Cutting the Cord



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What does Cord Cutting mean?

- Cord cutting refers to the process of "cutting" expensive cable connections and replacing them with low-cost or no-cost wireless live TV.
 - Free over-the-air local TV reception with an antenna
 - Streaming live TV via the Internet and your Wi-Fi
- Streaming live TV is simply video content delivered over the internet (or over the air), instead of a via cable in the ground or a dish on the roof.
- Watch on a TV, tablet, phone, laptop.
- If you have a decent internet connection and home Wi-Fi, you are ready to stream

Advantages/Disadvantages

- Some of the advantages of cord cutting include:
 - Saves money
 - No annual contracts
 - No equipment rental
 - Advertising is minimal
 - Flexible programming choices
- Some of the disadvantages of cord cutting include:
 - Need for faster Internet speed (50Mbs on Cox)
 - Unavailability of certain channels/programs

Live TV Streaming Services

- Live TV streaming looks a lot like what you'd get with cable or satellite: live local and cable channels, channel guides, and programmable DVRs
- They include features like
 - Ability to watch live and pre-recorded shows on TVs, cellphones, tablets, and computers.
 - Unlimited cloud DVRs.
 - Watch <u>wherever</u> Wi-Fi is available.
- Major services available today: Hulu Plus Live TV, Google's YouTube TV, Sling TV, Philo, FuboTV, and DirectTV Stream

Comparing Live TV Streamers

- The main differences between the services:
 - channel lineup
 - monthly price
 - number of simultaneous devices on which you can watch shows
 - number of hours you can record
 - how long you can keep recorded shows
- Links to lists of channels that each service carries
 - Cord Cutter News
 - <u>CNET</u> includes Philo

Video On Demand Streaming Services

- TV content that you can watch whenever and wherever you want.
- Streaming video on demand (VOD) can be paid via monthly subscription or pay-per-view
- Cord cutting is not required
 Six top video on demand services compared



What you need to stream Live TV or Video On Demand

- High Speed Internet (50Mbs on Cox) connected to a cable modem
- Wi-Fi Router or Gateway (cable modem + router)
- TV with HDMI port(s)
- Smart TV, Streaming Stick or Streaming box, per TV
 - Roku and Amazon Fire TV, the two most popular streaming sticks, each offer an incredible variety of movie and TV apps (Thousands), both free and subscription based.
 - Chromecast with Google TV is a newer streaming stick
 - Apple TV and Android TV boxes are alternate, albeit pricey quality streaming devices.

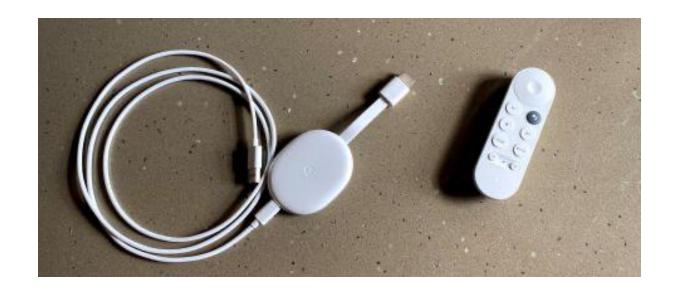
Best Streaming Sticks for the Price



\$50 Roku Streaming Stick 4K and the \$50 Amazon Fire TV Stick 4K

Chromecast with Google TV

Streaming stick and remote (\$50) that gives Roku and Amazon Fire TV direct competition.



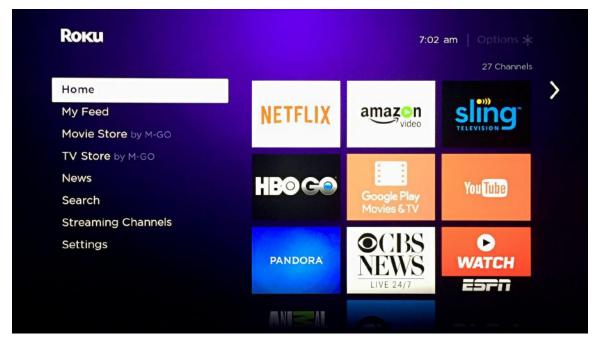
12/16/2019

Roku, Fire TV, and Google TV Streaming Sticks

- Think of Streaming Sticks as miniature cable boxes to access live streaming TV and Video on Demand (VOD) TV shows and movies with a single remote.
- They stream content <u>wirelessly</u> to your TV from the Internet via your Wi-Fi router or Gateway.
- The sticks are designed to hide behind your TV and plug directly into an unused HDMI port.
- The sticks are powered by plugging into electrical outlet or a powered USB port on your TV.
- The sticks come with remotes that have TV volume, power buttons, and voice input to control most TVs, so you can ditch the remote that came with your TV.
- You can take them with you to a hotel or vacation rental!

Comparing Roku and Fire TV Streaming Sticks:

Roku's menu system places **your** apps front-and-center and lets you arrange them just like on a phone. You can navigate the apps without dealing with a screen filled with ads. (some call it dated)



Comparing Roku and Fire TV Streaming Sticks:

Fire TV's menus are more modern-looking (similar to Netflix), but they steer you toward Amazon's stuff. (Very ad focused and a bit more cumbersome)



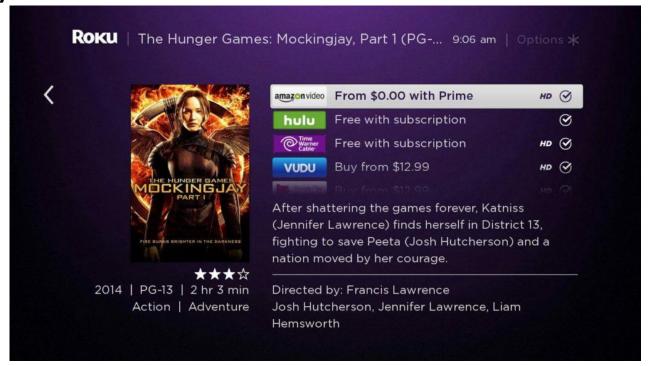
Your recent apps

Sponsored

Available on **Prime**

Comparing Roku and Fire TV Searches:

Search results on Roku are straightforward and price-centric. You're shown how much a movie or TV show costs (free listed first) and can click through to watch or buy it.



Comparing Roku and Fire TV Searches:

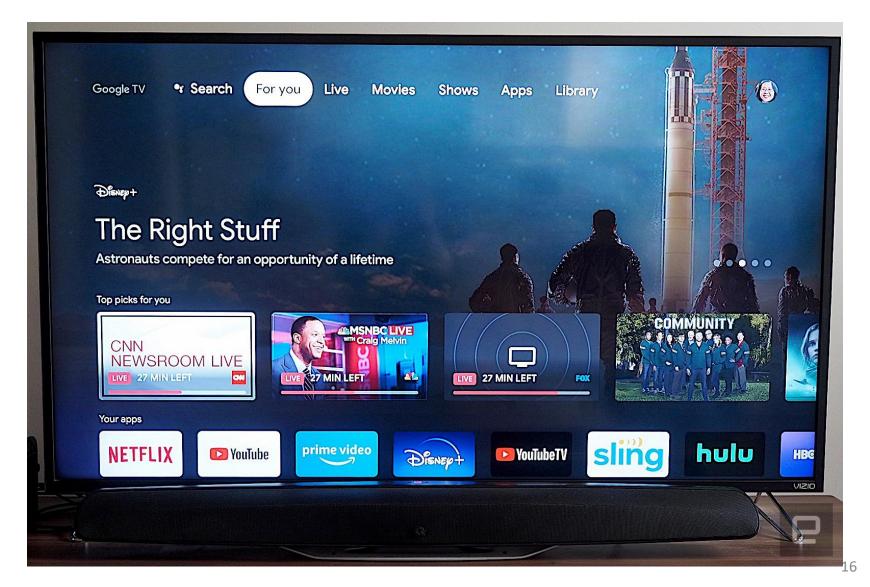
Fire TV's results are much more confusing, with multiple options and false positives. Once you find what you want, you're shown one primary service, and have to click through to see "More Ways to Watch."



Chromecast with Google TV: the good

- Recommendations for shows and movies, listed in the many genre lists, are based on what you watch and rate positively.
 - If a program is available from multiple services, they are listed in order by cost
- Cast video from your phone, tablet, or computer to your TV
- Use remote voice button to access Google Assistant and control smart home devices.
- View live pictures from Nest cameras or doorbells on your TV
- Integrated with YouTube TV, currently for one user only.
 - YouTube TV programs in your library are incorporated into the Google TV "Watchlist".

Google TV Display



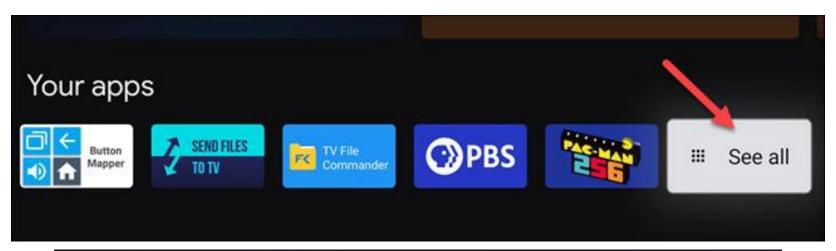
Confusing Google TV interface (1)

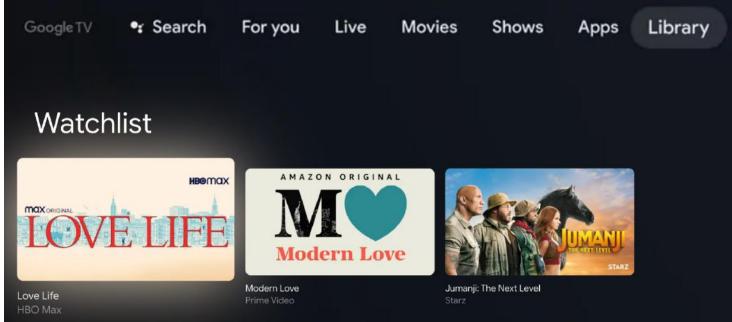
- Lists of programs, by genre, from streaming services that you can watch without having to open each streaming service <u>is innovative</u>.
- However, it only works for a limited number of streaming services.
 (Paramount+, Discovery+, Disney+, Epix Now, HBO Max, Hulu, Netflix, Prime Video, Peacock, Showtime, and Starz).
- When searching for a specific program, only these services are included in the results, although a programs are available on different services (e.g., freevee, Acorn TV, Britbox, PBS, VUDU).
- Recommended programs are supposed to be based on services you select from the above services. However, recommended programs are also included from services you did not select and other services you cannot de-select (e.g., PlutoTV, YouTube, Tubi, Crackle).
- Cannot directly see all installed streaming apps at once like on Roku, Fire TV stick or any cellphone. Must click "See All" first.

Confusing Google TV interface (2)

- The "Watchlist" in your "Library" lets you directly access programs, without having to open a specific streaming service first.
 - It only works for the above listed streaming services.
 - For other streaming services (e.g., freevee, PBS, Acorn TV, Britbox), only information about the show or its episodes is listed. One cannot "watch" the program.
- A cool feature is the ability to directly add programs from Google searches on other devices to your "Watchlist". Although, as mentioned above, some programs cannot be "watched".
- Cannot add Netflix programs to the "Watchlist".
- Cannot sort the "Watchlist" or show it in a grid.
- "Free" programs listed under Search are only "free" if you already subscribe to that streaming service.

Google TV: Screenshots

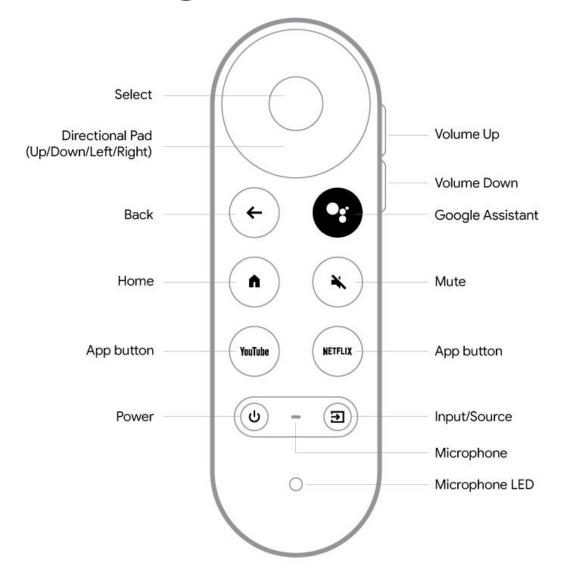




Google TV Remote not as user friendly as Roku and Fire TV remotes

- Remote is slippery and difficult to hold in large hands. Size also makes it easy to lose in sofa.
- The recessed 4-way circular directional pad can create errors in selection of direction. Roku 4-way pad with raised arrows is a much better design.
- Fast forward works differently depending on a streaming service.
 - On most services it takes four clicks to fast forward or rewind.
 - Roku and Fire TV have separate buttons for Play, Rewind, and Fast Forward.
- Mute button should be with the volume buttons so you can find it without looking at remote.

Google TV Remote



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Roku and Fire TV Remotes





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Additional Comparisons:

- Amazon Fire TV sticks are integrated with Amazon Alexa voice control and Echo devices
- Roku provides its own voice control system, but it is compatible with some Alexa and Google Assistant voice commands.
- Roku supports the no commercial streaming TV service <u>DroidTV.com</u>. (monthly fee of \$6.99)
- Google TV is integrated with Google Assistant
 Voice Control and Google smart home devices

How to Watch FREE Movies & TV Shows on Fire TV, Roku, Google TV

- Top 11 free <u>ad-supported</u> channels for movies and TV shows:
 - Pluto TV
 - Tubi TV
 - Crackle
 - Xumo TV
 - The Roku Channel: (Roku only)
 - PBS Kids
 - Stirr
 - Vudu
 - Filmrise
 - Kanopy (with Library Membership)
 - Freevee

Cutting Your Cord

- Start Slowly
- Buy a Roku, or a Fire TV stick, or Chromecast with Google TV
- Test a live TV streaming service before cutting your cable or satellite service
- Add a live TV streaming service for a month alongside your current cable or satellite service
- Try a streaming service with free trial (7-30 days)
- Add and drop services whenever you like.

ZITS







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Backup Slides

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Modems, Router, and Gateways

What is a modem?

A modem, or modulator-demodulator, is a physical device that connects a device to the internet via a broadband connection (for Cox it is a Coaxial cable in the house). It receives signals from the internet service provider (ISP) and sends them to the device. A modem can only connect to one device at a time — in many cases, this is the router.

What is a router?

 A router is a physical device that connects the modem to all of the network-connected devices like computers, phones, smart TVs and home cameras. Sometimes routers connect via a cable to the modem, while others are completely wireless — most, however, offer both options.

Do you need a router if you have a modem?

 The technical answer is no, but the practical answer is yes. Because a modem can only connect to one device at a time, you'll need a router if you want to be able to access the internet from multiple devices.

What is a gateway?

 A gateway is a router-modem combo, sometimes called a gateway router or a gateway modem (or even gateway modem router). Essentially, it combines the two in a single physical piece of hardware. This consolidates your technology so it takes up less space and requires fewer messy cables.

Cables and Connectors

Electrical cord	PE	Power Strip	-2-2-2-2-2-
Coaxial cable		Splitter	The state of the s
Ethernet cable		Ethernet Hub	1
Telephone cord		Splitter	is to take
HDMI cable		Splitter	

