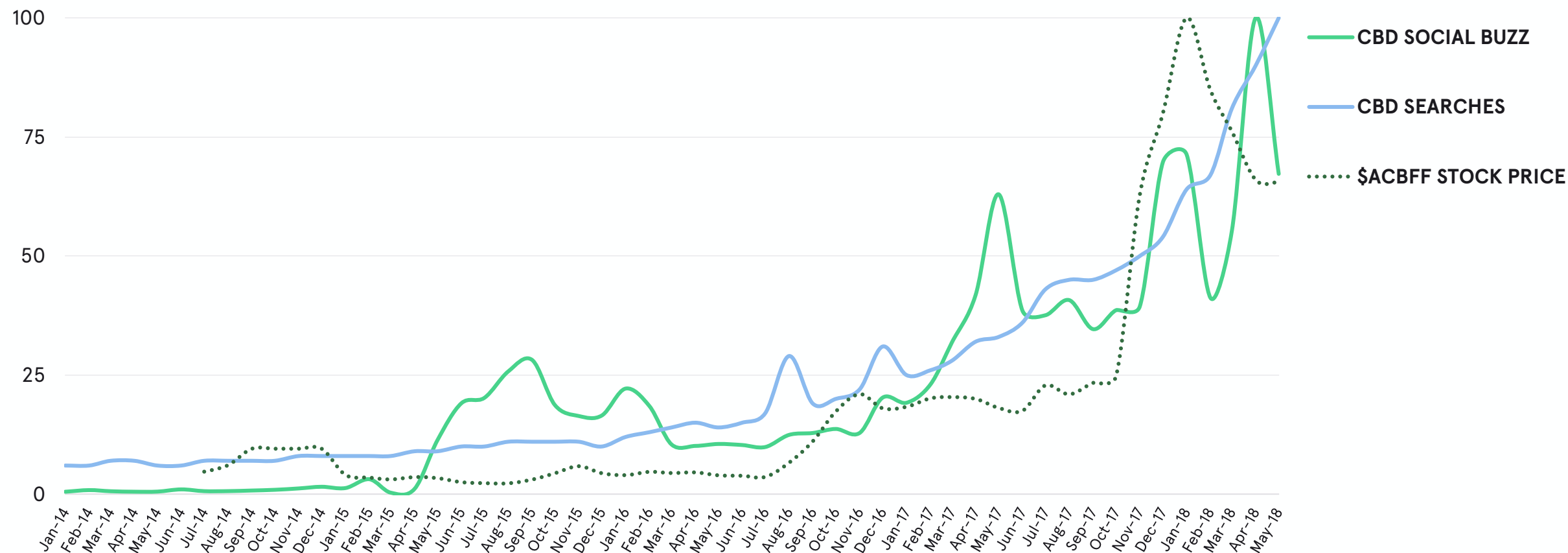
Search & volume around CBD are highly correlated in growth, though social buzz sees more fluctuation throughout the year



Digital & social interest in CBD also maps to investment in the space

Along with search & social interest, the stock price of Aurora Cannabis tracks a similar upward trend

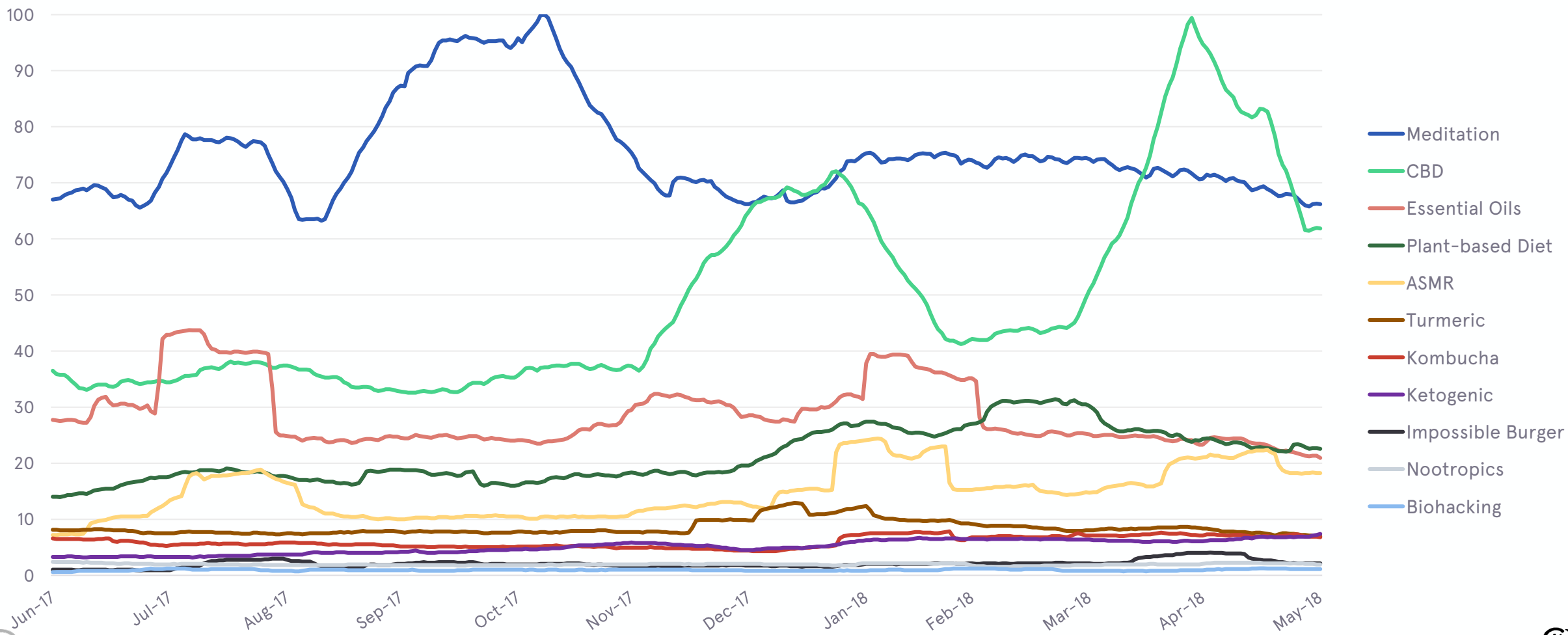
CBD SEARCH & SOCIAL CONVERSATION VOLUME VS. AURORA CANNABIS INC. (\$ACBFF) STOCK PRICE (NORMALIZED) / 2014 -2018



Wellness Trends | volume index

In the last year, CBD has closed the gap with 'Meditation' – climbing toward the top of the wellness trend category

WELLNESS TRENDS CONVERSATION VOLUME (TWITTER DATA – 30 DAY MOVING AVG. – NORMALIZED)





CBD + Sport conversation volume lags other use cases: Pain/Medical and Wellness/Lifestyle; CBD for Pets also proves to be just as popular as CBD for Sport

A majority talk about CBD use for Physical purposes, though Mental health is still a key motivator – especially among the general audience

There are 4 main use cases discussed within CBD social conversation

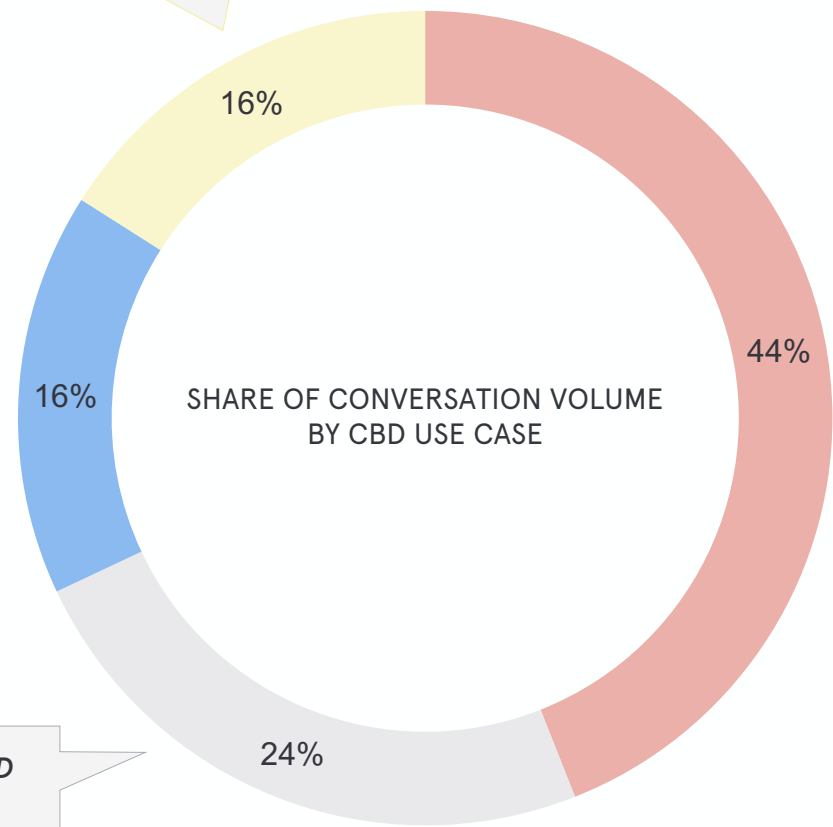
When breaking down the top CBD use cases discussed in social conversation, its medicinal properties come out on top (mentions of topics such as 'medicine' or 'disease')

Interestingly, pet us cases are discussing as frequently as sports - using CBD as a way to calm down anxious or ill-behaved animals.

If you been wondering about cbd for your pet, I can tell you that in under a month, my boy is like a new dog. He's calm and relaxed and a joy to be around. Stuff works folks! 👍

Thank you to @plantlifecbd for providing me recovery capsules for my fight in February... CBD can help athletes and others who work out

Boyfriend needed for CBD lotion back and foot massages



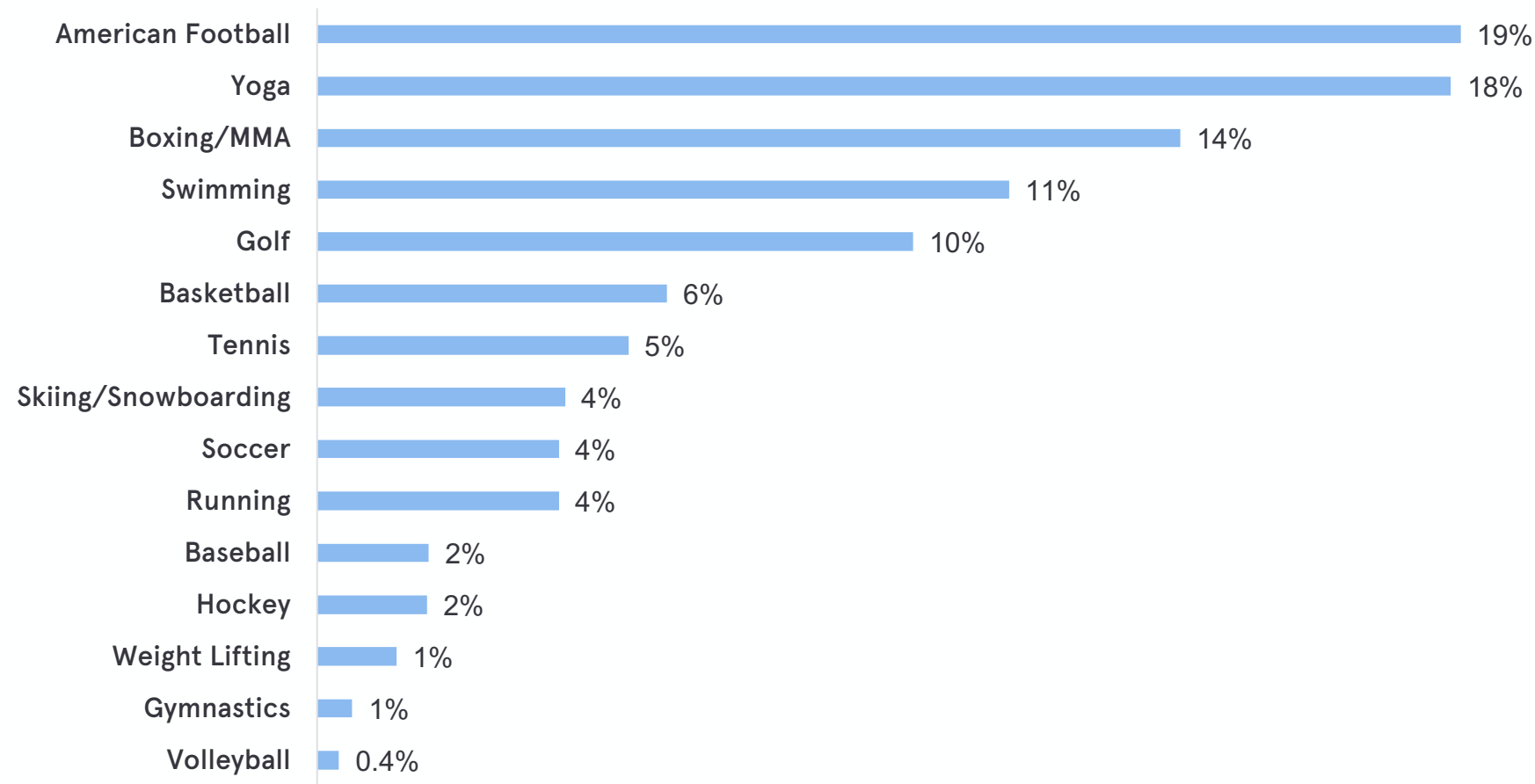
- Pain & Medical
- Wellness/Lifestyle
- Sports
- Pets

CBD is seriously the best medicine like sure it may not cure everything but it sure does help with a lot



Football, Yoga, and Contact Sports are the top sports mentioned within CBD discussion

SHARE OF CONVERSATION VOLUME FOR THE TOP 15 SPORTS MENTIONED ALONGSIDE CBD / DEC 2017 – MAY 2018



72%

of all volume around specific sports is generated by the top 5 sports: American Football, Yoga, Boxing/MMA, Swimming, Golf



4 out of 5

of the top sports mentioned in CBD conversation are individual sports (not team sports)

Across audiences, Oil is the most recognized format

Sports discussion sees a relatively high share of mentions around Drinks & Topicals

PRODUCT FORMAT SHARE OF CONVERSATION VOLUME BY SEGMENT / DEC 2017 – MAY 2018



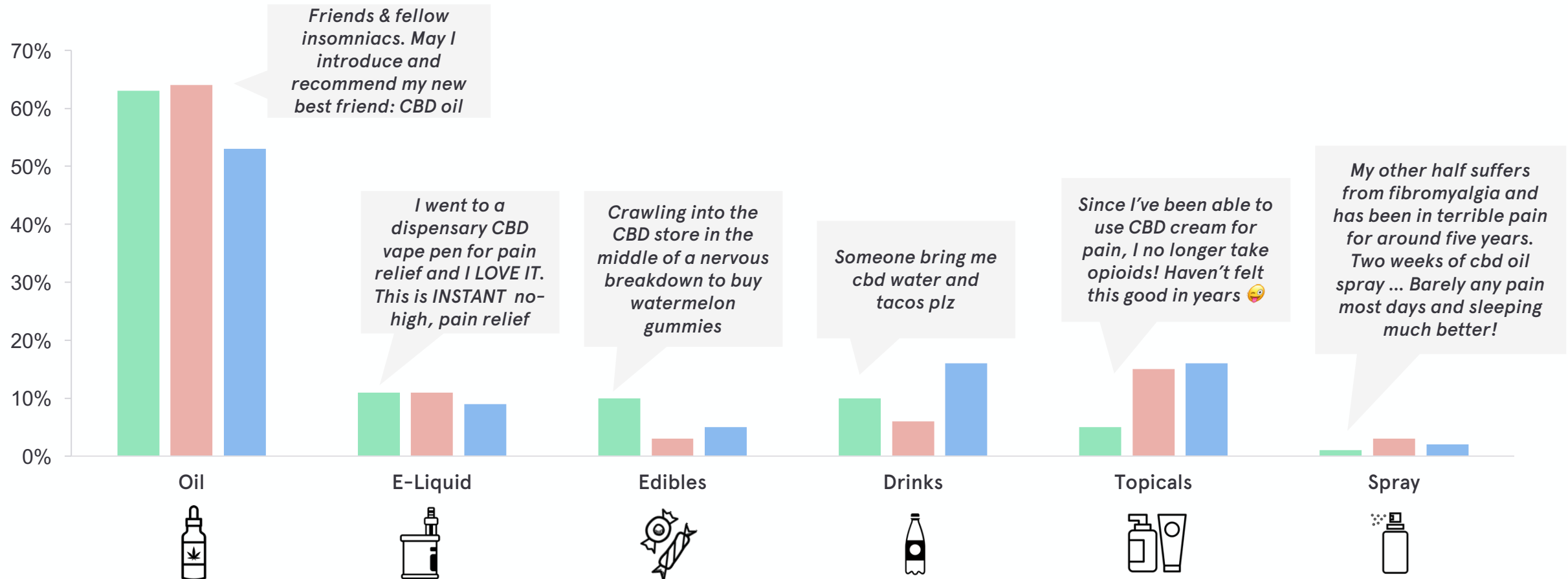
GENERAL



PAIN & MEDICAL




SPORT




A majority talk about CBD use for Physical purposes, though Mental health is still a key motivator – especially among the general audience

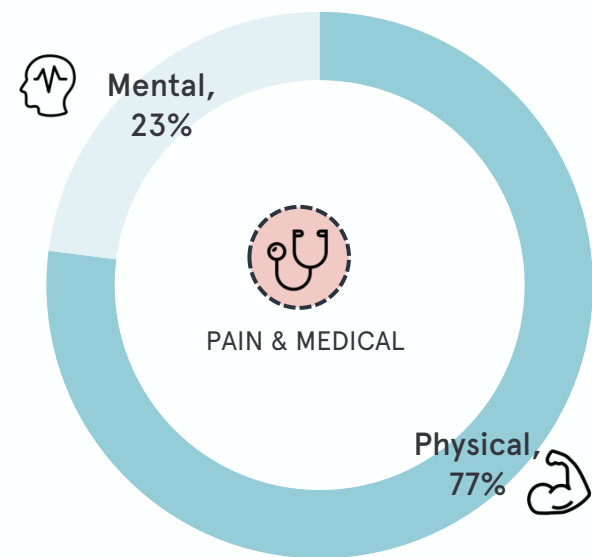
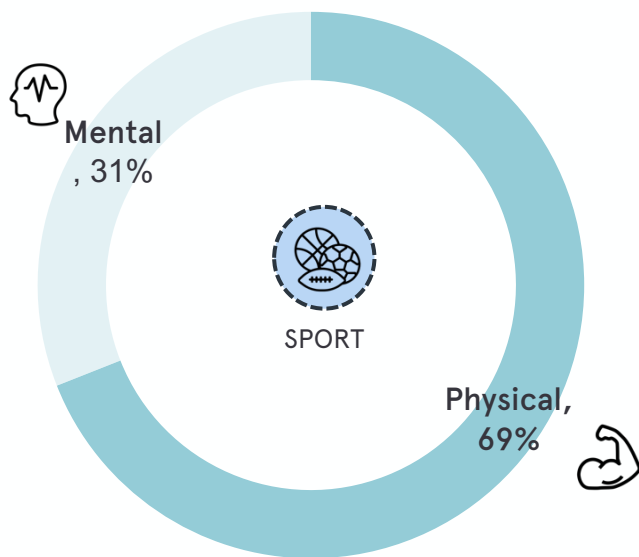
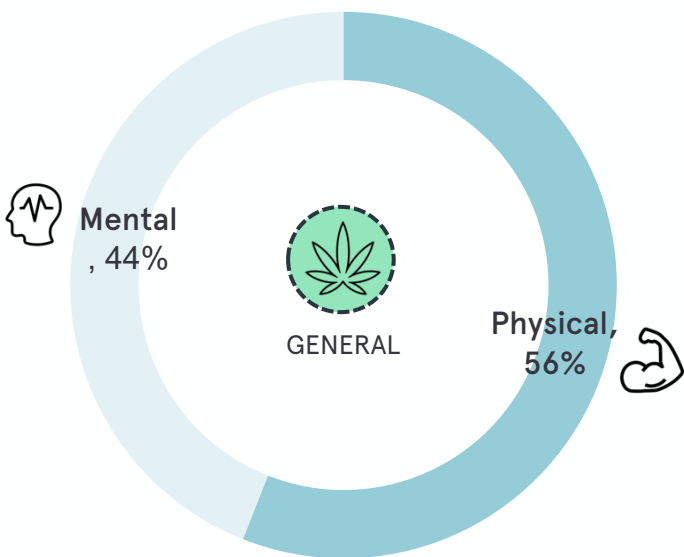
SHARE OF CONVERSATION VOLUME RELATED TO CBD USE FOR PHYSICAL VS. MENTAL HEALTH / DEC 2017 – MAY 2018



Physical health: CBD + ache, injury, soreness, etc.



Mental health: CBD + anxiety, depression, stress, etc.





2

**Evaluating trends in a
systematic way:
a sneak peek of Pulsar's
virality model**

CBD isn't a one-off trend. We've developed a methodology for understanding just how viral a trend can be
– and crucially, whether it will last



Here we'll look at:

- Associated trends in the wellness space
- The metrics to understand virality
- How CBD measures up (as a trend)

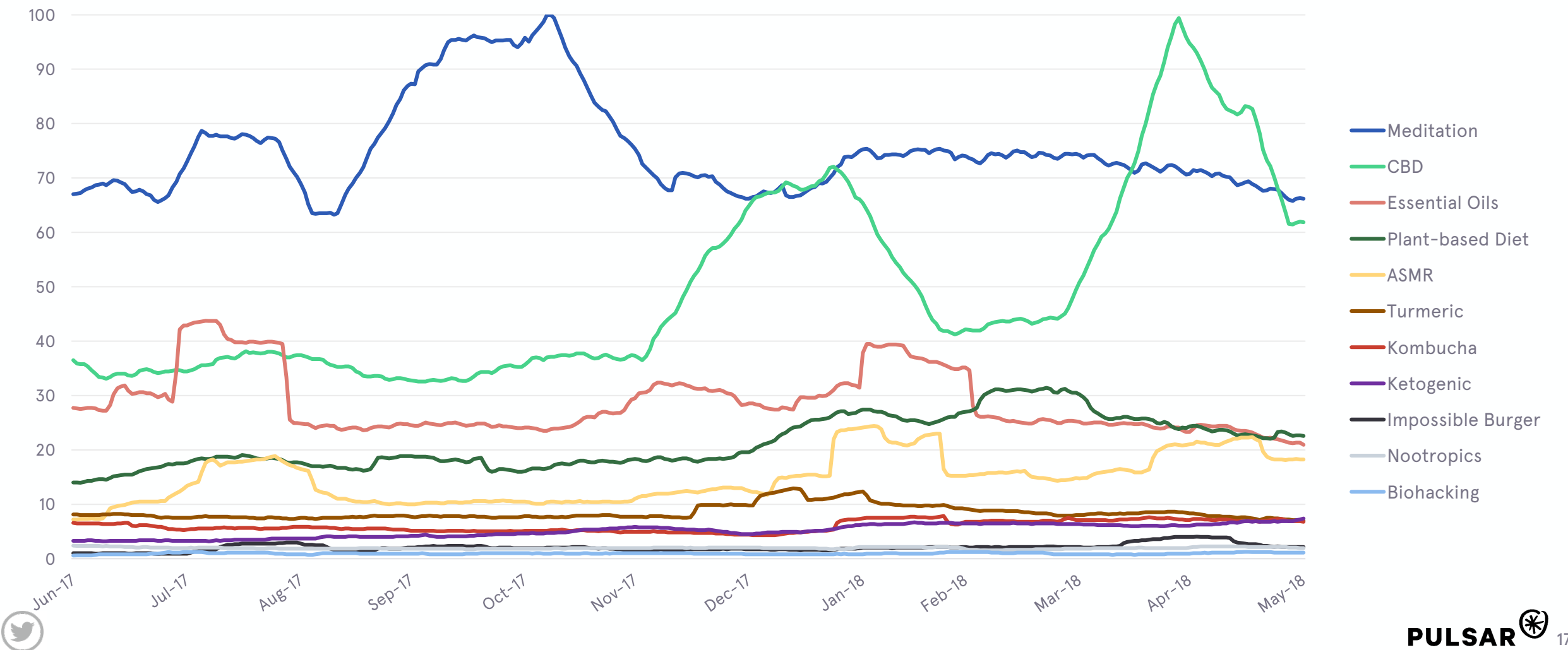


KINFOLK

Wellness Trends | volume index

In the last year, CBD has closed the gap with 'Meditation' – climbing toward the top of the wellness trend category

WELLNESS TRENDS CONVERSATION VOLUME (TWITTER DATA – 30 DAY MOVING AVG. – NORMALIZED)



Beyond simple volumes, we measure trends and virality using a set of six key metrics:

How much overall volume has this trend generated in the past year?



Annual Volume

How much has this trend's popularity grown from a year ago?



YoY Volume

How much buzz can this trend drive in a short period of time?



Velocity

Is this trend generally stable and consistent, or highly variable?



Volatility

To what extent does this trend maintain high volumes over time?



Sustainability

How much momentum does this trend have as of late?



Growth Rate

Wellness Trends | virality metrics

Category high	Category runner-up	Category low
---------------	--------------------	--------------

	Annual Volume	YoY Volume	Velocity	Volatility	Sustainability	Growth Rate
Cannabis	2,790,395	29.25%	991.6	21.80%	365	13.78%
Meditation	1,462,130	14.97%	285.3	15.41%	365	-1.30%
CBD	970,291	134.08%	307.0	15.84%	365	69.36%
Essential Oils	553,587	-2.74%	573.0	48.59%	365	-24.53
Plant-based	414,060	78.34%	157.3	21.95%	361	61.06%
ASMR	285,156	127.76%	477.2	68.41%	150	151.08%
Turmeric	164,792	-0.43%	104.4	30.56%	12	-14.25%
Kombucha	118,495	27.55%	90.5	45.74%	3	2.75%
Ketogenic	101,091	107.76%	25.6	22.02%	3	124.25%
Impossible Burger	40,195	151.14%	40.4	74.97%	2	108.06%
Nootropics	38,630	11.09%	16.1	33.45%	0	-19.70%
Biohacking	18,277	57.89%	9.8	79.09%	0	88.79%

→ CBD sees the second-highest YoY growth in buzz, across all wellness trends

→ ASMR growth is fueled by its ascendance as a top YouTube genre – ASMR content is now pushing into role playing, food, etc.

→ Strong growth in diet trends – and as 'smart' protein replacement brands start to hit shelves & restaurants, popularity is climbing



Wellness Trends | mapping trends to Pulsar’s virality model

The strong year-on year and recent increase in CBD buzz, plus its low volatility, make it a ‘Steady Grower’





High growth in social conversation year-on-year and in recent months, as well as low volatility, suggest that CBD is a “Steady Grower” trend

CBD conversation volume is climbing faster than the broader Cannabis conversation



3

**Understanding trend
audiences:
how audience composition
impacts spread**

Every trend has an audience, and for grower trends like CBD, it's important to understand who that audience are and what motivates them



Here we'll look at:

- The sub-communities amongst the CBD audience
- Personas of the sub-communities



Our CBD category listening focused on 3 audiences:



GENERAL

Who?

The total audience who participate in CBD social conversation across US & UK

Sample Keywords

#cbd #cannabidiol
#cannabinoid



SPORT

(subset of the general audience)

Who?

People who talk about CBD in the context of their athletic routine or recovery process

Sample Keywords

#fitness #sport
#enhanceperformance #athlete



PAIN & MEDICAL

(subset of the general audience)

Who?

People who talk about CBD in the context of pain management, relief, or medical use

Sample Keywords

#painrelief #mmj #chronicpain
#medicalmarijuana



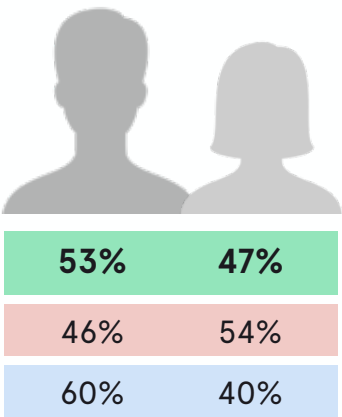
Relative to the Pain audience, the Sport audience sees more niche sub-communities and less overlap with the general CBD audience – suggesting a need for a customized targeting & messaging strategy around CBD + Sport

CBD Social Audience Overview

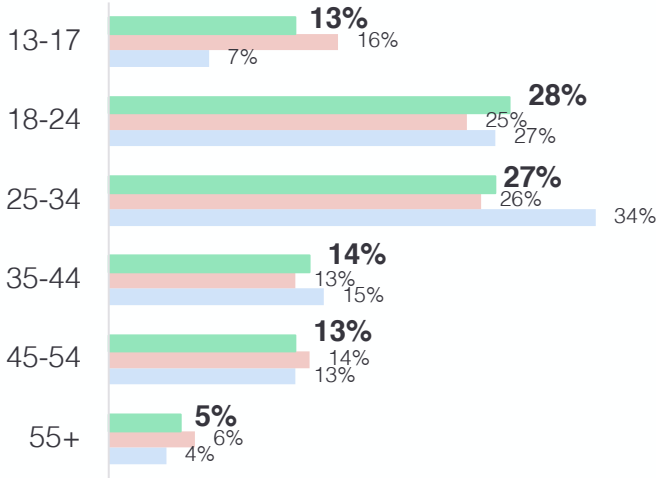
The Sport audience skews slightly older and more male than both the General & Pain audiences



GENDER



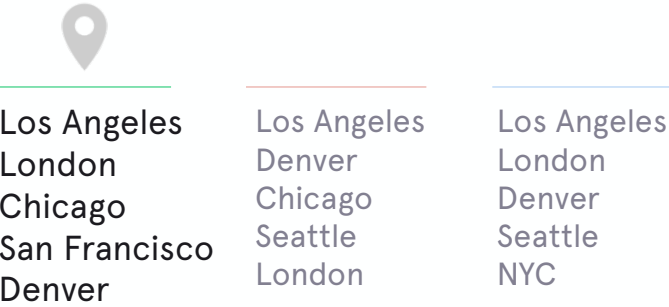
AGE



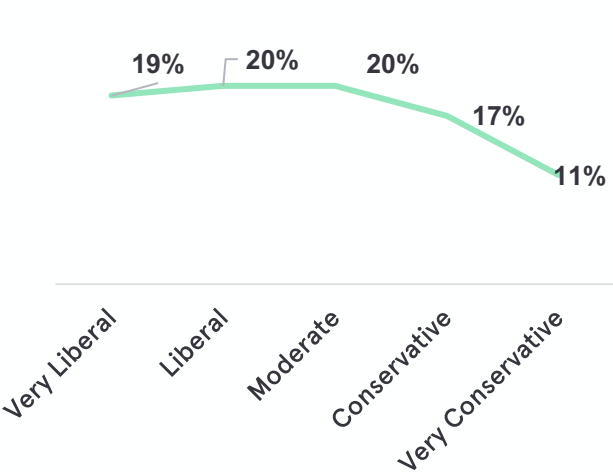
TOP BIO KEYWORDS



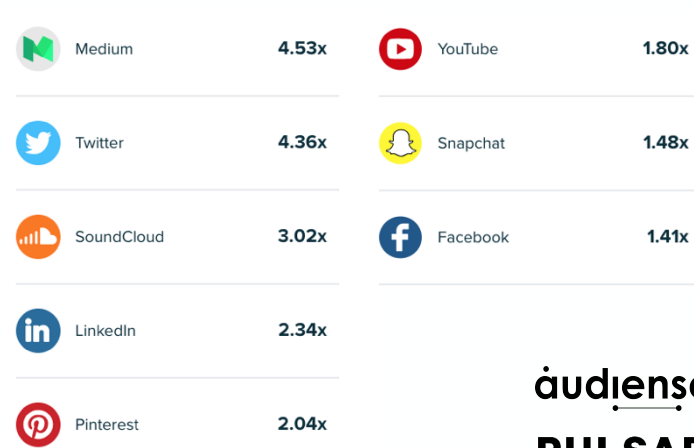
TOP CITIES



POLITICAL AFFINITY (General only)



SOCIAL PLATFORMS (General indexed vs. gen. pop.)

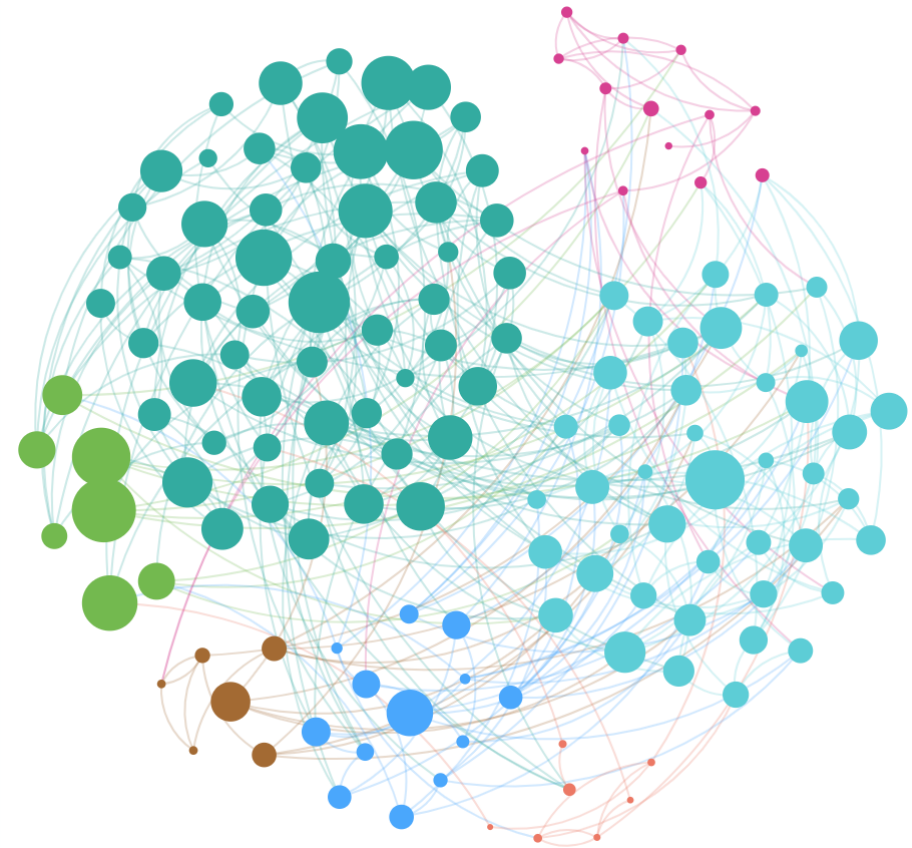


Among the General audience, we find 7 top sub-communities

Audience Mapping: the graph shows the user groups within the audience that have common affinities & characteristics

- Size of the segments = proportional to the # of members in the segment
- Lines represent interconnections between different members
- Size of each circle (nodes) = the # of interconnections the user has

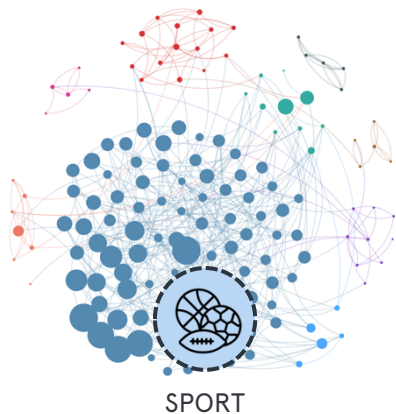
- Cannabis Culturists, 18%**
Young adults who participate in the wider cannabis community as a hobby
- Wellness Seekers, 13%**
Searching for motivation, health tips, products to improve the everyday
- Political Liberals, 4%**
Twenty-somethings incorporating CBD use into their left-wing beliefs
- Nutritionistas, 4%**
Majority women, seeking the benefits of CBD for nutrition & fitness goals
- Artists, 2%**
Twenty-somethings engaging in creative industries and self-expression
- Green Activists, 2%**
Young men involved in the culture of naturalism and 'green ethics'
- Political Conservatives, 2%**
Young men engaging against CBD as part of their right-wing political beliefs



Unique to the General audience

Cannabis Culturists and politically-minded communities are common across audiences

Legalization Advocates are unique to the Sports audience, suggesting sport is a driver of advocacy for mainstream acceptance



Cannabis Culturists, 5%

Political Liberals, 2%

Nutritionistas, 2%

Political Conservatives, 2%

Sport audience unique segments:

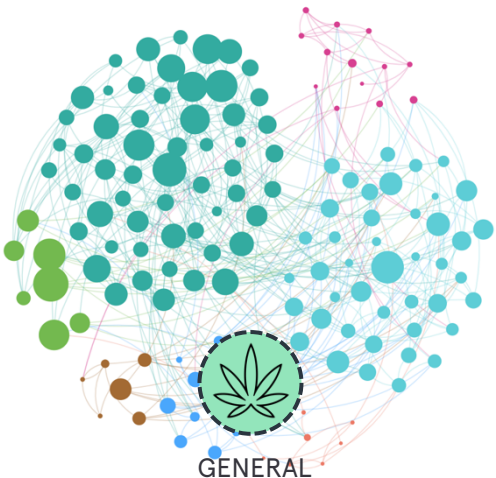
Legalization Advocates, 38%

MMA Fans, 7%

Fitness Addicts, 4%

The Kanye Crowd, 3%

Academics, 2%



Cannabis Culturists, 18%

Wellness Seekers, 13%

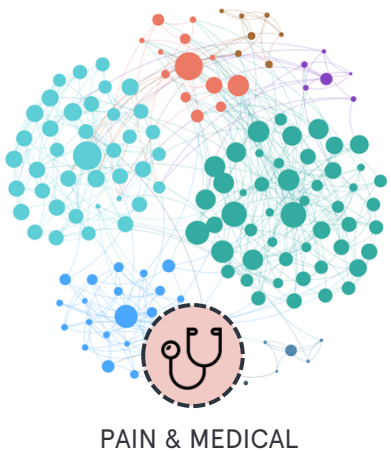
Political Liberals, 4%

Nutritionistas, 4%

Artists, 2%

Green Activists, 2%

Political Conservatives, 2%



Cannabis Culturists, 20%

Mommy Wellness Seekers, 16%

Political Liberals, 10%

Political Conservatives, 3%

Pain audience unique segments:

Mindful MMJers, 5%

Disabled Healers, 3%

News Junkies, 2%

Gamers & Stoners, 2%

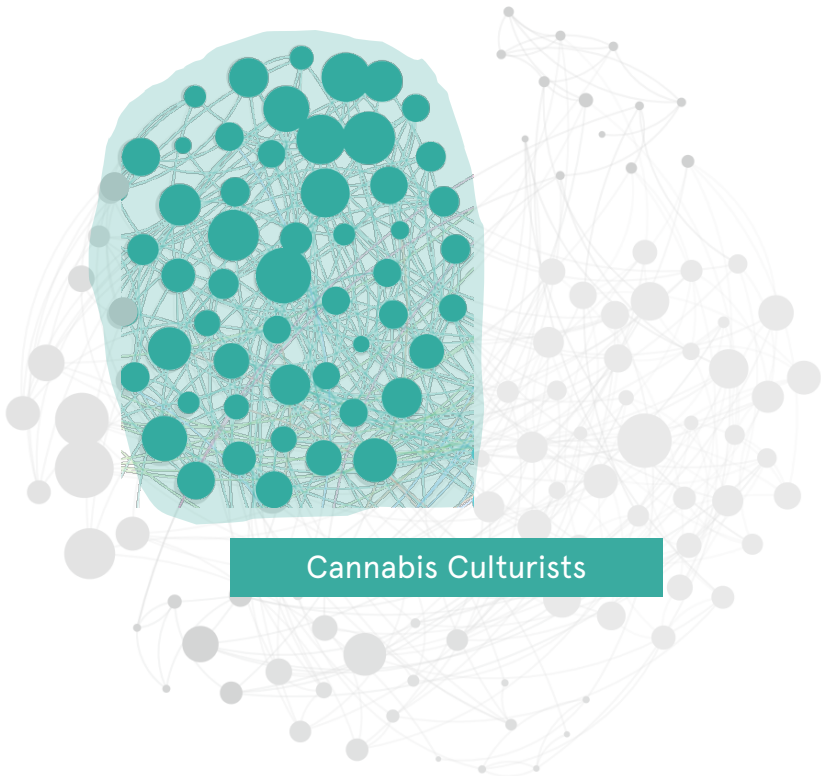


CBD General Audience Personas



Cannabis Culturists, 18%

Young adults who participate in the wider cannabis community as a hobby

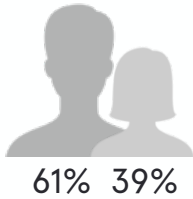


Cannabis Culturists

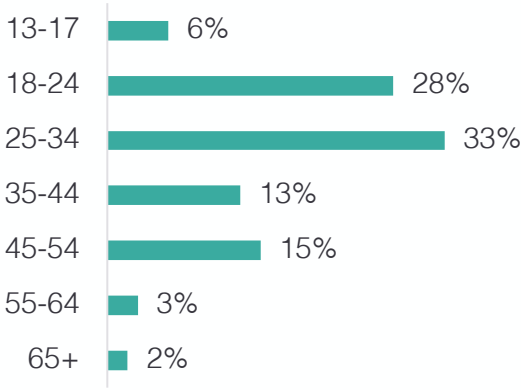
Top Bio Keywords:

“Products”
“Industry”
“High”
“Medical Cannabis”
“Recreational”

Gender

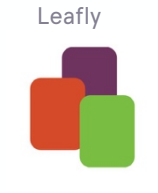
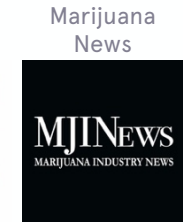


Age

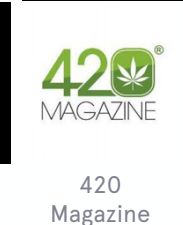


Key affinities

DISTINCT
INFLUENCERS /
TRUSTED BRANDS



TOP INFLUENCERS /
TRUSTED BRANDS



CBD General Audience Personas



Wellness Seekers, 13%

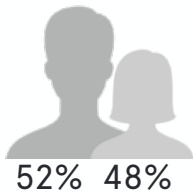
Searching for motivation and health tips & products for their everyday lives



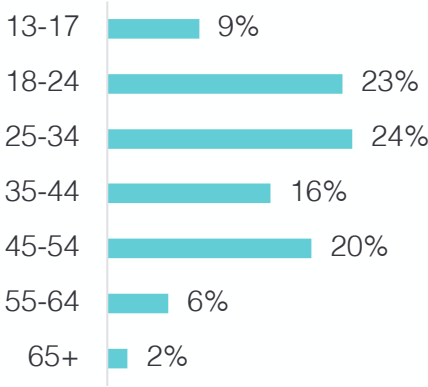
Top Bio Keywords:

- "Health"
- "Wellness"
- "Lifestyle"
- "Fitness"
- "Help"

Gender



Age



Key affinities

DISTINCT
INFLUENCERS /
TRUSTED BRANDS

Huffpo	Harjinder Singh Kukreja	Dr. Joyce	Better Living	Aaron Lee

TOP INFLUENCERS /
TRUSTED BRANDS

Nasa	Dalai Lama	Ellen DeGeneres	YouTube	Oprah Winfrey

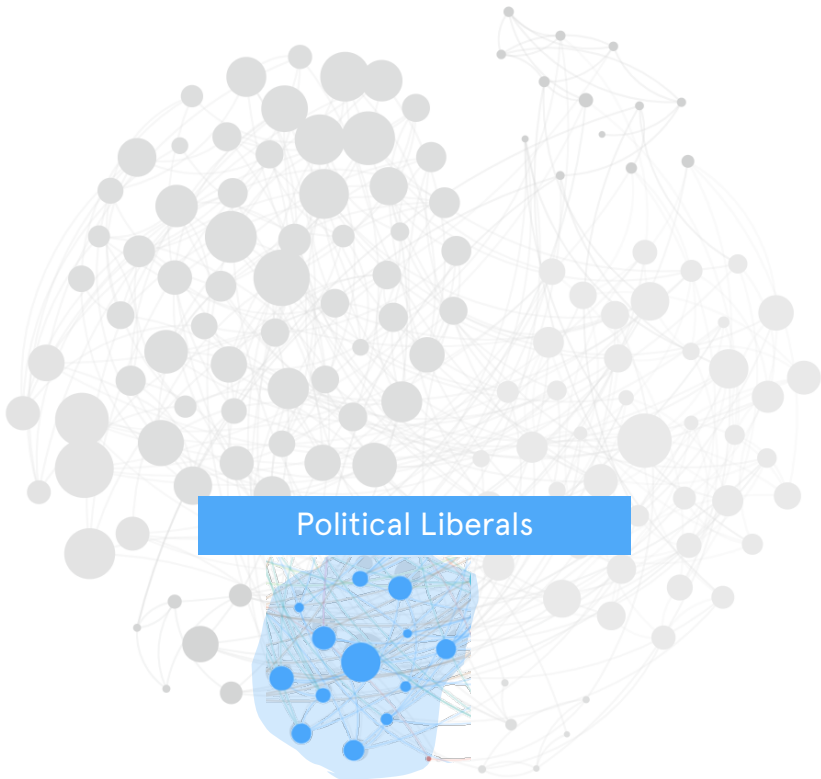


CBD General Audience Personas



Political Liberals, 4%

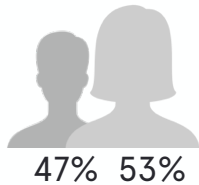
Twenty-somethings incorporating CBD use into their left-wing beliefs



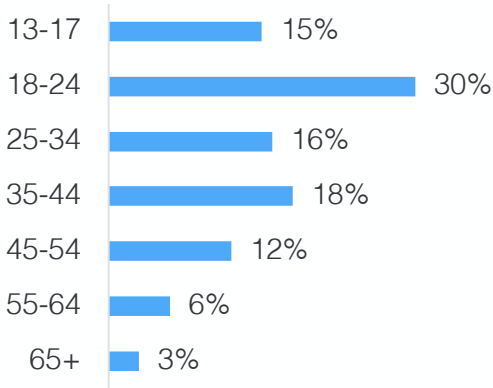
Top Bio Keywords:

- "Resist"
- "Politics"
- "Resistance"
- "Liberal"
- "Writer"

Gender



Age



Key affinities

DISTINCT
INFLUENCERS /
TRUSTED BRANDS

TOP INFLUENCERS /
TRUSTED BRANDS

Tea Pain	Ted Lieu	Emma Gonzalez	Rachel Maddow	Ed Krassenstein
Barack Obama	Hilary Clinton	Stephen Colbert	Elizabeth Warren	Association Press

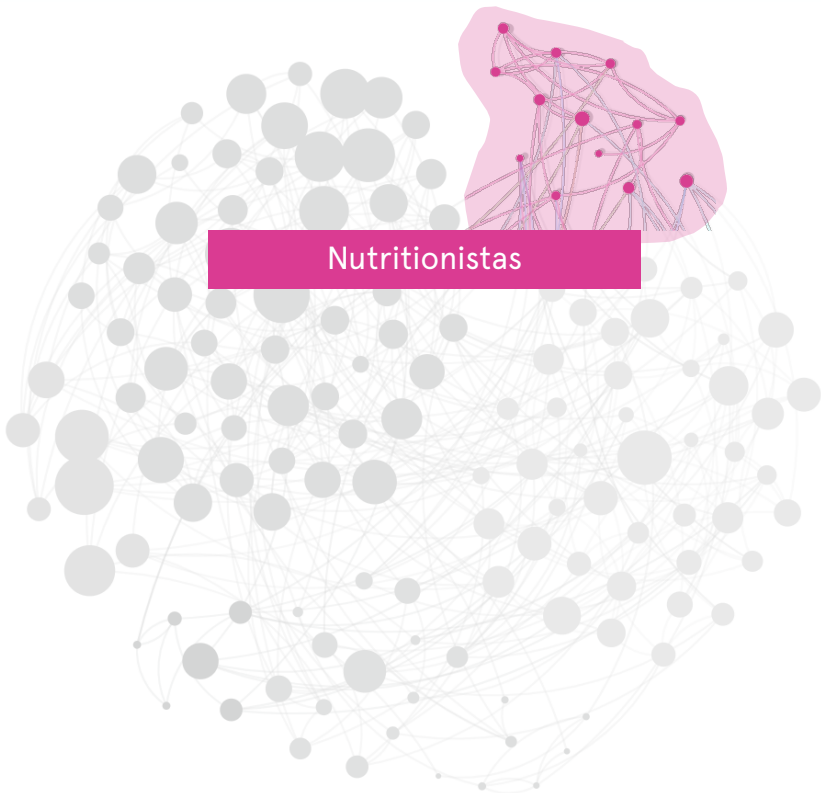


CBD General Audience Personas



Nutritionistas, 4%

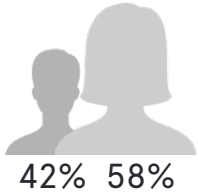
Majority women, seeking the benefits of CBD for nutrition & fitness goals



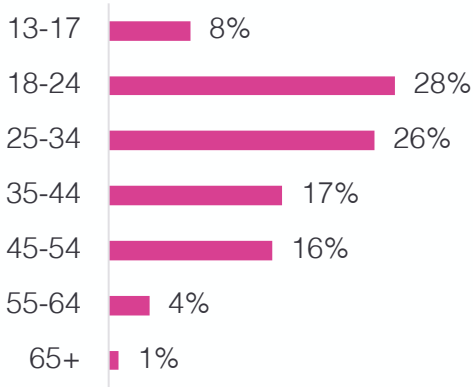
Top Bio Keywords:

"Nutrition"
"Fitness"
"Health"
"Products"
"Natural"

Gender



Age



Key affinities

DISTINCT
INFLUENCERS /
TRUSTED BRANDS

TOP INFLUENCERS /
TRUSTED BRANDS

Dr. Oz	Dr. Joseph Mercola	Andrew Weil M.D	Whole Foods	Mind Body Green
Barack Obama	Oprah Winfrey	Ellen DeGeneres	New York Times	Women's Health



Thank you
PULSAR 

visit **pulsarplatform.com** for
more information