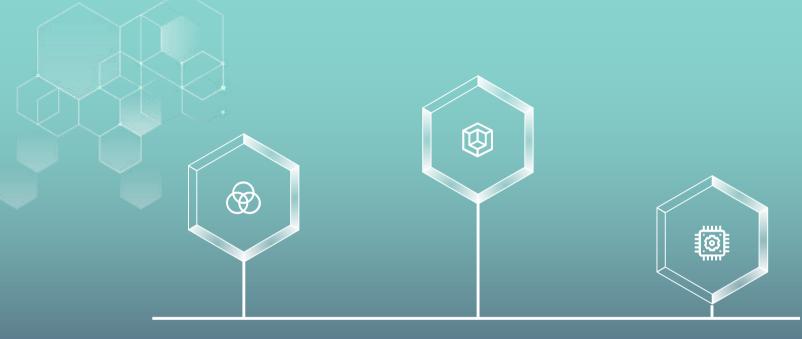
Display Advertising



Task I

Overview of the Display Ads industry

Task 2

Business operations in the industry

Task 3

How are online display ads bought and sold?



Historical Note: Banners

Banners seem to be the oldest standard format in use.

The first "banner ad" was launched by AT&T on Oct 27, 1994 on Hotwired, the web version of Wired.



Part of the <u>AT&T "you will" ad</u> campaign

The AT&T You Will Campaign

Each ad presented a futuristic scenario beginning with "Have you ever..." and ending with "...you will. And the company that will bring it to you: AT&T."

At that time, there were about 30 million people on the Internet.

The ad predicted a number of innovations including GPS navigation, Wi-Fi, tablet computing, smartwatches, distance learning etc.

Display Advertising

Struggling Rural Colleges, Towns Find Fates Intertwined

As America's rural colleges struggle with falling enrollments and local flight, they are realizing how their own futures are intertwined with the broader community.



 There's an Antidote to America's Long Economic Malaise: College Towns (Dec. 12)

Bring Back Jobs From China? In Shenzhen, They Aren't That Worried

Donald Trump's threat to compel Apple and others to manufacture more at home should strike fear into Shenzhen, where the



world's tech gadgets are made. Yet executives here aren't worried by Mr. Trump.

Stock Futures Edge Up as Dow Nears 20000

Futures pointed to a small opening gain for the Dow





Myanmar's Right-Hand Cars Feel Wronged by State Ban



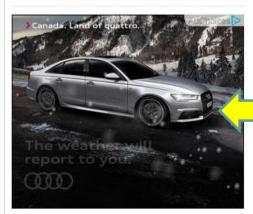
Trump's Israel Envoy Pick Helped Fund Settlers



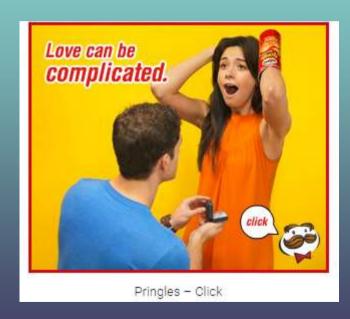


The Case for a Rules-Based Fed

The Case for a Rules-Based Fed By John B. Taylor | Commentary



Examples of interactive banners







Telegram app cracks down on IS propaganda channels

In this memory

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Technology

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Share this story was come

More on this story Andreas Street, and transport to IS alternate ratio for excess in Completent Space attention



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Places corned by Suppose Pri

More Videos from the BBC





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Elsewhere on SBC































Webiner





ADVESTIGATED











He Florite Settle SEE Tile Her You, Trains

This is an example of the BBC website. How many ads do you find on this webpage?







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Seed place to be a semant

Both ads from SAS. This is a behavioral targeting ad. It is becoming popular to have two ads on the same page.





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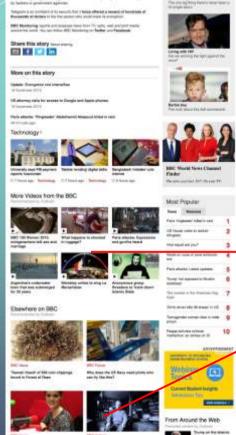


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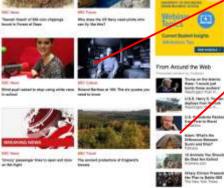
Many Climate Francis Ster Princip Settle (SE

This is an ad from University of Rochester Business School. It is a retargeting ad.





They are also ads, even though they look like real content. This is called native ad.





BBC News

'Toenail Hoard' of 500 coin clippings found in Forest of Dean



BBC Future

Why does the US Navy need pilots who can fly like this?



BBC News

Blind pupil asked to stop using white cane in school



BBC Culture

Roland Barthes at 100: The six quotes you need to know

Raqqa activists criticise 'ineffective' air strikes on IS



UNIVERSITY OF ROCHESTER, SIMON BUSINESS SCHOOL

Webinar Topics



Current Student Insights Admissions Tips

VIEW SCHEDULE >

From Around the Web

Promoted content by Outbrain



Trump on the Islamic State: 'I would just bomb those suckers' Washington Post Vi...

U.S.S. Harry S. Truman

Native Ads

Native advertising is a type of advertising that matches the form and function of the platform upon which it appears.

It is hard for consumers to distinguish between content and native ads.

More Videos from the BBC







Breed down barrely 28 otto missing after dam burst



other taugh in six seconds



Orear lamail Mostaful?



fair arm chooped off in **Bould Aretics**







attacks to children?



The woman in the American Rec.

Most Popular

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Webinar



Current Student Insights

THE RESERVE !

From Around the Web



Ted Cruz Challenges President Obarra to Dobets on Syrian ...



13 Hillarious Pictures. That Prove Victorian Times Weren't That.



Say hello to the deadlest thing in the



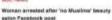
A Bare interview With A To Bog of Author Ton



RANKED: The 15 Dumbest Presidents.

Elsewhere on BBC





Why do we still not know what's inside the pyramids?









BEC Name

Russia tourist suffers oold attack in India's Varansel



Andreas Gursky: The bigger the better?



BBC Fiture

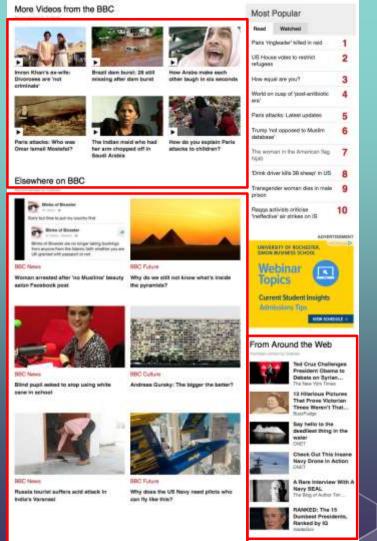
Why does the US Navy need pilots who cars fly like this?

Native Ads

Advertisers face a trade-off between ad clicks and brand recognition.

Publishers need to strike a balance between ad clicks and the platform's trustworthiness.

For policy makers, concerns that native advertising confuses customers prompted the U.S. Federal Trade Commission to issue guidelines for disclosing native ads.



The first native ad (1901)

What Will Become of China?

None can foresee the outcome of the quarrel between foreign powers over the division of China. It is interesting to watch the going to pieces of this ancient but unprogressive race. Many people in America are also going to pieces because of dyspepsia, constipation, blood, liver and stomach diseases. We are living too fast, but strength, vigor and good health can be retained if we keep off and cure the above diseases with Hostetter's Stomach Bitters.

Targeting based on simple rules

Geo-targeting

Target by country, state, city, IP address

OS / Browser / Devices

Segment based on technology

Day and time

Specify display times to the minute



Retargeting



Display has the largest share >50% of digital ad spending



Digital Ad Spendir billions	ng in the	US, by F	ormat, 2	019-2023	3
	2019	2020	2021	2022	2023
Display	\$70.06	\$81.38	\$92.53	\$100.71	\$107.91
—Video	\$36.01	\$42.58	\$49.02	\$53.99	\$58.39
—Banners and other*	\$25.94	\$30.20	\$34.23	\$37.12	\$39.70
—Rich media	\$5.28	\$5.44	\$5.85	\$6.00	\$6.10
—Sponsorships	\$2.84	\$3.16	\$3.44	\$3.60	\$3.72
Search	\$53.73	\$63.90	\$73.31	\$80.43	\$87.15
Lead generation	\$2.59	\$2.84	\$3.05	\$3.15	\$3.24
Classifieds and directories	\$2.19	\$2.34	\$2.49	\$2.53	\$2.56
Email	\$0.49	\$0.55	\$0.61	\$0.65	\$0.68
Mobile messaging	\$0.28	\$0.28	\$0.29	\$0.29	\$0.29
Total	\$129.34	\$151.29	\$172.29	\$187.77	\$201.83

Note: includes advertising that appears on desktop and laptop computers as well as mobile phones, tablets and other internet-connected devices on all formats mentioned; *includes ads such as Facebook's News Feed Ads and Twitter's Promoted Tweets

Source: eMarketer, February 2019

T10056

www.eMarketer.com

Display used to fall behind search

US Digital Ad Spending, by Format, 2010-2016 billions



Note: includes advertising that appears on desktop and laptop computers as well as mobile phones and tablets on all formats mentioned; data through 2011 is derived from IAB/PwC data Source: eMarketer, Sep 2012

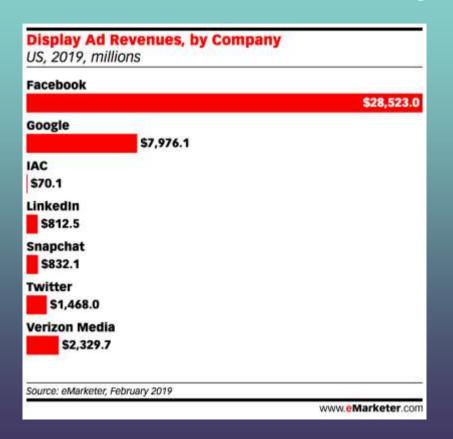
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www.eMarketer.com

Display vs. Search

	Display	Paid Search
Users/consumers	Passive	Proactive
	Near top of the funnel	Near bottom of the funnel
Contents	Image, Video, Animation	Text
Pricing mechanism	Cost per thousand impressions (CPM)	Cost per click (CPC)
	Auctions + real-time bidding (RTB) Or direct buy at fixed CPM	Auctions + offline bids
Advertising objectives	Brand awareness Re-engaging	Lead generation Direct marketing
Placement	Publishers' websites	Search engine result pages

Facebook accounts for the majority of display ad revenue



Facebook: ~40%

Google ~12%



The Basic Idea



Display ads are mainly sold in one of two ways

1) Direct buying from publishers

Bulk ad purchase that specifies the price and quantity, as well as the time frame and targeting criteria Premium Space

Guaranteed contract

Future market

Display ads are mainly sold in one of two ways

1) Direct buying from publishers

Bulk ad purchase that specifies the price and quantity, as well as the time frame and targeting criteria Premium Space Guaranteed contract Future market

2) Real-time bidding (RTB) through Ad Exchange

A platform running an auction to determine which advertiser buys an individual impression in real time (~100 milliseconds) Remnant space Non-guaranteed Spot market

Direct Buying from Publishers

"200,000 impressions to US users on the New York Time's finance related pages in July"

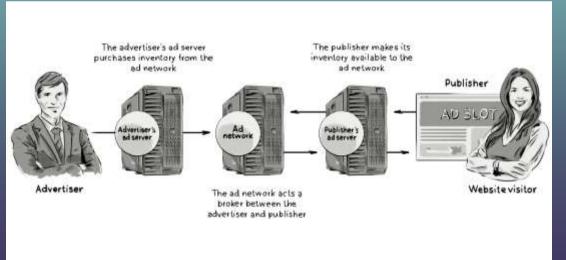
"All impressions on the EPSN homepage on Sept 21"

"300,000 impressions on Yahoo! to a retailer's existing customers in April"

Ad Networks

Ad networks purchase remnant inventory across many publishers and resell to advertisers at a premium.

An essential vehicle for monetizing the Long Tail of the Internet. Provide small and mid-sized online publishers with more advertising revenues.



Ad Networks: Issues

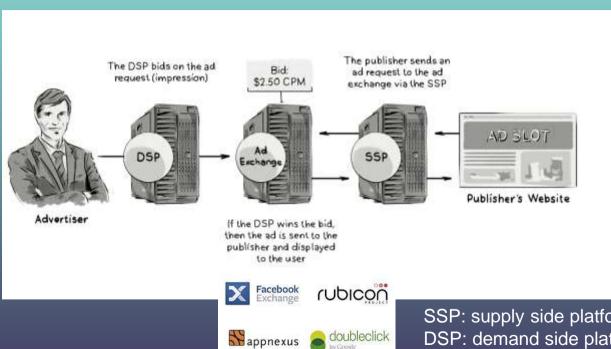
Many <u>ad networks</u> with competing business models.

Lack of transparency.

Fixed CPM — all impressions cost the same regardless of value.

Need efficiency!

Ad Exchange



SSP: supply side platform

DSP: demand side platform

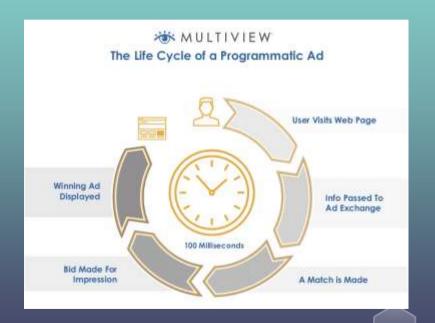
Real-Time Bidding (RTB)

Ad exchanges run auctions to determine which advertisers buys an individual impression in real time (<0.1 seconds)

Real Time Bidders bid on individual impressions in real time as they arise using computer algorithms

("programmatic buying")

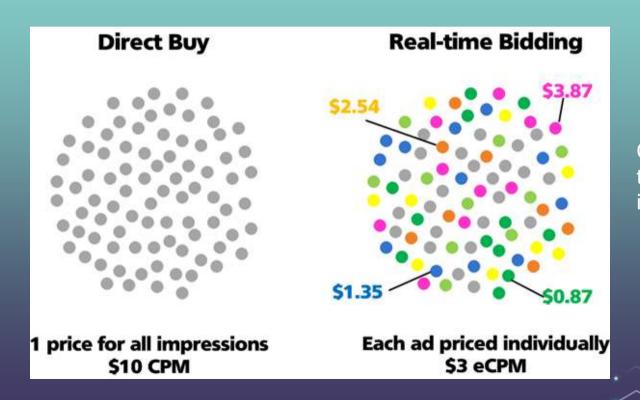
Usually second-price auction.



The Rise of Programmatic Advertising



Direct-Buy vs. RTB



CPM: cost per thousand impressions

Ad Network and Ad Exchange



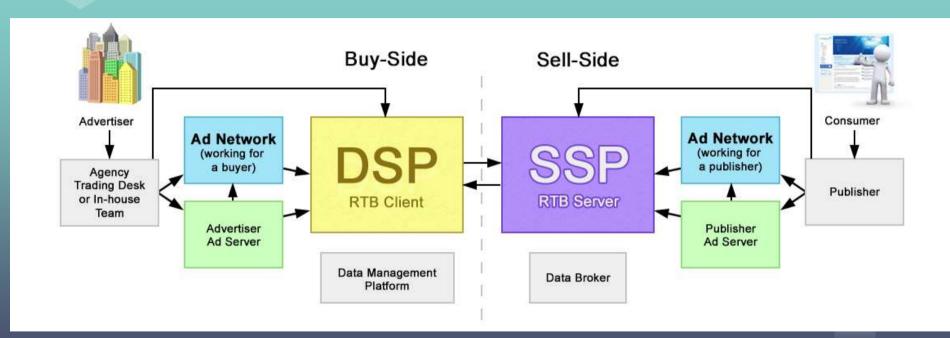
Players in the Space

Demand Side Platforms (DSPs) enable advertisers to

- 1) Use real-time bidding technology
- 2) Purchase inventory across multiple ad exchanges
- 3) Get analytics on campaign performance

Supply Side Platforms (SSP): Inventory management for publishers that allow them to access multiple ad exchanges per auction

The Ecosystem of display ad



Takeaways

Online display advertising continues to grow. Why?

Consumers shifting time online

Increasingly to mobile

Online ads market minimizes transaction cost

Market is complex but brings together advertisers & publishers

like never before



Content Marketing

Content marketing is the process of creating high-quality, valuable content to attract, inform, and engage an audience, while also promoting the brand itself.

Content marketing principles directly apply to SEO, display ads, social media campaigns, and can be more broadly applied.

Why content marketing?

Reputation: establish self as a thought leader in your industry.

Search: Prospects & customers find your answers to their questions online.

Reach: Long run benefit of improving reach at lower cost with library of great content.

Social media: Create value for customers to foster intimacy & retention.

Content marketing rests on...

Research & planning

Know your objective & establish Key Performance Indicator (KPI) Know your audience Know your topic

Content creation

Articles, images, infographics, videos, etc.

Content diffusion

Paid & organic impressions via social, search Complete the loop: Track KPI & update best content

Content research example





Personas: The foundation of content marketing

Personas are a method of market segmentation wherein we collect a combination of qualitative and quantitative data to build archetypes of the members of our target audience

2 components:

Segment elements (demographics, needs, objections)
Humanizing elements (photo, name, personal details)

Why create personas?

Foster customer-centrism

What topics, medium, content depth, tone are relevant?

Is content ratio in line with importance of each persona?

Remind us that we are 'weird': our customer is different

3-6 personas is ideal

Segmentation elements of personas

Demographics: geographic location, age, gender, income and (possibly) ethnicity.

Lifestyle:

For B2Bs: What kind of company do they work for? Job title/area of responsibility?

For B2Cs: What kind of car do they drive? What do they do for fun?

Goals: What motivates them? Do they want to look better?

Segmentation elements of personas

Pain Points

What challenges do they face and how does that make them feel? How can you help overcome challenges or resolve problems to make their daily life or workday better?

Information Sources

Do they search online? Read magazines or newspapers? Talk to people in person?

Humanizing elements of personas

Humanizing elements:

Name & photo

Customer may be different (e.g., gender, race, ethnicity) than you

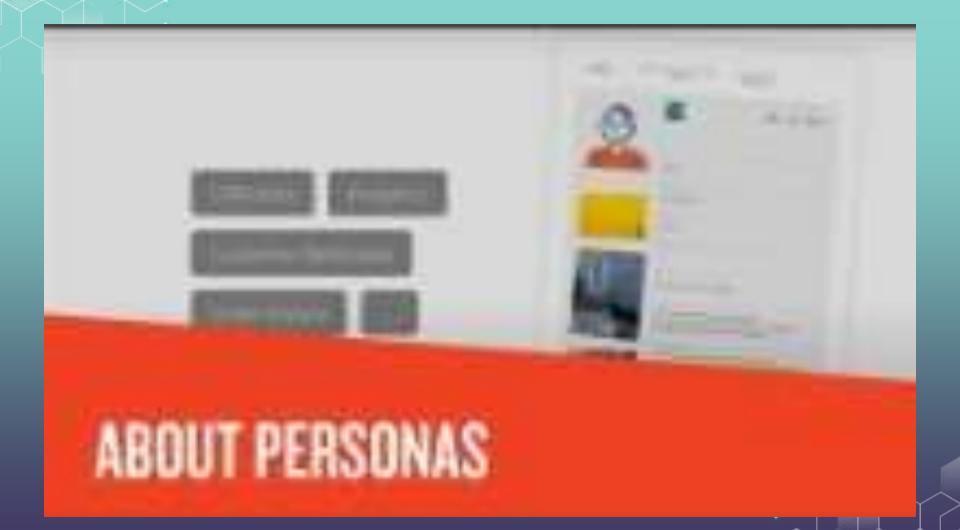
Hobbies

Add real quotes from customer interview

Why? Create empathy for customers

Not 'extraneous' information: Only include elements that are relevant to customer identity

Do we care if persona owns a dog? Yes, for pet clients (and possibly travel). No, for most B2B clients.



Steps to creating a persona (part I)

1. Define your goal (e.g., sales, leads, social engagement)

2. Brainstorm hypotheses for:

Needs: Jot down objection, need, desired experience for any consumer

Attributes

Demographics: Age, gender, location, education, family, job title

Psychographics: Values & goals

Steps to creating a persona (part II)

3. Validate hypotheses with research

personas

Interviews (existing & prospective customers, salespeople)
Social listening (who follows you? what are they saying?)
Hootsuite
https://moz.com/followerwonk/
Click here for an example
https://klear.com/
Site analytics (e.g., Google Analytics)
Traditional market research (e.g., surveys)

4. Build Personas: Combine validated hypotheses into 3-6

DEMOGRAPHIC information:

- Age 46
- \$103,000 annual salary
- BSN from UC Davis
- MHA from Walden University (online degree)
- Married, two kids
- Worked in a large hospital system in CA after nursing school

- Her VALUES AND GOALS: . Son is a junior in high school and her daughter will be a freshman next year: family
- prioritizing their finances to pay for college · Prides herself on staying on top of emails and being responsive to all levels of her
- organization and team Strong advocate for work-life balance in the office but often works several hours in the
- evening except for Friday and Saturday Attends church regularly
- Encourages her staff to grow professionally

THE EXPERIENCE SHE WANTS when seeking out IHI products or services:

- . Wants to be able to read comments and feedback on the IHI programs in the way that she reads Yelp reviews of restaurants
- Would like to conduct a "chat" when she is deciding whether or not to sign up for a program
- Wants to be recognized as a "fan" of IHI even if her attendance level is not what we consider high. She was an enthusiastic OS participant when she got her MHA in 2009.

THE PROBLEMS she has that IHI solves:

- . "I need to balance cost cutting with
- "Getting adoption of best practices is slow and not uniform." . "I would love to be seen as more of a 'go-
- to' leader within the larger organization."

maintaining quality and it's very complex."



Diane Director, BSN, MHA Director of Critical Care at

Terre Haute Regional Hospital in Terre Haute, IN

- Their ROLE AND LEVEL SENIORITY in detail:
- . Reports to VP of Patient Care Services. Administrative responsibilities for a 32 bed
- ICU unit, 35 bed CVICU unit, and 4 cardiac inpatient units.
- Has budgeting power for 300 FTE staff ICU

ONE DAY in the life:

- · Attends lots of face-to-face meetings
- . Conducts office hours in ICU to give nurses and physicians time with her during the week.
- · Handles a significant amount of paperwork related to regulation and compliance
- . Has to be "on call" for scheduling and staffing issues at any hour of the day

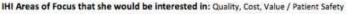
Her main INFO SOURCES and WATERING HOLES:

- SCCM enewsletter
- ICU Director magazine Office hours in departments
- Hospital cafeteria
- After work socialization with department staff on a monthly basis
- Informal chats with former colleagues in CA hospital system
- . IHI Quality Innovators LinkedIn group, Hasn't posted yet; looks through ICU-relevant posts.
- Member of AACN

Her most COMMON OBJECTIONS to IHI's products or services:

- . Needs cost cutting guidance; doesn't know if Bedside to Balance Sheet is for her
- · Wants more content on culture change that could enhance process improvements
- Needs more material on how to get senior leadership behind her efforts; mobility in the ICU was treated as an experiment in the eyes of the VP of Patient Care, not a way forward.
- RNs only get \$500 a year in pro. development funds for non-degree programs; puts IHI content out of reach for her staff.

Persona example: Institute for Health **Improvement** (provides education to health practitioners)



IHI Rings she would engage in (by %): Innovate (5%), Demonstrate Results (15%), Build Capability (75%), Disseminate Knowledge (5%)

IHI programs she has attended/resources used: OS courses, Rethinking Critical Care seminar, Survey Design W+A, WIHI broadcasts on ICU subject matter

Kraft Mac & Cheese: Thumbnail persona

Julia

Woman, age 33 in Des Moines, Iowa Busy mother of 2 boys ages 9 and 13 Divorced, earning \$40K



Values & Goals: Support academically successful & physically active boys Needs: no-fuss, budget meals for young children

Objections: nutritional value of mac & cheese

Experience wanted: quick meal prep and variety

Somewhat active on Facebook & Pinterest

Klear.com confirms that our (Twitter) audience tilts young & female



Klear.com's analysis of follower interests confirms 'motherhood' as important





Research and identify hot topics

Identify popular topic, questions, terms

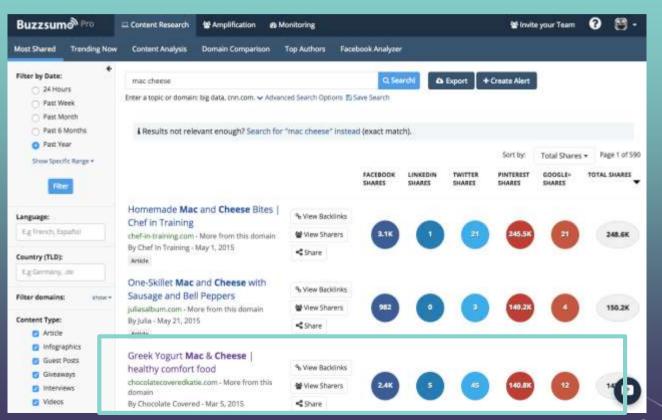
Keyword research tools like Google Trends, Google

Keyword Planner, Answerthepublic, Ubersuggest

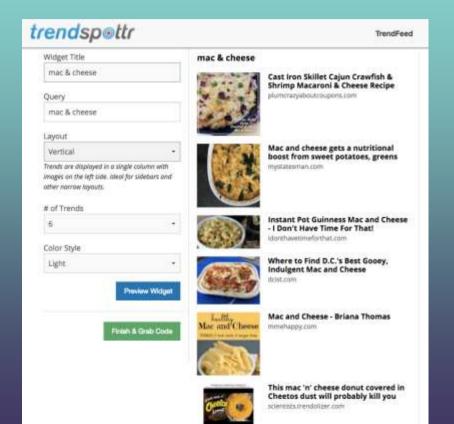
Search autocomplete tools (e.g., YouTube, Google)



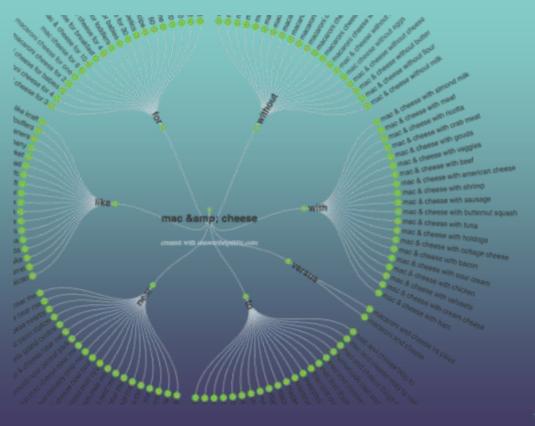
Using Buzzsumo to create trendy content



Using Trendspottr to create trendy content



Answer the Public

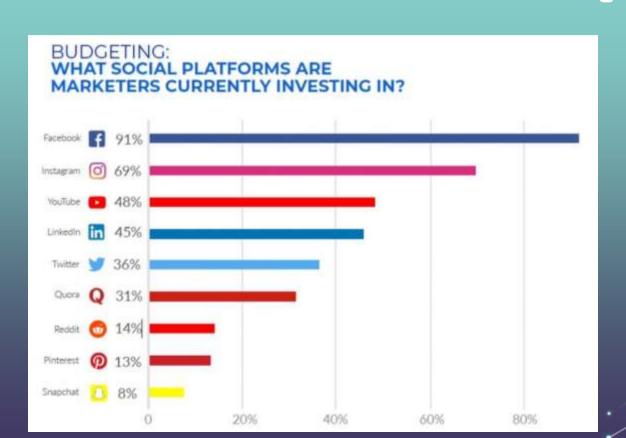


Great yogurt recipe for Julia





Facebook dominates social media advertising market



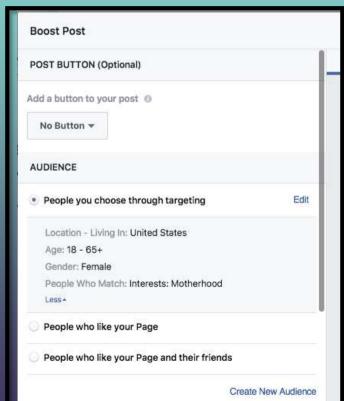
Why going beyond organic?

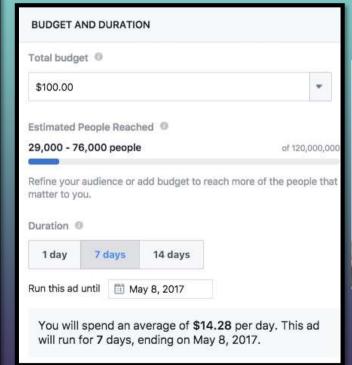
Organic reach: free distribution of page posts to fans.

Decline of organic reach on Facebook (16% in 2012, 6% in 2014, 2% in 2018)

Competition from larger social network & greater sharing.

Buying Facebook ads: define target segment & get the reach/cost tradeoff











Click and Like Fraud

Like farmers pay people in developing world Remember: Fraud is everywhere (click, view, etc.) But, Like fraud creates a lasting distortion (until the offending user is caught)

- Worse, to avoid detection, like farm users will 'like' pages that are not buying fake likes
- Like farm users hard to detect & removing real users destroys their user experience



Reminder

Today is the deadline for submitting your data project.

You can start your group course project. Information can be found on course website.

Course Project

Choose a company/brand and analyze its DM strategy, including:

Its website

Online sentiment (How users talk about the brand online? E.g., user reviews on platforms such as TripAdvisor/Amazon; online discussions on platforms such as Twitter/FB).

Is the company's official social media accounts (e.g., Twitter/IG/FB/YouTube) well managed?

Competitor Analysis and Consumer Analysis

DANIEL WELLINGTON

WATCHES JEWELRY GIFT SETS SMARTWATCH CASE SUNGLASSES WATCH STRAPS COLLECTIONS

*** steel**series

Gaming Gear





Course Project

Get your presentation ready by Nov 25 (Class B) or Nov 28 (Class A).

The order of presentation will be drawn randomly.

You need to submit your project report.



Any questions?