# gumgum

### Consumer Behavior Change Amid COVID-19: Seen Through CONTEXT

April 16<sup>th</sup>, 2020



### Greetings from the CEO

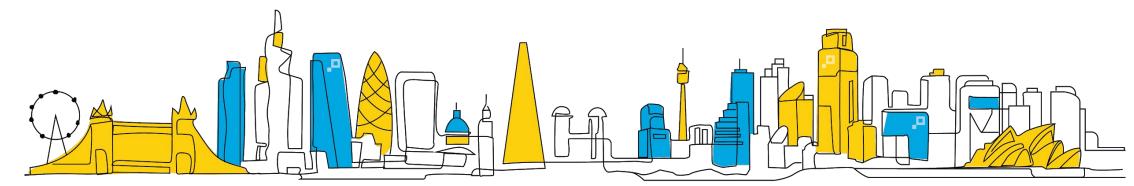
This is, for all of us, a historic moment. Like you, we are closely monitoring the COVID-19 situation. And, like you, we are aware of the challenges and uncertainty surrounding it. We know that, at this time, you need partners who are nimble, flexible and creative—and we thank you for trusting GumGum to be those things for you.

I am writing to let you know not only that we remain fully mobilized to deliver on your business objectives with the highest level of support, but also that we are taking concrete steps to support our partners who are being impacted.

Commitment to the success and well-being of our clients and partners has always been central to our mission. Rest assured, my team and I are pledged to that commitment, now more than ever.

All the best,

Phil Schraeder CEO, GumGum



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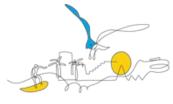
### Topics

US Case Study: Trends in the US advertising industry surrounding COVID-19
US Case Study: Brand safety concept for COVID-19 related content
US Case Study: Brand Safety Analysis (In-house research)
JPN Case Study: Changes and trends in content that consumers engage with (In-house research)

Awareness Campaign: The Ad Council #AloneTogether

### Leading Company of Contextual Targeting

GumGum is an artificial intelligence company with patented semantic (contextual) analysis and image recognition technology. We are an advertising platform specializing in the real-time understanding of the **context** of a page. Founded in Santa Monica in 2008, we are the market leader in contextual advertising.



SA

Est. Santa Monica, US



300

**Global Staff** 





A

Computer Vision (Image analysis technology)



70%

Used by over 70% of Fortune 100 companies



44%

Higher brand recall than the IAB average



### 39% of consumers are reading online news more than usual

Interest in new content online is growing.

42% of advertisers have changed March-June marketing strategies

Advertisers have reduced targeting news and political content.

## 70% of consumers actively consider booking travel from 2021

Considering travel once the situation settles down.

## 63% of advertisers have adjusted their ad messaging

More mission-driven messaging (+42%) and more educative (+41%) marketing techniques.



#### US Case Study: Trends in the US advertising industry surrounding COVID-19

Trends related to marketing strategy:

- 42% of advertisers consider adding additional budget to mission-based marketing
- 41% of advertisers consider adding advertising budget to cause-related marketing



As remote work is being strongly encouraged globally, Microsoft is offering free use of Microsoft Teams for a limited time.





In the US, the unemployment rate surged due to the impact of COVID-19, and the number of unemployed people is estimated to be 7 million in March 2020.

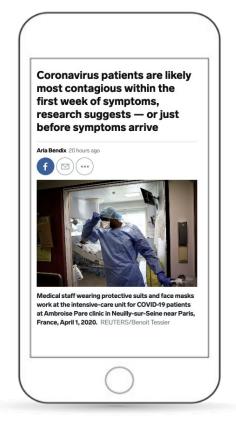
Amazon's cause-related marketing measures in response to the situation.



#### US Case Study: Trends in the US advertising industry surrounding COVID-19

#### Brand safety trends:

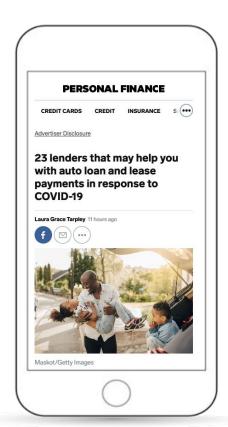
- About 1/3 of advertisers have blacklisted COVID-19-related keywords
- "Coronavirus" became the second-most common word on block lists for news publishers
- GumGum's own research found that not all COVID-19-related content is necessarily negative. (See page 9)





Unsafe

The context suggests that the content includes negative content such as death or patient.



Safe

Although it is an article related to COVID-19, the content itself is positive about savings, car loans, and family.



#### US Case Study: Brand Safety Analysis (In-house Research)



#### **Data Collection Method**

GumGum's machine learning-based content analysis and brand safety engine, Verity, identified pages across the GumGum publisher network that contain COVID-related keywords.

Utilizing image recognition and natural language learning technology, we performed brand safety judgment and categorization into contexts. Category classification of context is based on IAB definitions.

Geo: US

Period: March 25 - 31, 2020

#### US Case Study: Brand Safety Analysis (In-house Research)

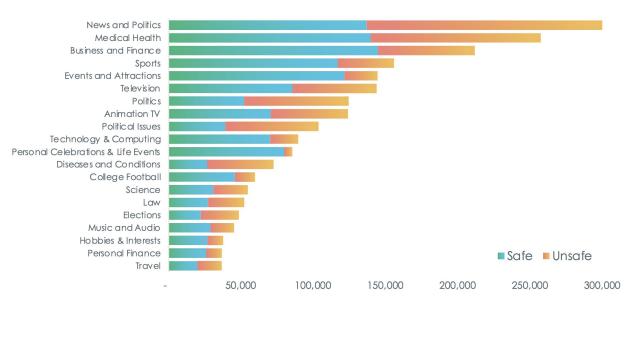
Brand safety judgment by GumGum's contextual analysis engine:

- More than 60% of COVID-19 related articles are safe to place ads on.
- 46% of COVID-19 related news and political articles are safe for advertising

PAGES WITH COVID-19-RELATED KEYWORDS Analysis: 3/25/2020 - 4/6/2020

200,000 150,000 100,000 50,000 50,000 Safe Unsafe

Top 20: IAB Content Categories by Page Count





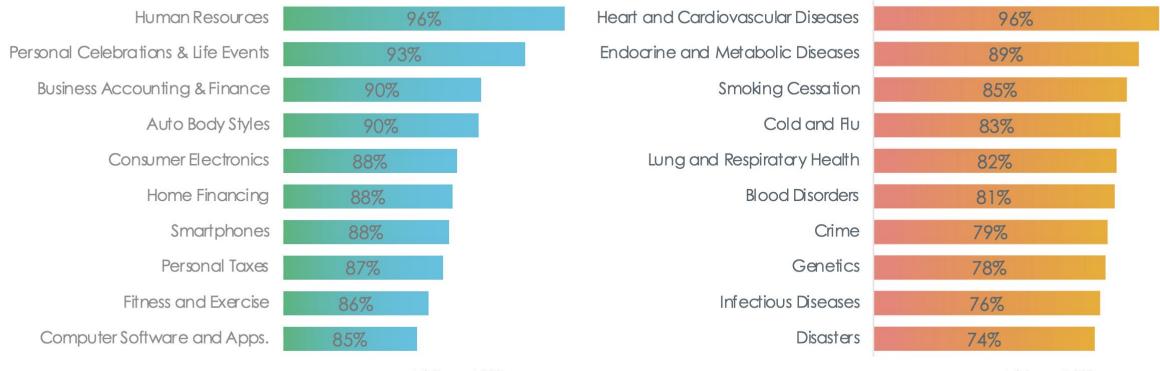
#### US Case Study: Brand Safety Analysis (In-house Research)

Brand safety judgment by GumGum's contextual analysis engine:

- 96% of Human Resources articles related to COVID-19 are safe
- 96% of Heart and Cardiovascular Diseases articles related to COVID-19 are not suitable for advertisement







Minimum 1,000 pages Minimum 1,000 pages





#### **Data Collection Method**

Screened Japan publisher partners' pages with GumGum's context analysis engine. Classifed the contexts and category attributes of each article based on the category list defined by IAB, and using GumGum's in-house tool, calculated the volume of the classified amount.

GumGum Context AI classified pages into 3 groups.

Large Classification: Site Category

Middle Classification: Contextual Category

Small Classification: Keyword Group

Research method: Compared the volume of content (large, medium, and small classifications) in the GumGum Japan network between January 2020 vs. April 2020.

Calculation method: (Volume in April ÷ Volume in January) - 100% = 00%

Ex: (1,000,000 ÷ 500,000) -100% = 100% / April volume increased 100% (double) compared to January volume.

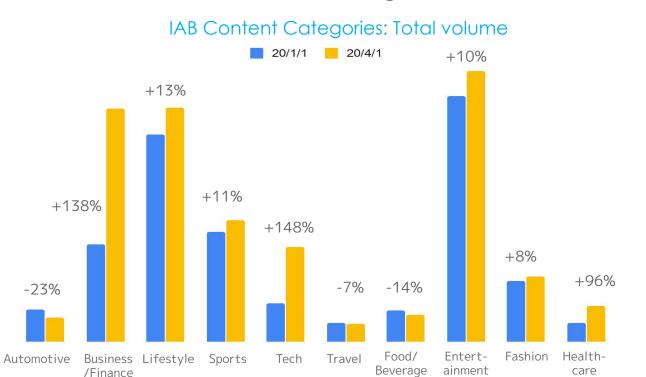
Geo: Japan

Period: January to April 7, 2020

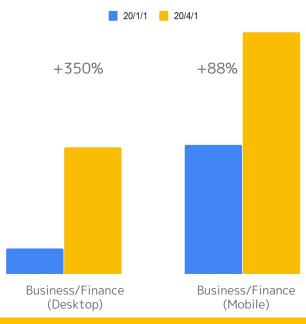




#### Large Classification: Site Category



### IAB Content Categories: Business & Finance Per Device



#### Overall Trend

- Business/Finance content increased significantly. Since Technology is also increasing, it is considered that the content related to office environment around remote work and tech company donations has increased.
- Entertainment and Lifestyle are increasing.
- Travel, which is expected to be affected by the voluntary self-restraint request, has only decreased slightly.
- · Automotive had the greatest decrease in views.

#### Business & Finance

- Comparing Business/Finance by device, we can see that mobile views have increased, while desktop views have increased significantly.
  - Hypothesis: While there is a general interest in business & finance, we can assume that access from desktop has increased due to an increase in the number of businesspeople adopting remote work and a decrease in commuting/travel time.



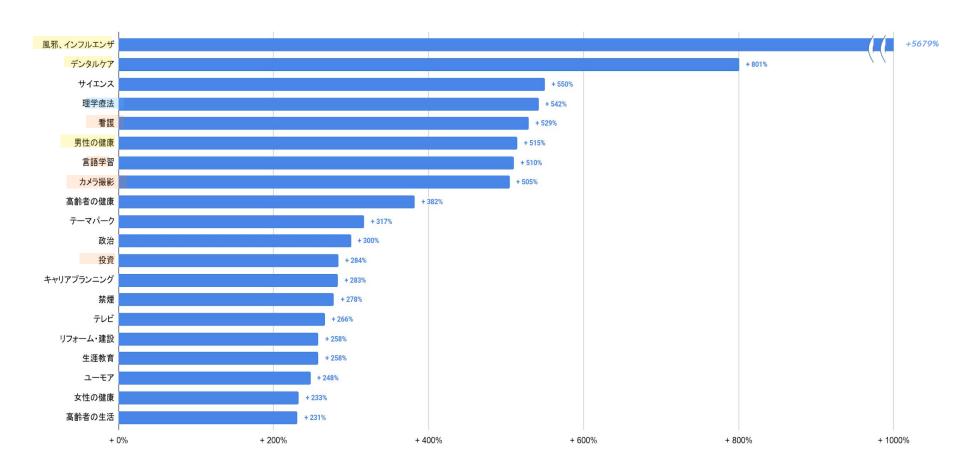


#### Middle Classification: Contextual Category

#### Increase TOP 20:

- Increased awareness of health related issues such as cold/flu, dental care, and health topics for the elderly.

  Similarly, smoke-free content is increasing, but thought to be related to the April 1 enforcement of health promotion law amendment.
- There is growing interest in self-development and self-investment such as language learning, investment, career development, etc.
- Increased interest in psychological stability and bright topics such as physical therapy and humor



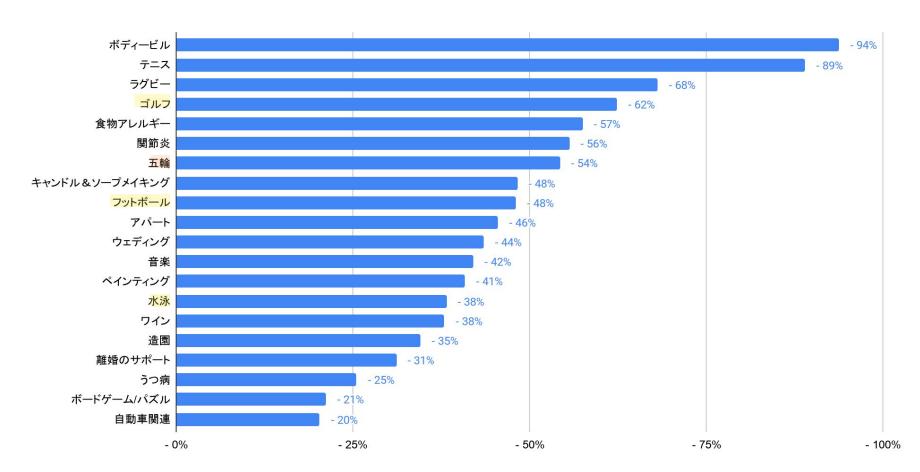




#### Middle Classification: Contextual Category

#### Decrease TOP 20:

- Decreased interest in sports such as swimming, football, and golf
- Olympic-related views decreased by less than half in April, compared to January before the postponement was decided

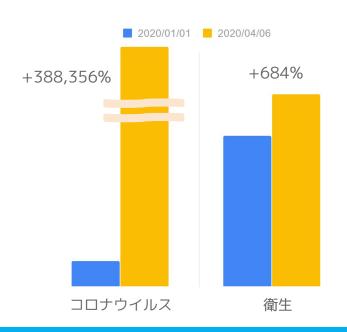




#### Small Classification: Keyword Group

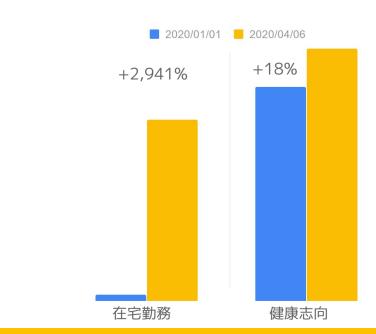
#### Increases:

- Increase in articles about coronavirus, as well as views
- Along with the above rise, views of articles related to remote work and health-oriented articles increased.



#### Keywords related to Coronavirus/Hygiene

- Keyword examples (Coronavirus)
   コロナウイルス・コロナ・コロナウィルス・corona virus corona・新型コロナウイルス・新型肺炎・covid-19, etc.
- Keyword examples (Hygiene-related)
   感染症対策・飛沫感染・接触感染・濃厚接触・咳エチケット 潜伏期間・衛生対策・手洗い・アルコール消毒, etc.



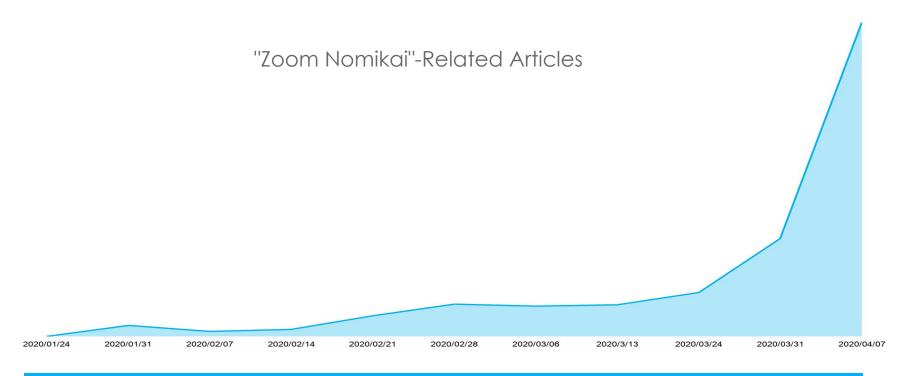
#### Keywords related to Self-restraint/Health

- Keyword Examples (Remote work)
   在宅勤務・リモートワーク・テレワーク・インターネット環境 オンライン会議 ・ビデオ会議・zoom ・slack, etc.
- Keyword Examples (Health consciousness)
   乳酸菌・R-1・睡眠・栄養・免疫力・ビタミンタンパク質・プロテイン・免疫・入浴, etc.





#### Small Classification: Keyword Group



#### Insight

- With the increasing focus on online conferencing, pages about drinking parties (Nomikai) using Zoom have been increasing.
- By using GumGum's targeting methods, it is possible to deliver campaigns aimed at promoting consumption at online drinking parties, etc., and campaigns to raise awareness of online meeting tools.

#### Awareness Campaign: The Ad Council #AloneTogether

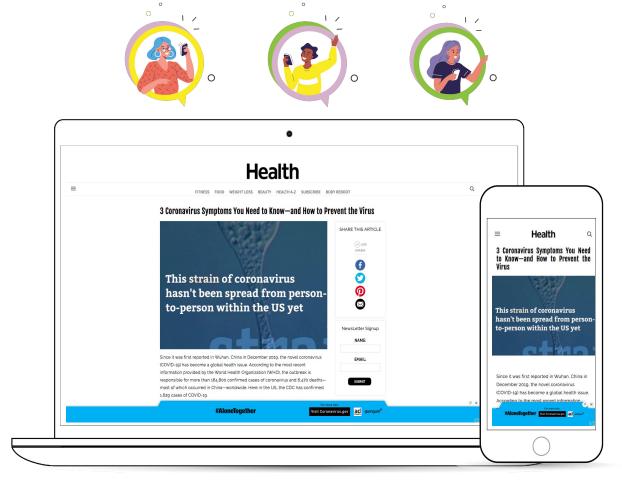
GumGum has partnered with the Ad Council to run an awareness campaign to encourage people in the US to stay home.

#### Overview

GumGum, as an awareness campaign for the spread of COVID-19 infections, has partnered with the public advertisement of the Ad Council to contribute to creative production and advertisement distribution. This was one of the first free advertising campaigns among media companies.

The message **#AloneTogether** calls on people in the US to stay at home and fight together to prevent the spread of COVID-19.

It is extremely important to increase the visibility of the messages that need to be conveyed when conducting awareness programs. GumGum's ads had 90% viewability and above-average engagement; thus showing that people are interested in the #AloneTogether message.







Contact us:

japan-sales@gumgum.com

