Q4.2015 NDEO TRENDS REPORT

Consumer Behavior Across Pay-TV, VOD, PPV, OTT, TVE, Connected Devices, and Content Discovery



Survey Demographics

Q4 2015 Survey Size: 3,120 Consumers Geographic Regions: United States, Canada Age of Respondents:

18+ Years of Age

This survey was conducted in Q4 2015 by a leading third-party survey service; Digitalsmiths analyzed the results. Digitalsmiths conducts this survey on a quarterly basis and publishes a report evaluating and analyzing key trends across the Pay TV industry. The purpose of this survey is to track consumer trends over time, offering Pay TV providers real, unbiased feedback regarding consumers' behaviors, perceptions of the industry, and views of new technology hitting the market.



Introduction

Digitalsmiths[®], a TiVo[®] company, is an industry leader in personalized content discovery, offering Pay-TV providers, digital publishers, and consumer electronic manufacturers the technology and services to power personalized search, recommendations, and robust analytics platforms. Digitalsmiths' marquee customers include Charter, Dish, DirecTV, FOX Sports, Sharp Electronics, The CW Network, and Time Warner Cable.

Each quarter, Digitalsmiths seeks real consumer opinions to uncover key trends facing Pay-TV providers, digital publishers, and consumer electronics manufacturers. Consumers' genuine, unbiased perspectives and feedback are influential in driving continuous improvements

PAY-TV PROVIDERS

Who is your current cable/satellite service provider?

Bell Verizon TELUS MTS Rogers Mediacon MTS SaskTel Comcast Charter Cablevision Cox Suddenlink Bright House Network Time Warner Cable AT&T U-verse GoogleTV Shaw DIRECTV to Digitalsmiths Seamless Discovery[®], the industry's leading personalized content discovery platform, and Seamless Insight[®], which delivers the reporting and analytics necessary to optimize content discovery. The findings are shared for the same reason Digitalsmiths uses them, in hopes that video service providers leverage the information to improve and develop applications and features to enhance the overall TV viewing experience offered today.

Digitalsmiths has conducted this survey since 2012, enabling the company to monitor, track, and identify key trends in consumers' viewing habits, as well as their opinions of Pay-TV providers, emerging technologies, connected devices, TV Everywhere apps, and content discovery features such as personalized recommendations. In addition to key quarter-over-quarter (q/q) and year-over-year (y/y) trends, Digitalsmiths' *Q4 2015 Video Trends Report* covers many new topics, including:

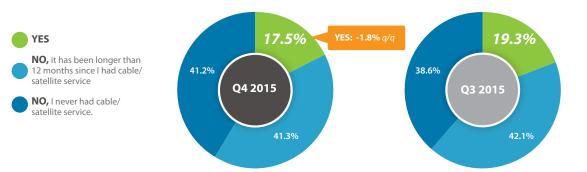
- Analytical Commentary: An analysis highlighting the top seven channel packages respondents would like in a skinny bundle.
- New data on respondents' sentiments toward Netflix's most appealing features such as personalization, profiles, price, and more – including a breakdown of these results by the top Pay-TV providers.
- New data highlighting respondents' sentiments toward a shift from the traditional Pay-TV grid to a personalized carousel experience.

While the majority of this report examines those with a Pay-TV provider and how they interact with their TV offerings, Digitalsmiths first sought to understand the audience without a Pay-TV provider, as well as those who are currently on the fence about leaving their current provider.

Of the respondents who answered, "I do not have a Pay-TV provider," 17.5% cut cable in the last 12 months, a decrease of 1.8% q/q. Of those respondents without Pay-TV service, 45.5% use an antenna to access basic TV channels, which is flat q/q. Interestingly, the cord-cutter audience experienced little growth in Q4 2015.

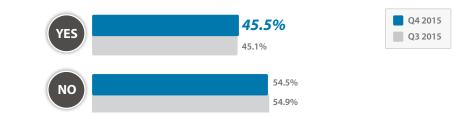
CUTTING PROVIDERS

Did you cut cable/satellite service in the last 12 months? (Only answered by respondents who do not have a Pay-TV provider)



OVER-THE-AIR USAGE

If you do not have cable/satellite service, do you use an antenna to access the basic channels on your TV?





Potential Churn

Of respondents who do have Pay-TV service, 44.7% are at risk for churn, when combining those who answered "yes" and "maybe" to "Do you plan to change cable/satellite providers in the next six months?" To understand the current and future state of whether respondents plan to stay with their provider or join the cord-cutter audience, here is a breakdown of the state of Pay-TV subscribers in Q4 2015:

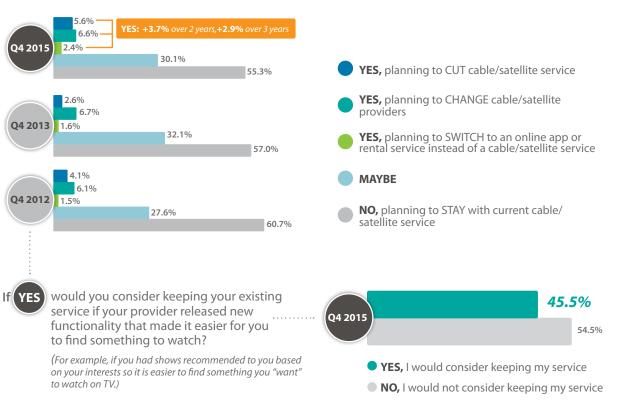
- When asked if they planned to change cable/ satellite providers in the next six months:
 - 5.6% of respondents plan to cut altogether,
 - 6.6% plan to change to another cable/satellite provider,
 - 2.4% plan to switch to an online app or rental service, and
 - 30.1% answered "maybe" and are on the fence.
 - These figures total 44.7% of respondents with Pay-TV service who are at risk for churn.
- 7.8% of respondents answered they switched Pay-TV providers in the last three months, which is down slightly q/q and y/y.
- Of those who plan to cut, change, or switch, 45.5% would stay if their existing provider released new functionality to improve content discovery.

SWITCHING PROVIDERS

Have you switched cable/satellite providers in the last three months?



Do you plan to change cable/satellite providers in the next six months?





Key Takeaway: Since 45.5% of at-risk respondents answered that improved content discovery would convince them to stay with their current cable/satellite service, Pay-TV providers must accelerate efforts to meet these demands – or risk the loss of their subscribers. With primary viewing still taking place in the living room via the set-top box, Pay-TV providers must find ways to deliver modern discovery solutions to their subscribers.

While set-top boxes should be the main focus, streaming devices cannot be ignored. In 2015, almost 25% of U.S. homes had a streaming device, and with projections to grow to 40% by 2017*, Pay-TV providers need to simultaneously increase their app offerings on these devices. Doing so would also alleviate the need to upgrade set-top boxes and send out in-home service teams – and best of all, these apps can deliver content discovery-based, personalized interfaces to consumers in a timely manner. Netflix offers its platform on essentially every type of streaming device, yet the average Pay-TV provider only offers its subscribers access to its service through a handful of platforms.

Pay-TV Fees

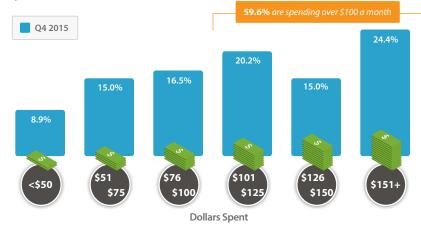
- ➡ 59.6% of respondents pay \$101+ a month to their Pay-TV provider.
- ➡ 39.4% of respondents answered they pay "more than my bill was 12 months ago," which decreased slightly q/q, 2.1% y/y, 3.8% in two years, and 5.0% in three years.

Key Takeaway: While fewer respondents indicated that their bill is more than a year ago, Digitalsmiths predicts this trend to change in 2016, due to rate increase announcements from three of the top four U.S. Pay-TV providers in January 2016.*

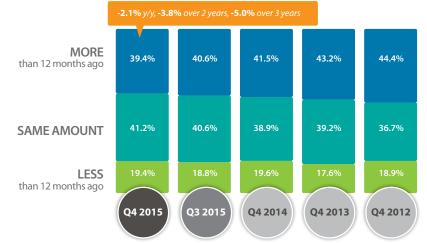
*http://www.multichannel.com/news/distribution/cable-rates-rise-3-4-average-2016/396619

BILL AMOUNT

How much is your total monthly bill from your cable/satellite provider for all major services used such as TV, Internet, and phone (not including video-on-demand/ movie purchases)?









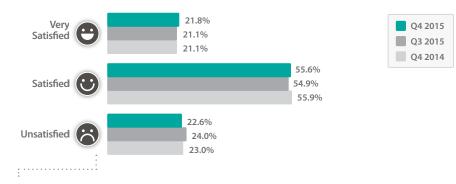
Respondents' Sentiments Toward Pay-TV Service

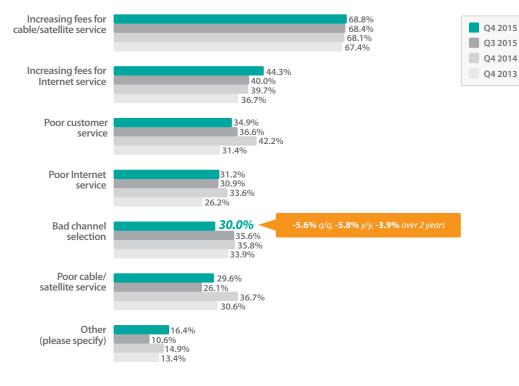
- In Q4 2015, 77.4% of respondents are "satisfied" or "very satisfied" with their Pay-TV service, which is up slightly q/q and y/y.
- For the third quarter in a row, the top three reasons for dissatisfaction are "increasing fees for cable/satellite service," "increasing fees for internet service," and "poor customer service."
 - While "bad channel selection" decreased 5.6% q/q, 5.8% y/y, and 3.9% in two years, it should be an area of concern for Pay-TV providers since it remains an issue for 30.0% of respondents.

Key Takeaway: While 30.0% of respondents are disappointed with their channel selection, the majority of channels selected by respondents in the à la carte channel section of the survey (see results on page 10) are offered in most cable/satellite packages today. This disconnect should make Pay-TV providers ask themselves: are these respondents simply unable to find their desired content?

VALUE

How would you rate the level of value you are receiving from your cable/satellite service provider?





If **UNSATISFIED**, why do you feel you're not getting enough value from your provider? (Choose all that apply)



Service Level Adjustments

- ➡ Similar to previous quarters, those who increased services (17.6%) and decreased services (17.1%) remain relatively the same q/q (see charts on page 8).
 - Top Services Added: "Internet," "Premium Channels," and "High Definition (HD)."
 - **Top Services Cut:** "Reduced level of cable/satellite service," "Premium Channels," and "Premium Sports Package(s)." "Premium Sports Package(s)" were cut at a higher rate than they were added.
 - **Premium Channels:** 38.7% of respondents with Pay-TV service pay for premium channels, and the top channels were HBO, Showtime, and The Movie Channel.
 - Growth of premium channels is flat q/q, but has decreased 3.1% y/y.

Key Takeaway: Neither premium channel adoption nor respondents who increased services have seen positive growth trends according to y/y and two-year trends. While these are only two metrics that contribute to increasing Average Revenue Per User (ARPU), Digitalsmiths believes that the more saturated subscribers are with their provider's services, the less likely they are to leave. Therefore, Pay-TV providers should be looking for ways to increase saturation.

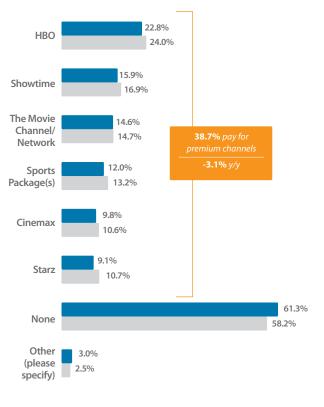
One tactic to improve adoption of premium channels, as highlighted in a recent article by Home Media Magazine, was Verizon Communications' program that allows FiOS TV subscribers a 48-hour free trial of a premium channel. Dubbed "Free View," the program lets subscribers activate a premium channel to see if they like it. Offering a risk-free way to see what a channel has to offer, this tactic helps combat the ever-growing OTT threat.*

Another impressive tactic is Time Warner Cable's offering of a streaming only service on a Roku player in limited, trial markets. By leveraging outside technology to deliver its services to consumers who might already own, or are willing to buy a Roku player, use of existing devices can appeal to both consumers and Pay-TV providers. For consumers, it appeals to those who are tired of paying to lease equipment from their provider; for Pay-TV providers, it removes the need to send out a service truck for an install.

*http://www.homemediamagazine.com/cable/report-says-pay-tv-should-focus-content-recommendation-37498

PREMIUM CHANNELS

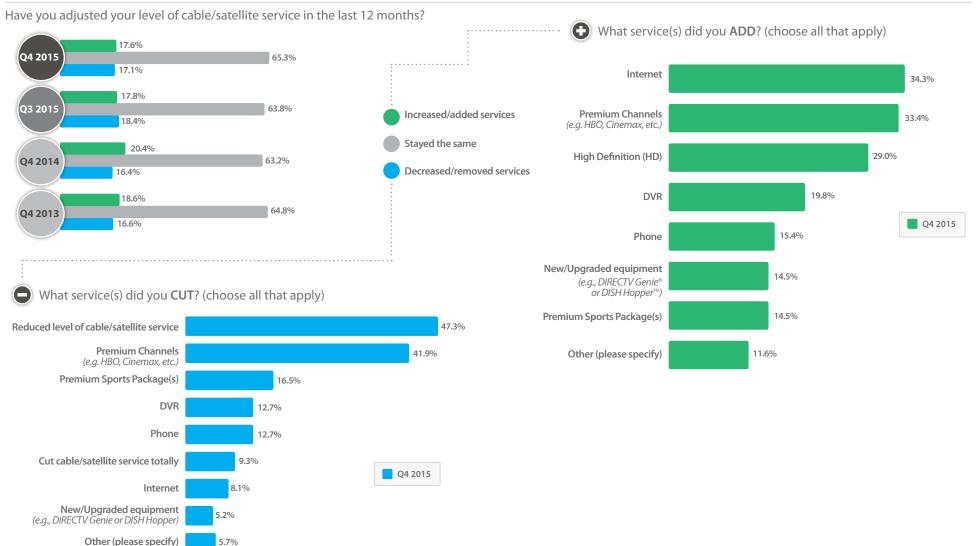
Do you pay for any of the following premium channels through your cable/satellite provider? (choose all that apply)







SERVICE ADJUSTMENT





Respondents' Sentiments on Pay-TV Skinny Bundles

In Q4 2015, 73.6% of respondents would like to choose only the channels they want to watch. While skinny bundles are the new trend in TV packages, the amount of respondents who would like an à la carte channel option decreased for the fourth quarter in a row. The top five most desired channels among respondents were:

1. Discovery Channel**2.** ABC**3.** CBS**4.** History

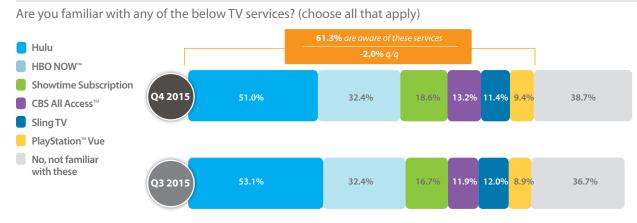
Additionally, the average price respondents want to pay for self-selected channels is \$40.56 per month, or \$3.63 per channel, per month.

5. NBC

Key Takeaway: With the introduction of numerous competitive OTT and skinny package services in recent months, it is not surprising that the number of respondents who want an à la carte Pay-TV solution continues to decline; however, 73.6% is still a large population of interested respondents. While new offerings such as Sling TV and Sony's PlayStation Vue have introduced streaming of limited channels, almost all major Pay-TV providers have a package with 50-70 channels for roughly \$49 or less. The question is, do consumers discover these packages through marketing efforts, or are Pay-TV providers using these packages to prevent churn? Although it's too early to answer these questions with certainty, Digitalsmiths will continue to watch and report on this trend each quarter.

AWARENESS OF OTT SERVICES

a TiVo company



CHANNEL PACKAGES

When purchasing cable/satellite service, you often choose from pre-set channel packages. Would you like the ability to make your own package by selecting ONLY the channels you WANT to watch?

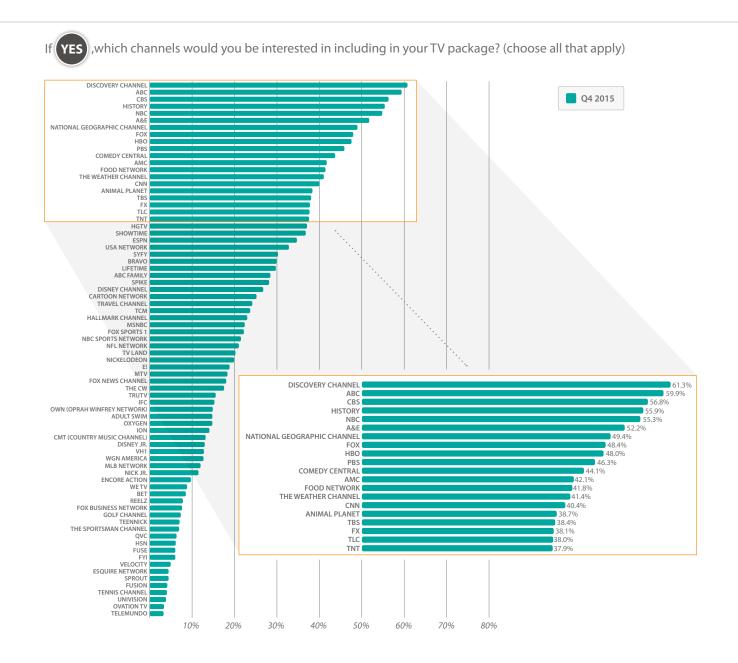


IDEAL COST OF CHANNEL PACKAGE

What is the MOST you would be willing to pay, per month, for the channels you selected?



CHANNEL PACKAGES







Analytical Commentary: Top Seven Channel Packages

Pay-TV providers have been reluctant to allow subscribers to pick only the channels they want to watch; instead, many are launching limited options for a skinny package. Through a deeper look into the Q4 2015 data, Digitalsmiths' Analytics Team identified the top seven channel packages as well as how much respondents want to pay for them, in order to help Pay-TV providers better understand if modifying their skinny packages is necessary. This Analytical Commentary section highlights those results, as well as the processes used to reach these outcomes.

Survey respondents interested in an à la carte service were presented with a list of over 75 popular channels typically included in Pay-TV packages, and then asked to select their desired channel lineup. On average, respondents chose 18.4 channels to comprise their ideal lineup. When groups of respondents with similar channel preferences made their selections, the channels they selected are correlated for each other. For example, if a respondent chose the "NFL Network,"

that represent meaningful à la carte offerings. Using this broader correlation structure in the channel preference data to span more than two channels like the previous example, Digitalsmiths' Analytics Team used a statistical technique known as Principal Component Analysis (PCA). PCA aims to manipulate the raw correlated data in order to provide new latent features summarizing that raw data. These latent features provide statistically meaningful channel combinations.

To create the skinny packages, Digitalsmiths took each of the latest variables (called principal components), and reported the top 15 channels. The Analytics Team then assigned the sets of packages to each of the respondents by looking at which principal component gave them the largest score. Using this method, all respondents were assigned to the package that suits their à la carte selections most closely. The chart below shows the top seven channel packages chosen by respondents in Q4 2015.

he/she might also have chosen "ESPN." Because "ESPN" and "NFL Network" are correlated, perhaps both should be in a skinny package together.

Taking the concept of correlated channels a step further, Digitalsmiths analyzed not only pairwise combinations for skinny packages, but also entire groups of channels

	Package I	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7
1	: TBS :	Fuse	Oxygen	: NBC Sports Network :	Adult Swim	: USA Network	: MTV
2	: TNT :	Fusion	WETV	FOX Sports 1	Syfy	TBS	Bravo
3	USA Network	TeenNick	Reelz	NFL Network	Comedy Central	TNT	E!
4	CBS	Sprout	TCM	ESPN	FX	The CW	BET
5	FX	Nick Jr.	FYI	MLB Network	Spike	WGN America	HBO
6	NBC	Nickelodeon	ION	Golf Channel	IFC	ABC Family	Showtime
7	ABC	Disney Jr.	WGN America	FOX Business Network	HBO	ION	OWN
8	Discovery Channel	VH1	IFC	Tennis Channel	Cartoon Network	TV Land	: VH1
9	FOX	BET	OWN	The Sportsman Channel	Fuse	Hallmark Channel	NFL Network
10	A&E :	Univision	Ovation TV	FOX News Channel	Showtime	Fox	Oxygen
11	AMC :	Telemundo	Fusion	Esquire Network	AMC	FX	NBC Sports Network
12	History	Ovation TV	Lifetime	Univision	ENCORE Action	ABC	ESPN
13	: Lifetime :	Cartoon Network	Bravo	: Velocity :	The CW	NFL Network	CNN
14	TLC	WETV	Hallmark Channel	: Fusion :	MTV	WETV	MSNBC
15	The Weather Channel	Esquire Network	A&E	: Telemundo :	TruTV	NBC	NBC
				Approximate Price			
	\$39.00	\$35.00	\$36.00	\$36.00	\$37.00	\$37.00	\$38.00



The percentage of respondents associated with each bin is given in the table below.

Package I	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7
26.4%	35.4%	7.7%	8.1%	9.1%	5.6%	7.7%

The above table means that approximately 35% of respondents would select Channel Package 2 if given the choice, 26% would select Channel Package 1, and so on.

The first principal component always explains the largest amount of variance, but it also tends to describe dominant trends. This is reflected in the packages, where the first package contains most of the popular broadcast channels. However, the second principal component is actually preferred by the most people. The biggest slice of the market wants more than what's popular; this group tends to be dominated by kid's TV, American-Spanish broadcast networks, and BET. By looking at a score plot for the first principal component versus the second principal component it shows what the preferences of respondents tend to be towards each channel.

Digitalsmiths believes that by presenting these packages and the methodology behind them, it can help connect networks and channels thematically as well as generally describe the size of the audience for each.

Analysis for Approximate Price

In order to estimate respondents' desired price for their selected à la carte package, Digitalsmiths' Analytics Team performed a linear regression based on their principal component scores. Then, price was calculated as the sum of the global intercept and the regression coefficient of that channel package. Finally, to account for margin of error, the prices are rounded to the nearest dollar.

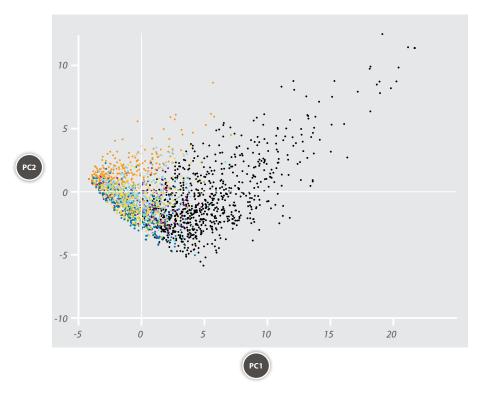


Figure 1. The scores of all the respondents on the first and second principal components. Each point is color coded by the package with which it is associated. **Black**: Channel Package 1, **Orange**: Channel Package 2, **Green**: Channel Package 3, **Blue**: Channel Package 4, **Light Blue**: Channel Package 5, **Dark Purple**: Channel Package 6, **Yellow**: Channel Package 7. Figure 1 illustrates that PC1 and PC2 largely model the first and second channel packages (3-7).



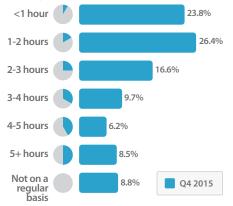
TV Viewing Habits

While the bulk of the survey aims to understand respondents' sentiments toward their Pay-TV providers, as well as identify emerging features and services, it is important to keep a pulse on respondents' overall TV viewing behaviors. According to the Q4 2015 survey results, per day:

- → 41.2% of respondents watch 1-3 hours of TV.
- ➡ 50.2% watch two hours or less of live content.
- ➡ 68.4% watch two hours or less of DVR'd content.
- ➡ 45.7% of respondents spend 5-20 minutes channel surfing to find something to watch.

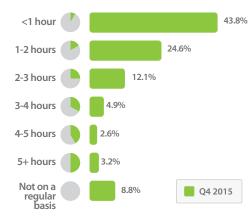
LIVE TV VIEWING

On average, how much of your daily TV watching is live TV accessed from your channel guide (not DVR'd or recorded shows)?



RECORDED TV VIEWING

On average, how much of your daily TV viewing time is spent watching shows that you have recorded/DVR'd?

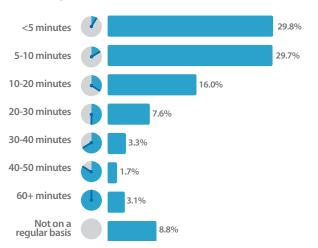


TV VIEWING



CHANNEL SURFING

On average, how much time a day do you spend searching (channel surfing) or scrolling through the guide looking for something to watch?





04 2015

TV Viewing Habits

NUMBER OF CHANNELS

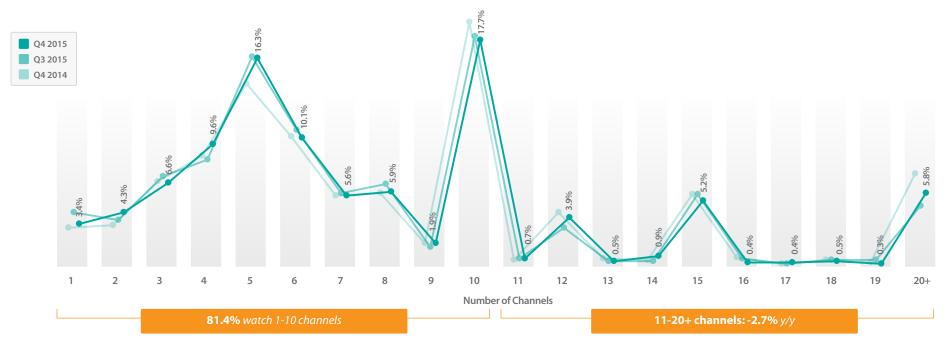
Do you feel overwhelmed by the number of channels available to you, and listed in your guide?



In addition to overall viewing habits and patterns, it is equally important for Pay-TV providers to monitor subscribers' interactions and understand their sentiments toward the channels offered to them. In Q4 2015:

- ➡ 33.8% of respondents are overwhelmed by the number of channels offered to them, which is flat q/q, but has increased 2.2% y/y and 2.9% in two years.
- ▶ 84.5% of respondents watch the same channels over and over again.
- ◆ 81.4% of respondents watch 10 or fewer channels. Respondents are watching fewer channels, as evidenced by the 2.7% y/y decrease in the 11-20+ channels category.
- ◆ 42.2% of respondents feel it is difficult to find something to watch, which increased slightly q/q, 5.8% y/y, and 4.1% in two years.

Of the channels offered to you, how many channels do you typically watch, on average?





TV Viewing Habits

EASY TO DISCOVER CONTENT

Do you feel it is easy to find something you "want" to watch on TV?



VARIETY OF CHANNELS

Do you feel you watch the same channels over and over again?

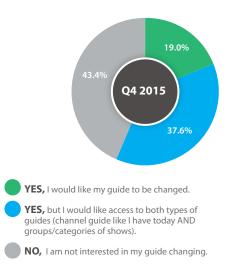


When too many channels are combined with the inability to find something to watch, a better experience is needed. A recent white paper released by Digitalsmiths titled, *The War Between OTT and Pay-TV: Best Practices for Pay-TV Providers to Win the War*, discusses how and why OTT experiences are more enticing than Pay-TV experiences. The paper also reveals the behind-the-scenes technology efforts and budget that go into powering Netflix's next-gen, personalized video experiences.

Because many OTT streaming services are largely carousel-driven, Digitalsmiths added a new question on this topic in the Q4 2015 survey. According to respondents, 56.6% would like their

CHANNEL GUIDE

Would you like your channel guide to be changed, so that it's sorted or categorized into groups/lists of TV shows or movies? For example, "What is on Now", "Because You Watched This,""Live Sports On Now."



Pay-TV provider to deliver content in a carousel format, such as "What is on now" or "Because you watched." Although 37.6% of respondents would also like to retain access to the traditional grid, providing an intuitive user experience could convert viewers to solely preferring a carousel model. With more than half of respondents with cable/satellite service open to trying a more content discovery-focused, personalized carousel experience, Pay-TV providers should act quickly on these trends.

Analytical Commentary: The Cure for Cord-Cutters: Content Discovery & Carousels



Similar to Digitalsmiths' previous survey results, a key predictor of whether or not a Pay-TV subscriber plans to cut their cable/satellite service is whether or not they consider it easy to find something to watch. New to the Q4 2015 survey was a question asking respondents if they would prefer a carousellike experience rather than the traditional grid offered by Pay-TV today. After a deeper analysis of respondents' answers to the questions mentioned previously, those who struggle to find content and those most at risk for churn desire a carousel feature – disproportionately more so than other respondents.*

*Both these relationships are statistically significant at a confidence level of 99.9%, using a Fisher's Exact test.



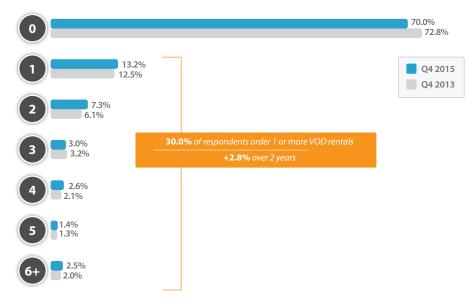
Revenue-Generating Pay-TV Content

Paid Video-on-Demand (PVOD)Offerings

In Q4 2015, 30.0% of respondents ordered one or more PVOD rentals from their Pay-TV provider, an increase of 2.8% over two years. The bulk of respondents (23.5%) order 1-3 PVOD rentals a month.

PVOD PURCHASES PER MONTH

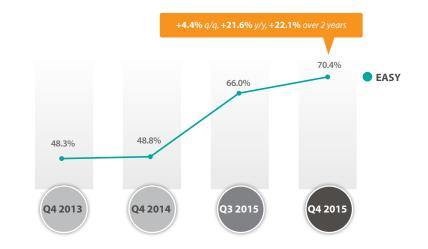
On average, how many video-on-demand (movies offered through your provider) purchases does your household make each month? (Movies purchased from ondemand stations provided by your cable/satellite provider. Does NOT include Netflix, Redbox, iTunes[®], etc.)



The good news is 70.4% of respondents find their PVOD catalog easy to navigate, an increase of 4.4% q/q, 21.6% y/y, and 22.1% over two years.

PVOD CATALOG DISCOVERY

Do you feel it's easy to find a movie you will enjoy in the video-on-demand catalog provided by your cable/satellite provider? (accessed from your guide)





Pay-Per-View (PPV) Purchases

In Q4 2015, 11.4% of respondents rented PPV events, a 1.5% increase q/q. Of those respondents, 76.7% order 1-4 PPV events each year, and the largest group (23.3%) order only one per year. However, respondents did order more than in previous quarters, since the 6-11+ purchases category grew 3.7% q/q.

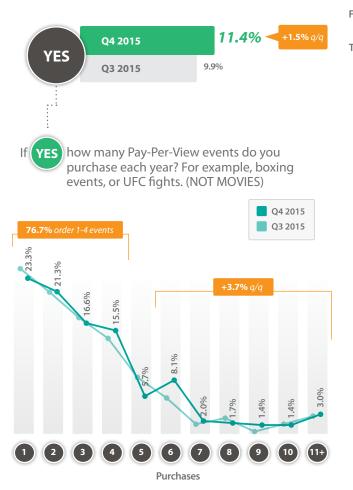
The top three ways in which respondents are made aware of PPV events are by "friends/word of mouth," "the TV shows you watch promote it," and "ads in the channel guide." There were significant q/q increases for many of the answer choices:

- ➡ "Friends/Word of mouth" (+5.3%)
- ➡ "Ads in the channel guide" (+3.8%)
- ➡ "Promotions included in your bill" (+2.9%)
- ➡ "Email promotions about the event" (+4.1%)

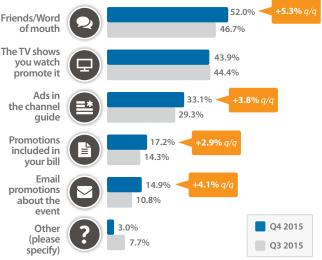
Key Takeaway: Digitalsmiths believes Pay-TV providers could increase the number of homes ordering PPV events by leveraging viewer history and marketing PPV events to targeted audiences based on various data points such as genre. For example, a promotion to rent the music events of Rihanna or Linkin Park should be delivered to subscribers who have previously watched the Grammy Awards[®] or the MTV Video Music Awards[®]. This ensures the right promotion is placed in front of the right viewers (i.e., music lovers in this example).

PAY-PER-VIEW EVENTS

Do you ever rent Pay-Per-View events from within your cable/satellite service? For example, boxing events, or UFC fights. (NOT MOVIES)



How are you made aware of, or hear about upcoming Pay-Per-View events? (choose all that apply)





Over-the-Top Trends & Cord-Cheating

Cord-cheating, a trend Digitalsmiths began tracking in Q2 2013, refers to cable/satellite subscribers who seek on-demand video content from third-party and OTT services as an alternative to their Pay-TV provider's offerings. Cord-cheating spans a variety of delivery models, including streaming subscription services, or SVOD, such as Netflix and Hulu, as well as pay-per-rental services such as Redbox[™] kiosks and iTunes[®].

Below is a breakdown of all survey respondents' adoption, usage, and monthly spend for other OTT and third-party pay-per-rental services (see charts on page 19). In Q4 2015:

- → 34.4% of respondents use a pay-per-rental service such as Amazon Instant Video[™], iTunes, Redbox kiosks, etc. Adoption of these services has decreased 1.7% q/q, 3.9% over Q2 2015, and 4.8% over Q1 2015.
 - For the fourth quarter in a row, Redbox declined 2.7% q/q, 5.0% over Q2 2015, and 5.3% over Q1 2015.
 - Amazon Instant Video increased slightly q/q, 6.2% y/y, and 7.7% over two years.
 - iTunes[®] is flat q/q, with slight decreases over Q2 2015 and Q1 2015 results.
- ➡ 35.8% of respondents spend \$3-11 per month on these services.
 - However, 31.6% of respondents do not use these services on a monthly basis, and that category grew 3.8% q/q, 10.4% y/y, and 13.9% over two years.
- ◆ 51.5% of respondents who use these services watch five hours or less per week – but weekly view time of these services declined 3.3% q/q and 11.4% y/y.

In Q4 2015, 62.0% of respondents with Pay-TV service fall into what Digitalsmiths coined as "cord-cheaters." Additionally, of the respondents who are cord-cheaters:

- ➡ 54.6% use a monthly OTT subscription service, a slight decline q/q.
- ➡ 33.3% use a pay-per-rental service, a decrease of 2.0% q/q.
- → 25.9% use both OTT subscription and pay-per-rental services, a decrease of 1.2% q/q.

Below is a breakdown of all survey respondents' adoption, usage, and monthly spend for subscription OTT services (see charts on page 20). In Q4 2015:

- ◆ 55.4% of all survey respondents have a monthly subscription to an OTT service, which decreased slightly q/q.
 - Of those respondents who are cord-cutters or cord-nevers, 59.1% use a monthly subscription service. Again, Netflix (53.0%) and Hulu (13.4%) are the top OTT services used by non-Pay-TV subscribers.
- The top three services for all respondents who use these OTT services are Netflix, Amazon Prime[®] (free streaming of TV shows/movies with Amazon Prime membership), and Hulu.
 - The number of respondents who subscribed to Netflix declined for three quarters in a row, but grew 1.7% y/y and 9.1% over two years.
 - Amazon Prime increased 2.9% y/y and 8.0% over two years.
 - While y/y growth was minimal for Hulu, it did increase 2.9% over two years.
- ➡ 57.8% of respondents spend \$6-14 a month on OTT subscription services.
 - Respondents are spending more, since those who spend \$15-30+ increased 4.2% y/y and 5.9% over two years.
 - 90.2% of respondents who subscribe to monthly OTT subscription services use them on a daily basis.
 - The bulk of respondents (58.2%) use these services two hours or less a day.
 - 80.0% of OTT subscribers feel it is easy to find something to watch.

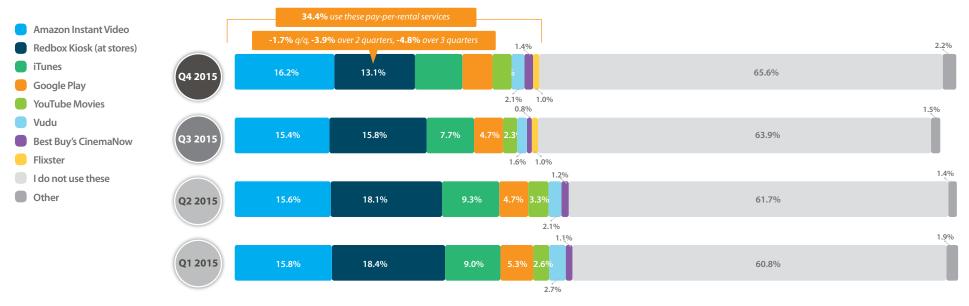


PAY-PER-RENTAL SERVICES

talsmiths

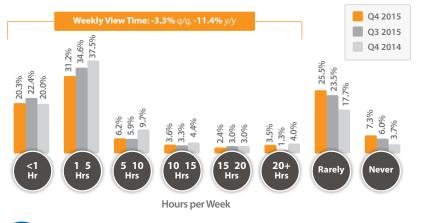
a TiVo company 🎬

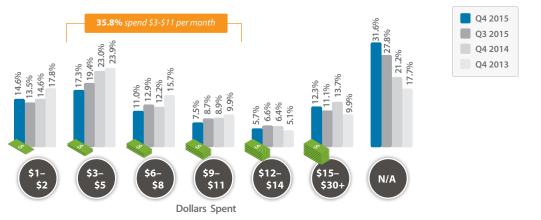
Do you rent or purchase movies on Amazon Prime Instant Video, Best Buy's CinemaNow, iTunes, Redbox kiosks, Vudu? (choose all that apply)



On average, how many hours per week do you watch content on these pay-per-rental services?







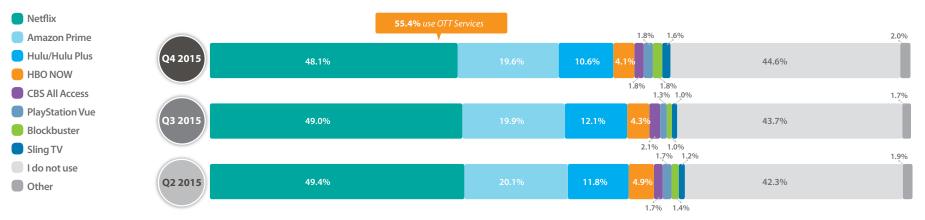
MONTHLY SUBSCRIPTION OTT SERVICES

25.4%

talsmi

a TiVo company 🎬

Do you use any of these monthly subscription services for movies or TV shows? (choose all that apply)



Do you feel it is easy to find something you "want" to watch on these subscription services?



On average per day, how many hours do you watch content on these subscription services?

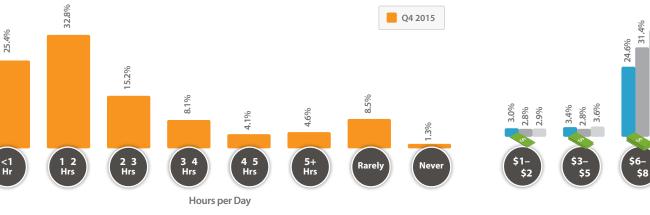
How much do you spend each month on subscription services (combined spend on Netflix, Hulu, etc)?

22.9% 21.9% 19.6%

\$9-

Dollars Spent

\$11



37.5% Q4 2015 31.4% **25.5%** - 21.3% Q4 2014

> 10.3% 9.5%

\$12-

\$14

%t

s,

Q4 2013

19.6%

\$15-

\$30+

10.3% 10.3% 10.4%

N/A

Netflix's Q4 earnings report shows they added 1.56 million net new subscribers in Q4 2015, which is less than the 1.65 they projected in its Q3 newsletter to its shareholders. Digitalsmiths' survey results show a similar trend, with Netflix subscriptions declining just shy of 1.0% from Q3 2015 to Q4 2015. Hulu subscriptions were also down 1.5% q/q. Are OTT SVOD services feeling the pain of more competition? While Netflix, Hulu, and Amazon Prime have been around for some time, an emerging threat comes from services such as CBS All Access and HBO Now, who recently announced that it reached 800,000 paid subscriptions at the eight-month mark*. While Netflix holds almost a 40% market share in the United States, the pace at which Netflix has grown could be difficult to sustain.

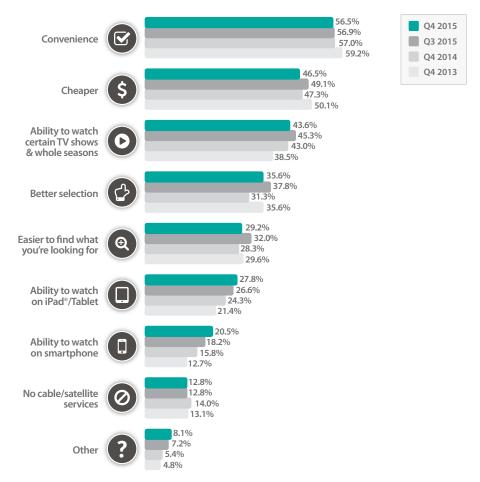
The Enticement to Cord-Cheaters

For the eleventh quarter in a row, dating back to the Q2 2013 survey, the top three reasons for using both OTT and pay-per-rental services are "convenience," "it's cheaper," and "the ability to watch certain TV shows and whole seasons." The two categories that grew the most were:

- "Ability to watch TV/movies on your iPad®/tablet": 27.8%, increased 1.2% q/q, 3.5% y/y, and 6.4% over two years.
- ◆ "Ability to watch TV/movies on your Smartphone": 20.5%, increased 2.3% q/q, 4.7% y/y, and 7.8% over two years.

WHY USE OTT SERVICES

Why do you use these 3rd party rental and/or monthly subscription services such as Amazon, iTunes, Netflix, Vudu, CinemaNow, Blockbuster Online, Redbox, YouTube? (choose all that apply)



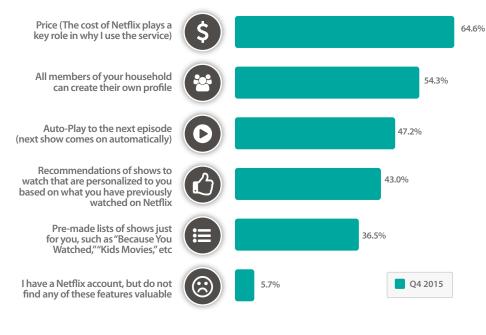
*http://www.broadcastingcable.com/news/programming/hbo-now-reports-800000-paidsubscribers/153709



While adoption might not be spiking for many of the OTT services mentioned, their market share remains high. One unifying trend that contributes to the popularity of these services is their intuitive, personalized, modern interfaces and viewing experiences. While Pay-TV providers combatted part of the competitive threat from OTT services with TVE solutions, the traditional Pay-TV experience has yet to change. Therefore, Digitalsmiths wanted to better understand how consumers felt about a select group of key features offered by Netflix, the clear leader in the OTT industry and in next-gen user interfaces. In a new question in Digitalsmiths' *Q4 2015 Video Trends Report*, respondents who are Netflix subscribers ranked several key features necessary to improving the video experience:

NETFLIX'S APPEALING FEATURES

If you are a Netflix subscriber, which of the below features of Netflix's service do you find appealing? (choose all that apply)



These strong responses to profile creation, recommendations, and premade lists (meaning carousels) on Netflix affirm that consumers want personalized content experiences, and Pay-TV providers should accelerate efforts in this area. While Pay-TV providers have succeeded with implementing these features on their TV Everywhere offerings, the vast majority of viewing happens on a set-top box, which therefore should be the primary focus for these features.

Analytical Commentary: Netflix's Appealing Features

In order to extract additional meaning from respondents' sentiments toward Netflix's key features as well as those respondents found most useful, the Digitalsmiths' Analytics Team conducted numerous tests on these results alongside multiple survey answers. Tests analyzed many key data points and spanned whether or not answers were predictive of Pay-TV churn, respondents' à la carte selections, connected device usage habits, demographic information, respondents' Pay-TV providers, and whether or not respondents had cable. While no new data emerged from those tests, Digitalsmiths captured new insights upon analyzing the data alone. To understand these insights and the structure of the audience they represent, the Analytics Team took a deeper dive into audience affinity with certain Netflix features.

Respondents were prompted for a binary response—"yes or no" or "true or false"—to whether or not they found five different Netflix features to be appealing. In order to understand the different types of respondents answering this question, Digitalsmiths' Analytics Team performed the statistical method of unsupervised clustering. In unsupervised clustering, the goal is to assign a label to each respondent based on how he/she answered a set of questions.





Analytical Commentary: Netflix's Appealing Features, continued

Specific to Digitalsmiths' question on Netflix's features, it is unclear how many groups the respondents who answered might fall into. This is because when computing five answer choices with two possible values each, the total number of preferences yields 32 permutations. (To put it another way, there are $2^5=32$ ways to answer the question.) However, to have 32 types of preferences is unrealistic. Instead, Digitalsmiths evaluated how many groups should exist using the gap statistic, which is essentially the ratio of what the sum of squared errors of the clustering is, to what it should be if there was no cluster structure to the data (i.e. if it was randomly distributed). By looking at the first local minimum of our gap statistic using K-means clustering, Digitalsmiths' team designated seven groups. In order to label them, this analysis looked at the frequency with which each group responded to each answer choice.

			Affinity Toward Netflix's Features						
Group Label	% of Respondents	Avg # of features	All members of your household can create their own profile	Price (The cost of Netflix plays a key role in why I use the service)	Auto-Play to the next episode (next show comes on automatically)	Pre-made lists of shows just for you, such as "Because You Watched," "Kids Movies," etc	Recommendations of shows to watch that are personalized to you based on what you have previously watched on Netflix		
Netflix is low cost	17.9%	1.6	16.1%	90.4%	8.4%	0.0%	49.0%		
Likes everything about Netflix	27.1%	4.7	82.0%	94.7%	100.0%	100.0%	100.0%		
Knows the content they want	25.2%	2.8	84.2%	89.1%	77.7%	7.6%	21.0%		
Likes Netflix for content discovery only	8.3%	3.3	59.5%	81.0%	0.0%	100.0%	86.0%		
Likes Netflix's profiles	9.8%	1.1	93.0%	0.0%	0.0%	4.9%	6.3%		
Enjoys certain functionality	6.3%	2.0	9.8%	25.0%	82.6%	68.5%	9.8%		
Doesn't find anything interesting, from what survey asked	5.4%	0.0	0.0%	0.0%	0.0%	0.0%	0.0%		

Note: The answer choice, "Doesn't find anything interesting, from what the survey asked" counted as a feature which is why the last column average for a number of features is 0.0%.

The results prove the plurality of respondents find all of Netflix's features appealing. Additionally, many respondents are interested in more than one of Netflix's features. Specifically, 35.4% of respondents, the combination of two groups that have 27.1% and 8.3% of the population, are interested in content discovery, whereas 25.2% know what they want to watch and want to get to it quickly. If getting to desired content quickly is a priority, the content should be surfaced as rapidly as possible. While the "Enjoys Certain Functionality" group is interesting, as it finds content organization desirable through "Pre-made lists of shows just for you such as Because You Watched, Kids Movies, etc." and "Auto-Play to the next episode," this category may not be quite ready for fully personalized recommendations.





Analytical Commentary: Appealing Features of Netflix by Top Pay-TV Provider

If you are a Netflix subscriber, which of the below features of Netflix's service do you find appealing? (choose all that apply)

	All members of your household can create their own profile	Auto-Play to the next episode (next show comes on automatically)	Price (The cost of Netflix plays a key role in why I use the service)	Pre-made lists of shows just for you, such as "Because You Watched," "Kids Movies," etc	Recommendations of shows to watch that are personalized to you based on what you have previously watched on Netflix	l have a Netflix account, but do not find any of these features valuable	l do not have a Netflix account
AT&T Uverse	50.6%	45.8%	68.7%	34.9%	45.8%	3.6%	12.0%
Bright House Networks	53.3%	40.0%	53.3%	40.0%	46.7%	0.0%	20.0%
Comcast Corporation	50.9%	52.6%	63.5%	42.2%	46.5%	6.5%	13.5%
Cox Communications	59.3%	40.7%	63.0%	35.2%	44.4%	13.0%	7.4%
Charter Communications	51.5%	45.5%	48.5%	27.3%	42.4%	15.2%	12.1%
DIRECTV	48.6%	54.3%	70.0%	41.4%	46.4%	4.3%	10.0%
DISH Network	54.4%	43.3%	54.4%	35.6%	43.3%	8.9%	14.4%
Rogers Communications	55.6%	50.0%	68.9%	37.8%	31.1%	10.0%	4.4%
Shaw	65.8%	40.8%	77.6%	40.8%	52.6%	3.9%	2.6%
Time Warner Cable	53.2%	36.7%	61.5%	31.2%	40.4%	2.8%	11.0%
Verizon	46.4%	47.8%	59.4%	33.3%	40.6%	4.3%	14.5%
Cogeco Cable	64.7%	29.4%	64.7%	29.4%	23.5%	5.9%	0.0%
Mediacom	80.0%	60.0%	40.0%	50.0%	60.0%	0.0%	30.0%

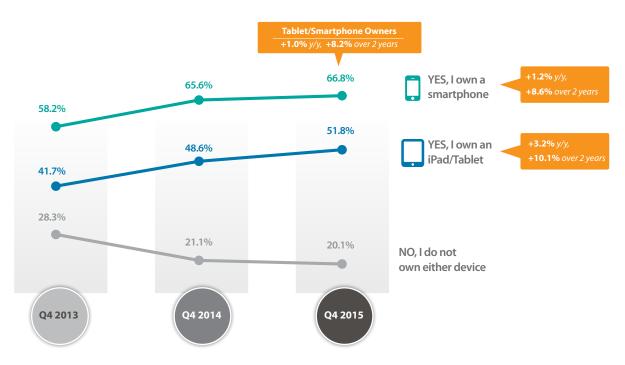


In Q4 2015, 79.9% of respondents own either an iPad/tablet or smartphone, an increase of 1.0% y/y and 8.2% over two years. A further breakdown shows:

- 51.8% of respondents own an iPad/tablet, which increased 3.2% y/y and 10.1% over two years.
- 66.8% of respondents own a smartphone, which increased 1.2% y/y, and 8.6% over two years.

TABLET & SMARTPHONE OWNERS

Do you own an iPad/tablet or a smartphone? (choose all that apply)



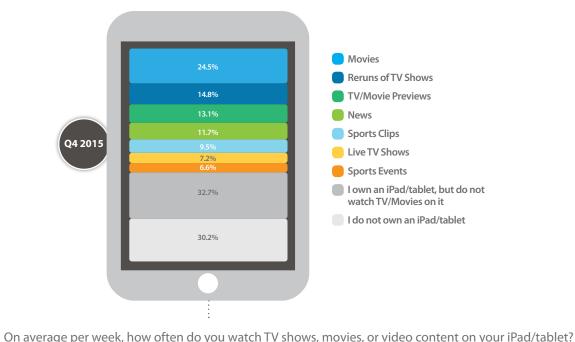


iPad/Tablets

- ➡ Of those respondents who own an iPad/tablet, 37.1% watch video content on their device.
- ➡ The top three pieces of content watched are "movies," "episodic reruns of TV shows/previous seasons of TV shows," and "TV show and/or movie previews/trailers."
- ➡ Of those who watch video on their iPad, 90.0% of respondents do so on a weekly basis, and half of those (50.6%) watch two hours or less per week.
 - However, overall respondents are watching more content than ever on their iPads since the "1-5+ hours a week" category increased 2.2% q/q, 13.2% y/y, and 17.7% over two years.

VIDEO CONTENT ON IPADS/TABLETS

Do you watch any of the following video content on your iPad/tablet? (choose all that apply)



Q4 2015 Q3 2015 Q4 2014 Q4 2013

14.1% 15.5% 8.9% 9.1% 7.0% 8.3% 1.4% 1.1% Rarely >1 Never Hours per Week

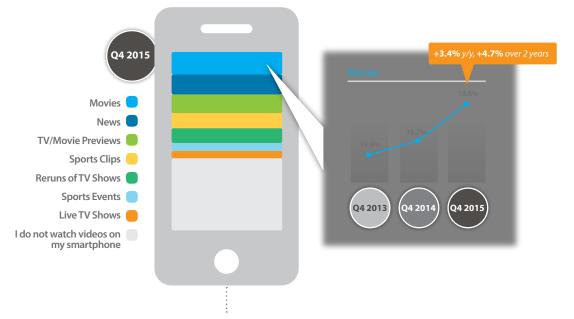


Smartphones

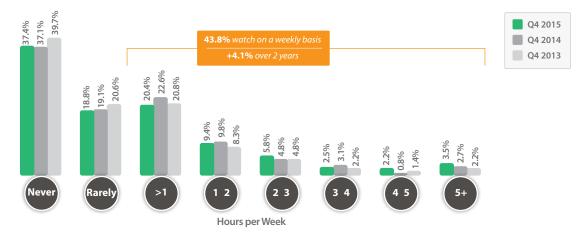
- Of smartphone owners, 40.3% watch video on the device, an increase of 3.4% over two years.
- The top three pieces of content viewed are "movies," "news," and "TV show and/or movie previews/trailers."
 - Movies increased 3.4% y/y and 4.7% over two years.
- ➤ Of smartphone owners, 43.8% watch video on the device on a weekly basis, an increase of 4.1% over two years. The majority of these respondents (29.8%) watch two hours or less a week.

VIDEO CONTENT ON SMARTPHONES

Do you watch any of the following video content on your smartphone? (choose all that apply)



On average per week, how often do you watch TV shows, movies, or video content on your smartphone?

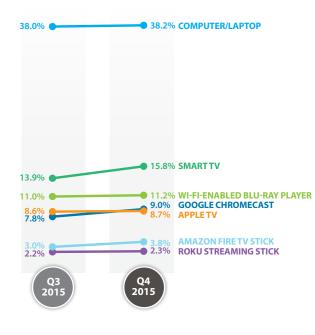




TV-Oriented Devices

In Q4 2015, 60.2% of respondents own a Wi-Fienabled device that can support TV viewing; however, these devices are not seeing strong growth, as ownership is flat q/q. Similar to last quarter's survey results, the top three devices owned are a "computer/laptop,""smart TV," and "Blu-ray™ player."

While overall ownership is not seeing positive growth trends, several of these devices did experience slow growth since Q3 2015 results, including:



WI-FI ENABLED DEVICES

Do you have any of the following connected devices (Wi-Fi enabled devices)(this question excludes gaming devices, smartphones and tablets)? (choose all that apply)





Gaming Consoles

In Q4 2015, 45.5% of respondents own a gaming console. However, this audience continues to decline 2.5% q/q, 4.7% y/y, and 4.4% over two years. Of respondents who own a gaming console, 20.2% make 1-10+ movie/TV purchases each month from the device – the bulk (11.7%) make only 1-2 purchases per month.

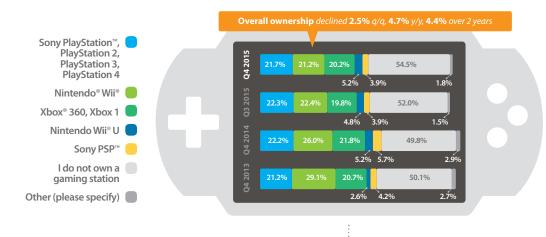
Additionally, 16.0% of respondents who own a gaming console have downloaded their Pay-TV provider's app on it, an increase of 1.8% q/q. Since diversifying access to their service is a top priority among many Pay-TV providers, Digitalsmiths identified several notable trends regarding this question:

- Awareness seems to be trending upward, since those who answered, "No, my provider does not offer an app for my gaming device," decreased 3.4% q/q.
- However, a less impressive trend is that those who answered, "No, my provider does offer an app, but I do not use it," increased 2.2% q/q.

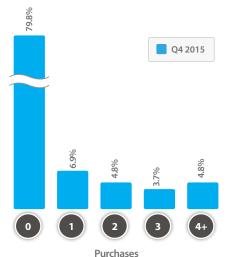
As overall access and awareness of these apps rise, Pay-TV providers need to identify their "gaming demographic" and continue to deliver targeted marketing campaigns that clearly demonstrate the desirable functionality offered by these services.

GAMING CONSOLE OWNERS

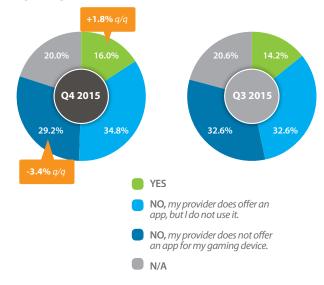
Do you own any of the following gaming stations? (choose all that apply)



On average, how many movie/TV show purchases do you make each month from your gaming device?



Do you access your cable/satellite provider's service through your gaming device to watch TV?





Pay-TV Providers' TV Everywhere Offerings (TVE)

State of Awareness

In Q4 2015, 40.0% of respondents are aware their Pay-TV provider offers an app to watch content on their iPad/tablet or smartphone, an increase of 3.7% over two years, and 13.6% over three years. Another positive trend for Pay-TV providers is the "I do not know" answer choice decreased 5.5% over two years, and 8.3% over three years.

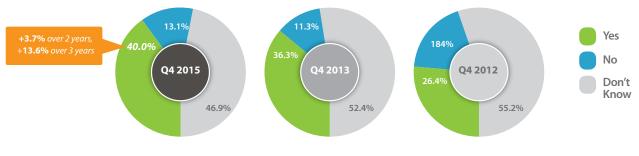
State of Adoption

In Q4 2015, 21.5% of respondents with Pay-TV service have their Pay-TV provider's app on their iPad/tablet or smartphone, a decline of 2.4% q/q, 3.7% y/y, and 4.5% over three years.

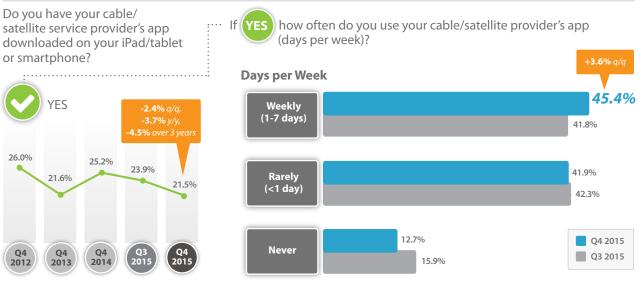
Of those respondents who access their Pay-TV provider's TVE solution, 45.4% use it on a weekly basis, an increase of 3.6% q/q. Of weekly users, 21.6% access it 1-3 days a week, and 14.7% access it 6-7 days a week.

TV EVERYWHERE: AWARENESS

Does your cable/satellite provider offer an app(s) that allows you to watch TV/movies on devices such as a smartphone or an iPad/tablet?



TV EVERYWHERE: ADOPTION AND USAGE





Pay-TV Providers' TV Everywhere Offerings (TVE)

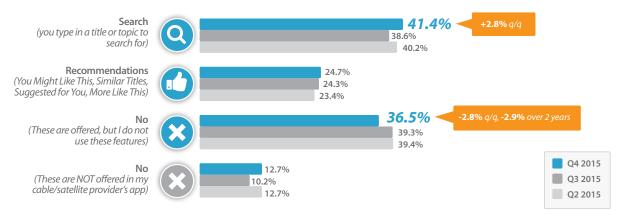
State of Engagement With Content Discovery

Of the respondents who use their Pay-TV provider's TVE solutions, just over half (50.8%) leverage the content search and/or recommendations offered on these solutions. Engagement with the content discovery functionality in TVE solutions is the highest recorded since Digitalsmiths first included this question in Q2 2015. Specifically, 41.4% of respondents use the search functionality, an increase of 2.8% g/g, and 24.7% use the content recommendations. also up slightly q/q. It's important to focus on the 12.7% of respondents who answered that search and recommendations are not offered, since the majority of North American Pay-TV providers do offer some sort of content discovery functionality in their TVE offerings.

Key Takeaways: Digitalsmiths knows the heavy investment its Pay-TV customers have made toward improving the experience on their TVE offerings; therefore, it's encouraging to see improvements in awareness, weekly usage, and engagement with the content discovery functionality. Digitalsmiths believes the next phase of TVE involves continued marketing efforts within each provider's subscriber base, in order to improve overall adoption. Gaining real-time insight into KPIs for these offerings is also key. It will be important to track key metrics such as views and engagement, as well as test new functionality in order to learn, in real-time, how to further optimize these offerings.

TV EVERYWHERE: CONTENT DISCOVERY USAGE

Do you leverage any of the following features in your cable/satellite provider's app? (choose all that apply)



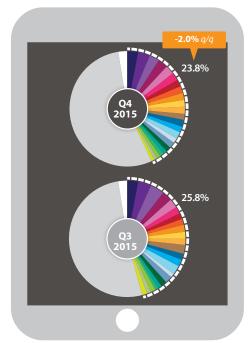


TV Network Apps

While many of these TV Network Apps are not accessible without a Pay-TV subscription, Digitalsmiths believes video service providers should keep track of which apps consumers use. Staying educated on the user experiences offered by the most popular TV Network Apps ensures that video service providers' apps offer a competitive experience. In Q4 2015, 23.8% of respondents leverage TV

TV NETWORK APPS & USAGE

Do you have any of the following TV Network apps downloaded on your iPad/tablet and/or Smartphone? (choose all that apply)

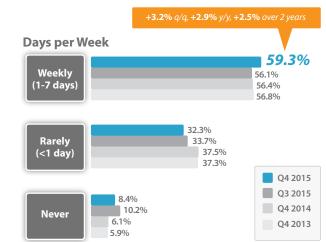




Network Apps, a 2.0% decline q/q. Similar to last quarter's results, the top five TV Network Apps are: CBS, ABC, HBO GO[®], WatchESPN[®], and NBC.

Of the respondents who access TV Network Apps, 59.3% do so on a weekly basis, an increase of 3.2% q/q, 2.9% y/y, and 2.5% over two years.

..... How often do you use these TV Network Apps?



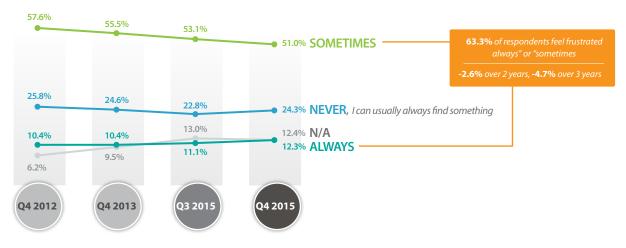


Content Discovery: Search, Recommendations, Social Discovery, and Sports Discovery

In Q4 2015, 63.3% of respondents said they are "always," or "sometimes" frustrated when trying to find something to watch on TV. The positive news is that this frustration level is down slightly q/q, 2.6% over two years, and 4.7% over three years.

FINDING SOMETHING TO WATCH

How often do you get frustrated when trying to find something to watch on TV?





If YES

82.8%

Q4 2015

03 2015

Q4 2014

'es

Search

In Q4 2015, 44.2% of respondents leverage search functionality to find something to watch, which is down q/q, y/y and over two years. Of those respondents who do use the search functionality, 82.8% answered that the results are accurate: however, perception of accuracy has declined 1.9% g/g, 2.1% y/y, and 2.5% over two years.

Of those respondents who do not use the search functionality offered in the Pay-TV provider's service, the top reasons are:

- ➡ "I only watch a few channels so no need to search" (35.3%)
- ➡ "I am not interested in searching for TV Shows/ Movies" (23.6%)
- "Takes too much time" (19.7%)

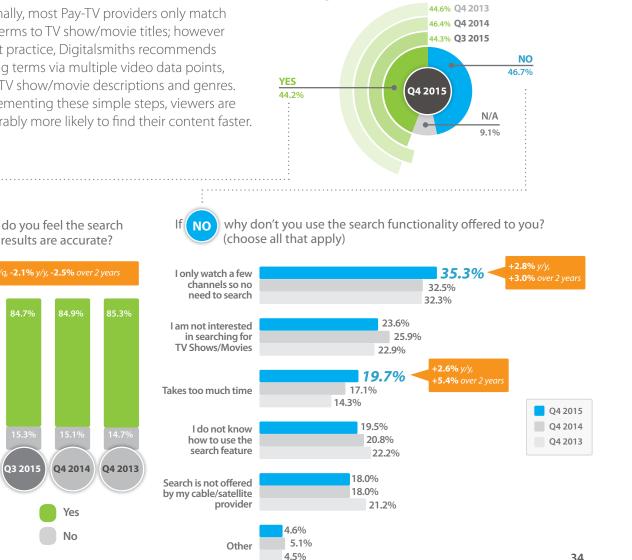
Key Takeaway: Based on the results, nearly 20.0% of respondents feel searching for something to watch takes too long, and this sentiment has increased 2.6% y/y and 5.4% over two years. Because of this frustration, Pay-TV providers should incorporate best practices in the area of content discovery. Functionality such as AutoSuggest Search can navigate viewers to their desired video content in as few as two letter choices. AutoSuggest Search operates based on an algorithm that considers most popular searches for the same letters, as well as what was selected most often from that search. For example, if a viewer

begins to input "br," a dropdown list of suggestions would be shown with "Breaking Bad" listed first.

Additionally, most Pay-TV providers only match search terms to TV show/movie titles; however as a best practice, Digitalsmiths recommends matching terms via multiple video data points, such as TV show/movie descriptions and genres. By implementing these simple steps, viewers are considerably more likely to find their content faster.

SFARCH

Do you ever type in a TV show, movie title, or topic into a search box to find something to watch in your cable/ satellite quide?





Voice Search

In Q4 2015, 10.9% of respondents' Pay-TV providers offer functionality that enables viewers to search for and find video content with their voice. However, only 5.4% of respondents actually use voice search functionality, a slight increase q/q. It's also important to note, of the respondents who do not have this ability, 26.5% would like voice search functionality.

Of the respondents with access to voice search, 74.0% use it on a weekly basis, and the bulk of this group (32.9%) uses it for 1-3 searches per week. However, it's important to note that 4-7 searches increased 3.6% q/q, and 8-11 searches increased 2.2% q/q.

Analytical Commentary:

Respondents' Engagement with Content Discovery

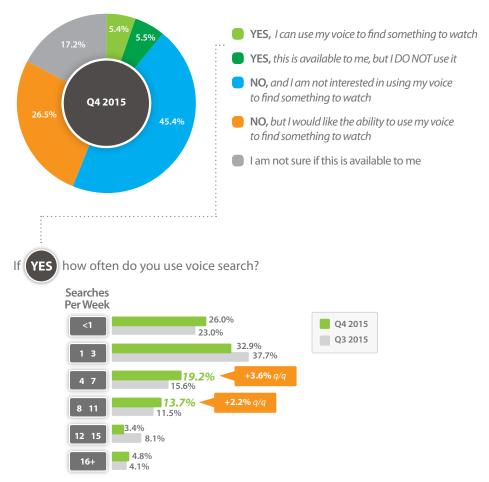
	Pay-TV Provider Makes Recommendations	Pay-TV Provider Does Not Make Recommendations		
Respondent Uses Search	15.7%	32.9%		
Respondent Does Not Use Search	5.6%	45.7%		

Digitalsmiths found a link between respondents who use search to find something to watch and their providers who make content recommendations – specifically, when providers make recommendations, respondents used search much more. Because of this, Digitalsmiths has noticed that viewers who are offered recommendations tend to be more engaged with the overall product.*

*While this result is statistically significant at a 99.9% confidence level using a Fisher's Exact test, a possible confounding factor is that those who do not offer recommendations may also not offer search, and vice versa.

VOICE SEARCH

Do you have the ability to talk into your remote, or TV, to search for a TV show/ movie, or change channels? (For example, use your voice to say, "Is a scary movie on now?")

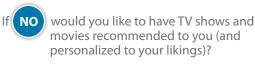




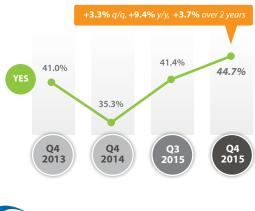
Recommendations

In Q4 2015, 19.3% of respondents said their Pay-TV provider recommends TV shows and/or movies to them based on their viewing habits, an increase of 2.2% over two years, and 12.3% over three years. Of the respondents who do receive personalized recommendations, 92.0% answered they are "always accurate" and "sometimes accurate." "Always accurate" increased 2.7% q/q, and 4.0% over two years.

Of those respondents who do not receive personalized content recommendations today, 44.7% said they would like this functionality, an increase of 3.3% q/q, 9.4% y/y and 3.7% over two years.

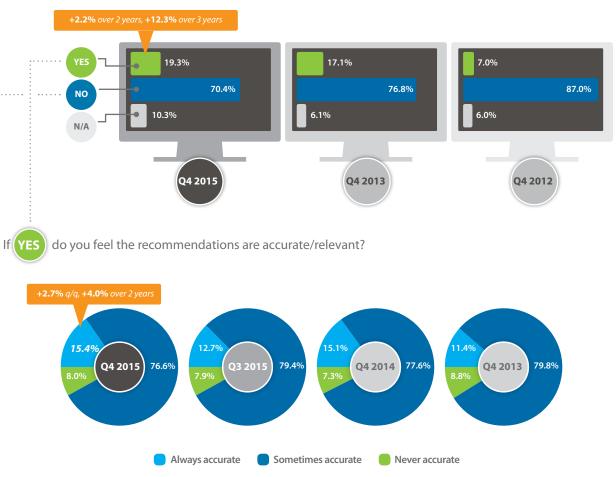


a TiVo company



RECOMMENDATIONS

Does your cable/satellite provider make recommendations of TV shows and movies to you based on your interests, past viewing habits, etc. (personalized to you)?



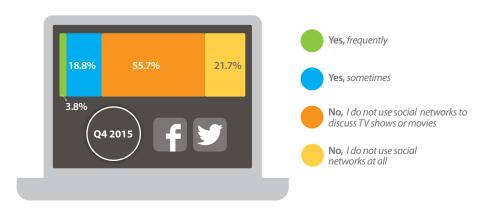
Social Discovery

In Q4 2015, 22.6% of respondents answered they post about what they are watching on social networks, but only 3.8% do so frequently. Additionally, 33.2% of respondents answered they choose to watch something based on the social buzz a TV show or movie receives.

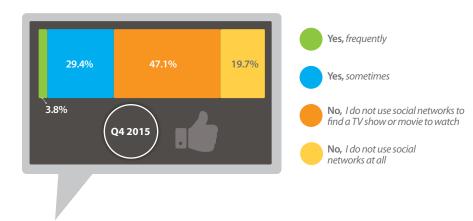
Neither of these questions saw positive growth trends, but Digitalsmiths still considers social discovery a desirable feature since consumers will differ in ways they wish to find content. Although social discovery may not appeal to an entire subscriber base, its inclusion enhances the experience for some viewers.

SOCIAL DISCOVERY & BUZZ

Do you post about what you're watching on social networks such as Twitter, Facebook, etc.?



Do you ever choose to watch a TV show or movie because of all the buzz it's getting on Facebook, Twitter, and other social networks?





Sports Discovery

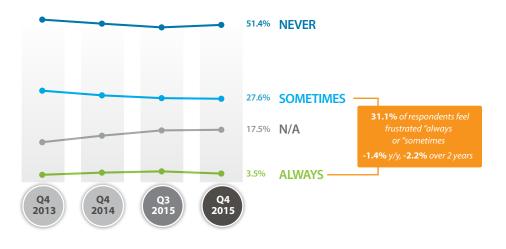
Nearly one-third (31.1%) of respondents answered they "always" or "sometimes" have trouble finding their favorite sports teams or sporting events. Frustration has declined slightly q/q, 1.4% y/y, and 2.2% over two years. However, over the last few years, a large number of new stations now broadcast sporting events – these new stations mean that one's favorite team could potentially air on a different channel for each game. Because the traditional Pay-TV grid experience can complicate this situation even further, Digitalsmiths is not surprised that 31.1% of respondents struggle to find their favorite sports teams or events. Leveraging key content discovery functionality, such as personalized recommendations or personalized carousels, powered with real viewer data such as "favorite teams" or "favorite sports," improves the speed at which viewers find content, easing the "always" or "sometimes" frustration levels.

<u>Click here</u> to learn more about Digitalsmiths Seamless Discovery®and Seamless Insight[™] platforms.

About Digitalsmiths

SPORTS DISCOVERY

Do you have trouble finding your favorite sports teams' games, or do you ever miss sporting events because it's on a channel that is far down in your channel guide?



Digitalsmiths, a wholly-owned subsidiary of TiVo Inc. (NASDAQ: TIVO), provides industry-leading solutions in the area of personalized content discovery for video service providers, digital publishers, and consumer electronics manufacturers. Digitalsmiths Seamless Discovery[®] enables personalized search, personalized recommendations, personalized carousels, social discovery, mood discovery, sports discovery, and a console that instantly connects consumers to the most relevant movies, TV shows and live events, on multiple screens. Digitalsmiths Seamless Insight[®] delivers the reporting and analytics necessary to optimize content discovery, deliver targeted content promotions, monitor and improve customer engagement, and increase ARPU. The company is guided by the belief that consumers should not have to work to find relevant content—the content should find them.

Digitalsmiths serves customers across a variety of media channels and devices, including AT&T, Bright House Networks, Charter, DISH Network, DIRECTV, Foxtel, FOX Sports, Sharp Electronics, Time Warner Cable, and Verizon.

To learn more, visit www.digitalsmiths.com

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