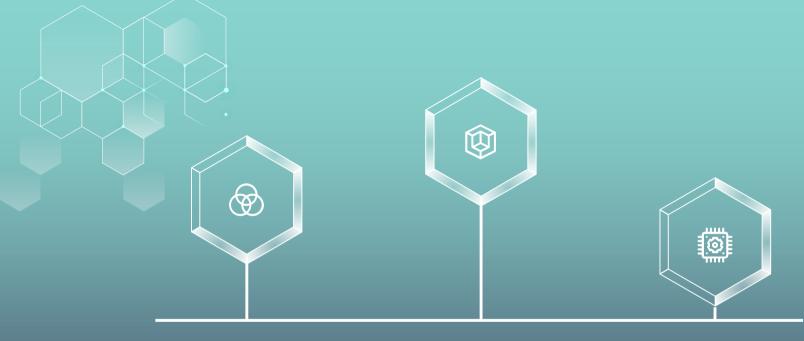
Display Advertising



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





Coal in Trump's Stocking
Review & Outlook

Why Liberals Oppose Ben Carson By Jason L. Riley | Upward Mobility

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



Examples of interactive banners







Telegram app cracks down on IS propaganda channels

By BBC Monitoring

© 2 hours ago | Technology



The secure mobile messaging app Telegram has started cracking down on propaganda from so-called Islamic State group (IS), nearly eight weeks after the terror group set up its own public broadcast channels there.

IS and other jihadist groups have been exploiting new functionality introduced by the app in late September, which allows users to broadcast their messages to an unlimited number of members via their own Telegram "channel"

In an appoundement on Wednesday evening, the Redin-based Telegram said it had shut down 78 IS channels and promised to make it easier for users to flag "objectionable public content" shared via the app.

'We were disturbed to learn that Telegram's public channels were being used by ISIS foltomative name for ISI to spread their propagate " said a statement from Telegram, which was set up in 2013 by two Russian brothers, Pavel and Nikolai

The action followed claims by IS for the 13 November Paris attacks and the downing of a Russian passenger jet over Egypt's Sinai Peninsula on 31 October. Shortly before the key IS propaganda channel on Telegram was shut down on 18.

November, it had been used to publish IS's English-language magazine Dabiq which halled the Paris attacks and featured an image of the bomb IS claims to have used to bring down the plane.

IS had shifted its propaganda distribution to Telegram from Twitter on 26 September just four days after Telegram trumpeted the launch of its new "Channels" tool.

An official IS channel dubbed Nashir, which translates as "Distributor" in English, quickly became the platform where IS propaganda started appearing first, ofter several minutes before being posted to Twitter - IS's other favoured outlet.



The channel had amassed over 16 000 subscribers before it was shut down along with a raft of other IS channels used to distribute the group's propaganda in a wide range of languages, including English, French, Russian, Turkish and Urdu.

But many other irhadist Telegram channels continue to be active, including official

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Paris 'ringleader' killed in raid The man believed to have planned the attacks in Paris. Abdelhamid Abaaoud, was among those killed in a

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





Blind pupil asked to stop using white cane Roland Barthes at 100: The six quotes yo need to know



'Unruly' passenger tries to open exit door









From Around the Web





U.S.S. Harry S. Truma deploys from Norfolk

from First to Worst



lam: What's the unni and Shia?



Hillary Clinton Presents Her Plan to Battle ISIS

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





0 2 hours ago | Technology



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attacks in Paris, Abdelhamid

Abasoud, was among those killed in a

○ 48 minutes ago

IIS House votes to restrict refugees © 37 minutes ago

World on cusp of 'post-antibiotic O 5 hours ago

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Is your data ready for analytics? 5 best practices.





% % A Telegram app

Who are Sinai militant groups?

Features & Analysis



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



by hackers or government agencies. Telegram is so confident of its security that it twice offered a reward of hundreds of thousands of dollars to the first person who could crack its encryption. around the world. You can follow BBC Monitoring on Twitter and Facebook. Share this story About sharing f
 ✓ in More on this story

RRC Monitoring reports and analyses news from TV radio, web and print media



The one big thing there's never been a

Update: Encryption row intensifies 18 November 2015

US attorney calls for access to Google and Apple phones

Paris attacks: 'Ringleader' Abdelhamid Abascud killed in raid

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BBC World News Channel

The news you trust, 24/7. On your TV.

More Videos from the BBC



Most Popular Paris 'ringleader' killed in raid

tacks: Explosions	US House votes to restrict refugees		
fire heard	How equal are you?		
3	World on cusp of 'post-antibior era'		
MARKET STATES	Paris attacks: Latest updates		
ious group	Trump 'not opposed to Muslim database'		
state	The woman in the American fi		

Elsewhere on BBC



Argentina's underwater town that was submerged for 30 years Wembley unit Marseillaise

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



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



Blind pupil asked to stop using white cane Roland Barthes at 100: The six guotes you



BBC Culture



'Unruly' passenger tries to open exit door

BREAKING NEWS



The ancient protectors of England's



Drink driver kills 38 sheep' in US R

5

From Around the Web



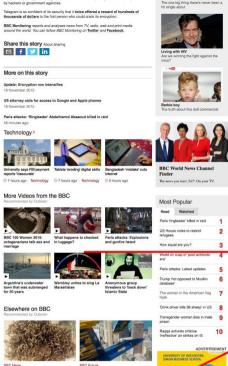


12 Animala Vou Chould

Her Plan to Battle ISIS

Difference Between Sunni and Shia?

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





'Toenail Hoard' of 500 coin clippings Why does the US Navy need pilots who



BBC Culture

Blind pupil asked to stop using white cane Roland Barthes at 100: The six guotes you



'Unruly' passenger tries to open exit door

The ancient protectors of England's



Her Plan to Battle ISIS

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

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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



Divorcees are 'not criminals'



Brazil dam burst: 28 still missing after dam burst



other laugh in six sec



Omar Ismail Mostefai?



The Indian maid who had her arm chopped off in Saudi Arabia



attacks to children?

Elsewhere on BBC







Woman arrested after 'no Muslims' beauty salon Facebook post





Blind pupil asked to stop using white cane in school



Andreas Gursky: The bigger the better?



BBC News

Russia tourist suffers acid attack in India's Varanasi



Why does the US Navy need pilots who

1	Read	Watched		
11	Paris 'rin	Paris 'ringleader' killed in raid		
10	US Hous refugees	e votes to restrict	2	
nds	How equ	al are you?	3	
	World on era'	cusp of 'post-antibiotic	4	
	Paris atta	acks: Latest updates	5	
is	Trump 'n database	ot opposed to Muslim	6	
	The wor	nan in the American fla	9 7	
	'Drink dri	ver kills 38 sheep' in U	s 8	
	Transger prison	nder woman dies in ma	le 9	
		ctivists criticise ve' air strikes on IS	10	
			ERTISEME AdChoices	
		RSITY OF ROCHESTER, BUSINESS SCHOOL		



Admissions Tips

VIEW SCHEDULE >

From Around the Web



Ted Cruz Challenges President Obama to Debate on Syrian...



That Prove Victorian Times Weren't That... BuzzFudge



deadliest thing in the



A Rare Interview With A



RANKED: The 15 Dumbest Presidents. Ranked by IQ

Navy SEAL



can 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.

More Videos from the BBC



Divorcees are 'not criminale



Brazil dam burst: 28 still missing after dam burst



other laugh in six seconds



Omar Ismail Mostefai?

Elsewhere on BBC

Blinks of Bicester

forry but time to put my country first

UK granted with passport or not

salon Facebook post

Woman arrested after 'no Muslims' beauty







her arm chopped off in Saudi Arabia



attacks to children?



|--|

٦	prison		









from anyone from the Islamic faith whether you ar



Blind pupil asked to stop using white cane in school



Why do we still not know what's inside

the pyramids?

Andreas Gursky: The bigger the better?



BBC News

Russia tourist suffers acid attack in India's Varanasi



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

From Around the Web



President Obama to Debate on Syrian...



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



Say hello to the deadliest thing in the



Check Out This Insane Navy Drone in Action



Navy SEAL The Blog of Author Tim .. RANKED: The 15



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



Discussion

In addition to these simple targeting rules (geo-targeting, OS / browser / devices, day and time), which other targeting rules can you think of?



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



Digital Ad Spendir billions	ig 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

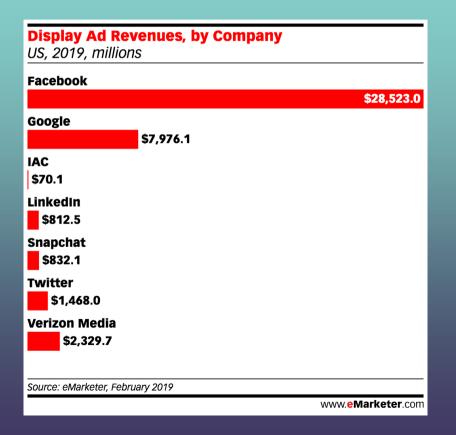
144427

www.elMlarketer.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

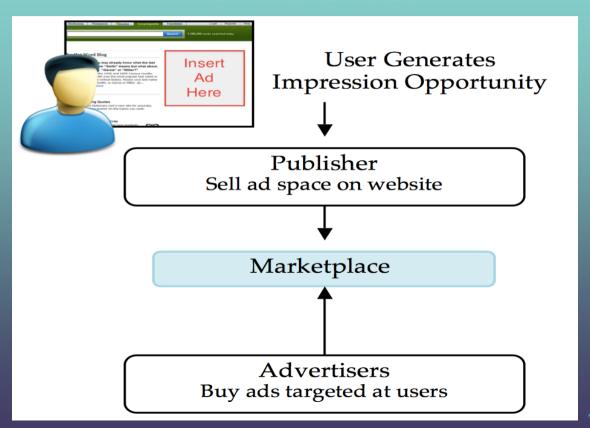


Facebook: ~40%

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"

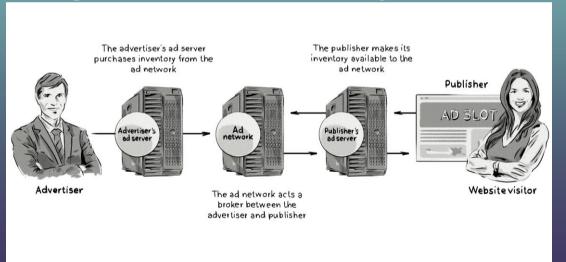
"All impressions on the EPSN homepage on Sept 21"

"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

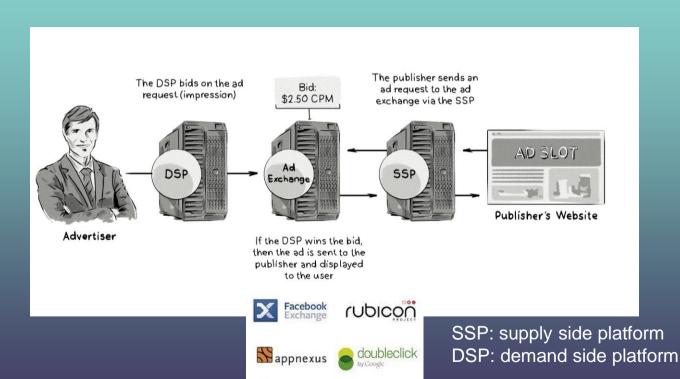
Many <u>ad networks</u> with competing business models.

Lack of transparency.

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

Need efficiency!

Ad Exchange



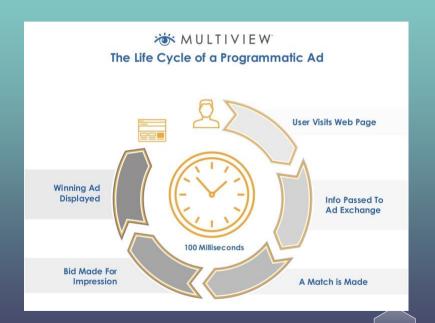
Real-Time Bidding (RTB)

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")

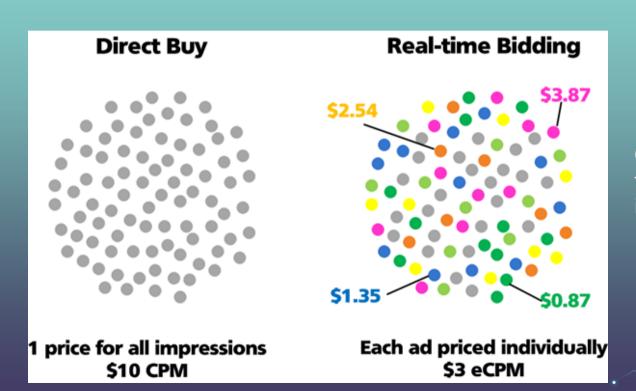
Usually second-price auction.



The Rise of Programmatic Advertising



Direct-Buy vs. RTB



CPM: cost per thousand impressions

Ad Network and Ad Exchange



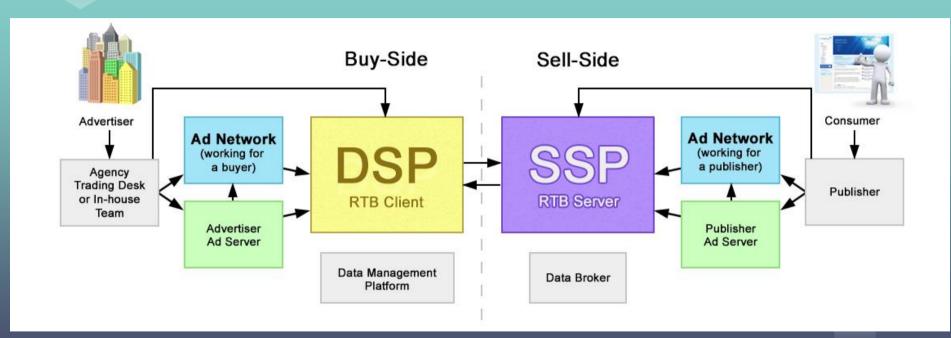
Players in the Space

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





Discussion

What are the disadvantages of RTB?



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 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 topic

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

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

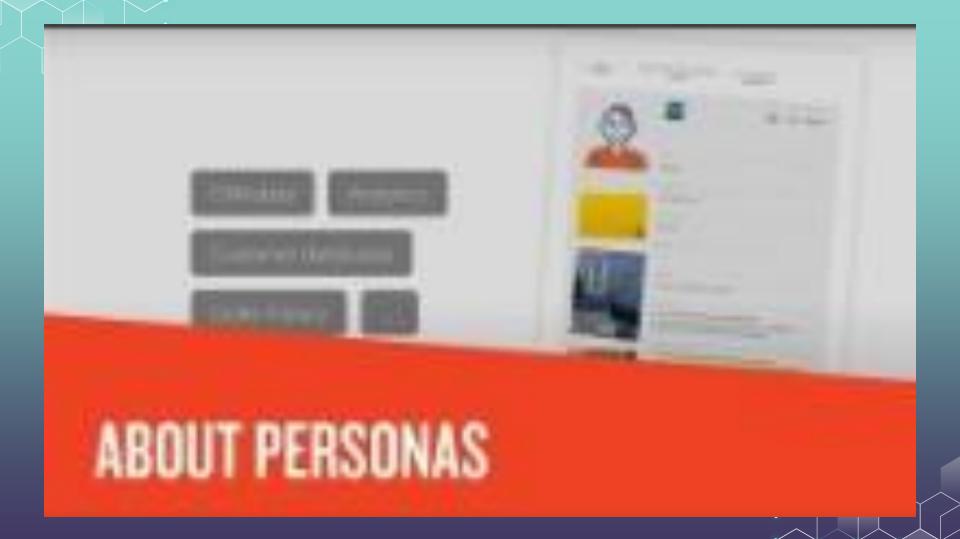
Hobbies

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
<a href="https://moz.com/followerwonk/">https://moz.com/followerwonk/</a>
Click <a href="here">here</a> for an example
<a href="https://klear.com/">https://klear.com/</a>
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

THE PROBLEMS she has that IHI solves: maintaining quality and it's very complex."

- . "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."

ONE DAY in the life:

- · Attends lots of face-to-face meetings
- . Conducts office hours in ICU to give nurses and
- 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

physicians time with her during the week.

Her VALUES AND GOALS:

IHI products or services:

program

- . 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

. Wants to be able to read comments and

she reads Yelp reviews of restaurants

THE EXPERIENCE SHE WANTS when seeking out

feedback on the IHI programs in the way that

Would like to conduct a "chat" when she is

Wants to be recognized as a "fan" of IHI even

high. She was an enthusiastic OS participant

when she got her MHA in 2009.

if her attendance level is not what we consider

deciding whether or not to sign up for a



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

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 vet: 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 Areas of Focus that she would be interested in: Quality, Cost, Value / Patient Safety

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



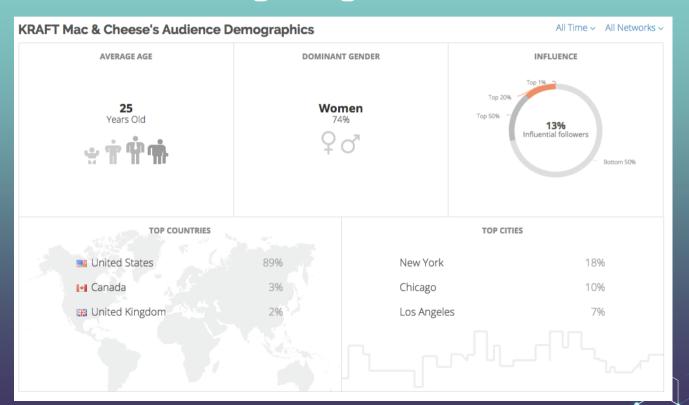
Values & Goals: Support academically successful & physically active boys Needs: no-fuss, budget meals for young children

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



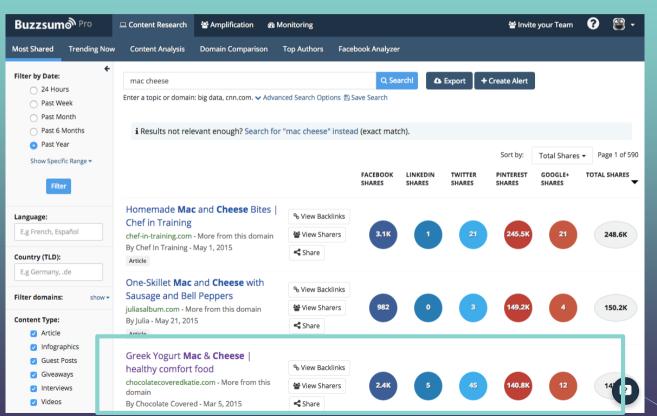


Research and identify hot topics

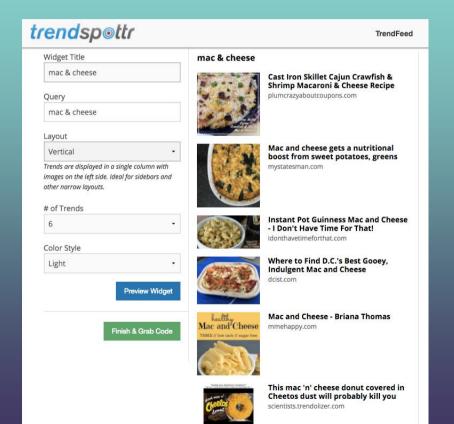
Identify popular topic, questions, terms
Keyword research tools like Google Trends, Google
Keyword Planner, Answerthepublic, Ubersuggest
Search autocomplete tools (e.g., YouTube, Google)

	\equiv	You Tube	mac & cheese ca	Q	
			mac and cheese casserole		
	ή	Home	mac and cheese cartoon mac and cheese can i have some please	Trendi	ing
	6	Trending	·		
			mac n cheese casserole		
			illac il cheese cali i liave some please	mn For The	
	BEST	OF YOUTUBE	mac and cheese cake	ficial video)	
	\cap	Music	mac n cheese cat	1 day ago	
			mac and cheese cat commercial		

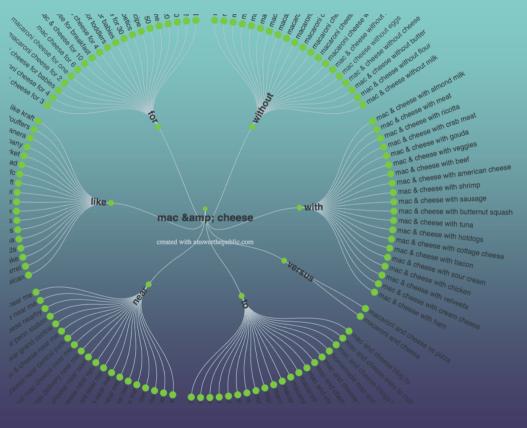
Using Buzzsumo to create trendy content



Using Trendspottr to create trendy content



Answer the Public

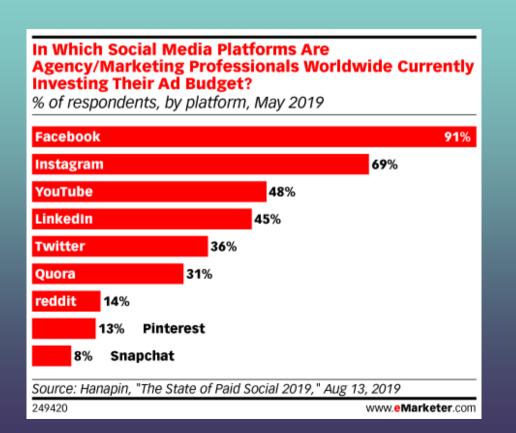








Facebook dominates social media advertising market



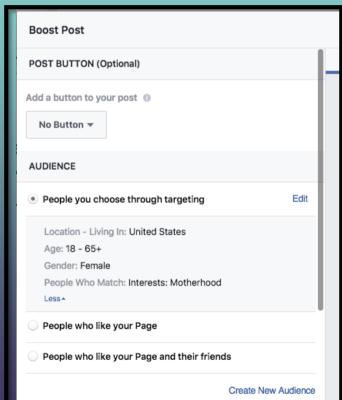
Why going beyond organic?

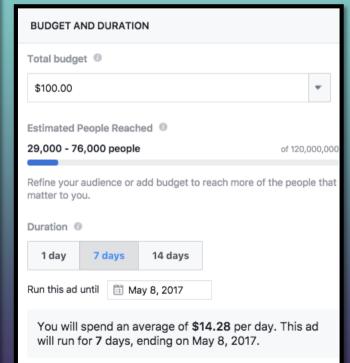
Organic reach: free distribution of page posts to fans.

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













QUESTION

Why do people buy fake clicks/likes?



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





QUESTION

How to deal with click/like fraud?

