



HPA

2026 | TECH RETREAT

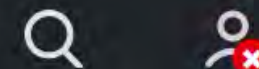
The Technology (?) Year in Review

Mark Schubin, SchubinCafe.com



Vera Rubin telescope lens

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🕒 MAY 22, 2025

Infrared contact lenses allow people to see in the dark, even with their eyes closed

by Cell Press

edited by Sadie Harley, reviewed by Robert Egan

✓ Editors' notes

Mind

People saw a new colour for the first time in 2025

Scientists found a way to let people perceive an intense blue-green hue unlike anything they had seen before – and the technique could help people with colour blindness

By [Carissa Wong](#)

 10 December 2025

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scientificamerican.com/article/breakthrough-in-digital-screens-takes-color-resolution-to-incredibly-small/

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SCI
AM

Breakthrough in Digital Screens Takes Color Resolution to Incredibly Small Scale

December 9, 2025 | 2 min read

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Breakthrough in Digital Screens Takes Color Resolution to Incredibly Small Scale

These miniature displays can be the size of your pupil, with as many pixels as you have photoreceptors—opening the way to improved virtual reality

BY [SIMON MAKIN](#) EDITED BY [SARAH LEWIN FRASIER](#)

560 nm pixels

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sciencealert.com/worlds-tiniest-pixel-shatters-records-but-theres-a-catch

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World's Tiniest Pixel Shatters Records... But There's a Catch

TECH 28 October 2025 By [DAVID NIELD](#)

300 nm pixels

Some Innovation Zone Technologies

- DNA storage
- Private 5G
- Blockchain
- Not-Reality
- Lots of AI



Right After the 2025 HPA Tech Retreat







BREAKING NEWS

HYATT HOTEL GUESTS EVACUATED AFTER FIRE

INDIAN WELLS

NEWS
CHANNEL 3

Disasters

Natural

- earthquakes
- fires
- floods
- hurricanes & tornados

More human-related

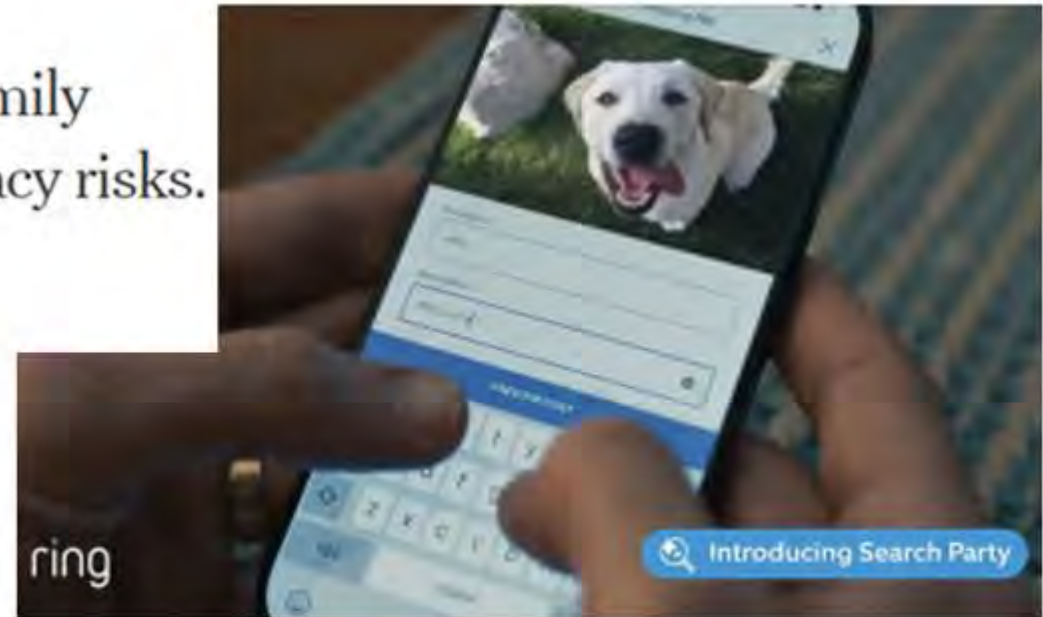
- audience whims
- politics
- strikes



The New York Times

Ring Ends Deal to Link Neighborhood Cameras After Super Bowl Ad Backlash

A commercial about a lost dog being reunited with his family ignited concerns that a “Search Party” feature posed privacy risks. Ring parted ways with the tech company Flock Safety.





Technology

NBC Sports Deploys 145 Cameras, 22 Mobile Units For Super Bowl LX Coverage

Feb 5, 2026 | George Winslow



Technology

NBC Sports Deploys 145 Cameras, 22 Mobile Units For Super Bowl LX Coverage

Feb 5, 2026 | George Winslow



Nearly 250 Sony Cameras Will Capture Super Bowl LIX's Biggest Plays

JAN 29, 2025 JEREMY GRAY

Super Bowl 60 Scores 125 Million Viewers, 2nd Most-Watched Big Game Ever

According to broadcaster NBCU, the game averaged 124.9 million viewers on NBC, Peacock, Telemundo, NBC Sports Digital, and NFL+, based on official live + same-day Nielsen big data + panel. It was down around 2.8 million viewers from Super Bowl 59 on Fox, which drew 127.7 million viewers to become the most-watched Super Bowl.

Meanwhile, the Apple Music Super Bowl LX Halftime Show featuring Bad Bunny averaged 128.2 million viewers from 8:15 p.m. to 8:30 p.m. ET. Though that's down from Kendrick Lamar, who drew an average of 133.5 million viewers across television and digital platforms for Super Bowl 59, NBCU noted that total social consumption (inclusive of fans, owned platforms, broadcast partners, influencers, etc.) of the halftime show set a record of four billion views after the first 24 hours, up 137% year over year, according to Ripple Analytics.

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🔧 DOWN, BUT NOT OUT

Cable channel subscribers grew for the first time in 8 years last quarter

Sports and YouTube TV played big roles, MoffettNathanson report says.

SCHARON HARDING – DEC 10, 2025 3:07 PM | 48



➔ Credit: Getty

Broadcast surges past cable with live sports, NFL coverage



Minnesota Vikings vs. Detroit Lions (NurPhoto/Getty Images)

Broadcast television experienced robust growth in November, capturing a 23.2% share of total TV usage and outpacing cable for the third consecutive month. Driven largely by a 30% surge in sports viewership, particularly from NFL and college football, broadcast networks saw their strongest performance since last November. Despite sports occupying only 3% of broadcast programming by duration, it accounted for a commanding 37% of viewership, underscoring the genre's outsized influence on

broadcast gains.

Full Story: [TV Tech](#) (12/16)

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The Post Most

**Stephen Colbert says CBS blocked
interview with Texas Democrat
over FCC concerns**



The FCC chairman refused to disown his comments about Kimmel and, when questioned by Democrats about an agency long considered autonomous, suggested it was not insulated from Trump's pressure.

"The FCC is not an independent agency," Carr said.

Carr later sidestepped questions about whether he considered the Republican president to be his boss and whether he had taken orders from Trump or his inner circle.

"President Trump has designated me as chairman of the FCC," Carr added later. "I think it comes as no surprise that I'm aligned with President Trump on policy."





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The FCC's Mission

The Federal Communications Commission (FCC) regulates interstate and international communications by radio, television, wire, satellite, and cable in all 50 states, the District of Columbia and U.S. territories. An independent U.S. government agency overseen by Congress, the Commission is the federal agency responsible for implementing and enforcing America's communications law and regulations.



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Before Carr's testimony

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After Carr's testimony

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TECHNOLOGY

Trump Signs Executive Order That Will Effectively Ban Use Of TikTok In the U.S.

AUGUST 6, 2020 · 11:21 PM ET



Bobby Allyn

whitehouse.gov/fact-sheets/2025/09/fact-sheet-president-donald-j-trump-saves-tiktok-while-protecting-national-security/



THE WHITE HOUSE

WASHINGTON

↶ FACT SHEETS

Fact Sheet: President Donald J. Trump Saves TikTok While Protecting National Security

The White House

September 25, 2025



Trump renews threat to impose 100% tariffs on non-US made movies

29 September 2025

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Pritti Mistry

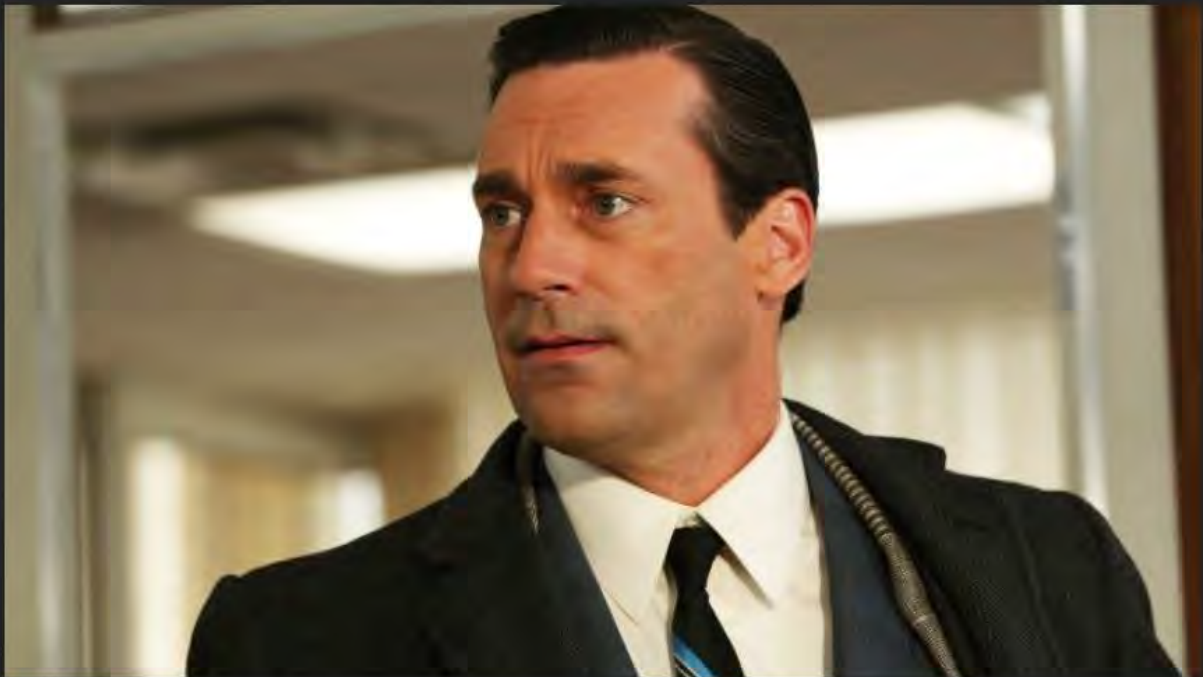
Business reporter

 MAD MIX-UP

Mad Men's 4K debut botched by HBO Max streaming episode with visible crewmembers

Producer Lionsgate reportedly contributed to the gaffe.

SCHARON HARDING – DEC 2, 2025 4:52 PM | 88



➞ Credit: Lionsgate



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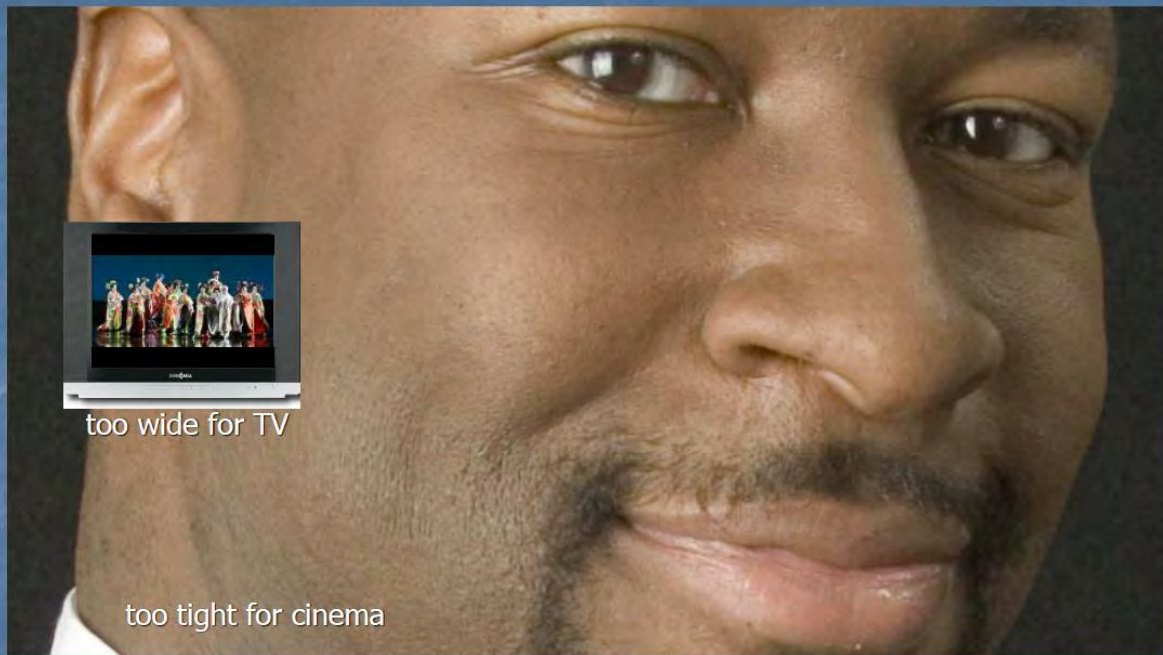
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LIVE Live updates: US-Venezuela Sen. Mark Kelly NFL head coach firings Tim Walz \$3.2 million bluefin tuna

WORLD NEWS

Finnish children learn media literacy at 3 years old. It's protection against Russian propaganda

Framing & Cutting Are Different



too wide for TV

too tight for cinema

Relative Visual Sizes

32-foot-wide
movie-theater
screen @ 30 feet



60-inch 16:9 TV
at 9 feet

1.4-inch TV @ 18 inches



27-inch 4:3 TV
at 9 feet



2.5-inch TV @ 18 inches



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HPA Tech Retreat 2026 Conference Program. **Schedule is subject to change.**

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