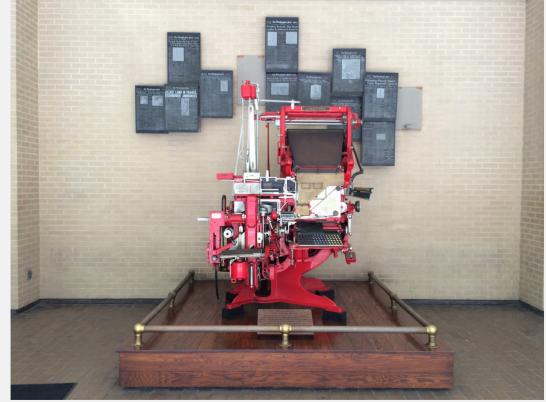
The Washington Post

Democracy Dies in Darkness

WASHINGTON POST IN 2011

The Post in 2011 came with a rich legacy of incredible journalism and political reporting — but our aspirations were often confined in DC and old ways of delivering news.





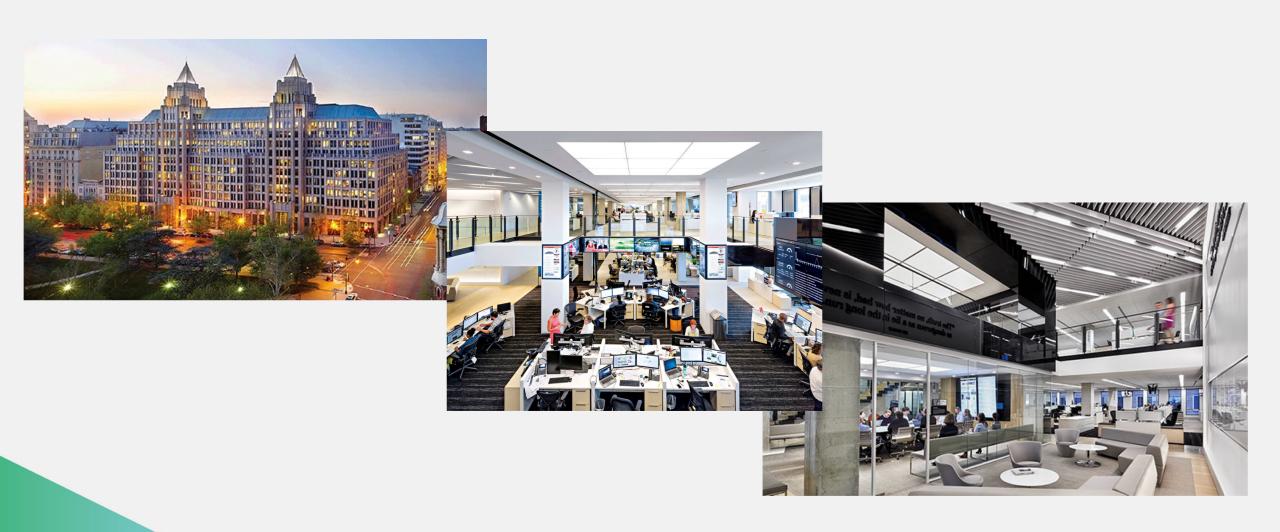
WASHINGTON POST IN 2011

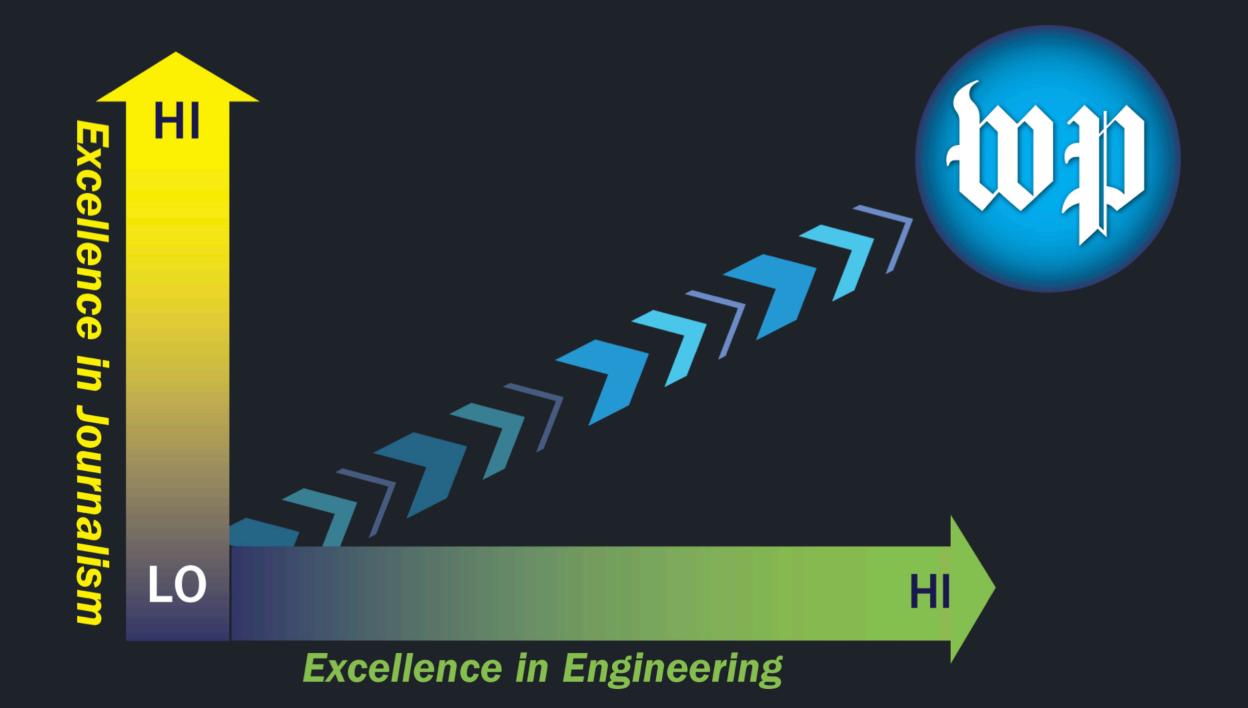




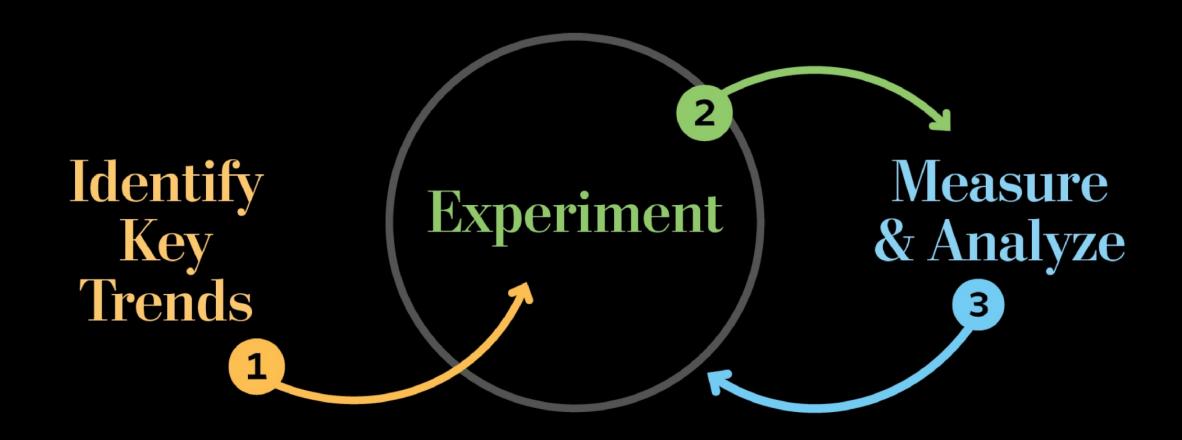
WASHINGTON POST IN 2018

The Post in 2018:

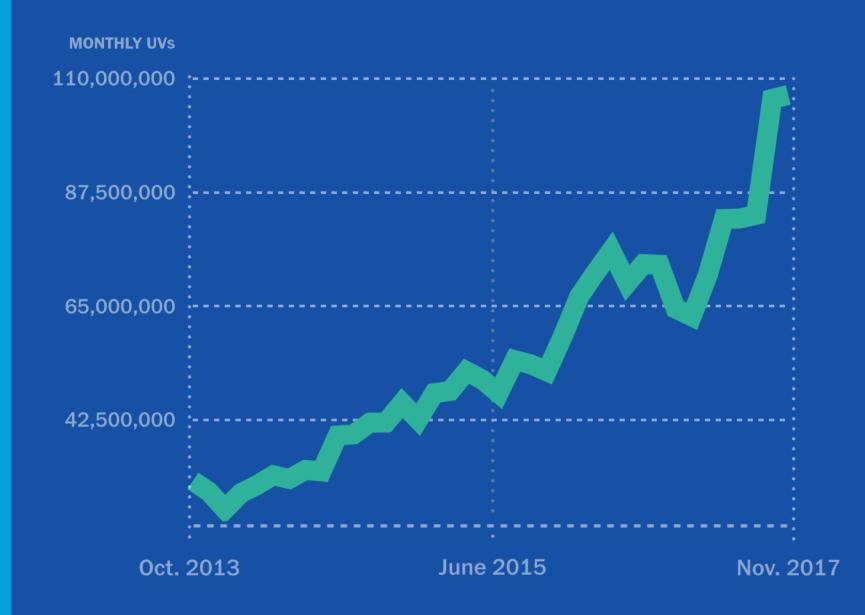








Domestic **Growth**



The Washington Post

Fighting Fake News

Bringing transparency to the forefront

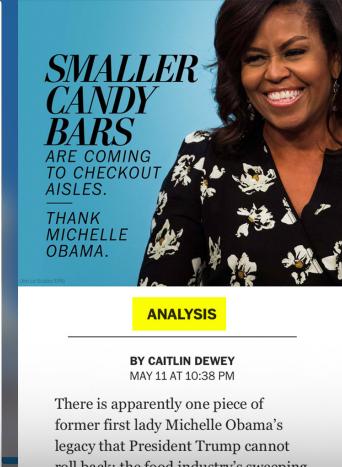
The Transparency Project

Fighting fake news

We're working with the Google Trust Project to improve media literacy in the general public—to clarify the difference between responsible journalism and fake news. The Post has been at the forefront of this effort. Our work is defining best practices for other newsrooms to follow.







Separating news from Opinion

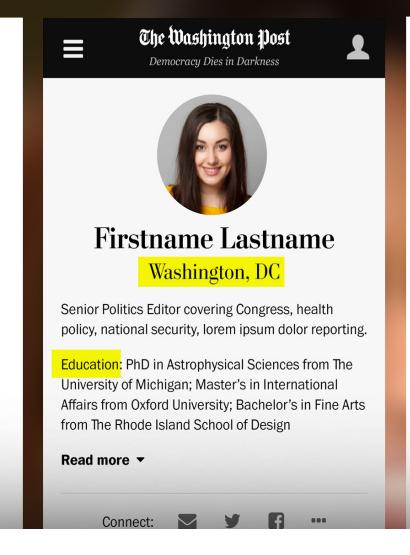
We worked with editors to define four types of opinionated news stories and how they should be labeled on every platform.



By Firstname Lastname

Senior Politics Editor covering Congress, health policy, national security, lorem ipsm.

Email Bio & Follow 9



More by Firstname Lastname



- Fears about Trump's 'impulsive' problem
- The number of Americans who think True is plummeting Apr 3
- Comey says there is 'no information' to s wiretapping claims Apr 3

See Archive

The Post Recommends

Comey says there is 'no information' to suppor Trump's wiretanning claims

Increasing author visibility

Updating author bio pages and bylines on articles to include more info about authors' education, experience, skills, reporting location and work history

The Washington Post

The Washington Post

Depth & Breadth

Reach readers wherever they are Experiment with new forms to let them dive deep





















TABLET

Messenger











Linked in

















facebook









TV











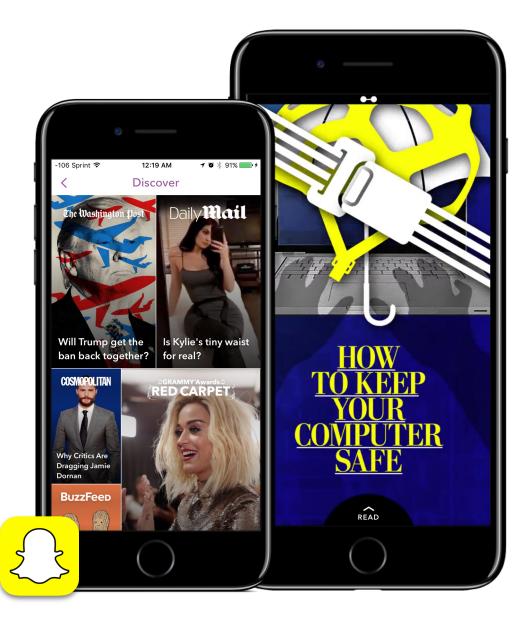






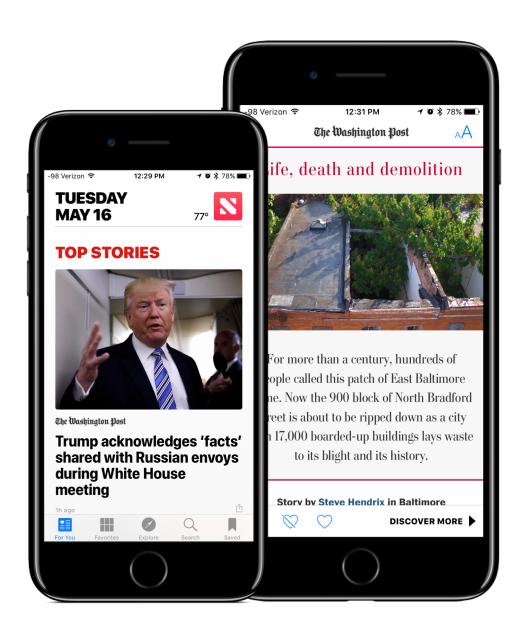
Snapchat Discover

- Launched February 2017
- Daily editions 7 days a week with updates throughout the day
- First publisher to do breaking news
- Ages 13-24 are the majority of the audience



Apple News

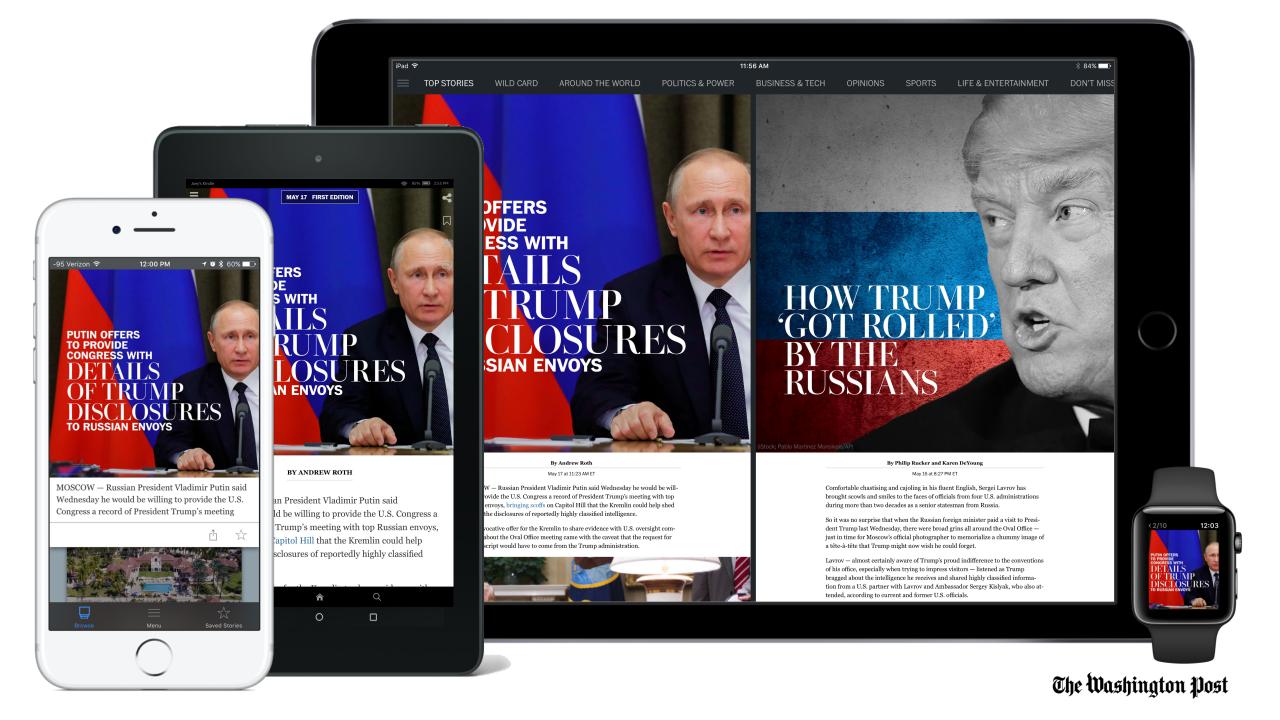
- 100% of Washington Post content published on Apple News
- Huge subscription driver, very low advertising opportunities
- Highly visual storytelling with custom templates



Alexa

- Politics Flash Briefing every weekday
- Hundreds of thousands of listens per month
- Optimize for 3-5 minutes of listening engagement
- News Quiz skill
- Presidential skill inspired by our Presidential podcast

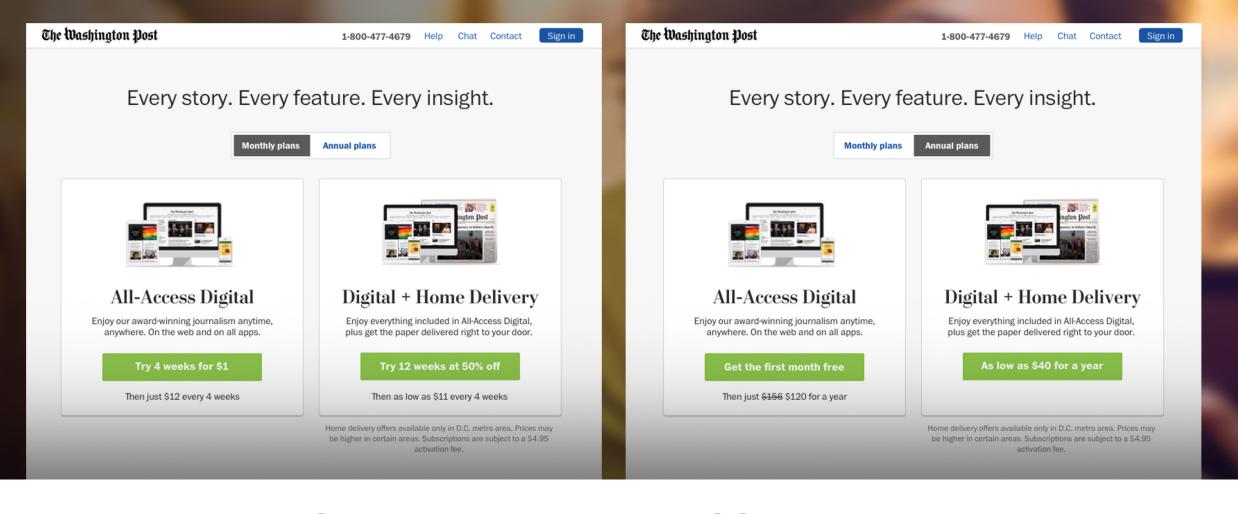




The Washington Post

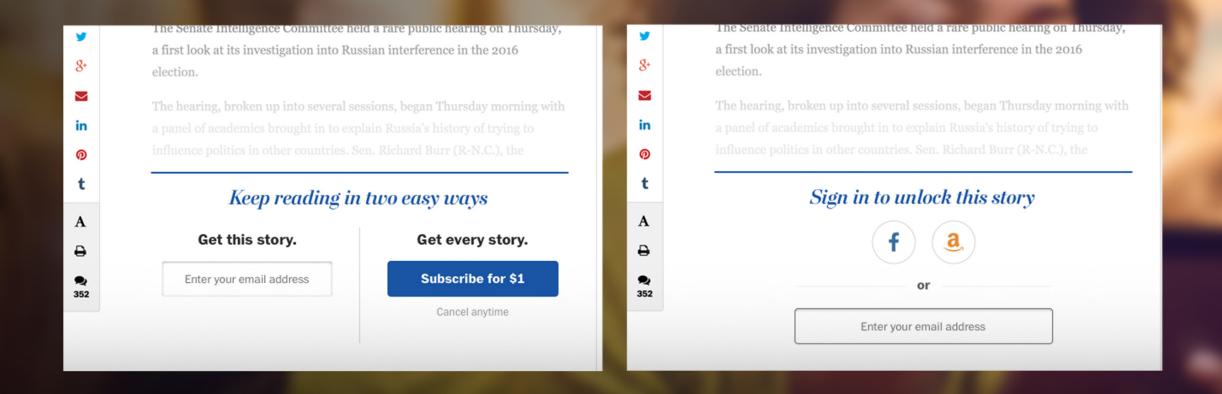
Digital subscriptions

Reduce friction to capitalize



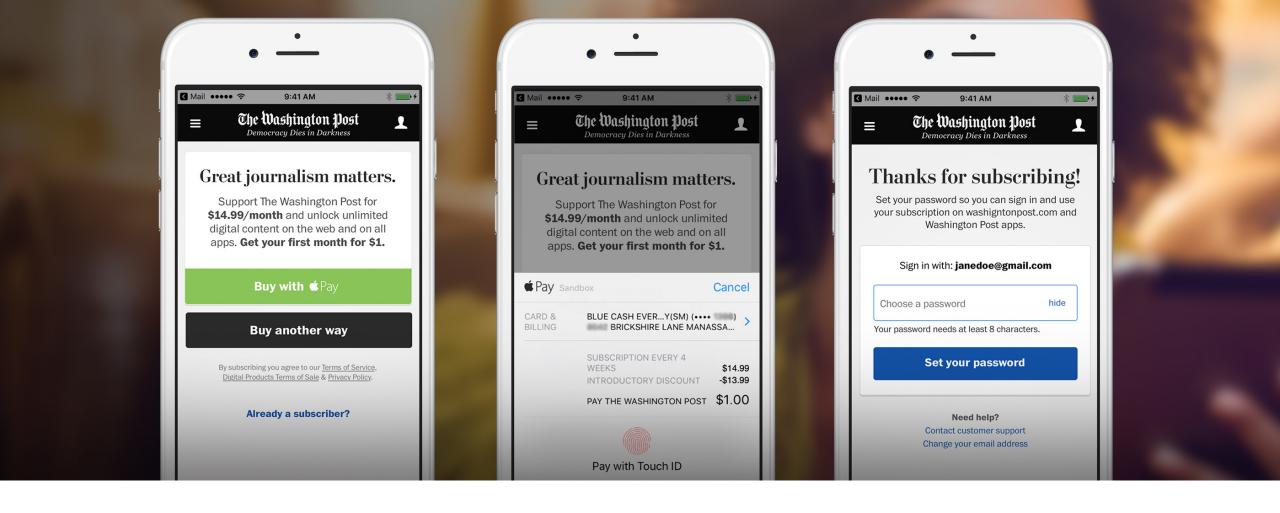
Simplify product offerings

Clearer product descriptions and billing options help readers make decisions with more confidence.



Moving readers down the funnel

Signed in readers experience a faster and simpler checkout.



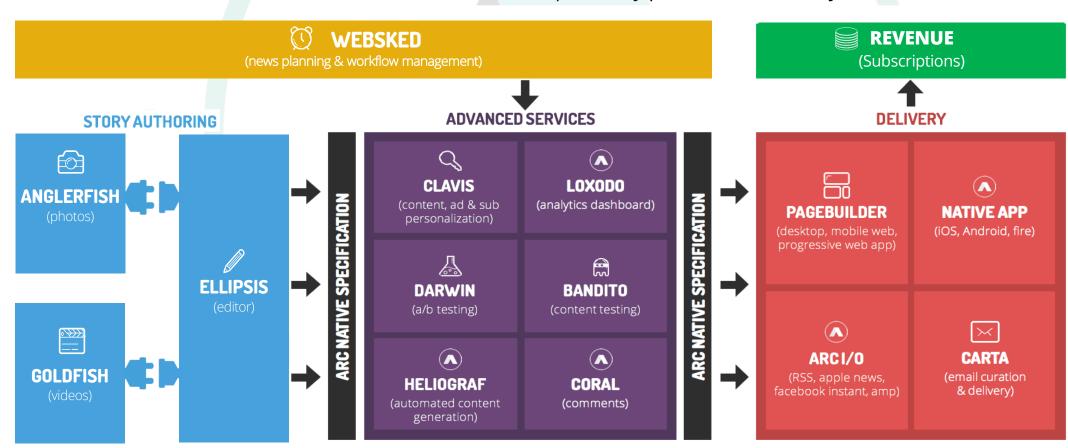
Purchase from paywall

Price and payment options on the paywall help readers become subscribers in fewer steps.



THE ARC ECOSYSTEM

An end-to-end, hosted suite of interconnected tools hand-picked by publishers to meet your needs



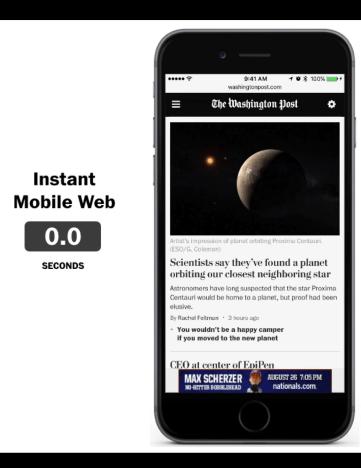


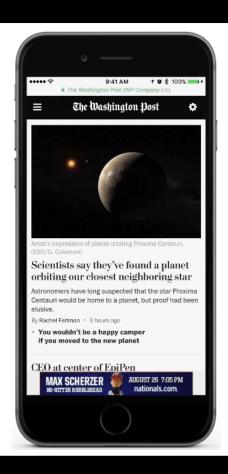
Speed & Automation

Publish more and sooner, with the help of great newsroom tools and automation

W

- https://
- Google's PWA
- WP Zeus







MEASURING RESULTS, BUT NOT THE PROCESS



Our metrics are backward looking — they tell us how many visitors came to our site, what they read and how they engaged — but they don't give us information in immediately influence the result.

- At the Post:
 - We publish ~ 450 original, staff-written articles daily
 - Publishing process has at least 3 touchpoints, and for breaking news articles often more than a dozen
 - Lots of data on author, desk, story type, story metadata
 - Typically between 25 50 FE code deploys daily
 - Data about past performance of similar articles that we can compare in real time
- What does this mean? How many stories per day do you publish?

NEW FRAMING: LEAD VS. LAG MEASURES

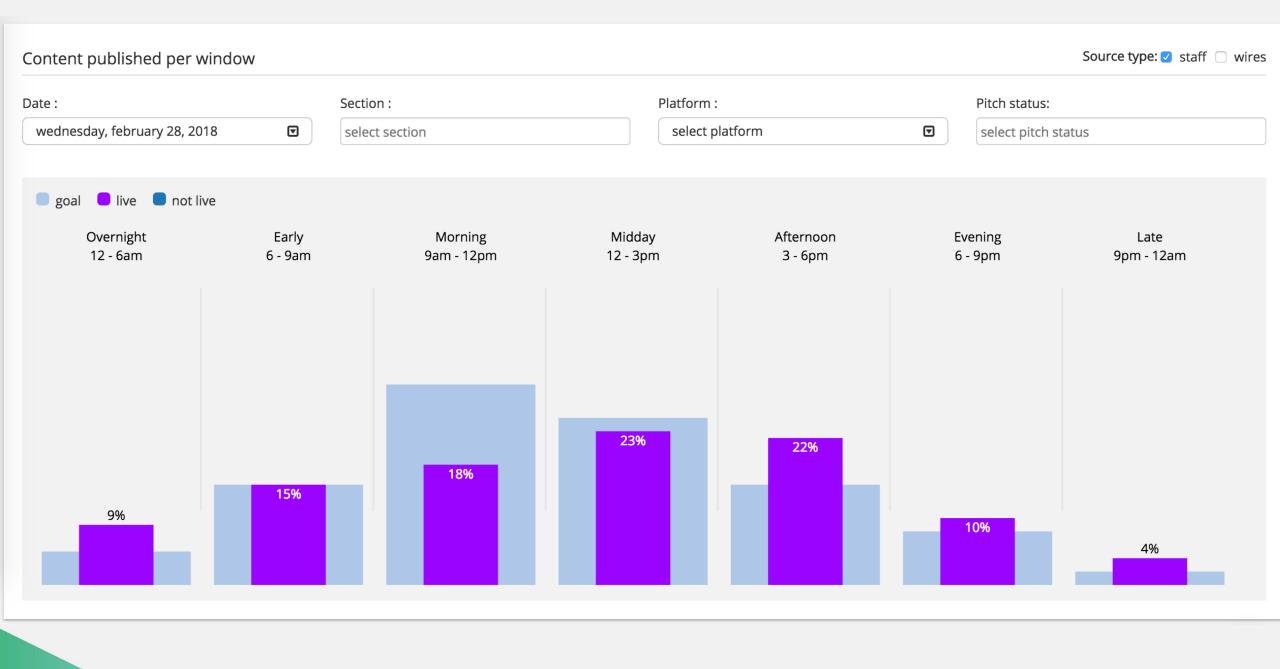


LAG MEASURES

- Backward-looking
- Measure past-performance
- Useful for deep analysis of trends
- Requires domain experience to understand how to act on that analysis
- Examples: Omniture/Google Analytics metrics (PVs, engagement, ad viewability), funnel analysis

LEAD MEASURES

- Real-time; within the measurement period
- Provides insight that allows your business to take action before the specific opportunity is over
- Use these metrics to immediately take action and change the result
- Examples: what stories will publish late?
 Which stories will go viral? Which frontend deployments are negatively impacting the performance budget? How is a user interacting with my site *right now*? How is a particular funnel cohort behaving?



Virality

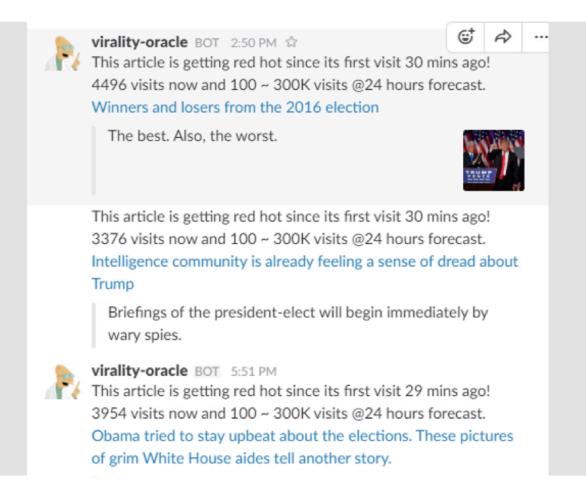
Article Popularity Prediction

- Allows editors to prioritize stories
- Identifies under-performing articles for content variation testing
- Supports advertising opportunities



Popularity Forecast Slack Room

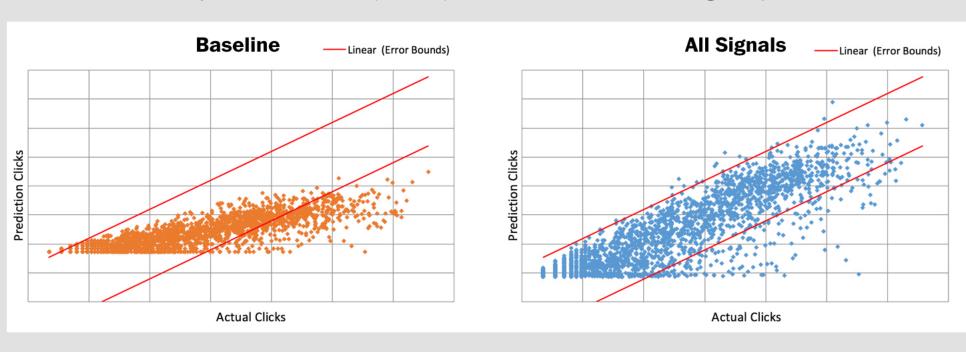
The "Virality Oracle" Bot



Performance in Production

Predictions with only clicks @ 30 minutes (baseline)

Predictions with all signals - predicted R^2 of 81.3%



Metadata: article type, section, publication time, author

Contextual: sentiment, named entities, readability of text, recency of topics

Temporal: page view time series, page view acceleration

Social: tweet volume time series, number of followers acceleration

Headliner

An Integrated Headline Suggestion System

- Automatic generation of headlines based off of story content
- Suggest different headlines for different channels and devices



Headline Generation Comparison

Headliner

FIRST SENTENCE OF ARTICLE

Authorities said they apprehended Ahmad Khan Rahami, the 28-year-old wanted in connection with weekend bombings in Manhattan and Seaside Park, N.J., after a shootout Monday with

Method	Headline
Human Reporter	Suspect in N.Y., N.J. bombings arrested after shootout; FBI says 'no indication' of terror cell
HedgeTrimmer	They apprehended Ahmad Khan Rahami
Multi-Sentence Compression	Suspect in N.Y. N.J. bombings arrested and put into an ambulance
Neural Machine Translation	Police arrested suspect in weekend bombings in Manhattan

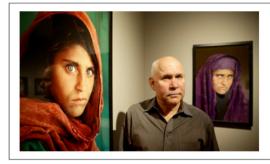


Nat Geo's famous green-eyed 'Afghan Girl' arrested in Pakistan

Sharbat Gula's story mirrors Afghanistan's pain.

By Max Bearak • WorldViews

1.2%



From a Nat Geo cover to a mug shot: The sad story of the green-eyed 'Afghan Girl'

Sharbat Gula's story mirrors Afghanistan's pain.

By Max Bearak • WorldViews

3.1%



From a Nat Geo cover to a mug shot: The sad story of the green-eyed 'Afghan Girl'

Sharbat Gula's story mirrors Afghanistan's pain.

By Max Bearak • WorldViews

4.0%



Are Camp David's days as the presidential retreat numbered?

The historic Maryland compound — up a winding mountain road, deep in the woods and with cozy cabins — exemplifies American values and deliberative diplomacy, historians say.

By Michael S. Rosenwald . Local

3.5%



In the first month of Trump's presidency, it's Mar-a-Lago 3, Camp David 0

The historic Maryland compound — up a winding mountain road, deep in the woods and with cozy cabins — exemplifies American values and deliberative diplomacy, historians say.

By Michael S. Rosenwald . Local

3.7%



Trump on Camp David: 'You'd like it ... for about 30 minutes'

The historic Maryland compound — up a winding mountain road, deep in the woods and with cozy cabins — exemplifies American values and deliberative diplomacy, historians say.

By Michael S. Rosenwald . Local

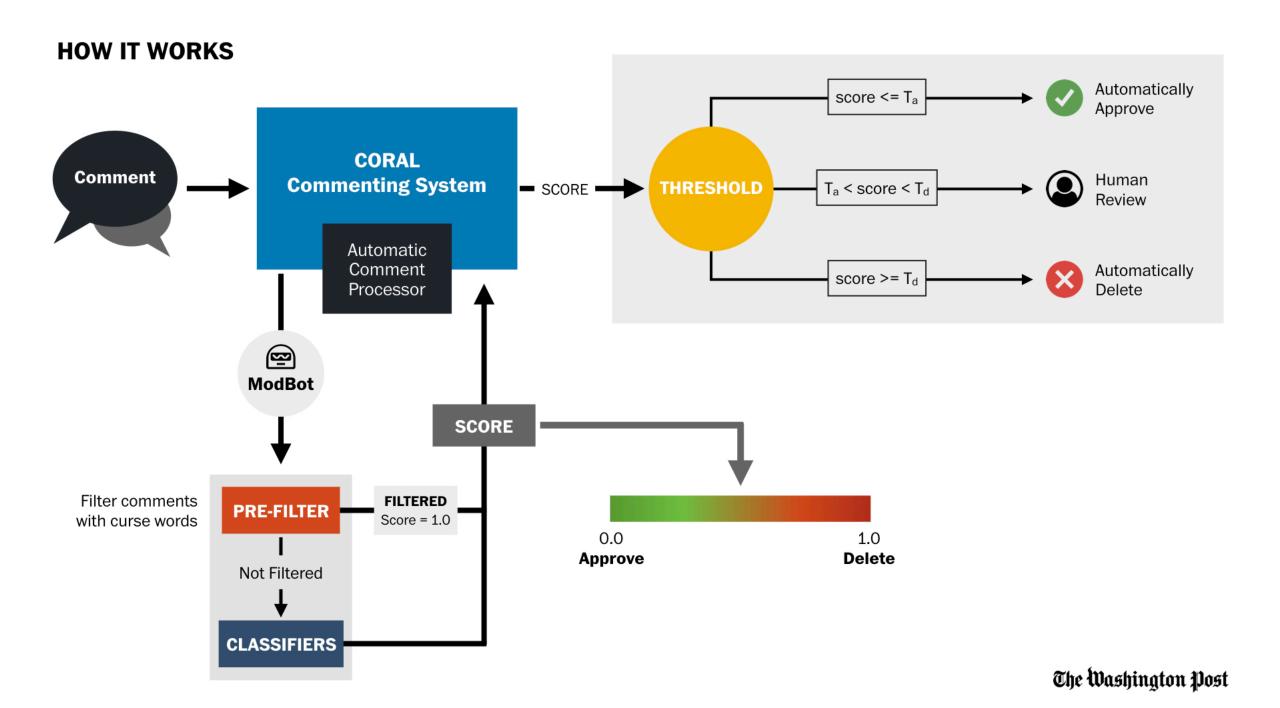
9.2%

ModBot

Automatic Content Moderation

- Measures the quality of comments automatically
- Reduce the number of comments that need to be reviewed by human moderators
- Maintain a high quality online comment section





Performance

ModBot

TRAINING 20,900 Comments

Classifier	Accuracy
Linear Kernel SVM	0.85
Ensemble Classifier	0.84
Decision Tree	0.78
Naïve Bayes	0.60

3,796 Comments

Accurac	у	0.88	
Confusion Matrix	Predict Approve	Predict Delete	
True Label Approve	2906	113	
True Label Delete	332	445	

Comment Prediction Examples

ModBot

Big f*ckin deal. I'm white and the same has happened to me. Multiple times. Next real "news" story please.

What a pathetic, dumb and disgusting racist rant...

Obama chose Rev Wright, and his God damn America, as his religion.

He is one of the smartest senators we have, and an old man in his final term.

Pre-filtered (Curse Word)
Score: 1.0

Classifier Predict (Delete)
Score: 0.97

Classifier Predict (Approve)
Score: 0.36

Classifier Predict (Approve)
Score: 0.29



ARC PUBLISHING: 2018 ROADMAP



- Arc Subscriptions: Advanced digital subscription system with paywall, offer management, analytics, testing, user registration, segmentation and CRM integration
- Multisite Capabilities: Ability to manage multiple websites through Arc, including content sharing, rights restrictions, permissions, site template management, and syndication
- Improved Workflow Analytics: Version 2.0 of analytics includes the same easy-to-use interface with more detail about editing workflow and actionable metrics for improvement
- Content Engagement Analytics: Actionable, contextual analytics directly in Arc's content creation tools to help reporters and editors create more engaging stories, galleries and videos
- **5** Editorial Calendar: Editorial calendar-based view for magazines, weekly sections and more



QUESTIONS?