

IAB Digital Trends: Consumer Usage, Ad Revenue and Impact

Full Year 2017 Report

Questions?

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Digital Usage Trends: Topline Executive Summary

Overall Trends:

- 254 million Americans accessed the internet via computer or mobile device in an average month in 2017, spending 1.4 trillion minutes online.
- Overall digital ad revenue grew 22% over the year to reach \$72.5 billion in 2017.
- The number of internet users on computers, smartphones or tablets is relatively flat while the amount of time spent online has grown slightly by 3%.
- The top 5 properties visited on any device via app or site visitors are Google, Oath, Facebook, Microsoft and Amazon.
- Time spent on Google properties has grown over the year, significantly outpacing Facebook. Pandora maintains a strong #3 position in time spent online
- Internet advertising influences purchase decisions ranging from Electronics to Clothing, CPG, Auto and Finance.
 39% of US adults are influenced by internet ads for Electronics.

Top Categories and Sites:

- Most Time Online is Spent with Entertainment, Services and Social Media. Most time spent on top categories is
 on a mobile device with the exception of Portals and Email which are primarily accessed using computers.
- Most visited properties are similar on desktop as on mobile, but time spent differs.



Digital Usage Trends: Detailed Summary Points

 Top 10 sites by time spent imply consumers stream video on desktop and stream audio on mobile: Hulu, Comcast NBC, eBay and Vevo are among the Top 10 desktop properties; Pandora, Spotify, Snapchat and Apple attract more of users' time on mobile devices.

Mobile:

- Mobile Advertising in 2017 Has Grown to \$50 Billion, Which is Over 10x Revenue of 2012
- The shift to mobile continues: 68% of time spent online is on a mobile device on average in 2017
- Ad dollars are catching up: 57% of digital ad revenue for 2017 is from mobile advertising.
- Most consumers (63%) use both desktop and mobile to access the internet with 24% using only mobile devices and 13% using only desktop computers, in an average month in 2017.
- Most time online, 68% on average, tends to be on a mobile device. Over the year, the shift to mobile, especially smartphones, has accelerated: 79% of time online in Dec. was from a mobile device. Smartphone time grew 9%.
- More mobile time is spent on apps (87%) than mobile web (13%); smartphones (88%) than tablets (12%) in a typical month in 2017.
- Consumers spend the most mobile time on Google, Facebook, Oath and Amazon whether by app or mobile web
- Time spent in apps differs from time spent on mobile web: Top apps include pure play streaming audio properties and gaming apps; top properties by time spent on mobile web include TV networks, portals and shopping sites



Digital Usage Trends: Detailed Summary Points

Digital Video:

- Video ad revenue is up 33% over the year to \$11.9 Billion in 2017, double what it was in 2015.
- 232 million Americans streamed 56 billion videos and 21 billion video ads in a typical month in 2017.
- The average user spent 15 hours 3 minutes streaming videos per month in 2017.
- Google is #1 in number of videos streamed and minutes spent streaming, towering over the next closest streaming competitors (Facebook in videos and Netflix in time spent). Netflix has outpaced Facebook in terms of time spent streaming videos by Dec. 2017.

Music and Audio:

- Digital audio ad revenue has grown 39% to \$1.6 billion.
- Nearly 200 million consumers, or 78% of the US population, visited entertainment music properties on computers or mobile devices, apps or sites, in December.
- Consumers spent 14 hrs per user per month on Music Apps or Sites in Dec. 2017.
- The podcast listener base is growing and US podcast ad revenue is expected to grow 111% by 2020 to \$659 million.

Social Media:

- Social Media revenue (mobile + desktop) has doubled in just two years to \$22.2 billion.
- Consumers spent more time on social media by the end of 2017, especially on Snapchat, Twitter and Reddit
- Social media influences purchase decisions especially in Electronics.
- ⁴ IAB Digital Trends: Consumer Usage, Ad Revenue and Impact FY 2017 Report

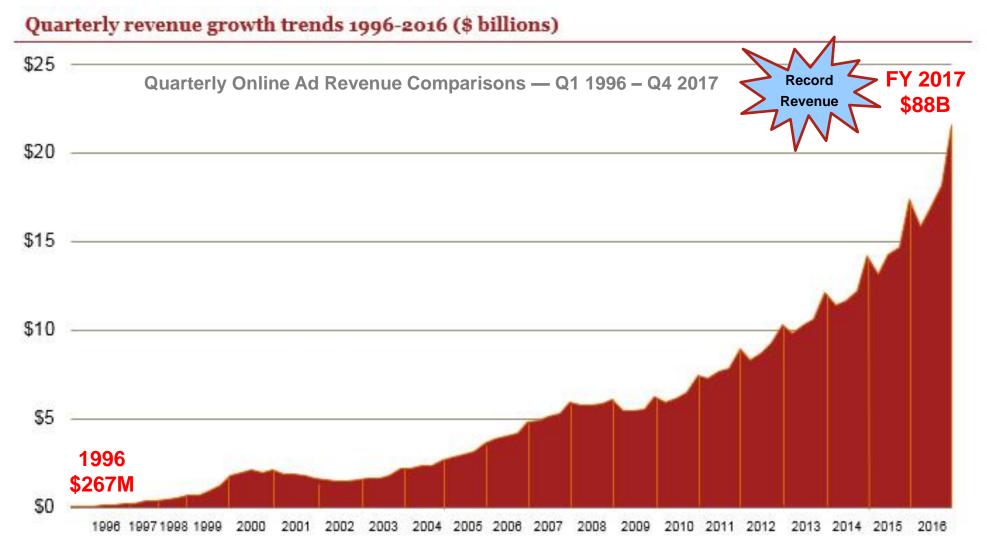


Total Digital Population: The Overall View

IAB Digital Trends 2017:

Consumer Usage, Ad Revenue and Impact

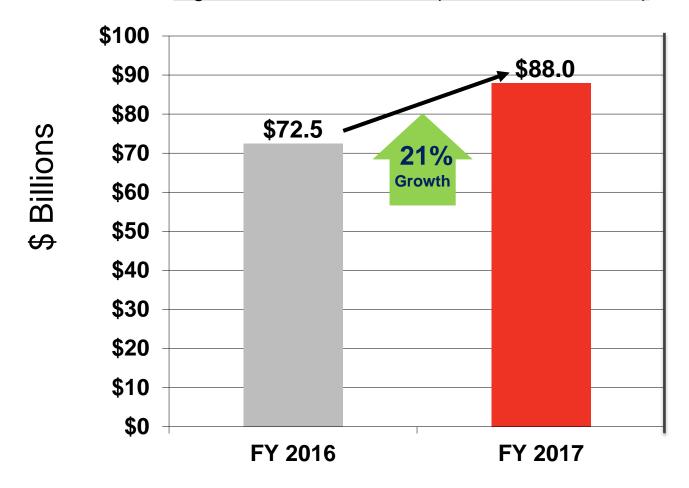
The Big Picture: Online Advertising Revenue Continues Its Incredible Growth





Desktop and Mobile Ad Revenue Has Grown 21% Year-Over-Year to \$88 Billion in 2017

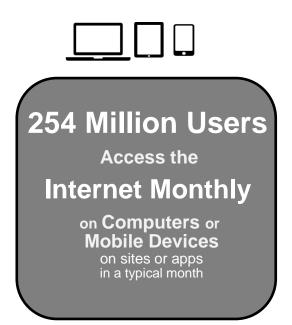
Digital Ad Revenue Growth (FY 2016 vs. FY 2017)



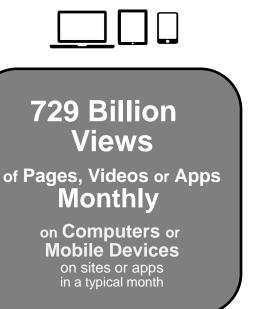


Average Monthly Internet Usage Summary

 In an average month, 254 million Americans spend 1.4 trillion minutes online via desktop or mobile viewing 729 billion pages, videos or apps.







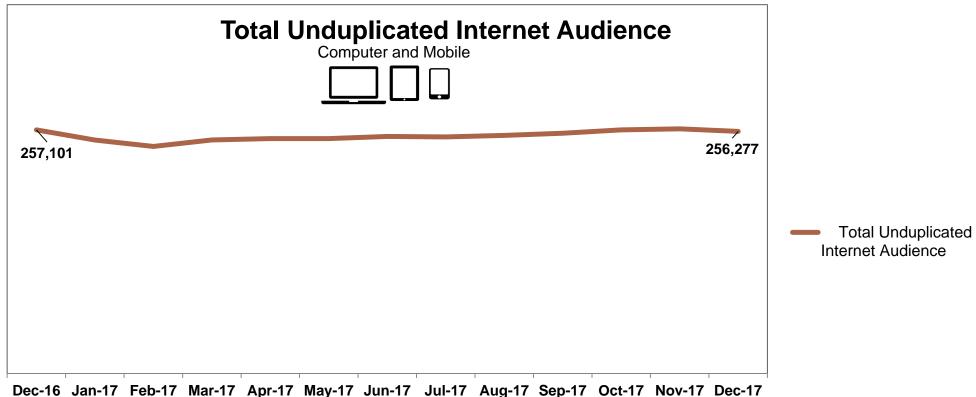


Number of Internet Users are Steady

256 Million Americans Accessed the Internet on Computers or Mobile Devices in Dec. 2017

Monthly Unique Visitors (000), Dec 2016 - Dec 2017

(of any site or app via computer or mobile device)



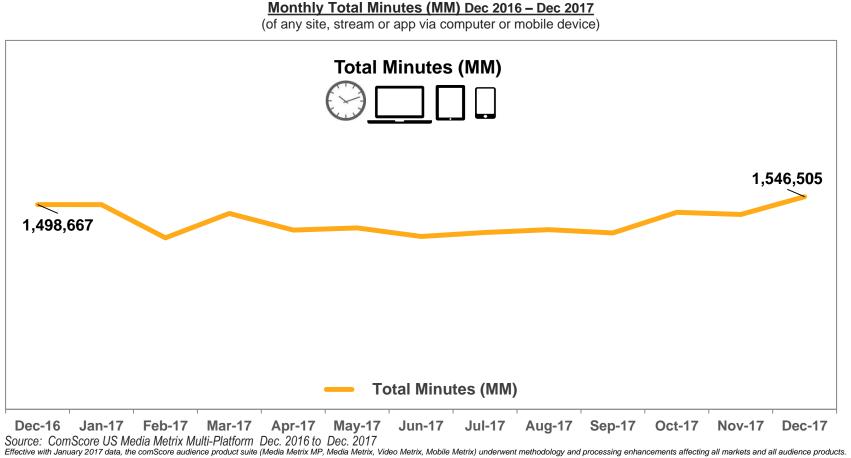
Effective with January 2017 data, the comScore audience product suite (Media Metrix MP, Media Metrix, Video Metrix) underwent methodology and processing enhancements affecting all markets and all audience products.

ComScore US Media Metrix Multi-Platform, Total Unduplicated Internet Audience.



Time Spent Online Via Computer or Mobile Device Has Grown Slightly

Users spent over 1.5 trillion minutes per month online in December



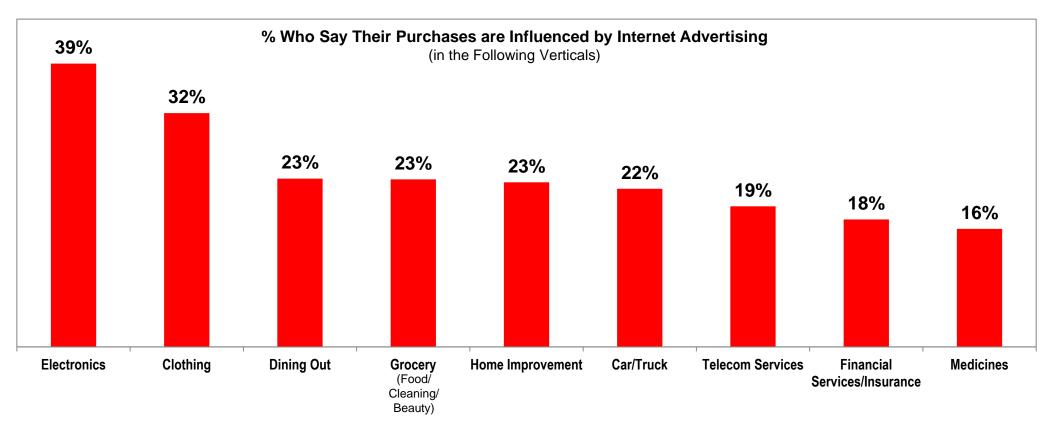
% Change 12/16 - 12/17





Impact of Digital: Internet Advertising Influences Purchase Decisions

39% of US adults say their electronics purchases are influenced by internet advertising



Prosper Insights, Media Behavior and Insights data, Jan. 2017. n=16,644 US Adults 18+





Desktop and Mobile Usage Patterns

IAB Digital Trends 2017

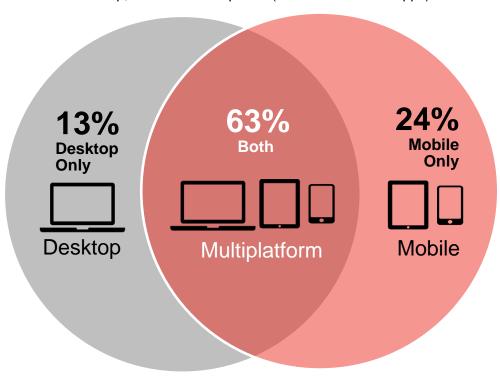
Consumer Usage, Ad Revenue and Impact

Most Users Access the Internet from Both Mobile and Desktop

Unique Monthly Users by Device

Avg. 2017

Desktop, Tablet or Smartphone (Mobile Browser or Apps)



ComScore US Media Metrix Multi-Platform. Total Audience.

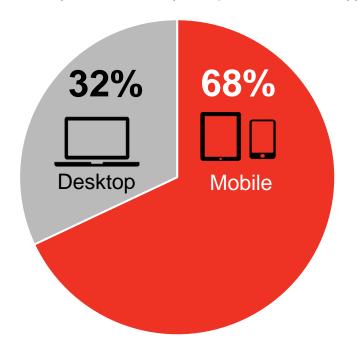


However, Most Time Spent Online Tends to be on a Mobile Device

Nearly three-quarters of all internet time is spent on a mobile device

Time Spent Online by Device

Monthly Online Minutes, (Avg, 207) Desktop, Tablet or Smartphone (Mobile Browser or Apps)



ComScore US Media Metrix Multi-Platform, Dec. '16 -Dec '17, Total Internet Time Spent (Avg.)

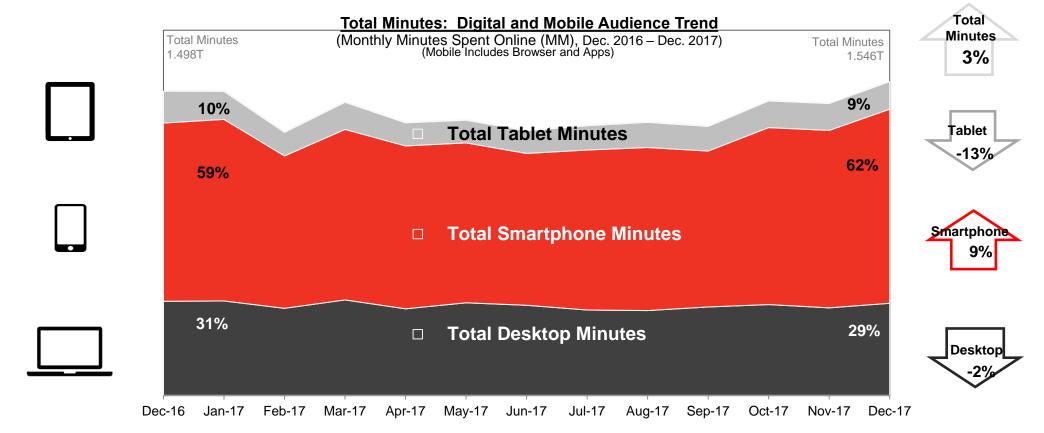


Time Spent Online is Further Shifting to Smartphones

While users continue to spend more time online overall (up 3%), most of that growth is driven by consumers on smartphones

Time spent online on smartphones was up 9%

By year's end, smartphones took up 62% of all time spent online (up from 59%)



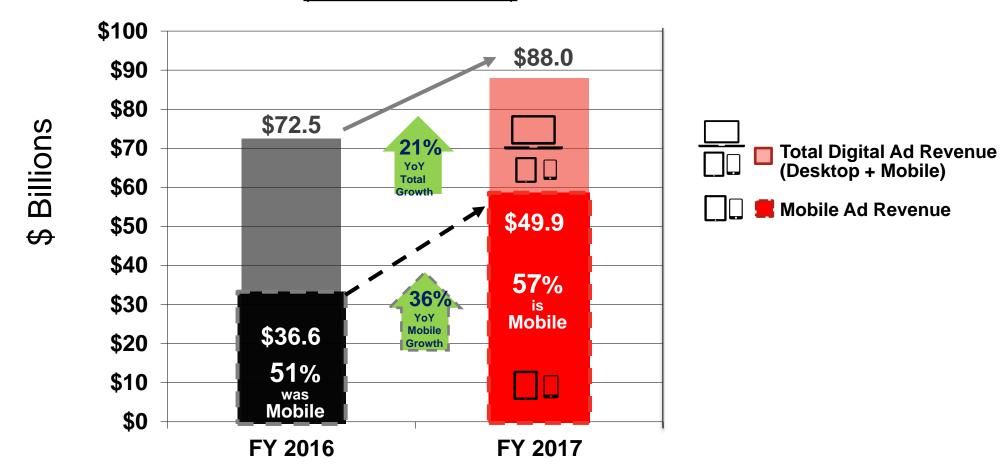


YoY Change in Minutes Spent Online

by Device 12/16-12/17

Mobile Has Grown to Account for Over Half of 2017 Digital Ad Revenue

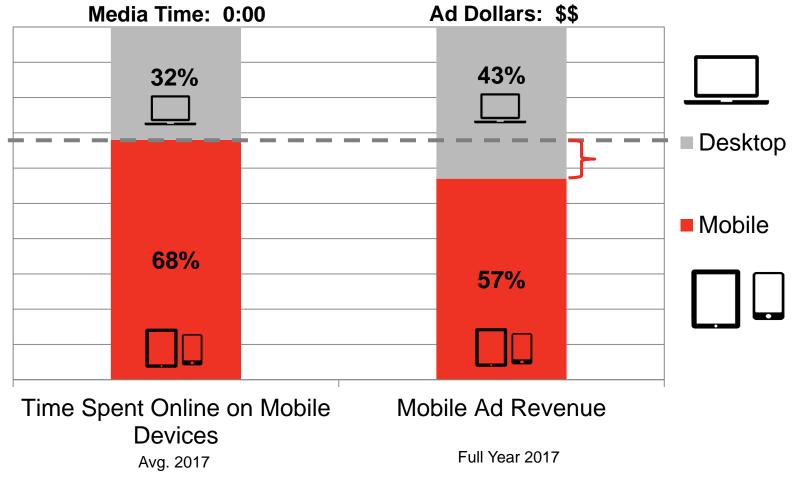
Mobile as a Percentage of Digital Ad Revenue Growth (FY 2016 vs. FY 2017)





Mobile Ad Revenue is Catching Up to Consumer Usage **But Still Has Room for Growth**

Mobile as a Percent of Digital Time Spent vs. Ad Revenue





IAB Digital Usage Trend Report

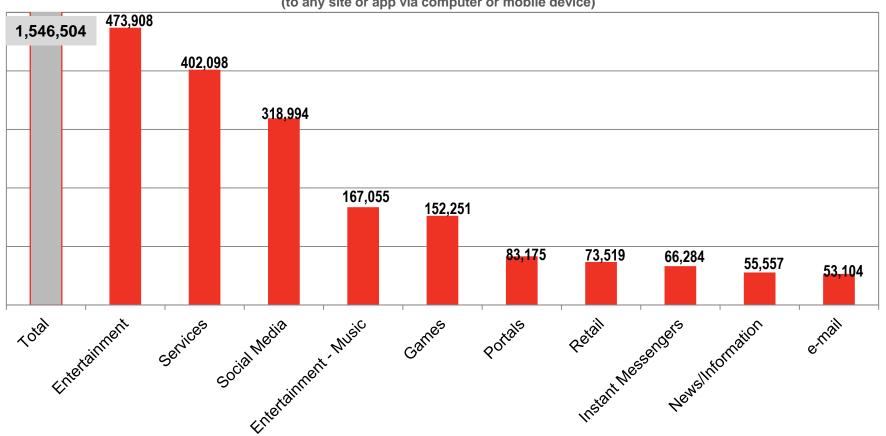
Top Categories and Sites



Most Time Online is Spent with Entertainment, Services, Social Media

Top Categories by Time Spent on Any Device

Monthly Minutes (MM), Dec 2017 (to any site or app via computer or mobile device)

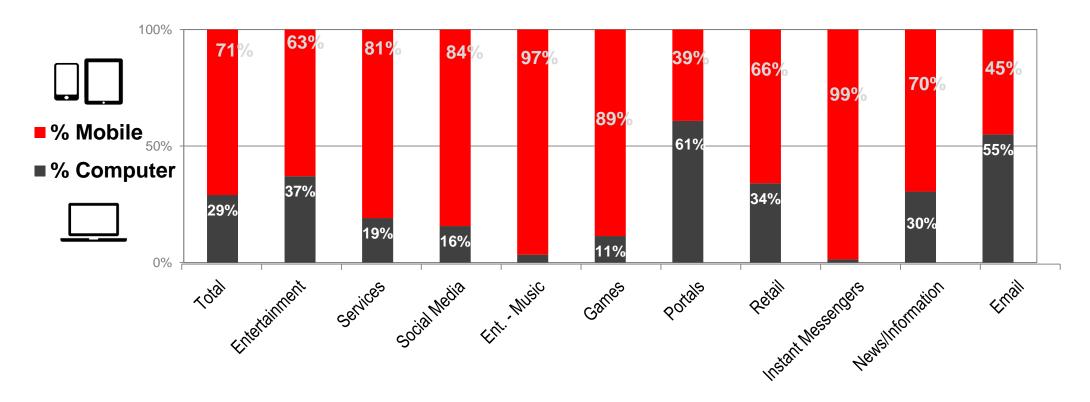




Most Top Categories by Time Spent Online Are Accessed Primarily from Mobile Devices

Mobile: Desktop Ratio of Top Categories by Time Spent Online

Monthly Minutes, Dec 2017 (to any site or app via computer or mobile device)

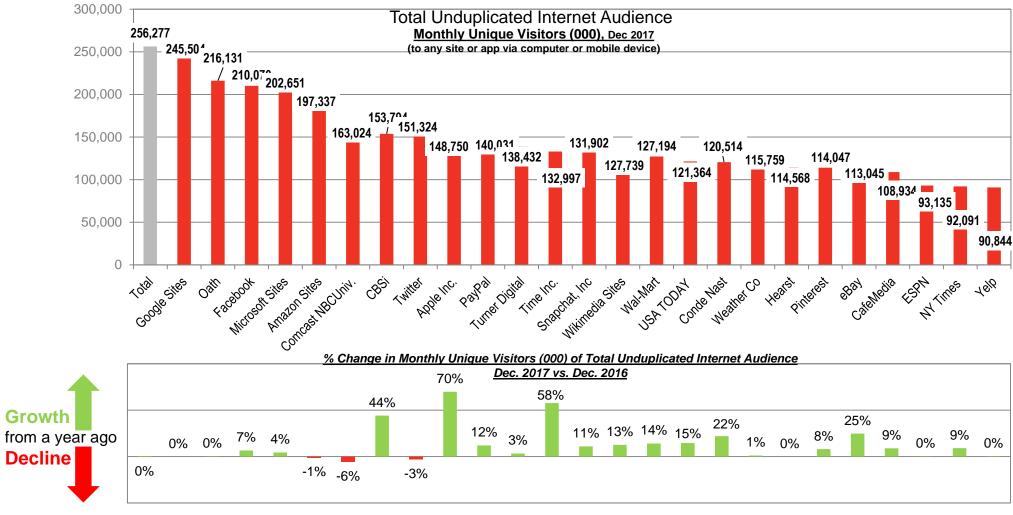




Top 25 Properties with the Most Visitors Accessed by Computer or Mobile

by Unduplicated Monthly Unique Visitors

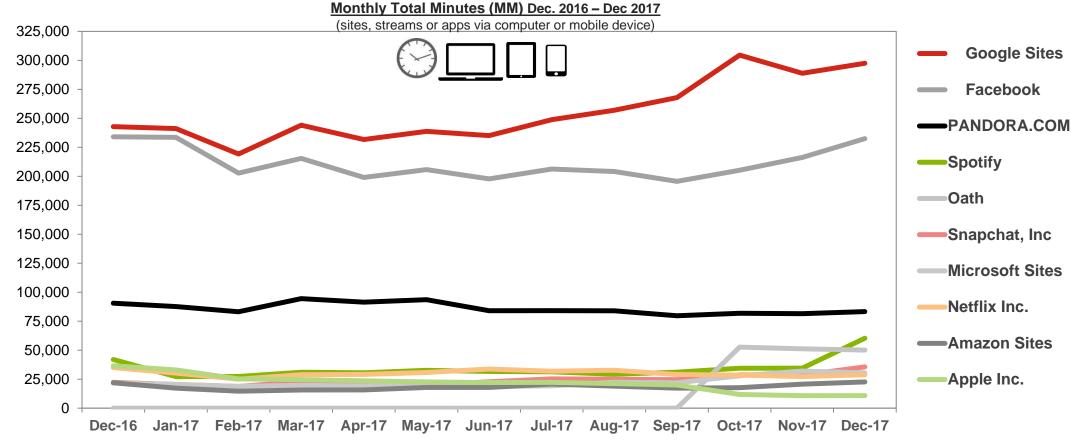
Apple had a surge in visitors in Dec. due to new devices





One Year Trend of Time Spent on Top 10 Properties

- Time spent on Google properties has grown over the year, significantly outpacing Facebook
- Pandora maintains a strong #3 position in time spent online



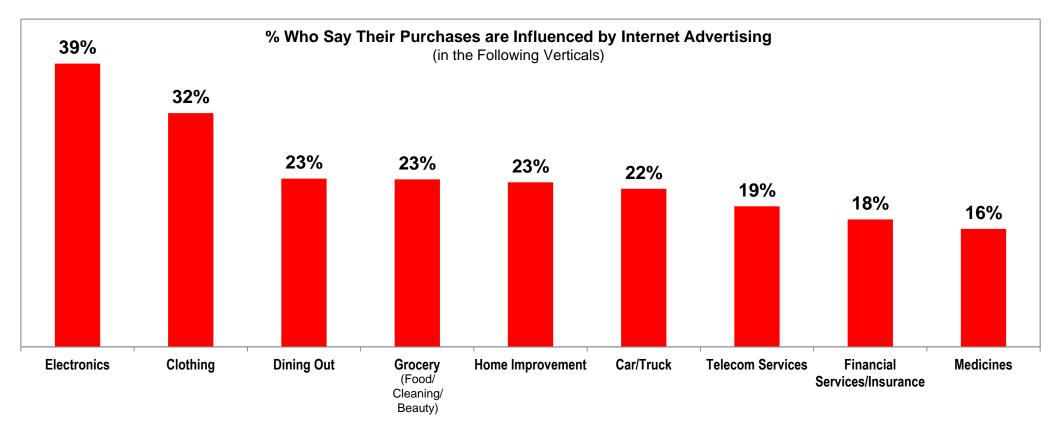
Source: ComScore US Media Metrix Multi-Platform

Effective with January 2017 data, the comScore audience product suite (Media Metrix MP, Media Metrix, Video Metrix, Mobile Metrix) underwent methodology and processing enhancements affecting all markets and all audience products. Effective with January 2017 data, the comScore audience product suite underwent methodology and processing changes, resulting in break in trend. US Media Metrix Multi-Platform and Mobile Metrix data was restated for April 2017 and May 2017 data months, in relation to duration data for Android smartphones. YouTube, Spotify and Twitter data were restated over the course of the year.



Impact of Digital: Internet Advertising Influences Purchase Decisions

39% of US adults say their electronics purchases are influenced by internet advertising

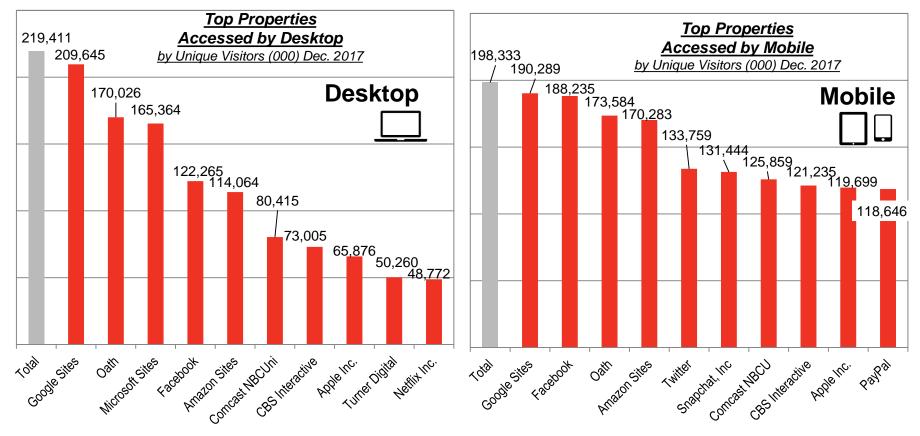


Prosper Insights, Media Behavior and Insights data, Jan. 2017. n=16,644 US Adults 18+



Top 10 Properties by Monthly Unique Visitors by Device

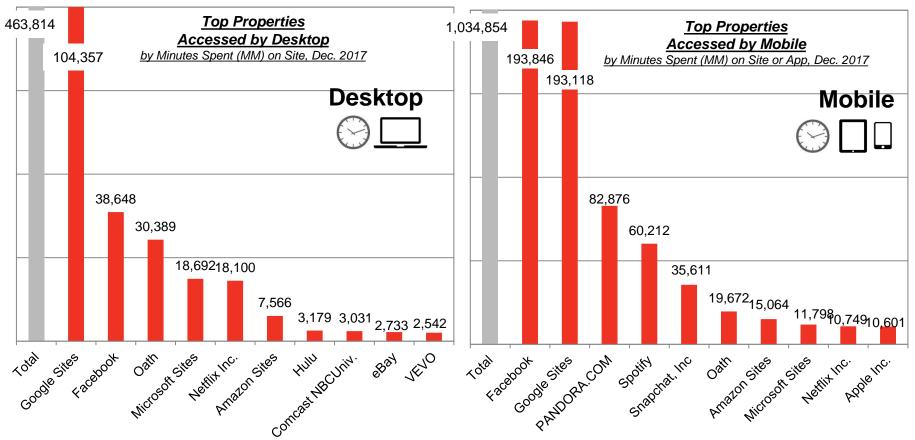
- Most popularly visited properties are similar whether accessed by unique monthly desktop users or mobile users with a few exceptions:
- Microsoft, Turner and Netflix are Top 10 among desktop users but not mobile users
 - Twitter, Snapchat and PayPal are Top 10 among mobile users





Top 10 Properties by Time Spent Online by Device

- Most time is spent on Google and Facebook with desktop time on Google far exceeding that of Facebook.
- Top 10 sites by time spent imply consumers stream video on desktop and stream audio on mobile:
 - Hulu, Comcast NBC, eBay and Vevo are among the Top 10 desktop properties;
 - Pandora, Spotify, Snapchat and Apple attract more of users' time on mobile devices







Mobile

IAB Digital Trends 2017:

Consumer Usage, Ad Revenue and Impact

Monthly Mobile Internet Usage Summary

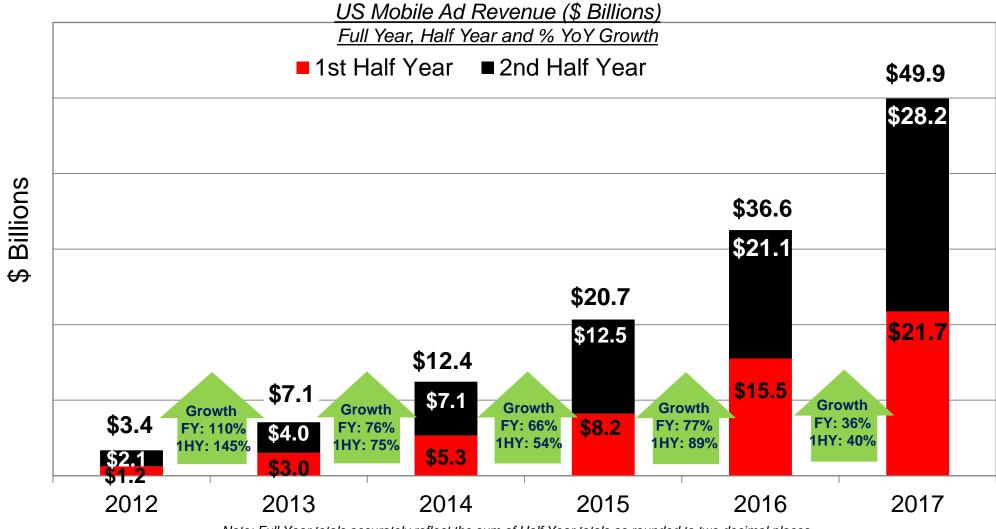




ComScore US Mobile Metrix Avg. 2017



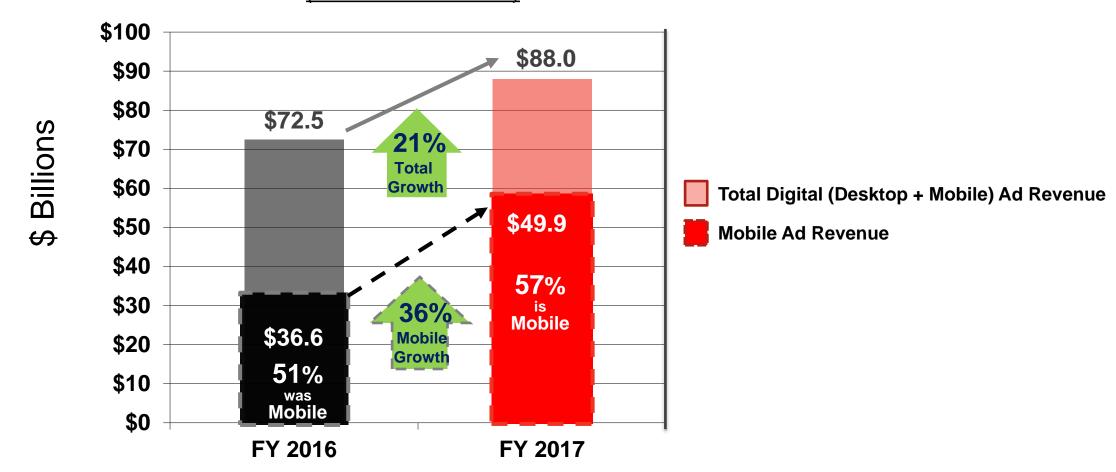
Mobile Ad Revenue 2017: \$50 Billion Mobile Advertising in 2017 Has Grown to Over 10x Revenue of 2012





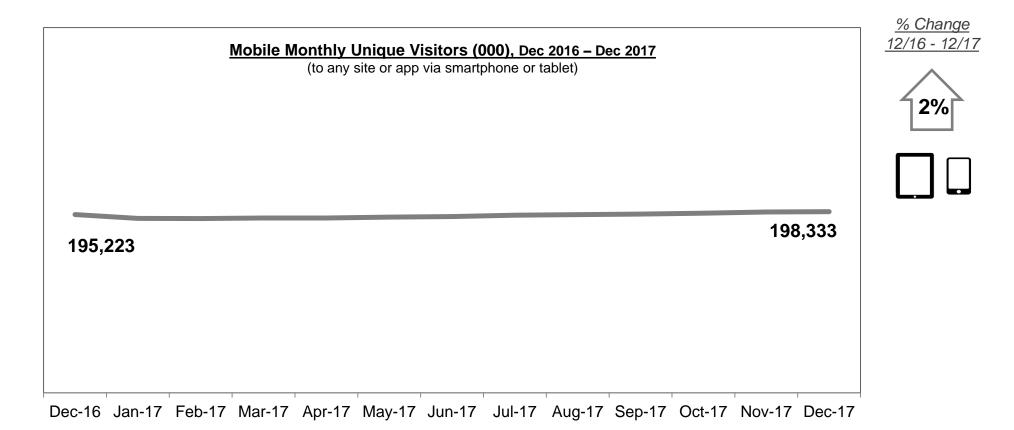
Mobile Has Grown to Account for Over Half of Digital Ad Revenue in 2017

Mobile as a Percentage of Digital Ad Revenue Growth (FY 2016 vs. FY 2017)





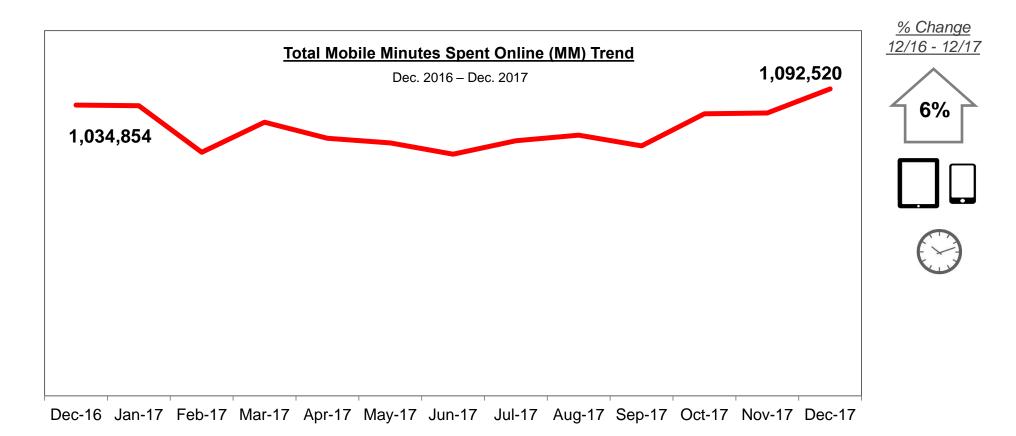
Number of Mobile Unique Visitors is Up Slightly





Time Spent Online on Mobile Devices Has Grown

Time spent online on mobile is up 6% from a year ago.

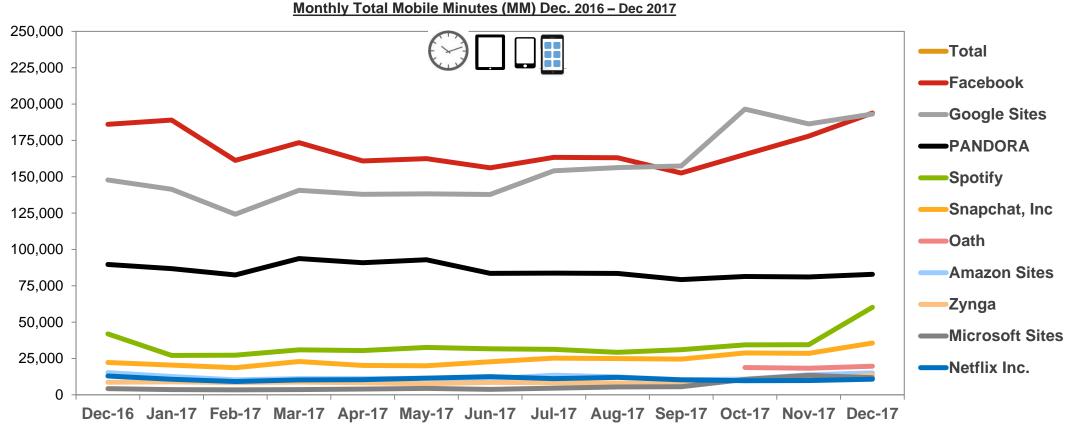






One Year Trend of Time Spent on Top 10 Mobile Properties

Facebook and Google finished the year neck and neck with Pandora a solid third place in terms of time spent on the mobile properties



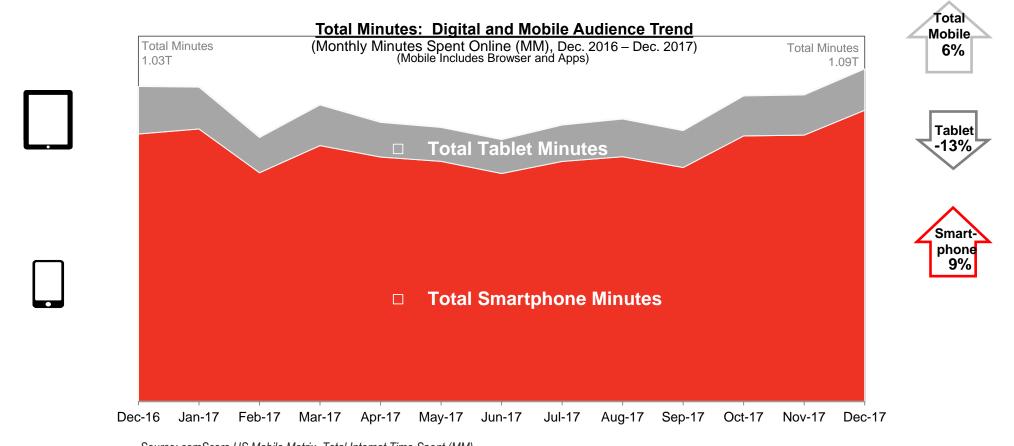
Source: ComScore US Media Metrix Multi-Platform

Effective with January 2017 data, the comScore audience product suite (Media Metrix MP, Media Metrix, Video Metrix) underwent methodology and processing enhancements affecting all markets and all audience products. Effective with October 2017 data, US Media Metrix Multi-Platform and Mobile Metrix are benefiting from several enhancements made to the mobile panel technology behind comScore's audience product suite. The [C] Instagram (Mobile App), [M] Instagram.com, and [P] Facebook entities' total minutes were understated in October 2017 for the iPhone, iPad, and Total Mobile platforms in Mobile Metrix. Mobile Minutes for [M] Spotify (Mobile App) reported incorrectly due to a tagging issue. Revised data for the October, November, and December 2016 were restated.



Most Mobile Time Online is on Smartphones

- Mobile time spent online is up overall by 6%, largely driven by smartphone usage.
- Time spent online on smartphones is up 9% while tablet time is down -13% year over year





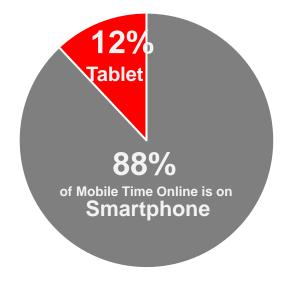
While Most Consumers Use Smartphones and Tablets, More Mobile Time is Spent Online Using a Smartphone

Total Mobile Minutes Online

Total Mobile Minutes on Browser vs. In App

- **Total Smartphone Minutes**
- Total Tablet Minutes

181 Million were Online via **Smartphone** in Dec. 2017



were Online via

97 Million

Tablet

in Dec. 2017

Dec. 2017

comScore US Mobile Metrix, Dec '17, Total Minutes (000) Browsing, Applications comScore US Media Metrix Multi-Platform, Dec '17, Total Monthly Unique Users Accessing Mobile App (MM) Effective with October 2017 data, US Media Metrix Multi-Platform and Mobile Metrix are benefiting from several enhancements made to the mobile panel technology behind comScore's audience product suite





Mobile Apps vs. Mobile Web

IAB Digital Trends 2017:

Consumer Usage, Ad Revenue and Impact

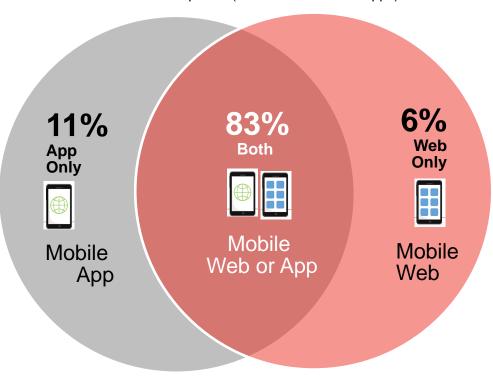
Effective with October 2017 data, US Media Metrix Multi-Platform and Mobile Metrix are benefiting from several enhancements made to the mobile panel technology behind comScore's audience product suite.

Most Mobile Users Access the Internet using Both Mobile Web and Apps

Unique Monthly Mobile Users by Web or App

Avg. 2017

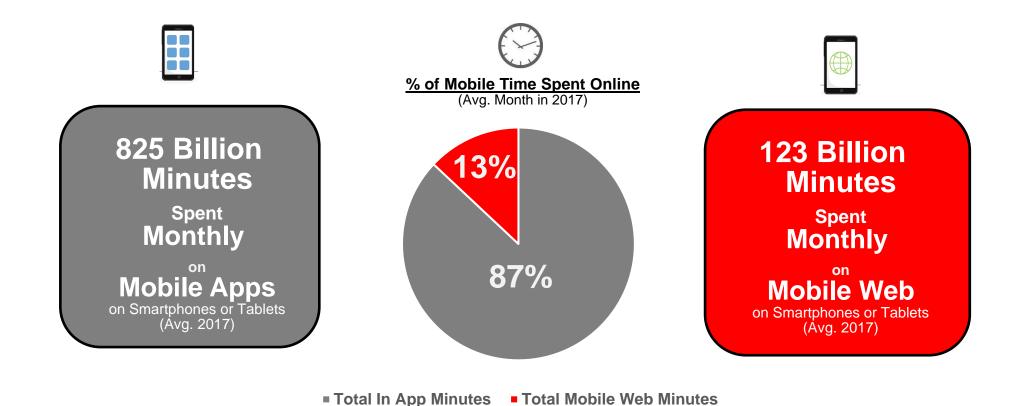
Tablet or Smartphone (Mobile Browser vs.. Apps)



ComScore US Mobile Metrix, Total Audience. Avg. month in 2017



Most Monthly Mobile Internet Time is Spent on Apps

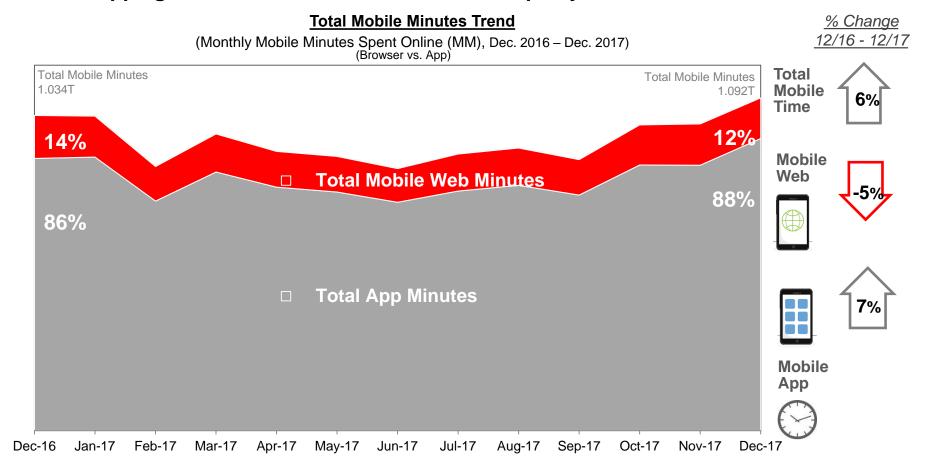


ComScore US Mobile Metrix Avg. 2017



Mobile Time Spent Online is Shifting to Apps: 88% of Mobile Time is on Mobile apps

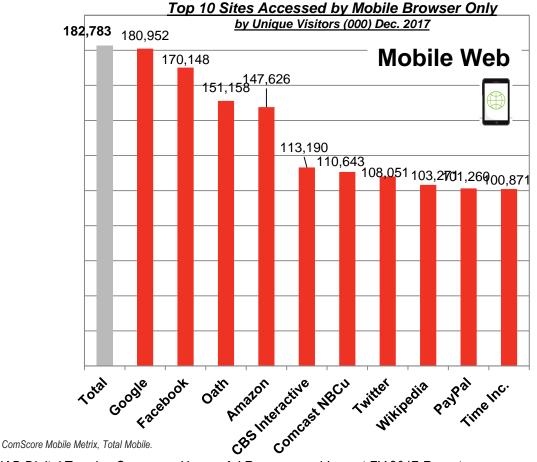
- US consumers spent over 1 Trillion minutes online using a mobile device in December, up 6% from a year ago.
- Time spent online on mobile apps grows 7% while mobile web time drops by 5%

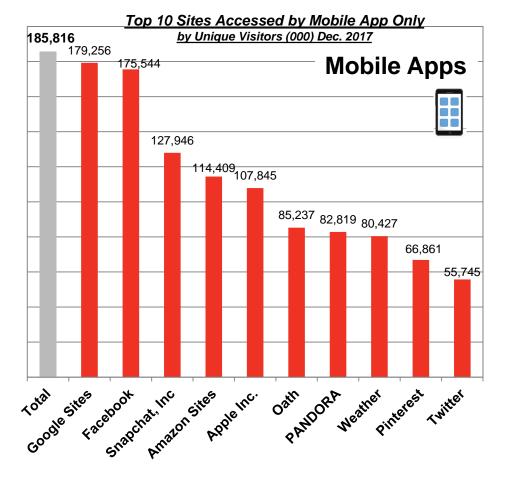




Some Sites are More Popularly Visited in Apps Than Mobile Web

- Google, Facebook, Oath, Amazon, Twitter are among the top 10 mobile app or mobile web sites by unique monthly visitors
- Social media sites are accessed by web and app (Facebook) with some more leaning more heavily towards app (Snapchat, Pinterest) and some to mobile web (Twitter)
- Network sites (CBS, NBCu) are popularly visited on mobile web; Streaming audio (Pandora, Apple) are popularly visited by app

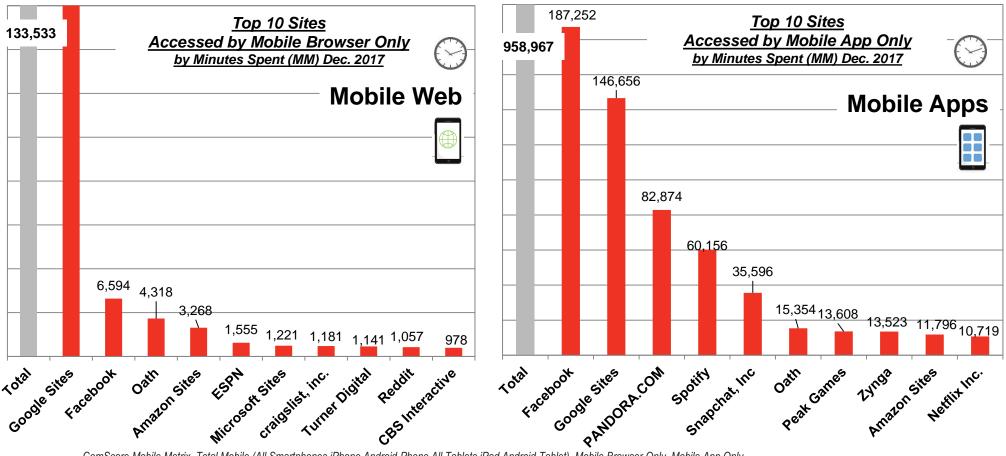


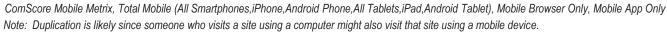




Top Mobile Properties by Time Spent Online Vary by Mobile Web vs. In App

- Ocupation Consumers spend the most mobile time on Google, Facebook, Oath and Amazon whether by app or mobile web
- Top properties by time spent on mobile web include TV networks, portals and shopping sites
- Top mobile apps by time spent include pure play streaming audio properties and gaming apps









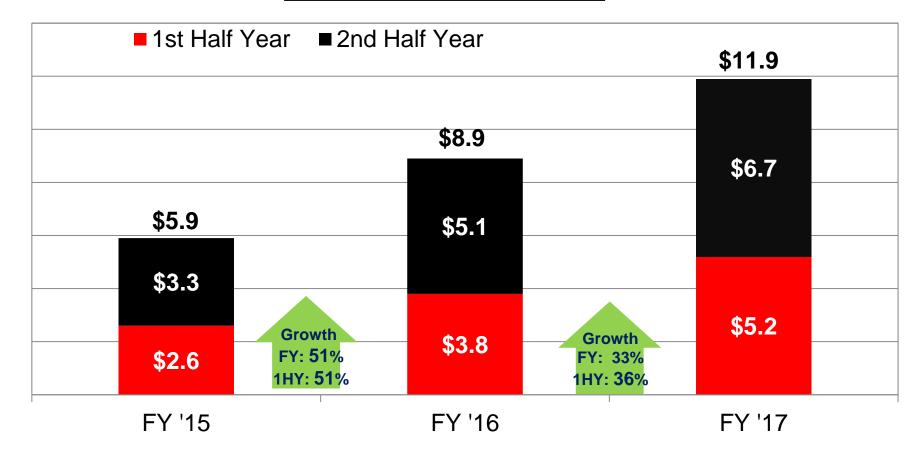
Digital Video

IAB Digital Trends 2017:

Consumer Usage, Ad Revenue and Impact

Total Video Ad Revenue (Mobile + Desktop) Has Doubled Since 2015

<u>US Total Video (Mobile + Desktop) Ad Revenue (\$ Billions)</u>
<u>Full Year, Half Year and % YoY Growth</u>



\$ Billions

Note: Full Year totals accurately reflect the sum of Half Year totals as rounded to two decimal places.

*Note that FY'16 video revenue has been restated.



232 Million Users Stream 56 Billion Videos per Month

The typical American spends just over 15 hours a month streaming nearly 250 videos

232 Million
Users Stream
Digital Video
in a typical month

56 Billion
Videos
Streamed
in a typical month

The Average
User Streams

242 Videos
per Month

The Average
User Spends

15 Hours 3 Minutes
Streaming
Videos
Per Month

21 Billion Video Ads Are Streamed per Month

In a typical month, the average user will stream 95 video ads

21 Billion Video Ads

Streamed in a typical month

The Average
User Streams

95 Video Ads

per Month
in an avg. month



Half of Consumers Regularly Watch TV Shows Online, One-Third Watch ODV

Original Digital Video

Original digital video
32%
of total US Pop.

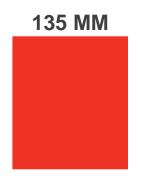
Ages 13+

86 MM

Digital video viewers that watch professionally-produced and ad-supported video content made for digital distribution only. The original video content can include episodic shows, online clips/extras from TV shows or show-form video.

TV Shows Online

TV Shows
Online
50%
of total US Pop.
Ages 13+



Digital video viewers that watch TV series online instead of through traditional linear TV via a pay TV service or over the air. These TV shows could be either currently airing on TV or aired in the past.

Subscription-Based, Ad-Free Digital Original Series

Ad-Free Only
Digital Original
Series
13%
of total US Pop.
Ages 13+

35 MM



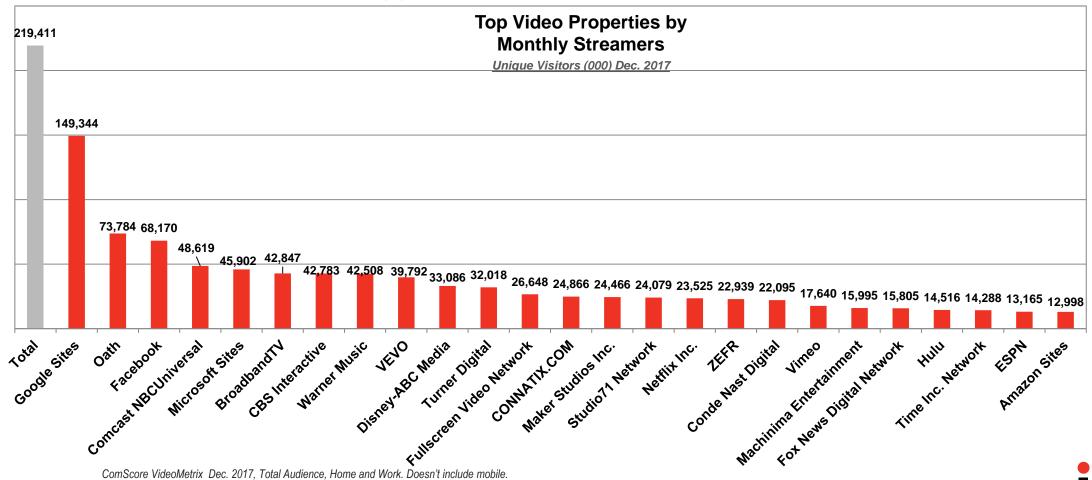
Digital video viewers that watch professionallyproduced digital original series only through ad-free video streaming services such as Netflix and Amazon Prime.

Based on 2017 US Census (source: https://www.census.gov/cps/data/cpstablecreator.html) Total US Population, Ages 13+ 268 million



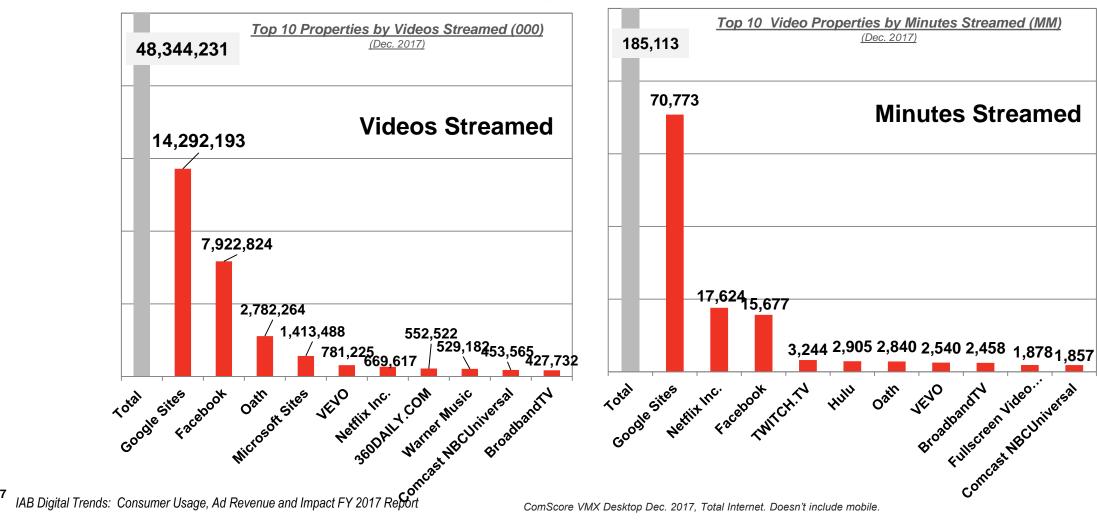
Top 25 Most Popularly Visited Video Properties

- Google (YouTube) continues to be the most visited video property with more than twice as many monthly visitors than any other video property
- Oath had more video streamers than Facebook by year's end



Top Video Properties by Videos Streamed and Time Spent Streaming

- Google is a strong #1 in number of videos streamed and minutes spent streaming, towering over the next closest streaming competitors (Facebook in videos and Netflix in time spent)
- Netflix has outpaced Facebook in terms of time spent streaming videos







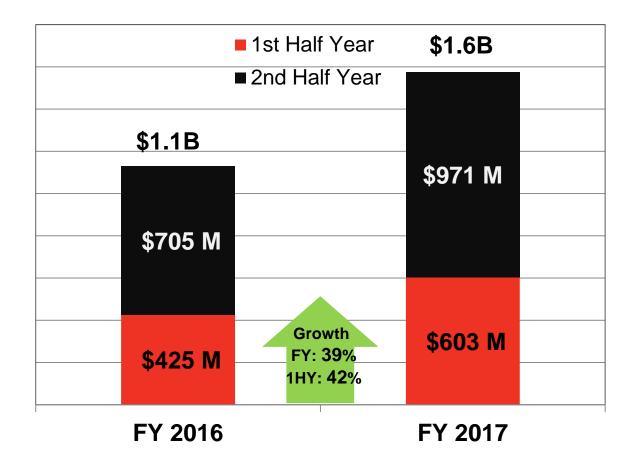
Digital Audio

IAB Digital Trends 2017:

Consumer Usage, Ad Revenue and Impact

Total Audio Ad Revenue (Mobile + Desktop) Has Grown 39% Year Over Year

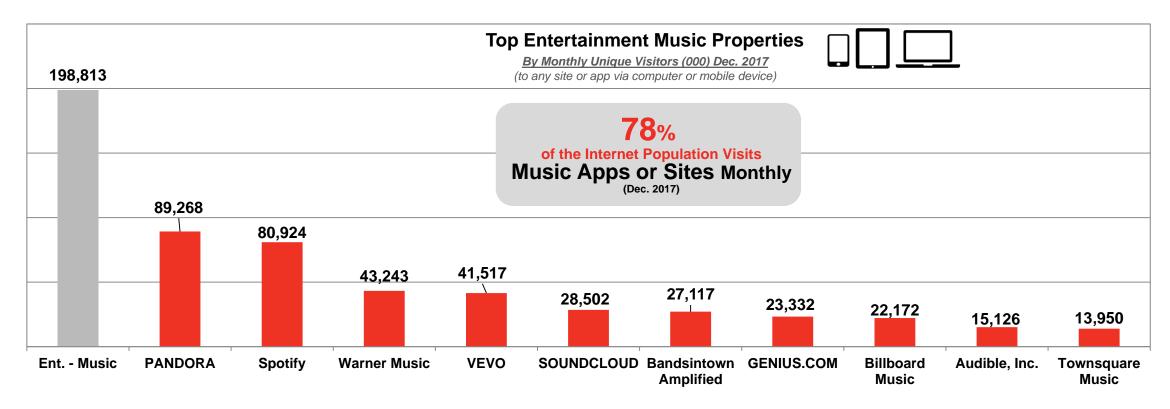
<u>Total Audio Ad Revenue (Mobile + Desktop) (\$ Millions)</u> <u>Full Year, Half Year and % YoY Growth</u>





Nearly 200 Million Consumers Visited Entertainment Music Properties in December

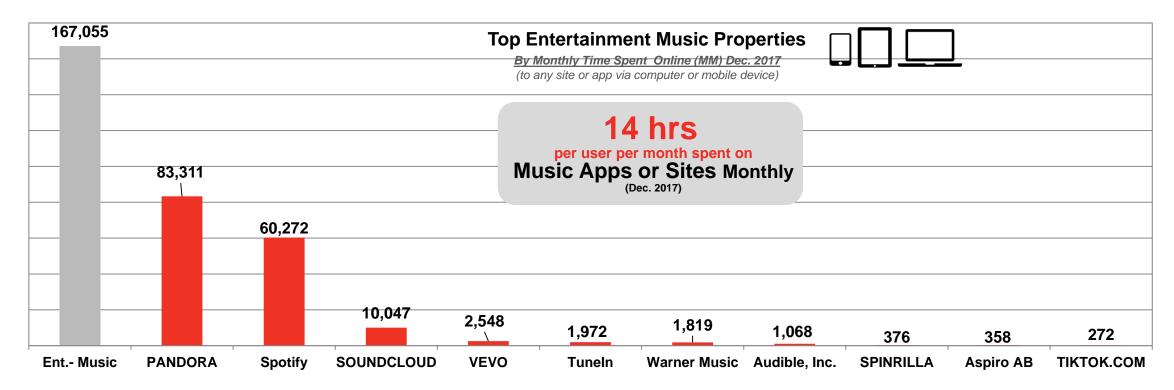
Many top entertainment music properties are focused on streaming audio





Consumers Spent 167 Billion minutes on music entertainment sites in Dec.

By far, consumers spent more time on Pandora or Spotify than any other music entertainment property

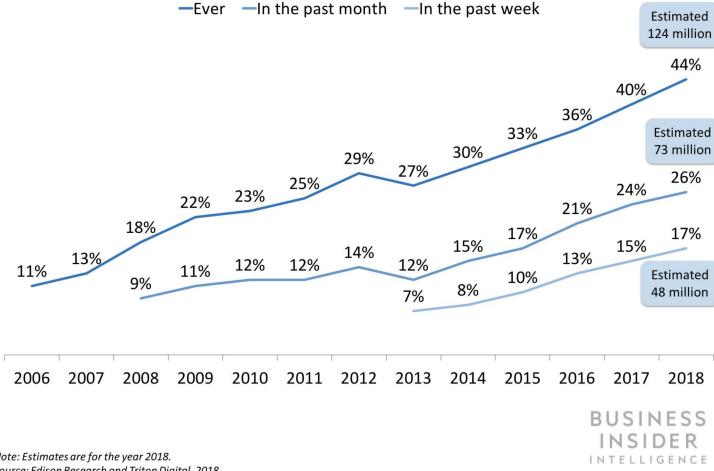




The US Podcast Listener Base is Growing

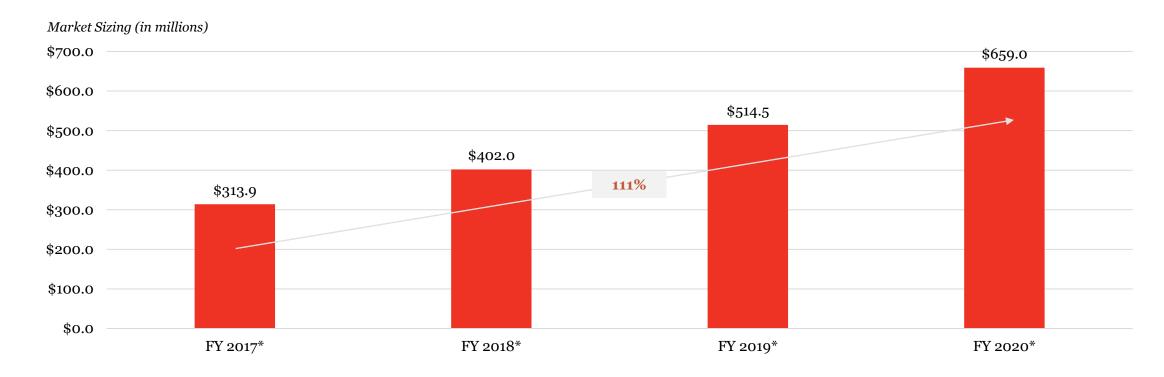
The US Podcast Listener Base Is Growing

Share of consumers age 12+ who have listened to a podcast





US Podcast Ad Revenue is Expected to Grow 111% by 2020 to \$659 Million



^{*2017 - 2020} revenues are an estimate based total market sizing, not self-reported revenues Market Sizing represents an estimate of the total US total podcast advertising market IAB FY 2017 Podcast Ad Revenue Study, conducted by PwC, June 2018,





Social Media

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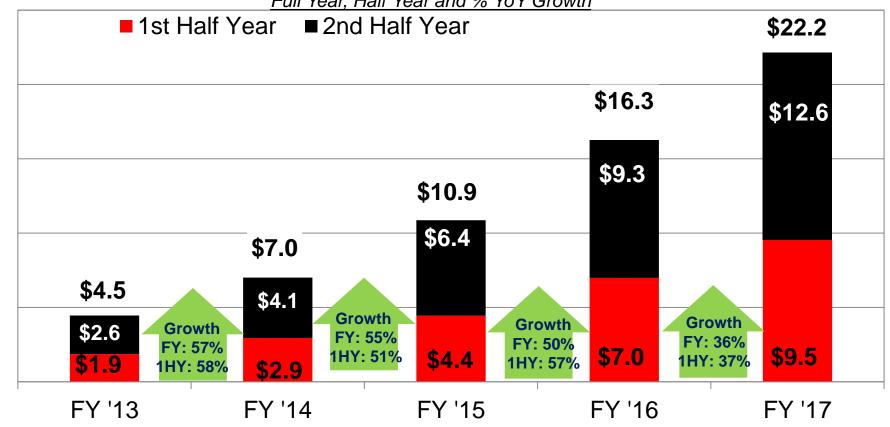
Social Media Revenue (Mobile + Desktop) Has Doubled in Just Two Years

Billions

US Social Media Ad Revenue (\$ Billions)

Across Formats and Devices

Full Year, Half Year and % YoY Growth

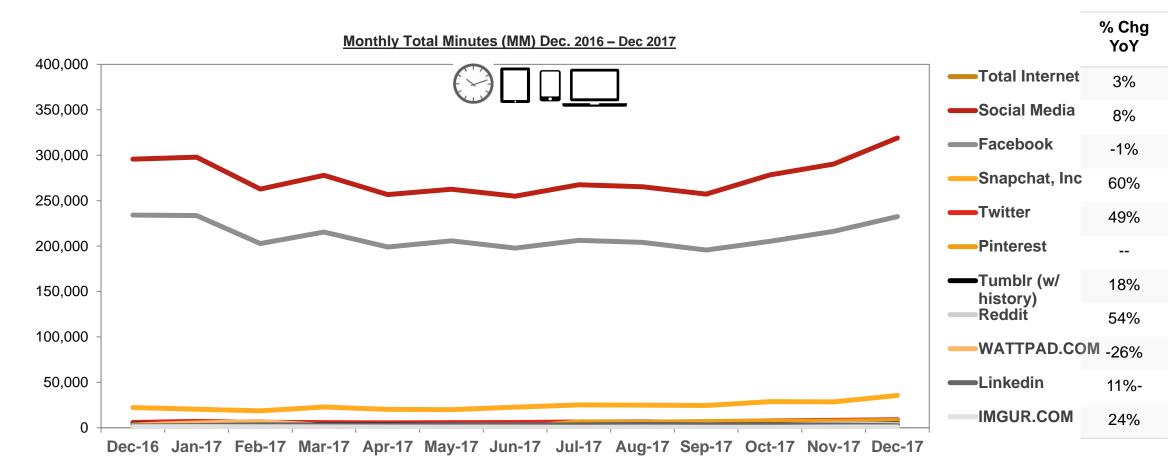


Note: Full Year totals accurately reflect the sum of Half Year totals as rounded to two decimal places.



One Year Trend of Time Spent on Top 10 Social Media Properties

Consumers spent more time on social media especially on Snapchat, Twitter and Reddit



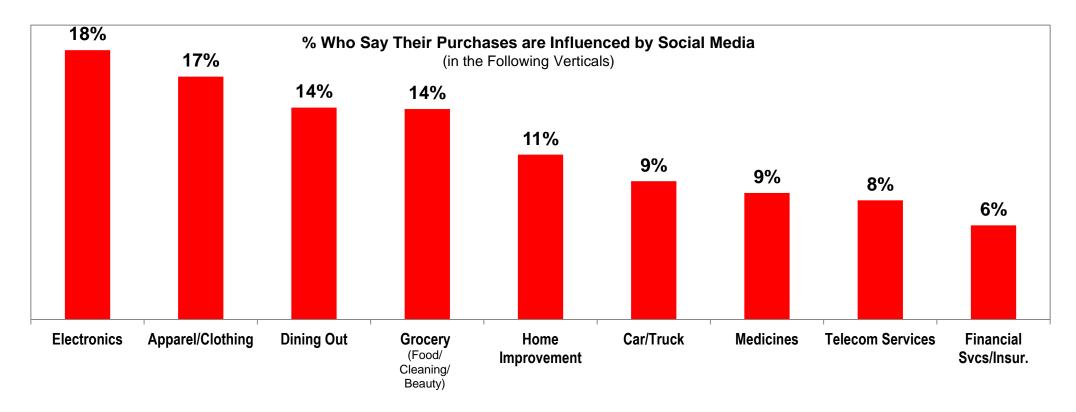
Source: ComScore US Media Metrix Multi-Platform

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Social Media Influences Purchase Decisions

Electronics, Clothing, Dining and CPG purchases are most influenced by social media



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