



# *GRAND COMPUTERS CLUB*

*January 3, 2024*

*General Meeting*

## Call to Order

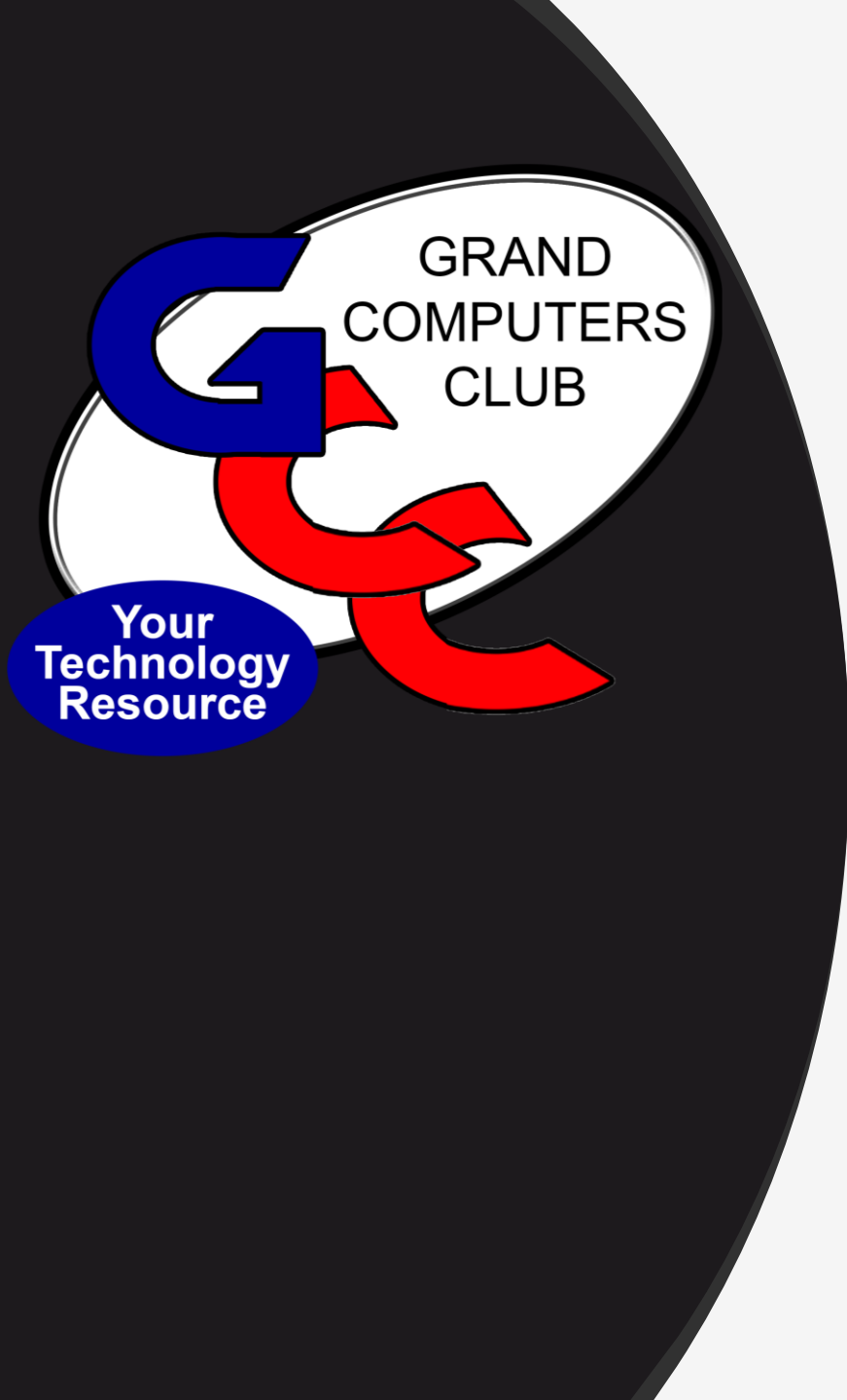


*WELCOME!*

*TODAY'S AGENDA:*

*CLUB & BOARD BUSINESS*

*SMART TVS AND THE STREAMING  
WARS - THE LATEST  
PRESENTED BY IRA SIMMONS*



# Grand Computers Club

## 2024 Executive Board

President – Clay Stephens

Vice President – Tom Shepherd

Treasurer – Debbie Meyer

Secretary – Gaile Brinkman

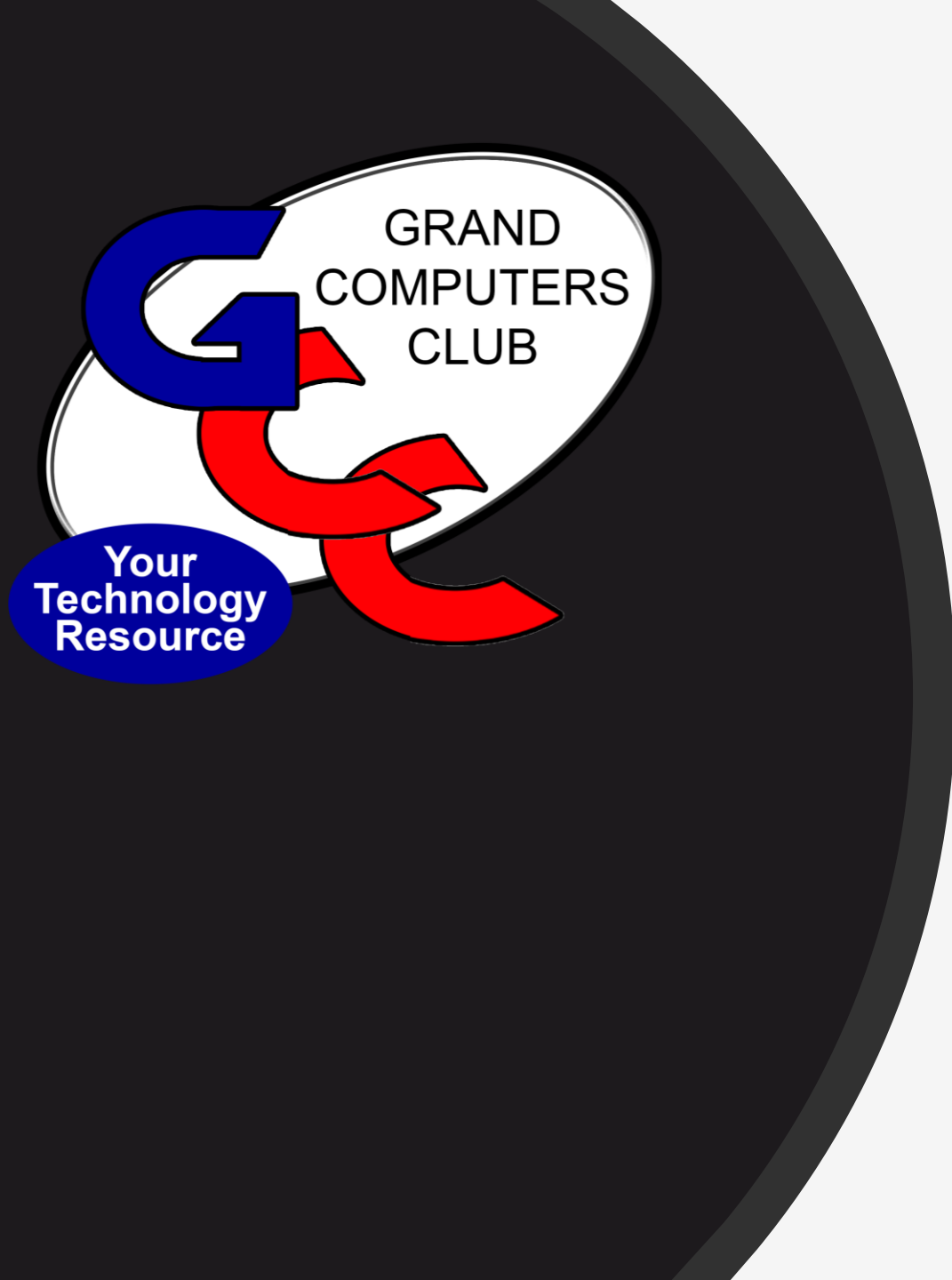
Education Director – Marie Frasca

Monitor Director – David Weeks

Membership Director – Kathleen Cracraft

Technical Director – Tech Gray

Tech Help Director – Ann Hopperstad



**THANK YOU TO**  
**Outgoing Board Members**

Barb Vivian

Susan Lucas

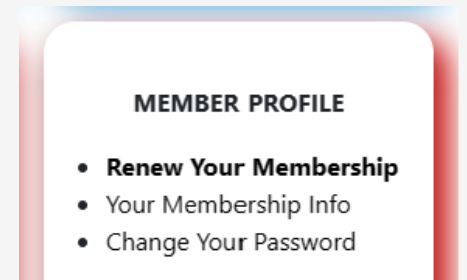
Steve Etherton

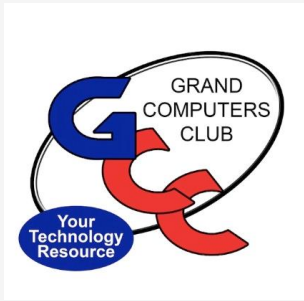


# *President's Report*



- Budget for 2024 approval by members
  - Available for review by members since 12/6/2023
  - Approve the 2024 Budget
- Dues for 2024 remain at \$25
  - Renewals can be done at the club or online!
  - New Members join at \$25 regardless of the time of the year
- Club Leadership working on a Strategic Plan through 2026
  - Let us know if you have any ideas
- Open House: first Saturday of each month; next one is January 6th

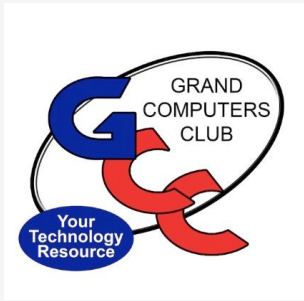




# *Vice President's Report*

## *Susan Lucas / Tom Shepherd*

- Coffee Chat, December 14, 2023
    - Topic – Surprise Public Library
    - 41 Attendees
  - **Coffee Chat, January 11, 2024**
    - Topic – Travel and Technology - Winter 2024 Update
    - Location – Chaparral Center, Pima Room
    - Time: 8:30 – 10:00 am
-

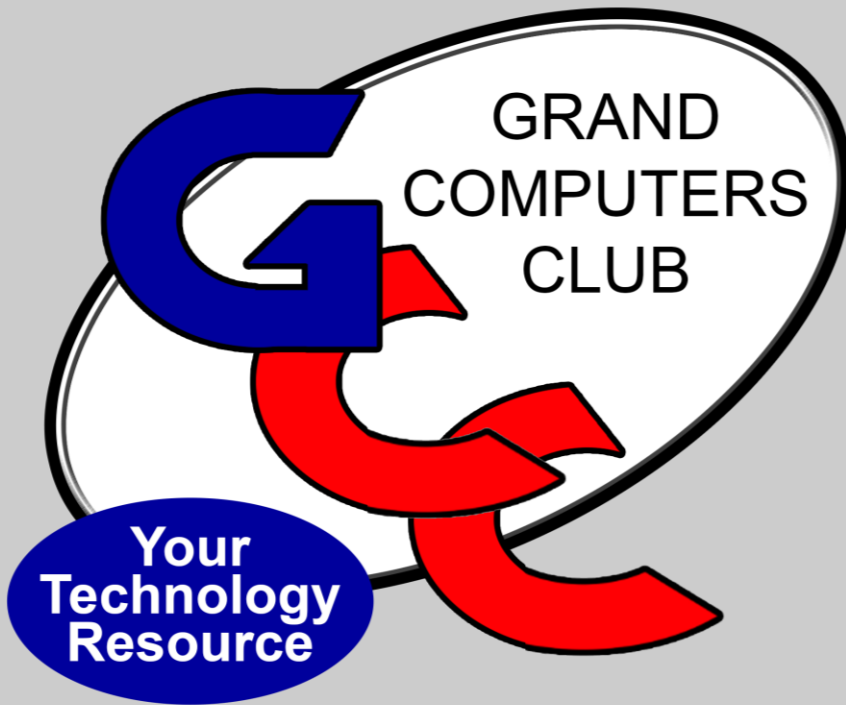


# *Vice President's Report*

## *Susan Lucas / Tom Shepherd*

- **New Member Orientation**
  - **Date: January 19, 2024**
  - **Location: Chaparral Center, Apache Room**
  - **Time: 3:30 – 5:00 pm**
  - **Club overview and tour**
-

*Treasurer's Report*  
*Debbie Meyer*





# Grand Computers Club

Income	1/1/2022- 12/26/2022	1/1/2023- 12/26/2023
Class Registration	\$9,030.00	\$11,680.00
Membership Dues	24,448.00	35,440.00
Supplies & Printing	1,138.00	1,684.74
Equipment Sales	.00	1,964.18
Banqt Guest Meals	.00	140.00
Interest Income	3.90	54.89
Total Income	\$34,619.90	\$50,963.81



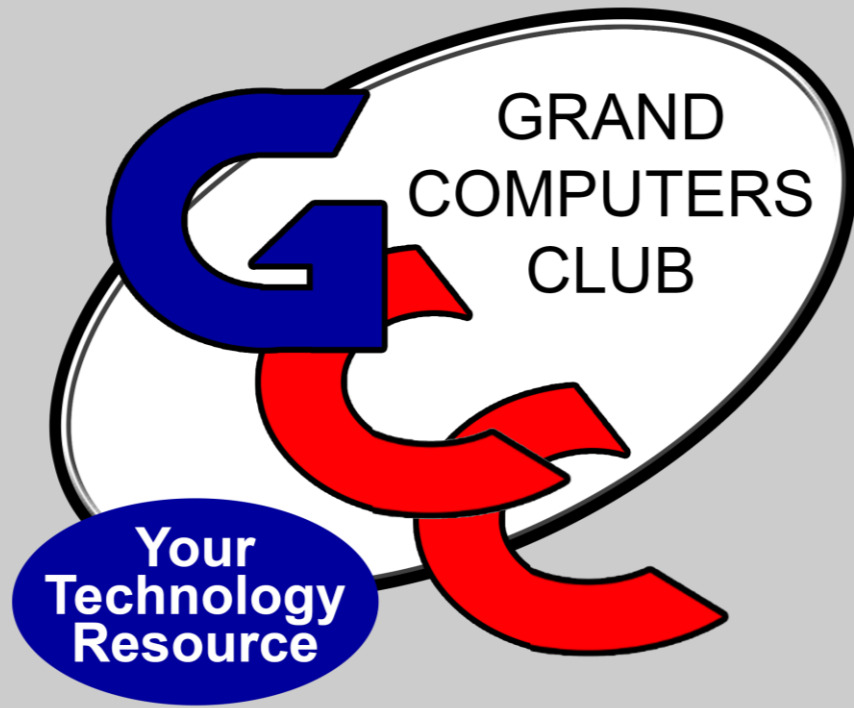
# Grand Computers Club

Expenses	1/1/2022-12/26/2022	1/1/2023-12/26/2023
Advertising	\$3,806.93	\$3,372.83
Fees & Charges-Bank,	1,902.91	2,009.50
Small Equip/Software	32,779.47	2,728.65
Meeting Expense	495.12	977.05
Office supplies	7,948.64	6,110.52
Name Tags	450.90	1,617.84
Awards	100.00	621.86
Banquet Dinner	.00	3,761.35
Total Expense	\$47,483.97	\$21,199.60



# Grand Computers Club

Account Balances	1/1/2022- 12/26/2022	1/1/2023- 12/26/2023
Checking Account	\$14,306.91	\$19,837.91
Petty Cash	100.00	100.00
Savings Regular	9,664.16	17,421.56
Reserve Acct (Equip)	10,000.00	25,000.00
Total in Accounts	\$34,071.07	\$62,359.47



# *Membership Report*

## *Kathy Cracraft*





DEC 2023  
Total Active  
Members is  
1577

Month	Session	# of Sessions	Total Participation	Total Guests
December	Classes	10	96	0
December	Meetings	5	144	56
December	Open Use Room	21	287	25
December	SIGs	7	166	11
December	Tech Help Members	3	111	0
December	Tech Helpers	3	51	0
December	Zoom Classes	1	6	0
December	Zoom Meetings	5	15	0
Total		55	876	92



# Group Attendance Summary Report

Meeting Type	Member	Resident	Guest	Total Attendees
• Coffee Chat	37	2	2	41
• Committee-Special	4	0	45	49
• Committee-Website	2	0	0	2
• General Meeting	45	2	5	52
• SIG-Compose Yourself	21	4	0	25
• SIG-Financial ED	107	5	2	114
• SIG-New Technology	27	0	0	27
• <b>TOTAL</b>	<b>243</b>	<b>13</b>	<b>54</b>	<b>310</b>



# *Education Report*

## *Marie Frasca*



# 2024 WINTER SCHEDULE

January 2 – Classes Available to Review Only

January 8 – Registration Begins

January 15 – Classes Begins

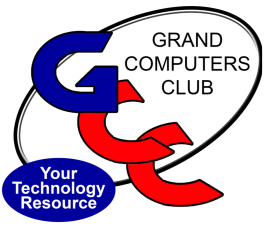


**January 2, to review classes, go to: *Education* tab on the home page of the website.**

**Dropdown click: *Register for Classes***

**Keep a copy of the courses you are interested in taking.**

**Monday, January 8 - Return to *Register for Classes* to register for the classes.**



- **Paying for Classes** - **ONLINE** only with Credit/Debit Card

Payment must be completed **before** your enrollment is confirmed and your seat is guaranteed.

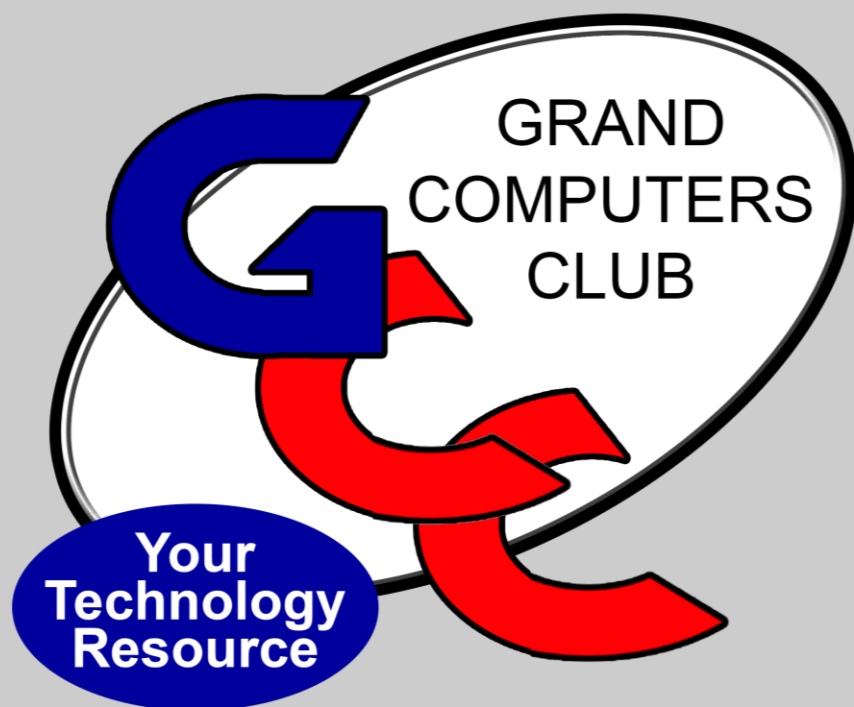
- Click: “**Pay for these classes**” to complete your registration.
- Follow the prompts through the credit/debit card payment process,
- click **Submit Payment** to complete the transaction.
- You will receive an email confirmation (almost immediately) that confirms you have paid the class registration fee.



# *We need YOU*

We have lost several instructors and are looking for volunteers to step in to help.

Please contact  
[education@grandcomputers.org](mailto:education@grandcomputers.org)  
to discuss how you can help.



# *Monitor Report David Weeks*





# Monitor Report – December 2023

(through Dec 28, 2023)

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Number of Active monitors:	56
Participating monitors this month:	20
Number of new monitors this month:	0
Number of resigned monitors this month:	0
Number of open sessions:	45
Number of sessions closed this month:	0
Total club visitors this month:	285

Thank you to the 20 monitors that served this month!

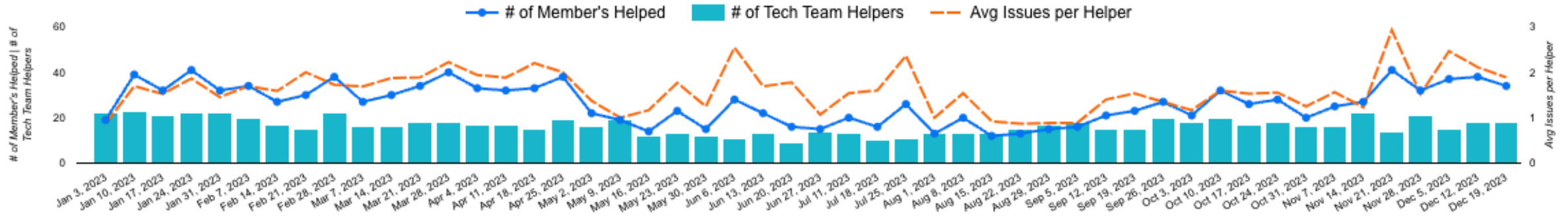
Contact David Weeks, Monitor Director at  
**[monitor@grandcomputers.org](mailto:monitor@grandcomputers.org)**



# *Tech Help Report*

## *Ann Hopperstad*

# 2023 Key Performance Metrics



50

Sessions

1,325

Members  
Serviced

51

Tech Team  
Volunteers

26.5

Members  
Helped per  
Session

1.6

Members per  
Tech Helper  
per Session

# December NPS

\*Anytime you near 80% Satisfaction, you are exceeding expectations!



Dec 5, 2023  
(27 responses out of 37)

1. Was your problem/issue resolved today?

[More Details](#)

Promoters	24
Passives	2
Detractors	1



2. How would you rate your experience at Tech Help Today?

[More Details](#)

Promoters	27
Passives	0
Detractors	0



3. How likely are you to recommend us to a fellow club member?

[More Details](#)

Promoters	27
Passives	0
Detractors	0



Dec 12, 2023  
(26 responses out of 38)

1. Was your problem/issue resolved today?

[More Details](#)

Promoters	21
Passives	4
Detractors	1



2. How would you rate your experience at Tech Help Today?

[More Details](#)

Promoters	25
Passives	1
Detractors	0



3. How likely are you to recommend us to a fellow club member?

[More Details](#)

Promoters	26
Passives	0
Detractors	0



Dec 19, 2023  
(22 responses out of 34)

1. Was your problem/issue resolved today?

[More Details](#)

Promoters	20
Passives	2
Detractors	0



2. How would you rate your experience at Tech Help Today?

[More Details](#)

Promoters	22
Passives	0
Detractors	0



3. How likely are you to recommend us to a fellow club member?

[More Details](#)

Promoters	22
Passives	0
Detractors	0



# Tech Help Focus Areas



1. New Hours of Operation for Tech Help have been successful!
  - Tech Help Check-in: 11:30 AM — 2:30 PM
  - Tech Help session: 12:00 PM – 3:00 PM
2. Keep the focus on process improvement with feedback from club members!
3. Leverage Tech Team Learning (TTL) sessions!
  - Keep sharpening the saw!
  - Learn from each other and experience!
4. Transition through the leadership changes.

# *Next General Meeting*

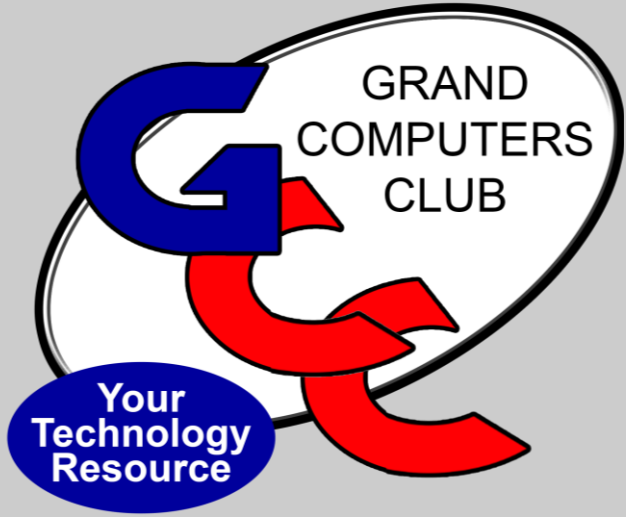


February 7th - 2:00 - 3:30pm  
Chaparral Center, Pima Room

Topic: To Be Decided

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<div> <div>Today</div> <div> <div>◀</div> <div>▶</div> </div> <div>January 2024</div> <div> <div>Print</div> <div>Week</div> <div>Month</div> <div>Agenda</div> </div> </div> <div></div>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31 New Year's Eve	Jan 1 Club Closed - New Years Day New Year's Day	2	3 2pm General Meeting	4 8am Financial Education SIG	5	6 Open House 9am - 12:30pm
7	8 6pm SIG-PhotoshopElements	9 12pm Tech Help	10	11 8:30am Coffee Chat	12 1pm Financial Education SIG	13
14	15 Martin Luther King Jr. Day 8am Financial Education SIG 3:30pm Apple SIG	16 12pm Tech Help	17	18 8am Financial Education SIG 3:30pm New Technology SIG	19 3:30pm New Member Orientation	20
21	22 12:45pm Compose Yourself SIG 3:30pm Devices SIG 6pm SIG-PhotoshopElements	23 12pm Tech Help	24	25	26 4pm Flight Simulator SIG	27
28	29	30 12pm Tech Help	31	Feb 1 First Day of Black History Month 8am Financial Education SIG	2	3 Open House 9am - 12:30pm



**Thank you to:**  
Ira Simmons

# *Feature Activity*

Smart TVs and the  
Streaming Wars - the Latest





# COMPUTERS CLUB GENERAL MEETING JANUARY 3, 2024

## STREAMING & SMART TV





# STREAMING & SMART TV: WHO'S WHO?

Amazon Fire TV	
Android TV	
Apple TV	
Google Chromecast	
Roku	
Android Phone/Tablet	
iPhone/iPad	
Mac	
Windows	

LG Smart TV	
Samsung Smart TV	
Sony Smart TV	
VIZIO Smart TV	
Nintendo	
PlayStation	

Live TV Streaming	
Fubo	
Hulu Live TV	
Philo	
Sling TV	
YouTube TV	

Amazon Prime video	
Apple TV+	
discovery+	
Disney+	
Max	
Hulu	
Netflix	
Paramount Plus	
Peacock	
SHOWTIME	
STARZ	

# STREAMING & SMART TV:

## FACTS & TRENDS





## Trends: Smart TVs Are Now in 74 Percent of American Homes

Four in five U.S. homes now have a smart TV, accounting for three in five TV sets, according to the fifth annual Hub Entertainment Research “Evolution of the TV Set” survey,

Among the findings:

- *Half of respondents (52 percent) say the TV set they use most often has a remote control with voice command capability, up from only 38 percent in 2020.*
- *One third (30 percent) of respondents have linked their smart TV to a smart speaker to enable voice control — up from 25 percent in 2020.*





## Trends: Smart TVs Are Now in 74 Percent of American Homes

More findings:

- *Three in 4 smart TV owners (77 percent) say they use their set for more than just watching TV or movies (up from 6 in 10 [63 percent] in 2020.)*
- *The most popular non-TV feature on smart TVs is streaming music or other audio content: 49 percent say they have used their smart TV for this, almost doubling since 2020.*
- *The second most used feature is casting or mirroring another device's screen on the smart TV. Over a third (38 percent) said they have done this in 2023 — nearly triple the number in 2020.*

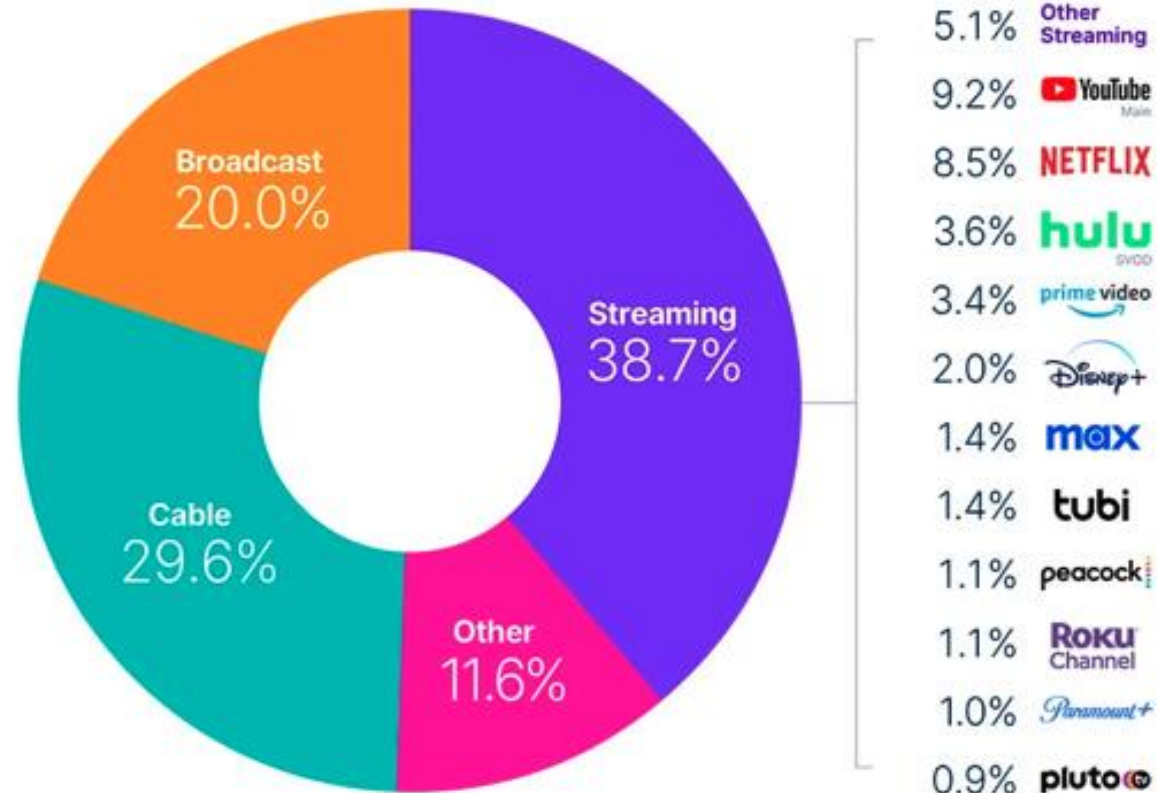
# TRENDS: What People Are Streaming/ Watching:

## Top Streaming Services:

Nielsen

July 2023

Total Day | Persons 2+



# TRENDS:

## Here Are The Top 10 Streaming Services:

YouTube: 9 percent. (YouTube is for the main site, not YouTube TV)

Netflix: 7.4 percent

Prime Video: 3.4 percent

Hulu: 2.7 percent (Hulu is for the video-on-demand, not the live TV service.)

Disney+: 1.9 percent

Tubi: 1.4 percent

Peacock: 1.3 percent

Max: 1.2 percent

Roku Channel: 1.1 percent

Paramount+: 0.9 percent

Pluto TV: 0.8 percent



# TRENDS: MAYBE NOT SO GOOD?

“On the cord cutting front, 2023 was a continuation of the trends we started to see last year—most of them not great.

Streaming services raised prices, ad-free viewing became a luxury, and streaming devices stagnated.

Yet there are always a handful of things worth celebrating in the realm of cord cutting, which despite what you might've heard is still cheaper than cable.”

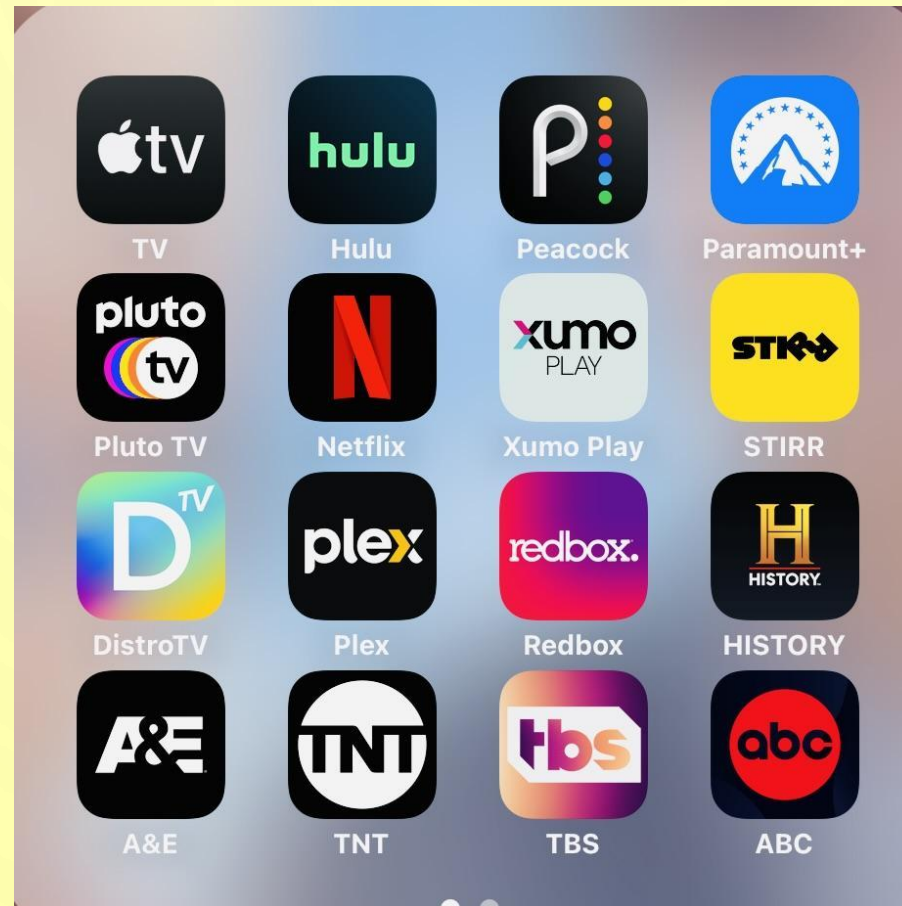
Jared Newman, 12/8/23



# WHAT IS A SMART TV?

It is basically a oversized tablet but with video apps. (Interface)

From my iPad.



# WHAT IS A SMART TV?

Formal definition: A smart TV is a television that includes an internal processor and onboard storage and enables internet connectivity, similar to a smartphone or personal computer. The TV uses either an Ethernet or Wi-Fi connection to connect to the internet. Some TVs support both.

In other words: you will likely need a wifi connection (Internet) to access the apps.

# WHAT IS A SMART TV?



# SMART TV WITH ROKU TV INTERFACE.

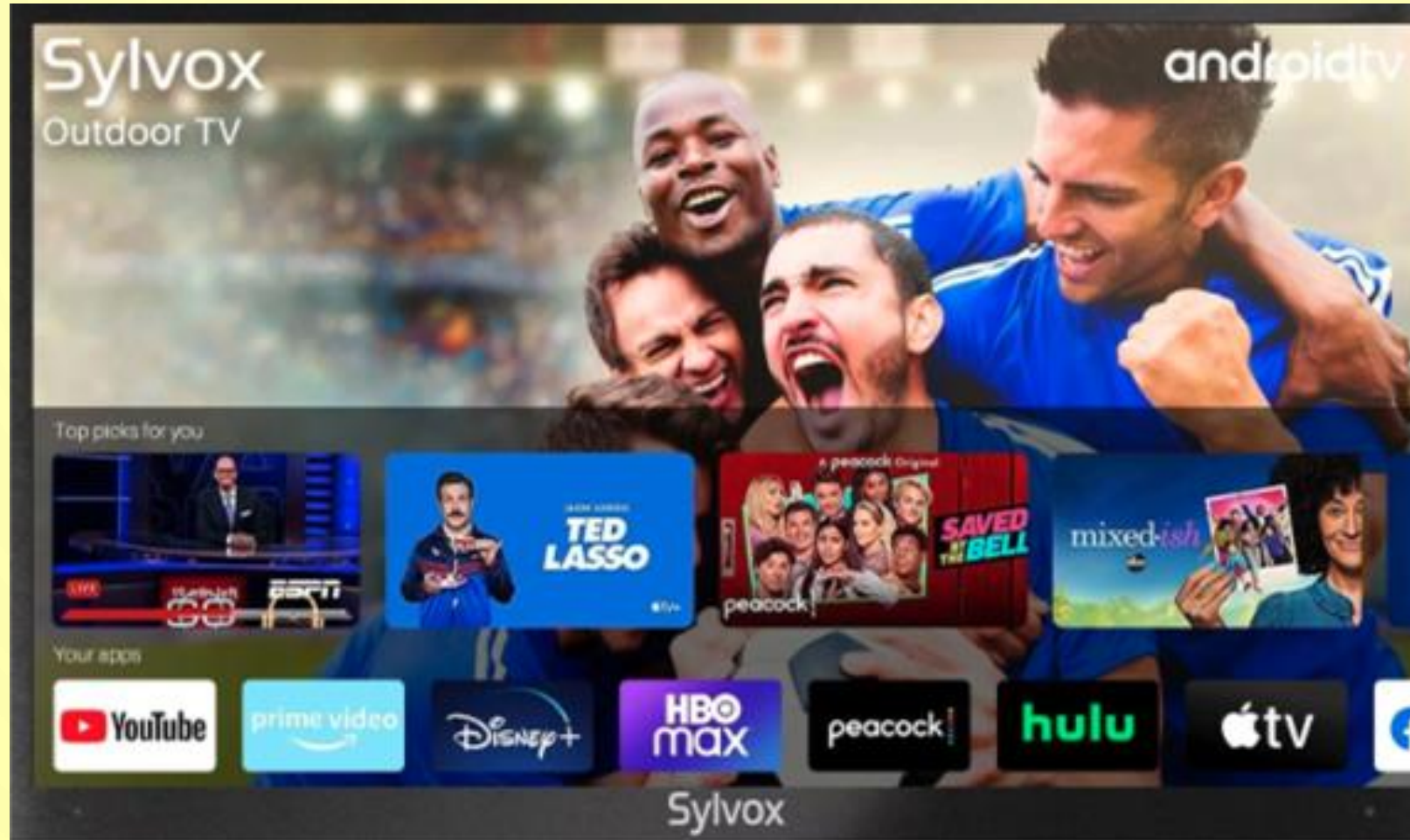




# Smart TV with Amazon Fire TV Interface.



# Smart TV with Google TV Interface.



Also called "Android TV."



# BUYING A SMART TV

# BUYING A SMART TV: WHAT YOU GET FOR THE \$\$\$

100 – 300
200 - 600
\$300
\$300
\$500

Price Range	What You Can Expect
>\$300	<b>Size:</b> 24 to 43 inches (If you find a larger one at this price point, it may lack quality.) <b>Resolution:</b> 1080p, HD resolution, or low-level upscaling. <b>Note:</b> Be on the lookout for discounted mid-range PCs at this price point.
>\$600	<b>Size:</b> 42 to 55 inches. <b>Resolution:</b> Up to 4K HDR. <b>Note:</b> While these sets may support 4K HDR, they may not offer the supporting technology, including panels, lighting systems, and processors, that can truly make the most of it.
>\$1,000	<b>Size:</b> 42 to 65 inches (quality may vary). <b>Resolution:</b> Up to 4K HDR <b>Note:</b> At this price, you'll find good LCD TVs at various sizes with decent image quality. You may also find QLED models and lower-end OLED TVs.
>\$2,000	<b>Size:</b> 48 inches, 55 inches, and higher (quality may vary). <b>Resolution:</b> 4K HDR. <b>Note:</b> At this price, you'll see enhanced picture quality that really shows off HDR source material.
>\$5,000	<b>Size:</b> Up to 75 inches or higher. <b>Resolution:</b> Up to 8K. <b>Note:</b> At this price, you'll encounter floating glass displays, built-in audio arrays, and overall higher-quality materials.

Presently  
Best Buy is  
selling a 24"  
Insignia  
smart TV for  
\$89.95.



# BUYING A SMART TV

## ABOUT 4K:


TVs with 4K resolution, also known as ultra high definition TVs, have four times as many pixels as standard 1080p resolution TVs. That sounds like a big improvement, but **in reality, it's very difficult to tell the difference in sharpness between a 4K TV and a good old-fashioned HDTV.** - CNet

Many Smart TVs on the market currently offer 4K resolution -- with the exception of a few cutting-edge 8K models (not suggested at this time).

# BUYING A SMART TV

Smart TVs still have HDMI ports, although possibly fewer than in non-smart TV years. You can still plug, cable or satellite connections into HDMI port.



The logo for Grand Computers Club is located in the top-left corner. It features a stylized blue 'G' with a red arrow pointing upwards and to the right, and a red arrow pointing downwards and to the left. The text 'GRAND COMPUTERS CLUB' is written in a blue oval above the 'G', and 'Your Technology Resource' is written in a blue oval below the 'G'.

# LCD VS OLED VS QLED

- **LCD (Liquid Crystal Display) is a type of flat panel display which uses liquid crystals in its primary form of operation.**
- **OLED screens provide better picture quality and consume less power** but are more expensive. (Best Buy models start at \$600 but are more in the \$1500 and up range.) i.e.: it lights itself!
- **OLED TVs look much better than most LCD sets.**

# OLED VS QLED

- QLED stands for Quantum Dot LED, meaning that there is an extra layer of nanocrystals between the LED lights and the viewing screen. QLED TVs utilize an extra layer of red and green crystals to produce more pure and saturated colors than typical LED TVs.

If you are looking for a new TV that has the best picture quality, then an OLED TV would be a great match. If you are looking for a more affordable option that still offers a high-quality viewing experience, then a QLED television might be a better fit. Samsung, Vizio and TCL models are an affordable middle ground. (From \$300).

# BUYING A SMART TV – TOP BRANDS

Sony  
LG  
Vizio  
TCL  
Hisense  
Sharp  
Panasonic  
Philips  
Sceptre  
Insignia





## Roku, Amazon making their own TVs.

The Roku Select and Plus Series TVs are available in the U.S. with retail prices ranging from \$119 to \$999 for the full lineup of 24" – 75" models. The lineup features 11 models with Roku Voice Remotes for all HD offerings, while all Plus Series TVs come with Roku Voice Remote Pros.

News Item: While expanding its Smart TV product lineup, Amazon (Fire TV) has launched three new size selections: 43, 50 and 55 inches, starting at an entry price of \$119.99.



# CAN SMART TV BE DONE WITHOUT A SMART TV?

# CAN SMART TV BE DONE WITHOUT A SMART TV? --YES

**Plugged in to HDMI port.**

Most Popular Plug-in brands:

Amazon Fire  
Google Chromecast  
Roku Streaming Stick 4K  
Roku Express 4K Plus  
Apple TV

Nvidia Shield TV



Amazon Fire



Google Chromecast



# CAN SMART TV BE DONE WITHOUT A SMART TV? --YES

Most Popular Plug-in brands:

Amazon Fire  
Google Chromecast  
Roku Streaming Stick 4K  
Roku Express 4K Plus  
Apple TV  
Nvidia Shield TV (expensive)



Roku Express



Apple TV 4K

# CAN SMART TV BE DONE WITHOUT A SMART TV? --YES



My Apple TV Box



# WHY BUY A PLUG-IN DEVICE WITH A SMART TV?

" While many smart TVs have some of the top streaming apps, most of the best streaming devices have all of them. The other reason why we prefer buying a streaming device is to control the interface, as most television purchases stick you with something you can't control. **Roku OS and Apple's tvOS offer definite improvements.**" - Tom's Guide



# APPS ON YOUR SMART TV

# APPS ON YOUR SMART TV

Note: You need either an Ethernet or more likely a Wifi connection (Internet) to access the apps.



# DIFFERENCE BETWEEN FREE AND PAY APPS

Free apps: either Individual or in clusters (aka **Free Video Streaming Services**):

(Pluto, Stirr, Tubi, Roku-TV). Have many, many free channels, multiple niche channels.

All apps are either readily shown on the screen or are available in the App store included in the TV. Note: Some apps may not be available on all TVs.

# PAID APPS:

## TWO CATEGORIES

1. Cable substitutes (aka **Live TV Streaming Services**). (YouTube TV, Sling, Hulu Live etc).
2. Entertainment Apps; aka: **Video on demand (VOD)**  
(Netflix, Hulu, Max, Prime Video, Peacock etc.)



# Confusion? Hulu, YouTube: different services & Name Changes

Hulu, Hulu + Live (Live TV streaming)

YouTube; YouTube Premium (no commercials); YouTube TV (Live streaming).

Apple: Apple TV (box); Apple TV+ (video on demand).

Note: Fubo-TV has been renamed Fubo; Amazon Prime is now Prime Video and HBO Max is simply Max.





# FREE VIDEO STREAMING SERVICES



# FREE VIDEO STREAMING SERVICES

- **YouTube:** One of the most popular free video streaming platforms with a vast collection of user-generated content, music videos, TV shows, movies, and documentaries.
- **Pluto TV:** Owned by Paramount, it has a huge collection of Paramount programming plus content from 3rd parties. You will find 100+ HD channels and over 1,000 movies and TV episodes. **Note: Pluto just added to new exercise equipment at Adobe and Cimarron fitness centers.**
- **Crackle:** Sony's free, ad-supported streaming service that offers a selection of movies and TV shows, including some original content.



# MORE FREE VIDEO STREAMING SERVICES

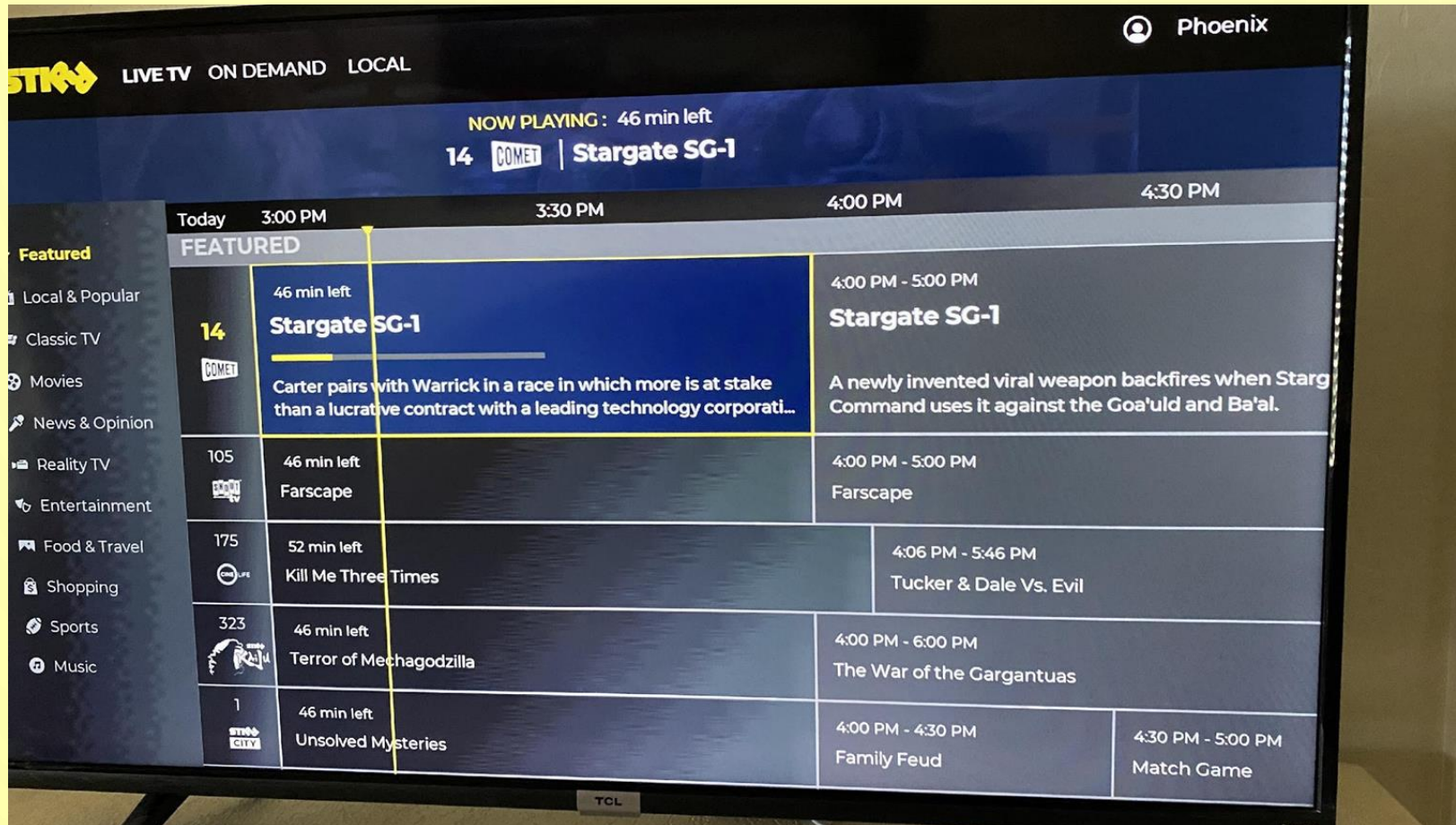
- **Tubi:** A free, ad-supported streaming service, owned by Fox. Tubi has recently struck a deal to add Warner Bros/ Discovery programming.
- **Kanopy:** Stream 1000's of films for free without ads through your library.
- **Roku Channel** Available within Roku app on Roku TVs but also Fire TV, Apple TV, and Google TV. Over 100 live channels and a ton of on-demand movies and TV shows, but you also get original programming like the Weird Al movie. (Roku Channel Plus @\$5.99/month offers additional features).
- **Local Now.** Originally Local Now only streamed your local weather and news, but now it has added a ton of live channels, movies, and TV shows. Planned: local PBS channels.

# MORE FREE VIDEO STREAMING SERVICES

- **Hoopla:** hoopla is the leading all-in-one digital library app, with over 800,000 titles—from best-selling novels and blockbuster movies to niche, hard-to find content.
- **FreeVee:** Has thousands of hit movies, shows, Freevee Originals, and live 24/7 entertainment channels. With new releases added monthly, enjoy Hollywood hits, quality shows, and exclusive Originals.
- **Plex:** If you just know Plex as a way to manage the media you own, much Plex now also has a huge free ad-supported streaming service offering a ton of movies and TV Shows.
- **Sling TV Freestream,** the free ad-supported streaming service, offers over 430 free channels and over 41,000 on-demand titles.

# TYPICAL CHANNELS IN FREE VIDEO STREAMING APPS

Stirr



Note: Many of these channels on the cable substitutes are either strictly reruns or low-budget reality shows!



# TYPICAL CHANNELS IN FREE VIDEO STREAMING APPS: TUBI

Popular	Genres		Collections	Networks
Featured	Action	Películas En Español	Actors Turned Directors	A&E
First Time on Tubi	Adult Animation	Reality TV	Audio Description	Classic Doctor Who
Leaving Soon!	Adult Comedy	Romance	Award Winners & Nominees	Complex Networks
Most Liked	Anime	Sci-fi & Fantasy	Black Cinema	CONtv
Most Popular	Art-House Films	Silent Films	Bollywood Dreams	Docurama
New Releases	Based on a Book	Slashers	British Crime TV	Dove Channel
Recently Added	Based on True Events	Sports Movies & Shows	Cancelled Too Soon	DUST
Recommended	Classics	Spy Movies	Cuffing Season	FilmRise
Recommended TV	Comedy	Stand Up Comedy	Cult Classics	FOX
Staff Picks	Crime TV	Sword & Sorcery	Down Under Comedy	FOX SOUL
Top Searched	Documentary	Thrillers	Down Under Crime	FOX Sports
Trending Now	Docuseries	Travel	Down Under Drama	Full Moon Features
Trending on Social	Drama	TV Comedies	Down Under Kids & Family	K-Content by CJ ENM
Tubi Originals	Faith	TV Dramas	Gangster Films	Lifetime
	Family Movies	Westerns	Golden Era Hollywood	LOL! Network
	Family Series		Good Eats	Shout! Factory TV
	Film Noir		Highly Rated on Rotten To...	So...Real
	Foreign Films		Honoring Norman Lear	TV One
	Foreign TV		K-Drama +	
	Heist Films		Massive Radioactive Mon...	
	Home & Garden		Modern Classics	
	Horror		Movie Night!	
	Indie Films		Myths & Legends	
	Italian Horror & Giallo		NBA G League Extras	
	Killer Thrillers		Nostalgia TV	
	LGBTQIA+		Only Free on Tubi	
	Lifestyle		Raunchy Reality	
	Martial Arts		Series Spotlight	
	Music & Concerts		Video Game Adaptations	
	Mystery		Weekly Watchlist	

# TYPICAL CHANNELS IN FREE VIDEO STREAMING APPS: PLUTO

CHANNEL LINEUP

ENTERTAINING THE PLANET

PLUTO TV

1	PLUTO	Channel Lineup	112	cheddar	Cheddar	268	Cats 24/7	502	MAN UP	Man Up	615	FRONTDOOR	FrontDoor	917	ALTER	Alternative	
MOVIES			118	TYT NETWORK	TYT Network	269	the ONION	The Onion	503	WIPEOUT	Wipeout	619	ADVENTURE TV	918	MONSTERCAT	Monstercat	
50	SPOTLIGHT	Pluto TV Spotlight	121	NEWSMAXTV	NewsmaxTV	272	CRACKED	Cracked	504	CRIME NETWORK	Crime Network	621	FOOD TV	921	SUBSTRAL	Substrata	
51	PLUTO MOVIES	Pluto TV Movies	127	TOP STORIES	Top Stories by Newsy	273	THE PET COLLECTIVE	The Pet Collective	505	THE NEW DETECTIVES	The New Detectives	CURIOSITY		922	Euphoria	Euphoria	
52	PLUTO MOVIES 2	Pluto TV Movies 2	132	RT AMERICA	RT America	GEEK+GAMING		506	UNSOLVED MYSTERIES	Unsolved Mysteries	635	xiveTV	Xive TV	923	THE STRIP	The Strip	
53	FAMILY	Pluto TV Family	135	SKY NEWS	Sky News	301	THE FEED	The Feed	507	FORENSIC FILES	Forensic Files	636	SCIENCE TV	924	11	11	
54	ACTION MOVIES	Action Movies	143	Bloomberg	Bloomberg TV	304	HIVE	Hive	510	PLUTO TV ANIMALS	Pluto TV Animals	638	DOCUTV	DocuTV	925	THE OLDIES	The Oldies
55	COMEDY	Pluto TV Comedy	SPORTS		322	ANIME ALL DAY	Anime All Day	512	SHOUT! FACTORY TV	Shout! Factory TV	640	LAW & CRIME	Law & Crime	926	RATPACK	Ratpack	
56	DRAMA	Pluto TV Drama	201	PLUTO SPORTS	Pluto TV Sports	325	MINICRAFT TV	Minecraft TV	514	BUZZR	Buzzr	643	NASA TV	Nasa TV	927	LOS ANARCHY	Los Anarchy
57	FLICKS OF FURY	Flicks of Fury	202	FOX	FOX Sports	330	IGN	IGN	515	Classic TV	Classic TV	MUSIC+RADIO		928	WHAT THE FUNK	What the Funk	
58	THRILLERS	Pluto TV Thrillers	204	IMPACT!	Impact Wrestling	332	WHAM NETWORK	WHAM	517	LIVE MUSIC REPLAY	Live Music Replay	901	MAIN STAGE	Main Stage	929	THE BRIDGE	The Bridge
59	HORROR 24/7	Horror 24/7	205	FIGHT	Fight	333	CNET	CNET	520	KIDS TV	Kids TV	903	city	The City	930	MOONLIGHT	Moonlight
60	DOCUMENTARIES	Pluto TV Documentaries	207	STADIUM	Stadium	336	GEEK & SUNDRY	Geek & Sundry	526	AFTER SCHOOL CARTOONS	After School Cartoons	904	RED CUP	Red Cup	931	PURE SOUL	Pure Soul
61	INDIES	Pluto TV Indies	209	SURF CHANNEL	The Surf Channel	341	Nerdlist	Nerdlist	531	CLASSIC TOONS	Classic Toons	905	THE CROSS	The Cross	932	LOVE SONGS	Love Songs
62	CLASSIC MOVIES	Classic Movies	213	SPORTS NEWS	Sports News	CHILL OUT		534	AWESOMENESS TV	Awesomeness TV	906	FUEGO	Fuego	933	LA ISLA	La Isla	
64	ROMANCE	Pluto TV Romance	214	DWPT	World Poker Tour	401	Internet Gold	Internet Gold	536	nosey	Nosey	907	70's	70's	934	REGGAE KING	Reggae King
67	BLACK CINEMA	Black Cinema	215	GLORY	Glory Kickboxing	411	VIBES	Vibes	542	WHAT?!	What?!	908	80's	80's	935	Cool	Cool
71	GRANITAS MOVIES	Granitas Movies	230	BIG SKY	Big Sky Conference	418	MONSTERCAT TV	Monstercat TV	543	BEVRY	Bevry	909	90's	90's			
74	THE ASYLUM	The Asylum	COMEDY		420	THC	THC	LIFE+STYLE		910	Y2K	Y2K					
NEWS			250	Funny AF	Funny AF	426	EYE CANDY	Eye Candy	600	CARS	Pluto TV Cars	911	DASH 1	Dash 1	TV		
105	TODAY'S TOP STORY	Today's Top Story	252	JASH	Jash	434	NATURE VISION TV	NatureVision TV	601	HER	Pluto TV Her	912	LOUD	LOUD			
108	NEWS 24/7	News 24/7	261	STAND-UP TV	Stand-Up TV	437	SLOW TV	Slow TV	602	People TV	People TV	913	DASH INDIE	Dash Indie			
109	CBSN	CBSN	264	MST3K	MST3K	439	4K TV	4K TV	603	GORDON RAMSAY'S HELL'S KITCHEN	Gordon Ramsay's Hell's Kitchen	914	DOGGYSTYLE	Doggystyle			
110	NBC NEWS	NBC News	265	RIFTRAX	Riftrax	ENTERTAINMENT		605	CLEVER	Clever	915	ELECTRO CITY	Electro City				
111	CNBC	CNBC	267	FAILARMY	FailArmy	501	CHASSY	Chassy	608	POPSUGAR	PopSugar	916	DISCOVER			Discover	
															Channels subject to change at any time without notice. US region only. © 2018		
															If you have channel suggestions to enhance the Pluto TV experience, contact Mary@pluto.tv		

# FREE INDIVIDUAL APPS



Also may be available on Pluto, Tubi or other free streaming services.





## Local News?

Some cable substitute services usually offer apps from selected local news stations. Some or also available as “stand alones.”

Tubi: Fox 10, NBC 12, ABC 15

Pluto: None in Phoenix

Local Now: ABC 15

Roku TV: 3, Fox 10

NewsOn: NBC 12, ABC 15.

Haystack News: CBS 5

Stirr: None



## If you Keep Cable or Satellite:

Many TV apps (TNT, Fox News, HGTV etc.) require your cable or satellite information to view.



# Live TV Streaming services: Cable substitutes



# LIVE TV STREAMING SERVICES: CABLE SUBSTITUTES

- **Sling TV:** Two distinct plans. The \$40/month “Sling Orange” plan offers about 30 channels, including Disney Channel and ESPN. The \$40/month “Sling Blue” plan offers about 40 channels, including Fox and NBC local channels.
- **Hulu + Live TV:** more than 90 channels for \$76.99/month. The base plan includes local channels, 33 of the top 35 cable channels, and regional sports networks (RSNs). Plus free access to Disney+ and ESPN+ at no extra charge.
- **YouTube TV:** more than 100 channels for \$72.99/month. This plan includes local channels, 32 of the top 35 cable channels, and regional sports networks (RSNs) in select markets. The service includes an unlimited DVR.



# LIVE TV STREAMING SERVICES: : CABLE SUBSTITUTES

- **Fubo:** Offers about 175 top channels that start at \$74.99 per month. This plan includes local channels, 25 of the top 35 cable channels, and regional sports networks (RSNs).
- **Philo:** A live TV streaming service designed for entertainment lovers which includes 115 channels for \$25 per month. It's an especially attractive option for fans of live TV who don't watch sports.
- **DirecTV Stream:** essentially the streaming version of the DIRECTV service. All packages include local channels and at least 34 of the top 35 cable channels. New subscribers can get a free Gemini streaming device from the company, in which case the service is called "DIRECTV via Internet."



# STARTING CABLE SUBSTITUTES PRICES COMPARED

**YouTube TV - \$73+**  
**fuboTV - \$75+**  
**DIRECTV STREAM - \$80+**  
**Hulu Live - \$77+**

Recent price increases.

# LIVE TV STREAMING SERVICES COMPARED

Streaming Service	Starting Price	Channels	Plan Options
Sling TV	\$40/month	31+ channels	3
Hulu Plus Live TV	\$77/month	90+ channels	2
YouTube TV	\$73/month	100+ channels	1
DirecTV	\$80/month	75+ channels	4
FuboTV	\$75/month	175+ channels	3
Philo	\$25/month	115+ channels	1

Cable and satellite TV might still be more expensive, but the price advantage for live TV streaming services has shrunk.





# LIVE TV STREAMING SERVICES COMPARED - SPORTS

Streaming subscribers can watch many nationally televised games with a live TV streaming service. Because of carriage disputes, most streaming services do not carry regional sports networks (RSNs). You can find Bally Sports Networks (formerly Fox Sports Networks) on DIRECTV STREAM, while Hulu + Live TV, YouTube TV, and fuboTV all carry NBC Sports Networks. Again, we recommend entering your zip code on the homepage of each service to see exactly which channels you'll get in your area.

	DIRECTV STREAM	fuboTV	Hulu + Live TV	Sling TV	YouTube TV
ESPN	✓	✓	✓	✓	✓
ESPN2	✓	✓	✓	✓	✓
FS1	✓	✓	✓	✓	✓
FS2	✓*	✓	✓	✓*	✓
TBS	✓		✓	✓	✓
TNT	✓		✓	✓	✓
USA	✓	✓	✓	✓	✓

**Remember:**  
YouTube TV  
has NFL  
Sunday  
Ticket  
exclusively,  
up to \$400 a  
season.

## Top 100 Channel Comparison





# Live TV Streaming services: Local Channels

Most cable substitute services offer local ABC, CBS, Fox, and NBC channels. The “Sling Orange” (\$40) plan doesn’t include any local channels, while Sling Blue (\$55) offers FOX, NBC, and ABC affiliates in limited markets. **You Tube TV does offer local (network) channels in all markets**, While Fubo carries local CBS affiliates in some areas, they offer a CBS National Feed in most markets.

Most network prime time shows are usually available within 24 hours on the Entertainment Services (CBS/Paramount+; NBC/Peacock, ABC & Fox/Hulu).

Note: Often Over-the-Air indoor or outdoor antennas will fill the “local channels” gap.



# Entertainment (Video On Demand) services



# Entertainment (Video On Demand) services:

Ads vs no Ads

Services or plans that interrupt shows and movies with Ads are cheaper per month (but annoying)!

Note: Ads cannot be fast-forwarded!

Their strengths are award-winning original content!  
“Handmaid Tale,” “Orange Is the New Black,” etc, etc.



# VIDEO ON DEMAND STREAMING SERVICES:

- **Netflix:** The most popular VOD service, Netflix offers a vast library of movies and TV shows, including original content.
- **(Amazon) Prime Video:** A VOD service that's included with an Amazon Prime subscription, it offers a wide range of movies and TV shows, including some original content. ("Goliath," "Marvelous Mrs. Maisel", Thursday Night NFL).
- **Disney+:** A VOD service from Disney that offers access to movies and TV shows from Disney, Pixar, Marvel, and Star Wars.
- **(HBO) Max:** A VOD service that offers access to HBO's library of original content, as well as movies and TV shows from other networks.
- **Hulu:** A VOD service that offers access to a wide range of TV shows, movies, and original content, as well as live TV streaming.



# MORE VIDEO ON DEMAND STREAMING SERVICES:

- **Apple TV+:** A VOD service that offers original content produced by Apple, including TV shows, movies, and documentaries. (“Ted Lasso.” “Morning Show,”)
- **Peacock:** A VOD service from Comcast/NBCUniversal that offers access to a variety of movies, TV shows, and live sports.
- **Vudu:** A VOD service that allows users to rent or purchase movies and TV shows, as well as access a selection of free, ad-supported content.
- **Paramount Plus:** Paramount Plus is owned by Viacom/CBS, and offers a variety of TV shows, movies, live sports, and news content and original shows such as: 1883, 1923 (“Yellowstone” spin-offs) and “Tulsa King”). Note: On January 8, 2024, the Showtime on-demand service will consolidate and become the Paramount+ with Showtime.

# VIDEO ON DEMAND PRICING:

SERVICE	MONTHLY COST, BASIC PLAN WITH ADS	MONTHLY COST, AD-FREE PLAN	DEVICES THAT CAN STREAM AT ONCE	FREE TRIAL
Paramount+	\$6	N/A	3	7 days
Peacock	\$6	\$12	3	None
Netflix	\$7	\$15	1 to 4	None
Apple TV+	N/A	\$7	6	7 days
Hulu	\$8	\$18	2 to 5	30 days
Disney+	\$8	\$14	4	None
Amazon Prime	\$9	N/A	3	30 days
Max	\$10	\$16	2 to 4	None
Note: Costs as of October 2023				
Source: Company websites				



# VIDEO ON DEMAND STREAMING SERVICES

## DETAILED PRICING:

**Netflix:** Offers four pricing tiers in the US - Basic with ads\*: \$6.99/month. Basic: \$9.99/month. Standard: \$15.49/month. Premium: \$19.99/month.

- **(Amazon) Prime Video:** Included with an Amazon Prime subscription, which costs \$14.99 per month; \$139 per year; **Prime Video** only membership is \$8.99 per month.
- **Disney+:** Basic With Ads \$7.99/month, Premium (no ads) \$10.99/month or \$109.99 /year.
- **Max:** Offers two pricing tiers in the US - ad-supported at \$9.99 per month and ad-free at \$15.99 per month.
- **Hulu:** Offers several pricing tiers in the US, including a basic ad-supported plan at \$7.99 per month and an ad-free plan at \$14.99 per month.
- **Paramount Plus:** with ads: \$4.99/month. \$49.99/year. Premium Plan \$9.99/month, \$99.99/year.








## VIDEO ON DEMAND BUNDLES PRICING:

- **Disney Bundle Trio (Hulu/Disney+/ESPN+)** (\$14.99/mo. with ads, \$24.99/mo. without ads): Tons of on-demand movies, shows, and sports for people of all ages.
- **Hulu+Live TV with Disney+ and ESPN+** (\$76.99/mo. with ads, \$89.99/mo. without ads): Everything in the Disney Bundle Trio (above) plus 70+ live channels and a 50-hour cloud DVR.
- **Disney Bundle Duo:** \$9.99/month, which includes Disney+ (With Ads) and Hulu (With Ads) Disney Bundle Duo Premium for \$19.99/month, which includes Disney+ (No Ads) and Hulu (No Ads) Disney Bundle Trio Basic for \$14.99/month, which includes Disney+ (With Ads), Hulu (With Ads), and ESPN+ (With Ads)
- **Discovery Plus and Max** have merged into a single service, [Max](#) (\$9.99–\$19.99 monthly). If you want only Discovery+, it remains available for \$4.99–6.99 monthly.
- **Apple One:** This bundle includes Apple Music, Apple TV+, Apple Arcade, and iCloud storage, with pricing ranging from \$19.95 to \$37.99 per month in the US, depending on the plan selected.



# INTERNET CONNECTION OK?

 <b>CenturyLink™</b>  3.1 ★★★★★	Plans Starting At <b>\$50</b> <small>*Prices may vary depending on the plan.</small>	Speeds Up To <b>940 Mbps</b> <small>*Not all internet speeds available in all areas.</small>	Connection: DSL, Fiber Availability: 61.5%
Cox    3.7 ★★★★★	Plans Starting At <b>\$49.99</b> <small>*Prices may vary depending on the plan.</small>	Speeds Up To <b>1 Gbps</b> <small>*Not all internet speeds available in all areas.</small>	Connection: Cable, Fiber Availability: 59.4%
Verizon    3.7 ★★★★★	Plans Starting At <b>\$50</b> <small>*Prices may vary depending on the plan.</small>	Speeds Up To <b>300 Mbps</b> <small>*Not all internet speeds available in all areas.</small>	Connection: 5G Internet Availability: 59%

# INTERNET CONNECTION OK?



Plans Starting At

**\$50**

\*Prices may vary depending on the plan.

Download Speeds:

**33 – 245 Mbps**

\*Not all internet speeds available in all areas.

Connection: 5G Internet

Availability: 21.1%



Plans Starting At

**\$65**

\*Prices may vary depending on the plan.

Speeds Up To

**2 Gbps**

\*Not all internet speeds available in all areas.

Connection: Fiber

Availability: 38.6%

Starlink



Plans Starting At

**\$90**

\*Prices may vary depending on the plan.

Download Speeds:

**50 – 220 Mbps**

\*Not all internet speeds available in all areas.

Connection: Satellite

Availability: 100%

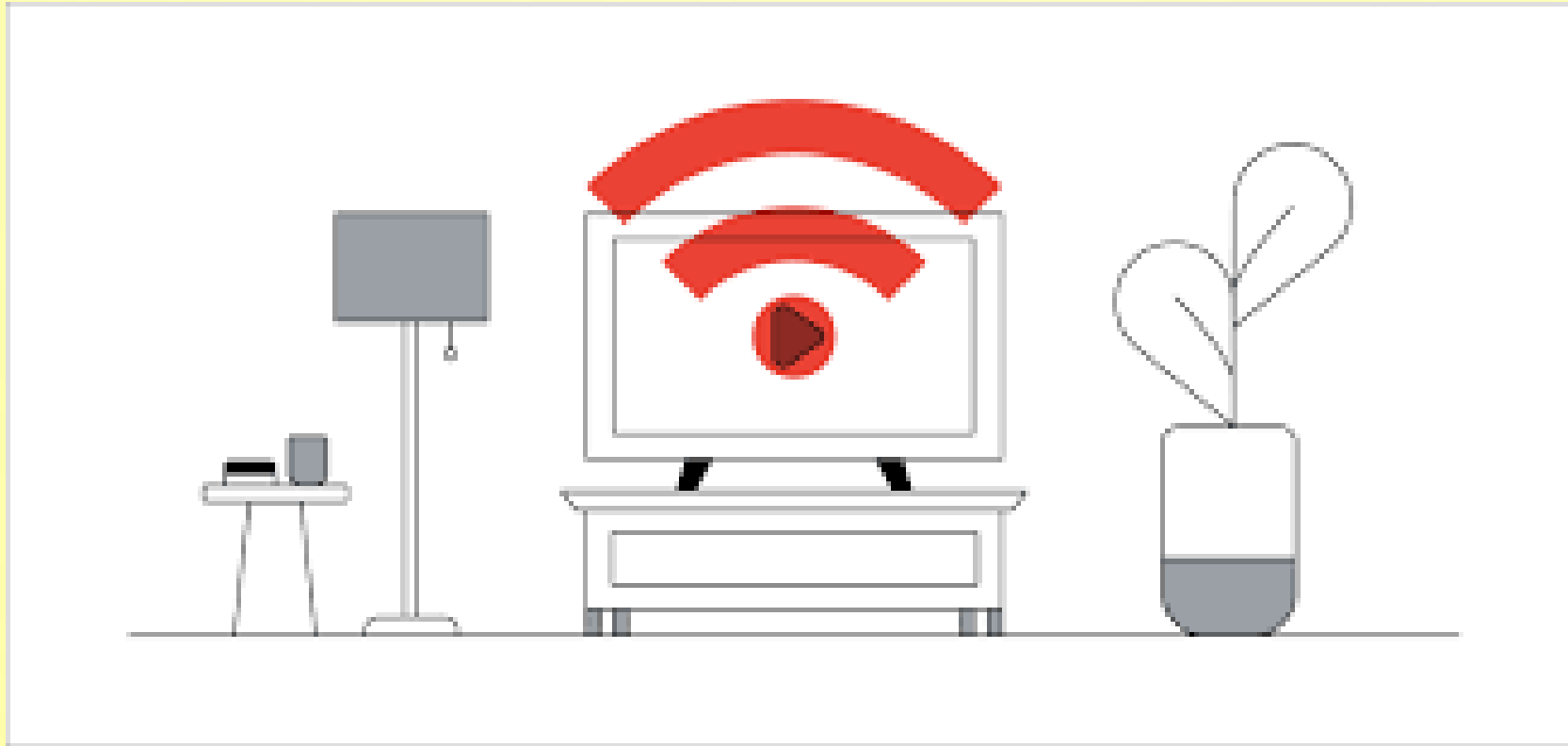
# INTERNET CONNECTION OK?

## Understand Internet Speed and What Will Work For You

Internet Speed	Users Supported	Speed Summard
25 Mbps	1 – 2 people	Basic
100 Mbps	2 – 3 people	Average
200 Mbps	3 – 5 people	Fast
400 Mbps	5+ people	Very Fast
1000 Mbps	5+ people	Fastest

Source:  
[smartmove.us](https://www.smartmove.us)

# NEWS UPDATES: STREAMING



# LIVE TV STREAMING SERVICES UPDATE

## Streaming: 'There has to be consolidation' at some point

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**EARNINGS ALERT**

**DISNEY WILL LAUNCH INTEGRATED HULU, DISNEY+ APP IN MARCH 2024**

**DOWNLOAD THE APP TODAY**

# LIVE TV STREAMING SERVICES UPDATE

## Until Streamers Consolidate, Watching Live Sports Without Cable is Likely to Get Harder and More Expensive

With the escalating cost of sports media rights, there will likely be even more proliferation of rights, meaning fans will need to subscribe to even more platforms to watch.



David Satin

November 30, 2023







# NEWS UPDATE: WHAT ABOUT REGIONAL SPORTS CHANNELS?

Diamond Sports Group, which owned 19 regional sports networks (RSNs) including Bally Sports Arizona, has ventured into bankruptcy. Bally Sports Arizona shut down in the middle of the baseball season and the remaining Arizona Diamondbacks games were then streamed through Major League Baseball. Presently the Phoenix Suns are televised locally on Channel 3 and the Arizona Coyotes are on Channel 61, a CW affiliate. Most of the “cable substitutes” are not carrying either team. And the Diamondbacks have not indicated where their games will be available in the upcoming season.

Under a recent settlement most of the other regional Bally Sports channels will remain intact for the 2024 baseball season. Ditto NHL and NBA for the current season. There have been some changes in other cities (Houston and Pittsburgh) as AT&T has exited from the Regional Sports game, and it is evident that the local sports model is not financially feasible and is on borrowed time.



# NEWS UPDATE: CABLE/SATELLITE SHUTTING DOWN!

**DUO Broadband (Kentucky)**

**Bailey Cable TV (Louisiana)**

**Great Plains Communications (Nebraska)**

**KPU (Alaska)**

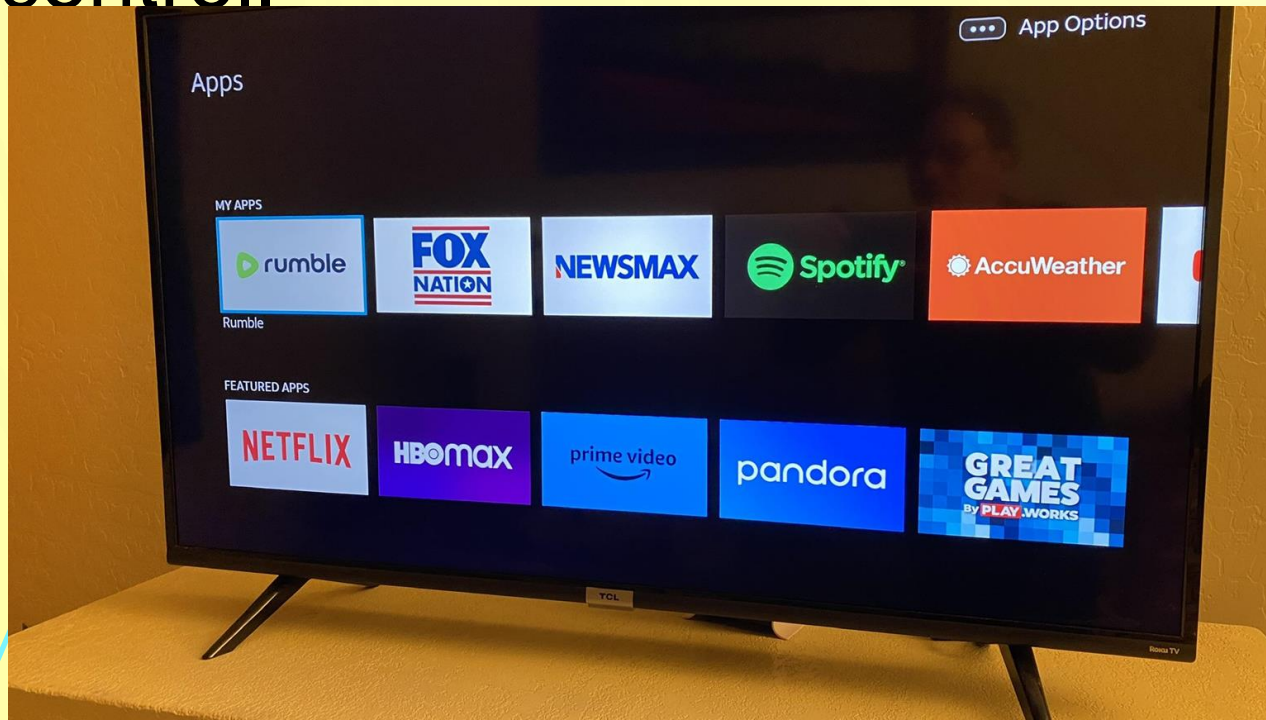
**Sparklight Cable** (also known as Cable One) in 21 states owned by Cox

**Mid-River Communications (Maryland)**



## UPDATE: CABLE/SATELLITE STRIKING BACK?

DirecTV added Gemini Box with apps button on remote control.



The Gemini receiver **delivers an enhanced watching experience and a voice activated remote control powered by Google Assistant.** If connected to a 4K TV, the device detects it and will allow you to watch in 4K when available. There is also access to the Google Play Store to browse and add popular streaming apps

Note: This past season DirecTV gave me the MLB Package for free and most recently a \$10/month discount.



# UPDATE: RECENT HEADLINES

## Amazon Rolling Out Ads to Prime Video on January 29

An Amazon Prime membership currently costs \$139 a year or \$14.99 per month. Customers who want access to just Prime Video can subscribe to the service for \$8.99 a month.

Rather than create a lower-priced tier like some of its competitors, Amazon is instead adding a higher-priced tier that removes ads from the service, likely because Prime Video is included with standard Prime memberships.

If you're cool with the ads, there's nothing you need to do, they'll just appear on their own at the end of next month. If you'd rather continue with an ad-free experience, you can sign up for a new ad-free version of Prime Video for an additional \$2.99 a month.



# UPDATE: RECENT HEADLINES

## ABC App: adding Unlocked channels

Access the **ABC app** from your smartphone and tablet (or on **ABC.com** with Roku, AppleTV and Amazon Fire TV.

<u>20/20</u>	<u>WICKED TUNA</u>
<u>ABC NEWS LIVE</u>	<u>LOCAL NEWS &amp; MORE</u>
<u>CEESAR MILAN: BETTER HUMAN BETTER DOG</u>	<u>BAY AREA</u>
<u>ESPN8: THE OCHO</u>	<u>CENTRAL CALIFORNIA</u>
<u>GENERAL HOSPITAL SPOTLIGHT</u>	<u>CHICAGO</u>
<u>THE INCREDIBLE DR. POL</u>	<u>HOUSTON</u>
<u>LIFE BELOW ZERO</u>	<u>LOS ANGELES</u>
<u>LOST TREASURES</u>	<u>NEW YORK</u>
<u>PRESS YOUR LUCK</u>	<u>NORTH CAROLINA</u>
<u>SUPERNANNY</u>	<u>PHILADELPHIA</u>
<u>TO CATCH A SMUGGLER</u>	
<u>TO TELL THE TRUTH</u>	
<u>TRUE CRIME STORIES</u>	

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Nicole Schmoll



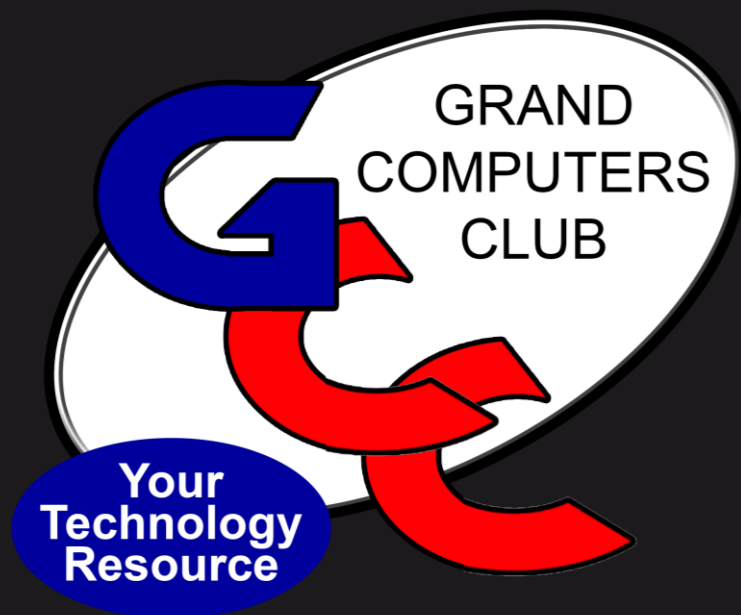


# SUN CITY GRAND COMPUTERS CLUB



Comments, Questions???





*Questions?*