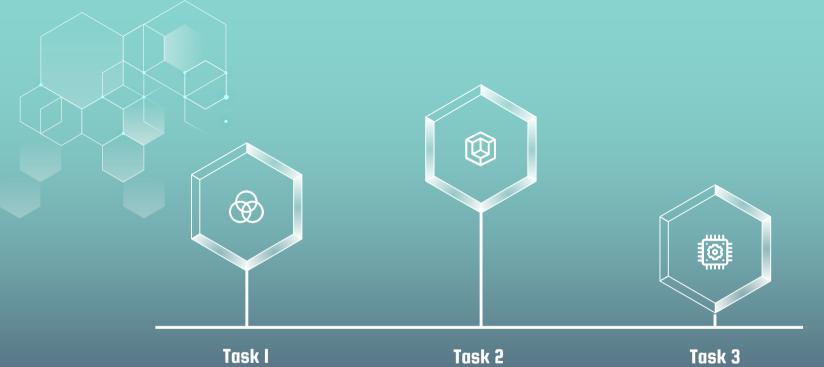
# Display Advertising



#### **Task I** Overview of the Display Ads industry

Business operations in the industry

How are online display

ads bought and sold?

## Online Display Advertising Landscape

### **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.

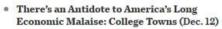
The ad predicted a number of innovations including GPS navigation, Wi-Fi, tablet computing, smartwatches, distance learning etc.

### **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.





#### 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



inion	$\rightarrow$
Coal in Trump's Stock	ding
Review & Outlook	
Why Liberals Oppose Ben	Carson
By Jason L. Riley   Upward M	
The Case for a Rules-Bas	sed Fed
By John B. Taylor   Comme	entary
The weather will	
eport to you.	
0000	

### **Examples of interactive banners**





Top Stories

O 48 minutes app US House votes to restrict refugees © 37 minutes ago

© 5 hours ago

ere'

Paris 'ringleader' killed in raid The man believed to have planned the attacks in Paris. Abdelhamid

World on cusp of 'post-antibiotic

GSAS Man

Is your data

ready for analytics?

5 best practices.

More like this

50 50 50

10 4 4

IS shifts

propaganda to Telegram app

Russia plane crash Who are Sinai

militant groups?

amic State

ampaign

Features & Analysis

Best place to be a woman?

nks for gender equalit

launches migration

Learn More

ADVERTISEMENT

Abaaoud, was among those killed in a French police raid, prosecutors

Telegram app cracks down on IS propaganda channels

By BBC Monitoring Analysis

0 2 hours ago Technology



slegram says it has blocked 78 accounts being used by IS

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 Teleoram "channel".

In an announcement on Wednesday evening, the Berlin-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 apo.

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

#### Paris attacks

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 hailed 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 Anomymous hardens amon has triad to shut down now IS accounts on Twitter

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 ihadist Telegram channels continue to be active, including official

by hackers or government ag	ancies.		The one big thing there's never b hit single about
	security that it twice offered a initial instrumentation who could crack its e		hit single about
	analyses news from TV, radio, w low BBC Monitoring on <b>Twitter</b> a		60
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Paris attacks: 'Ringleader' A	Abdelhamid Abaaoud killed in i	raid	
48 minutes ago			
Technology>			
University says FBI payment reports insecurate	Tablets 'eroding' digital skills	Bangladesh 'mistake' cuta	BBC World News Channel
© 7 hours ago Technology	© 7 hours ago Technology	© 6 hours ago	The news you trust. 24/7. On your TV
More Videos from t Recommended by Outbrain	he BBC		Most Popular
Aller	JACK CON	E Property	Read Watched
~~~ > h	and the second second	No. 10 Mars	Paris 'ringleader' killed in raid
			US House votes to restrict
BBC 100 Women 2015: octogenarians talk sex and marriage	What happens to checked in luggage?	Paris attacks: Explosions and gunfire heard	refugees How equal are you?



Argentina's underwater town that was submerged Marseillaise for 30 years threatens to 'track down Islamic State

#### Elsewhere on BBC

BBC News

BBC News

on BA flight



BC Future Toenail Hoard' of 500 coin clippings Why does the US Navy need pilots who found in Forest of Dean can fly like this?



BBC News BBC Culture Blind pupil asked to stop using white cane Roland Barthes at 100: The six quotes yo in school need to know







Most Popular Read Watched Paris 'ringleader' killed in raid IS House unles to restrict efucees How equal are you? World on cusp of 'post-antibiotic 4 Paris attacks: Latest updates rump 'not opposed to Muslim The woman in the American flag 7

2

3

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6

10

The one big thing there's never been a hit single about





U.S.S. Harry S. Truma deploys from Norfolk U.S. Presidents Ranked from First to Worst



unni and Shia? Animals You Should Be Glad Are Extinct

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?

•



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The Anonymous hacking group has tried to shut down pro-IS accounts on Twitter

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

Paris 'ringleader' killed in raid The man believed to have planned the attacks in Paris, Abdelhamid Abaaoud, was among those killed in a US House votes to restrict refugees

Sas Bin

### More like this







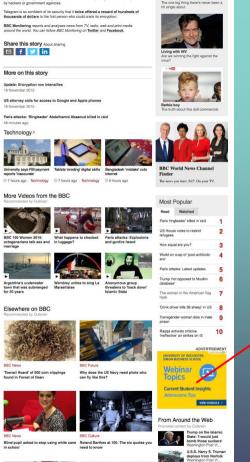






Both ads from SAS. This is a behavioral targeting ad. It is becoming popular to have two ads on the same page.





U.S. Presidents Banked from First to Worst am: What's the Difference Between Sunni and Shia?

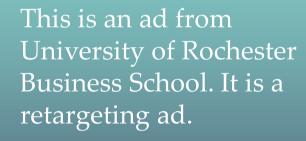
12 Animala You Chould Be Glad Are Extinct

Hillary Clinton Presents Her Plan to Battle ISIS The New York Times

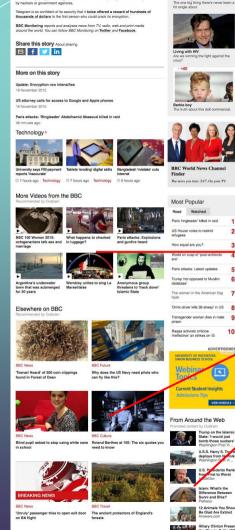
**BBC Travel** 'Unruly' passenger tries to open exit door The ancient protectors of England's forests

BREAKING NEWS BBC News

on BA flight



•





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? Raqqa activists criticise 'ineffective' air strikes on IS

10

#### ADVERTISEMENT

UNIVERSITY OF ROCHESTER, SIMON BUSINESS SCHOOL





#### 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

BBC News

Blind pupil asked to stop using white cane in school



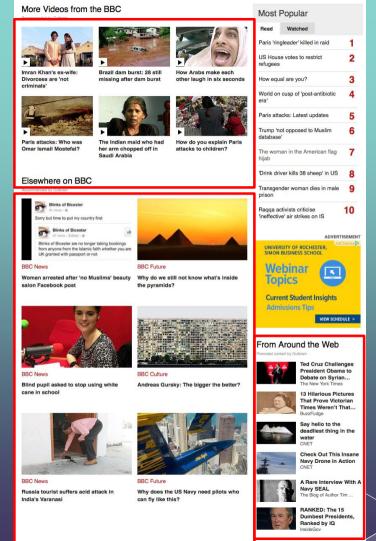
#### **BBC Culture**

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

### 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.

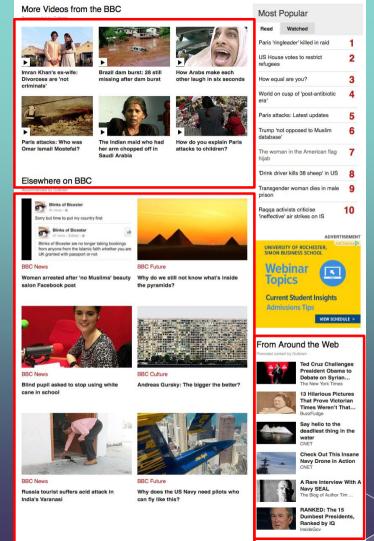


### Native Ads

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 (I90I)

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 ico 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?



Contextual targeting Ads displayed based on content of web site



### **Contextual Targeting**



Google display network offer two options for contextual targeting (AdWords Help 2017)

Keyword targeting: Choose words or phrases related to your product or service so Google can automatically target your ads to relevant websites on the Google Display Network that your customers visit (this is known as automatic placements).

Topic targeting: Target your ad to multiple pages about specific topics at once. Topic targeting lets you reach a broad range of pages on the Display Network.

#### Contextual targeting

Ads displayed based on content of web site

#### **Behavioral targeting**

Delivering relevant messages to audiences based on interests defined by recency and frequency of site navigation behaviors (web sites visited, search queries made, etc).

#### Contextual targeting

Ads displayed based on content of web site

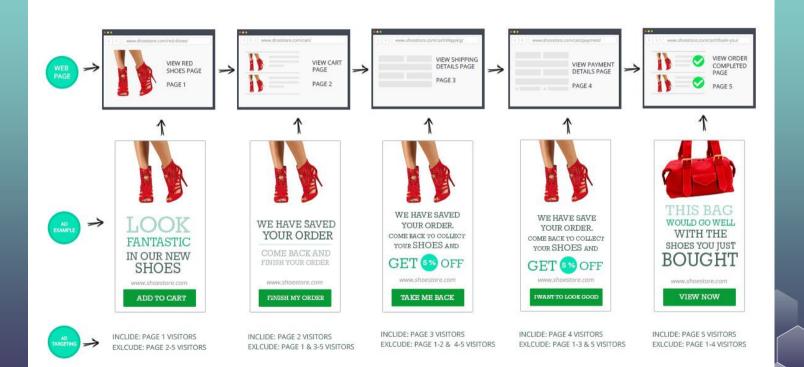
#### **Behavioral targeting**

Delivering relevant messages to audiences based on interests defined by recency and frequency of site navigation behaviors (web sites visited, search queries made, etc).

#### Retargeting/Remarketing

Online ad is shown to a user who searched for (or saw) a particular kind of content. Based on past sites a user has visited

### Customize ads for different retargeting segments



### Retargeting



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

Digital Ad Spending in the US, by Format, 2019-2023

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	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

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hillione

www.eMarketer.com



### Display used to fall behind search

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



	2010	2011	2012	2013	2014	2015	2016
Search	\$12.00	\$15.10	\$17.58	\$19.76	\$21.73	\$23.32	\$24.45
Display	\$9.91	\$12.33	\$14.98	\$17.67	\$20.69	\$23.13	\$25.21
—Banner ads	\$6.23	\$7.55	\$8.68	\$9.60	\$10.27	\$10.87	\$11.29
—Video	\$1.42	\$2.00	\$2.93	\$4.14	\$5.75	\$6.99	\$8.04
—Rich media	\$1.54	\$1.65	\$1.82	\$2.03	\$2.38	\$2.69	\$3.03
—Sponsorships	\$0.72	\$1.12	\$1.56	\$1.90	\$2.28	\$2.59	\$2.86
Classifieds and directories	\$2.60	\$2.58	\$2.60	\$2.71	\$2.81	\$2.88	\$2.95
Lead generation	\$1.34	\$1.52	\$1.71	\$1.90	\$2.09	\$2.17	\$2.20
Mobile messaging	\$0.25	\$0.25	\$0.23	\$0.23	\$0.22	\$0.21	\$0.20
Email	\$0.20	\$0.21	\$0.22	\$0.23	\$0.24	\$0.24	\$0.24
Total	\$26.29	\$31.99	\$37.31	\$42.50	\$47.77	\$51.95	\$55.25
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.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		
		\$28,523.0
Google		
	\$7,976.1	
IAC		
\$70.1		
LinkedIn		
\$812.5		
Snapchat		
\$832.1		
Twitter		
\$1,468.0		
Verizon Media		
\$2,329.7		

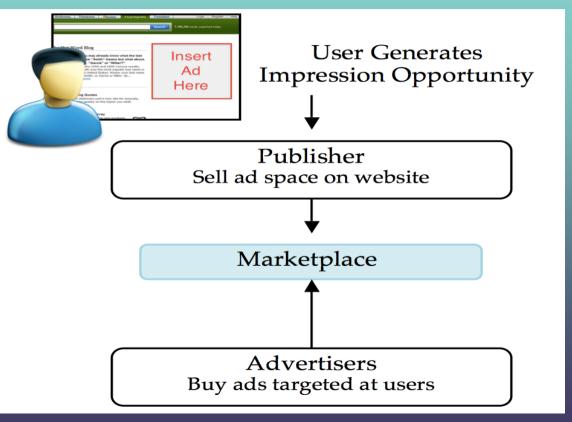
Facebook: ~40%

Google ~12%



# How are Display Ads Bought & Sold?

### The Basic Idea



### Display ads are mainly sold in one of two ways

#### 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

#### 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"

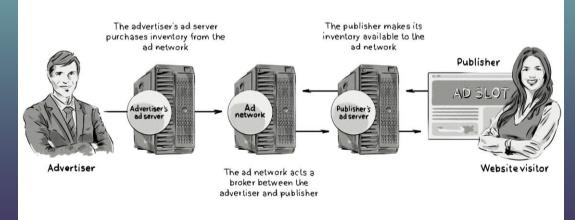
"300,000 impressions on Yahoo! to a retailer's existing customers in April"



### **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

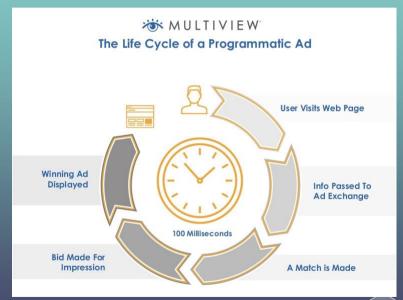


### Real-Time Bidding (RTB)

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")

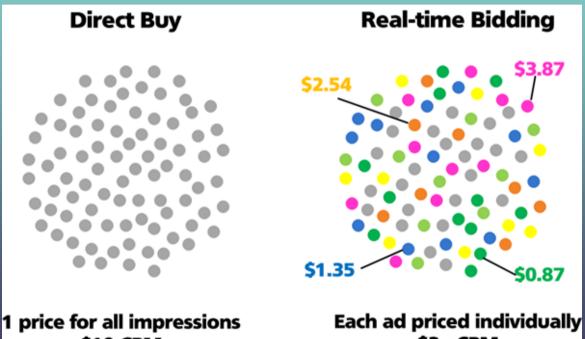
Usually second-price auction.



### The Rise of Programmatic Advertising



### **Direct-Buy vs. RTB**



CPM: cost per thousand impressions

\$10 CPM

\$3 eCPM

### Ad Network and Ad Exchange



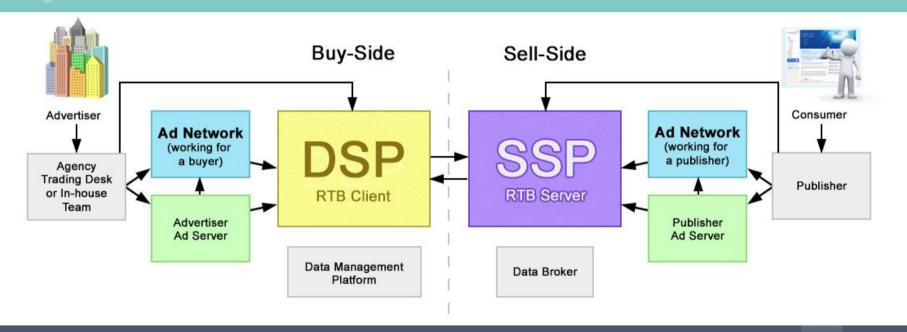
### **Players in the Space**

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



Ad exchanges



What are the disadvantages of RTB?



### **Direct Buying**

#### Advantages:

Guarantees ad message gets out (e.g., this weekend's movie release, retailer holding clearance sale) For branding advertisers, ensures brand-safe content

Disadvantages:

Old fashioned, high contracting costs

Salesforce & rate cards

Bar of entry

Hard to get premium spots on large publishers like the NYT

### **Real Time Bidding**

#### Advantages

Allows for incredibly fine targeting & buying! Bid for the expected value of an impression (user, webpage, time) rather than an audience Enables large-scale retargeting and behavioral targeting across multiple publishers Reduces transaction costs Facilitates ad inventory from small publishers who can't afford a sales force

#### Disadvantages

Fraud, some loss of control (brand-safe content & ads) Many players take a 'cut' in complex ecosystem

### 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**

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



## Persona Marketing

### 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 different3-6 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**

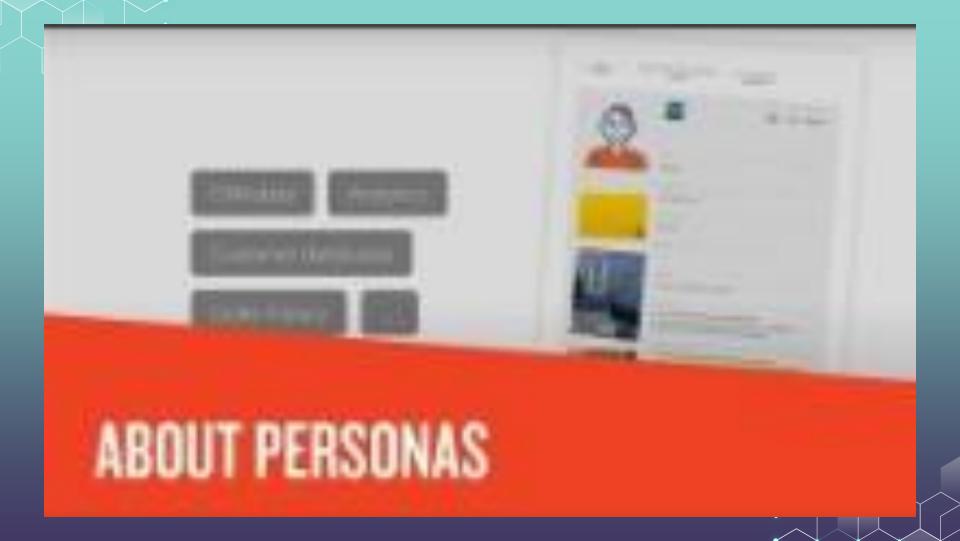
Do they search online? Read magazines or newspapers? Talk to people in person?



### 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

Interviews (existing & prospective customers, salespeople) Social listening (who follows you? what are they saying?) Hootsuite <u>https://moz.com/followerwonk/</u> Click <u>here</u> 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 personas

#### **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:

- "I need to balance cost cutting with maintaining quality and it's very complex."
- "Getting adoption of best practices is slow and not uniform."
- "I would love to be seen as more of a 'goto' 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 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 ٠
- . 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)

#### 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.

#### **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

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



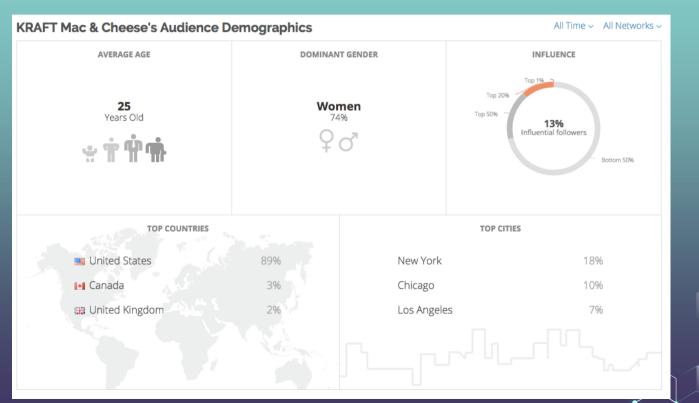
Values & Goals: Support academically successful & physically active boys Needs: no-fuss, budget meals for young children

**Objections**: nutritional value of mac & cheese

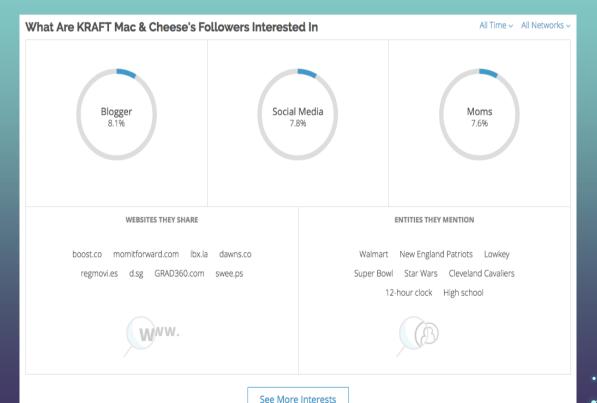
Experience wanted: quick meal prep and variety

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



## Content Creation

### **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)

= You Tube	mac & cheese ca	Q	
↑ Home	mac and cheese casserole mac and cheese cartoon mac and cheese can i have some please	Trending	
	mac n cheese casserole mac n cheese can i have some please	mn For The	
BEST OF YOUTUBE	mac and cheese cake mac n cheese cat	ficial video)	
Music	mac and cheese cat commercial	r day ago	

### Using Buzzsumo to create trendy content

Buzzsum	اھ Pro	😐 Content Research	Section Amplification	Monitoring				😁 Inviti	e your Team	0	🏐 -
Most Shared	Trending Now	Content Analysis	Domain Comparison	Top Authors F	acebook Analyzer						
Filter by Date: 24 Hours Past Week Past Month Past 6 Months Past Year Show Specific Range * Filter		mac cheese Enter a topic or domain	: big data, cnn.com. 🗸 Adv	anced Search Options	Q Sea	arch! 🛆	Export 4	- Create Alert			
		i Results not rele	evant enough? Search fo	or "mac cheese" ins	tead (exact mate FACEBOOK SHARES	h). LINKEDIN SHARES	TWITTER SHARES	Sort by: PINTEREST SHARES	Total Shares GOOGLE+ SHARES	s - Page TOTAL S	e 1 of 590 HARES
Language: E.g. French, Español		Chef in Training	and <b>Cheese</b> Bites More from this domain May 1, 2015	% View Backlinks	3.1K	1	21	245.5K	21	24	18.6K
E,g Germany, .de Filter domains: show Content Type: 2 Article 2 Infographics 2 Guest Posts 3 Giveaways 4 Interviews 4 Videos		One-Skillet <b>Mac</b> Sausage and Bel juliasalbum.com - Mo By Julia - May 21, 201	ore from this domain	<ul> <li>% View Backlinks</li> <li>Share</li> </ul>	982	•	3	149.2K	4	1:	50.2K
	Posts vays ews	Greek Yogurt Ma healthy comfort chocolatecoveredkat domain By Chocolate Covere	food ie.com - More from this	∿ View Backlinks		5	45	140.8K	12	14	Ð

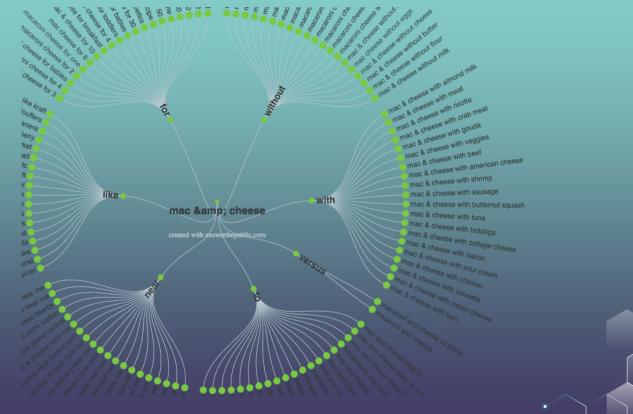
### Using Trendspottr to create trendy content

Widget Title	mac & cheese	
mac & cheese	Barra A	Cast Iron Skillet Cajun Crawfish & Shrimp Macaroni & Cheese Recipe
Query	v. a.	plumcrazyaboutcoupons.com
mac & cheese	is a the	
Layout		
Vertical •		Mac and cheese gets a nutritional boost from sweet potatoes, greens
Trends are displayed in a single column with images on the left side. Ideal for sidebars and other narrow layouts. # of Trends		mystatesman.com
6 <b>-</b>		Instant Pot Guinness Mac and Chees
	C 233.20	- I Don't Have Time For That! idonthavetimeforthat.com
Color Style	Carrier March Street	
Light -		Where to Find D.C.'s Best Gooey, Indulgent Mac and Cheese dcist.com
Finish & Grab Code	healthy Mac and Cheese TIME // Inversity // segar free	Mac and Cheese - Briana Thomas mmehappy.com
	and some of the second	This mac 'n' cheese donut covered in Cheetos dust will probably kill you

scientists.trendolizer.con



### **Answer the Public**



### Greet yogurt recipe for Julia

### Recipe

### Greek Yogurt Mac & Cheese

A healthy twist your kid will eat

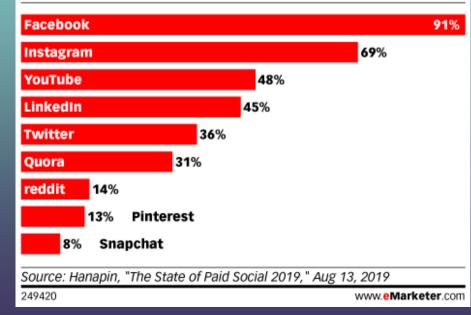


## **Content Diffusion**

### Facebook dominates social media advertising market

#### In Which Social Media Platforms Are Agency/Marketing Professionals Worldwide Currently Investing Their Ad Budget?

% of respondents, by platform, May 2019



### 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

Boost Post		BUDGET AND DURATION
POST BUTTON (Optional)		Total budget 0
Add a button to your post 0		\$100.00
No Button 🔻		Estimated People Reached @
AUDIENCE		29,000 - 76,000 people of 120,000,000
People you choose through targeting     Edit		Refine your audience or add budget to reach more of the people that matter to you.
Location - Living In: United States Age: 18 - 65+		Duration 0
Gender: Female People Who Match: Interests: Motherhood		1 day 7 days 14 days
Less		Run this ad until 📋 May 8, 2017
People who like your Page		You will spend an average of <b>\$14.28</b> per day. This ad
O People who like your Page and their friends		will run for 7 days, ending on May 8, 2017.
Create	New Audience	

## Click and Like Froud



### QUESTION

Why do people buy fake clicks/likes?



### **Click and Like Fraud**

Publishers profit from clicks and likes, and they have incentive to engage in click and like fraud.

Your competitor may create fake clicks and likes on your ad to waste your advertising budget.

The competitor of your publisher may create fake clicks and likes so that you may terminate the relationship with your publisher.

### **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







Nov 5 is the deadline for submitting your data project.

You should 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



### **Course Project**

Get your presentation ready by Nov 22 (Class A) or Nov 26 (Class B).The order of presentation will be drawn randomly.You need to submit your project report.





### **Course Project**

Any questions?

