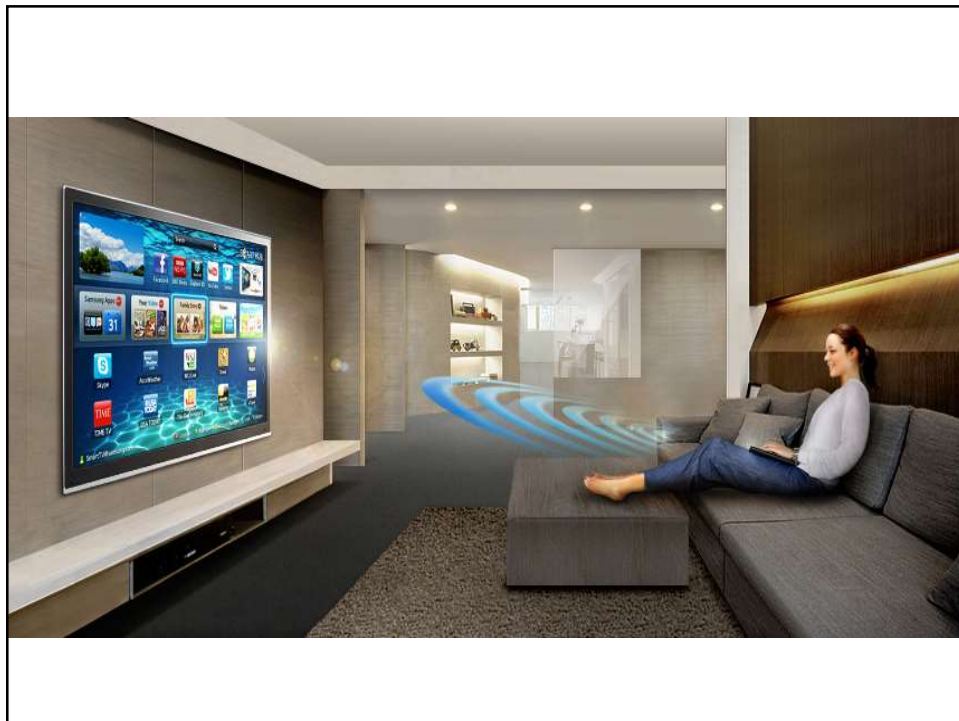


Next-generation TV

May 2017







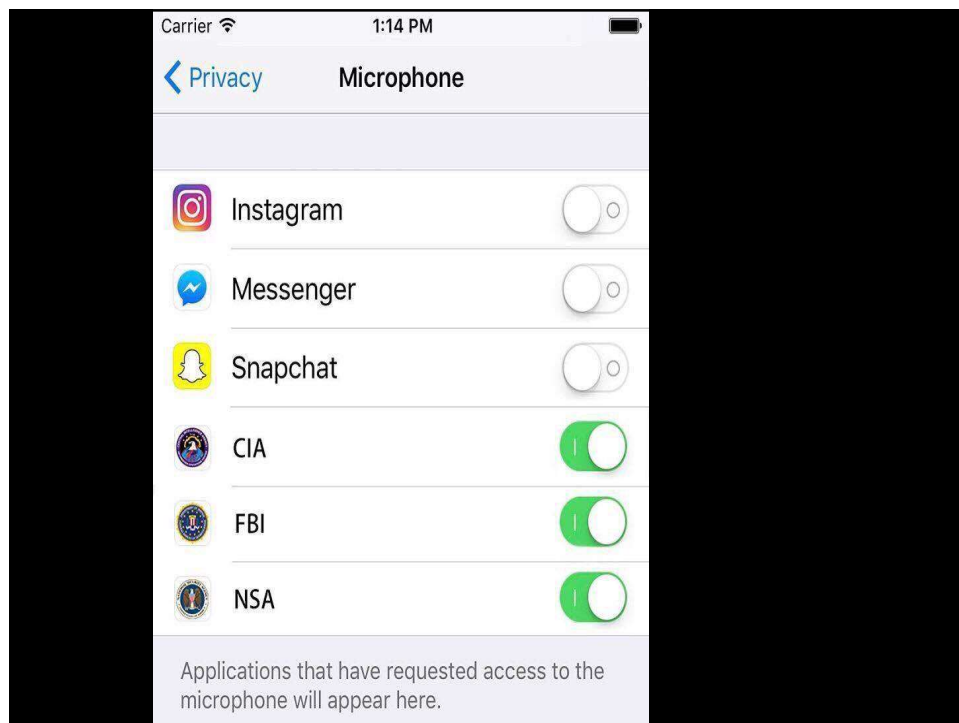
Bluetooth keyboard with trackpad



Big Brother is watching YOU



- Channels
- Shows
- Microphone
- Camera





TV Operating systems

- **Android** (2016 Sony, Phillips, some Sharp)
 - Voice search using smartphone
- **Tizen** (2016 Samsung)
- **Roku** (2016 TCL, Hisense, Haier, some Sharp)
- **Firefox** (2016 Panasonic)
- **WebOS** (2016 LG, older Samsung)
- **Linux** (some older Smart TVs)

- Picture in picture (PIP)
- 4K resolution
- 3-D display (often curved)
- Internet browser (Opera or Chrome)
- ChromeBit (computer on a stick)
- Streaming video (Roku, AppleTV, Chromecast, Amazon Fire TV)
- Screen mirroring (Smartphone)
- Smartphone as remote control
- Show photos or videos
- Full-featured computing





Connections

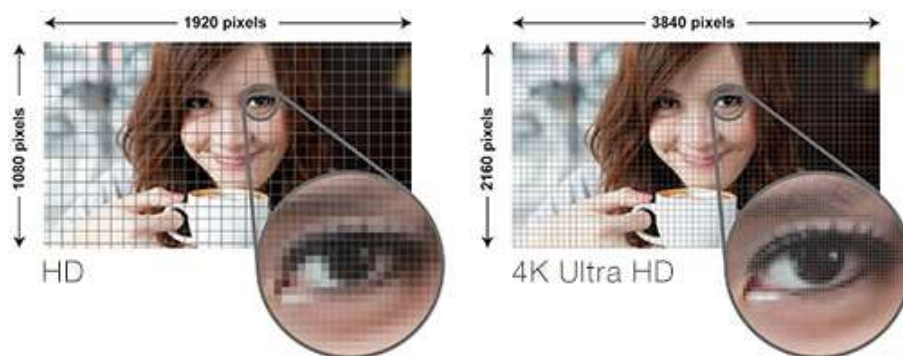
- HDMI (dongles, DVD player)
ARC=audio, STB=cable box, MHL=mobile device
- USB (keyboard, mouse, play movies, view pictures)
- 3.5mm phono jack (traditional headphones)
- Digital audio (modern headphones)
- Infrared (IR) – interface to remote control
- Bluetooth (no external connector)
- Side connectors easier to access



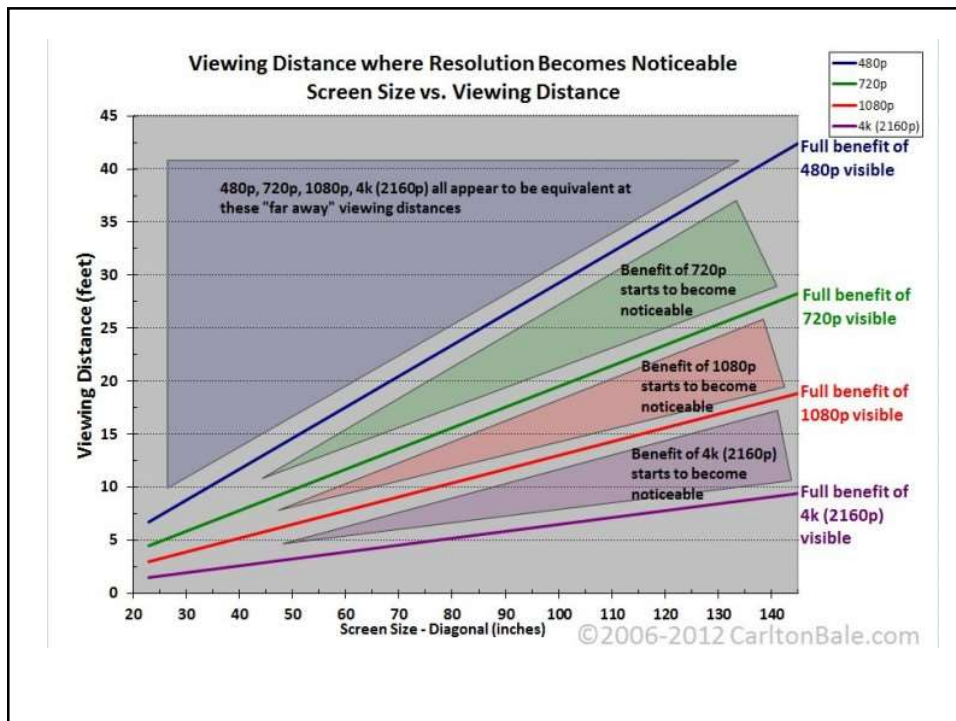
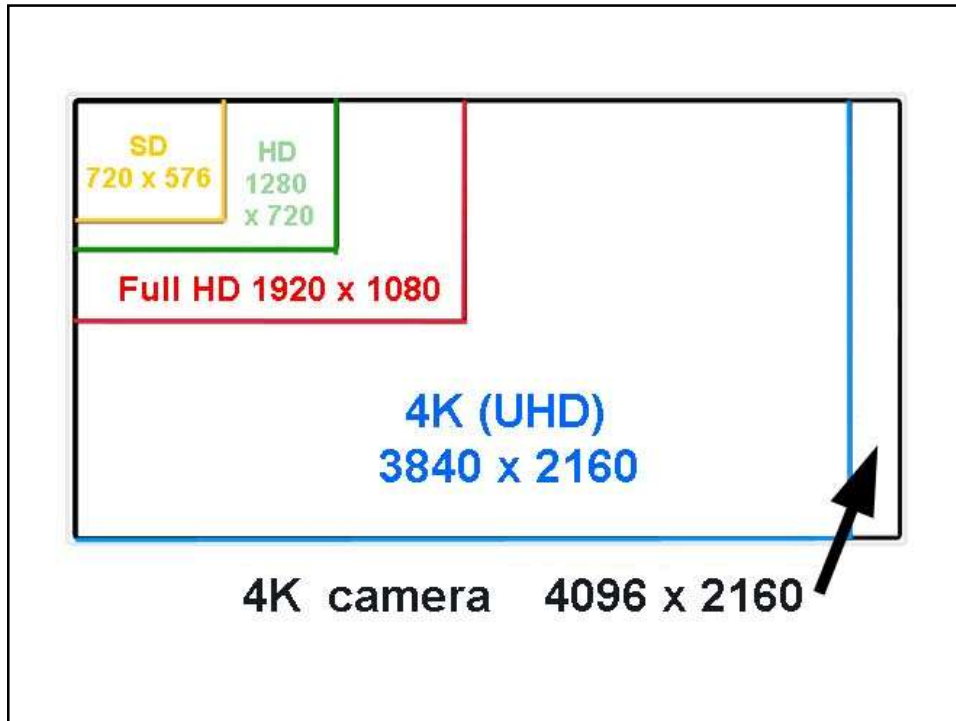
Picture in Picture



4K display



For more info visit <http://4k.com/resolution>



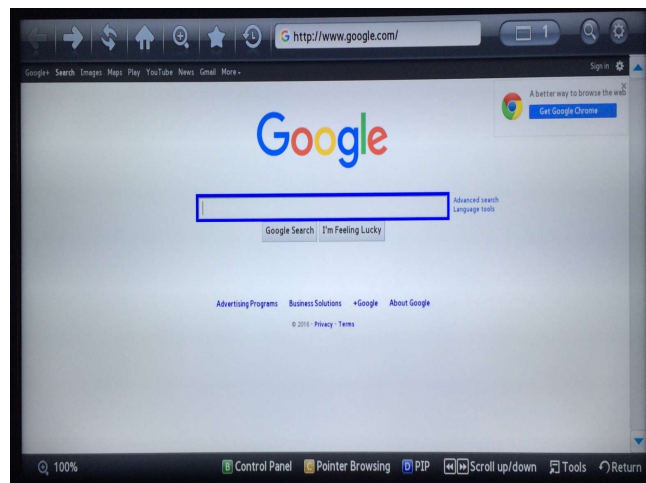
Superior color dynamic range



For more info visit <http://4k.com/resolution>

Internet browser

- Opera
- Chrome
- Oddball



ChromeBit

- Computer on a stick
- Chrome OS
- Android apps coming soon
- \$80 buys quad core, 2 GB of RAM
- TV must have HDMI port



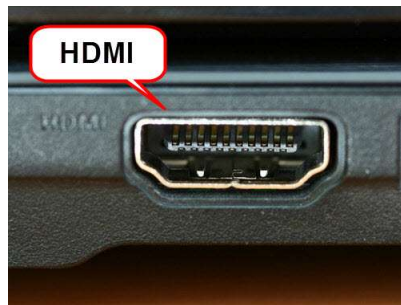
Set top box (streaming video)

- Only for video – no browsing or email
- Stream from cell phone or house WiFi
- Netflix, Hulu, Amazon Prime, etc.
- Roku
- Google ChromeCast
- Apple TV
- Amazon Fire TV

www.techforluddites.com/streaming-media-players-comparison-chart/

chromecast

- Stream video on old TV
- Device costs \$70
- TV must have HDMI port



tv

- Stream video on old TV
- Device costs \$200
- TV must have HDMI port



Screen mirror

- Display smart phone or tablet on TV
- Uses Wifi connection



Remote controls

Confusing and hard to use



Smartphone as TV remote

- Most TVs need a smartphone with IR emitter
- Some TVs can be controlled via Bluetooth



Show photos or videos

- From TV USB port
- Flash drive or portable hard drive



Full-featured computing

Not yet **2018**

JANUARY	FEBRUARY	MARCH	APRIL
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
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SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
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