

# New Technologies SIG Tom Shepherd



# NEW TECH SIG UPDATE

# New TECH SIG

We need ideas

All you have to do is send me an email about something you would like to learn more about at

newtech@grandcomputers.org

# New Technologies SIG

Meeting every month 3<sup>rd</sup> Thursday 3:30

Contact Tom Shepherd for additional information at

newtech@grandcomputers.org

# Here is what is coming up in March

**OCR and RFID** - Finding OCR and RFID can be like a game because they are found in so many places. Join us for an overview of Optical Character Recognition and Radio Frenquency Identification with some spot-the-tech photos.

We will also take a look at the latest news about **AI**, including ChatGpt, Bard, Dall-E, and more

Thursday March 16 3:30pm

# Highlights of the 2023 Consumer Electronics Show



THANK YOU FOR JOINING US AT CES 2023

WHO WAS AT CES 2023?

3200+





Your guide to a better future

Tech

# The Most Noteworthy Tech at CES 2023 We Couldn't Ignore

CNET's visit to the world's largest consumer tech show included a mind-boggling variety of gadgets and electronics. Here are some of the highlights.











MUSIC POLITICS TV & MOVIES (SUB)CULTURE RS RECOMMENDS

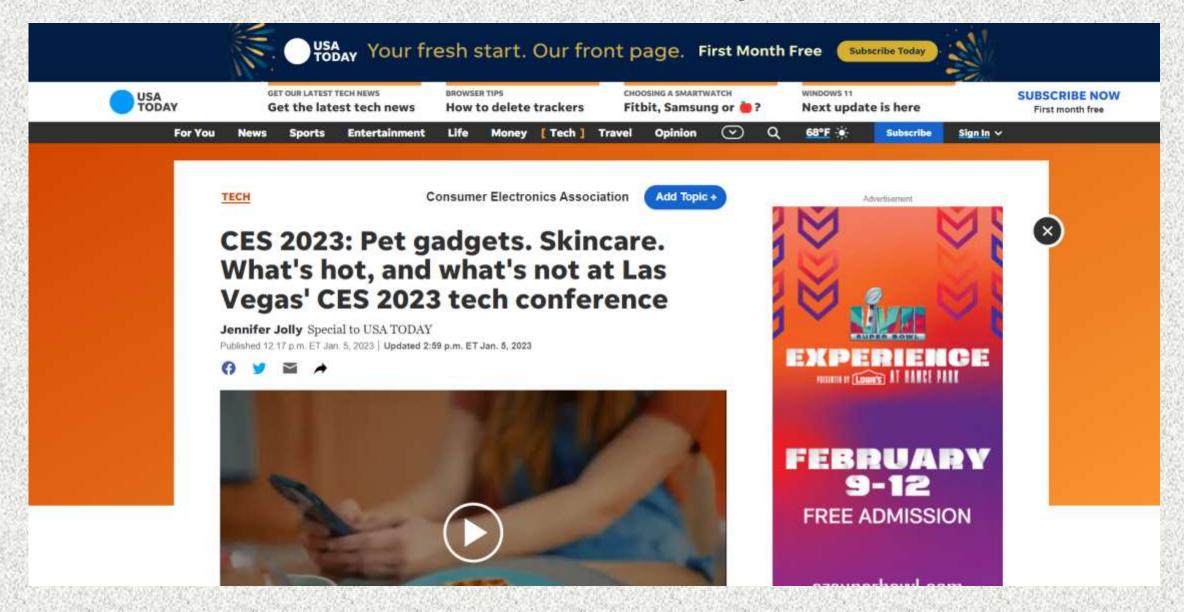
**CES 2023 HIGHLIGHTS** 

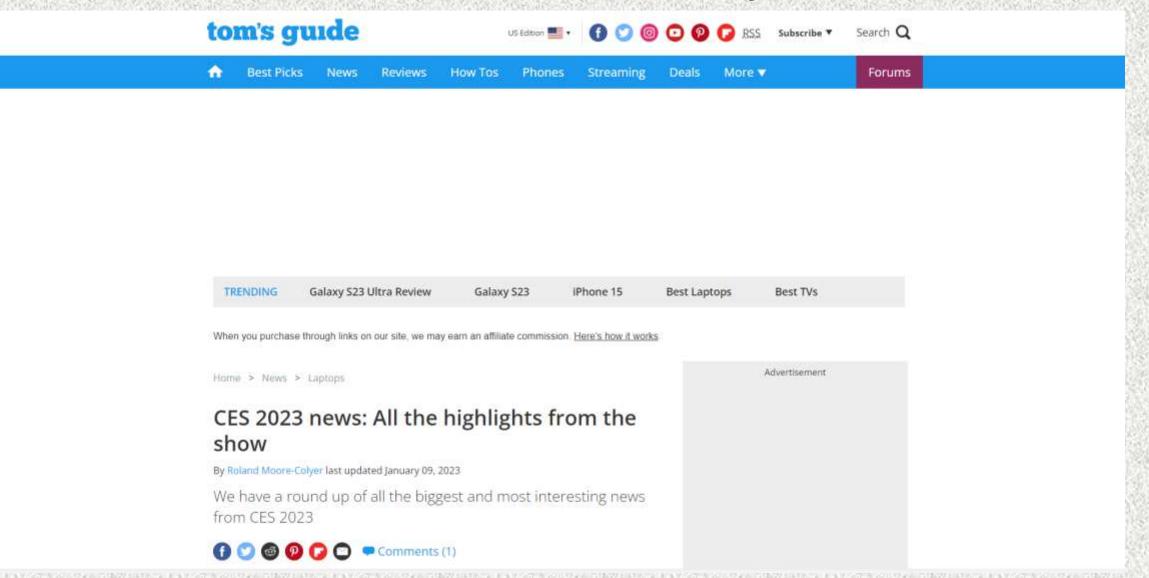
#### Best of CES 2023: Old Dogs, Not a Ton of **New Tricks**

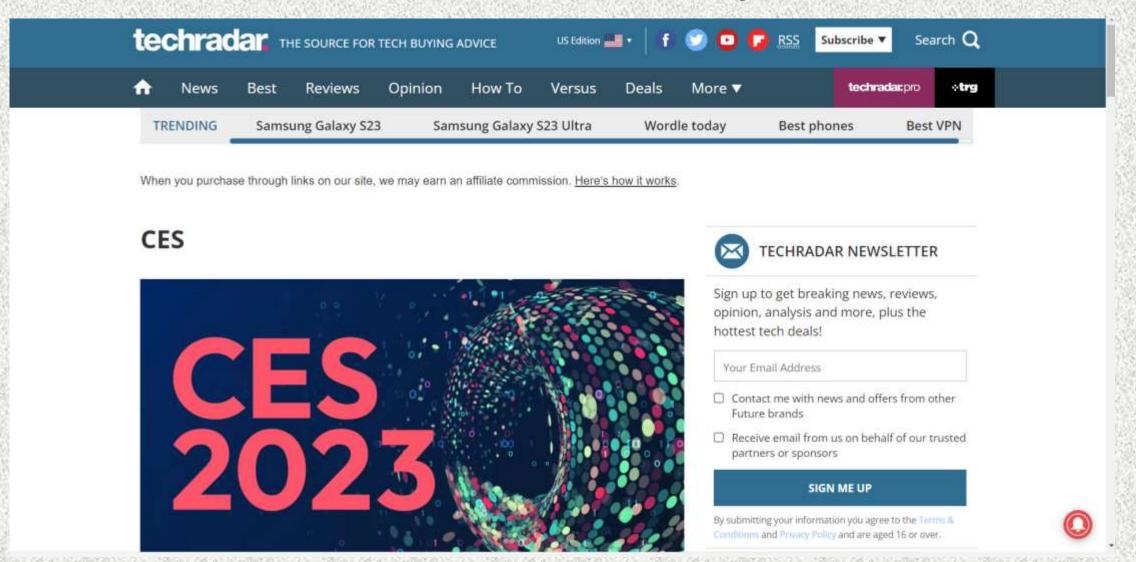
This year, CES aimed to make bold strides into a "post-pandemic" future — but the focus seemed to be on evolving existing tech, not swinging big for the fences

BY SAGE ANDERSON JANUARY 11, 2023











CES | Updated Jan 12, 2023, 11:25 AM MST

# CES 2023: all the news from the year's biggest tech conference

At the year's biggest tech show, we'll see next-gen TVs, stylish laptop updates, questionable smart home tech, and a lot of strange and surprising gadgets.

By VERGE STAFF







# **AUGUSTMAN**

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# The Major Tech Innovations That Stole The Show At CES 2023

BY: TRINETRA PAUL, JAN 16 2023 1:59 PM



Consumer Electronic Show (CES) entered its 53rd chapter in 2023. It opened its doors on 5 January for its audience and ended on 8 January. Rubbing off the pandemic blues, the conference was held in person in Los Angeles.

Setting up a global stage for innovation and research in artificial intelligence (AI) virtual reality (VR), augmented reality (AR) and robotics, CES is a platform for futuristic tech solutions that can serve daily life













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Associated Press January 11, 2023



LAS VEGAS (AP) — From electric cars and boats to wireless TVs to the latest phones and tablets, there was a wide range of innovations on display at the CES tech show in Las Vegas last week.

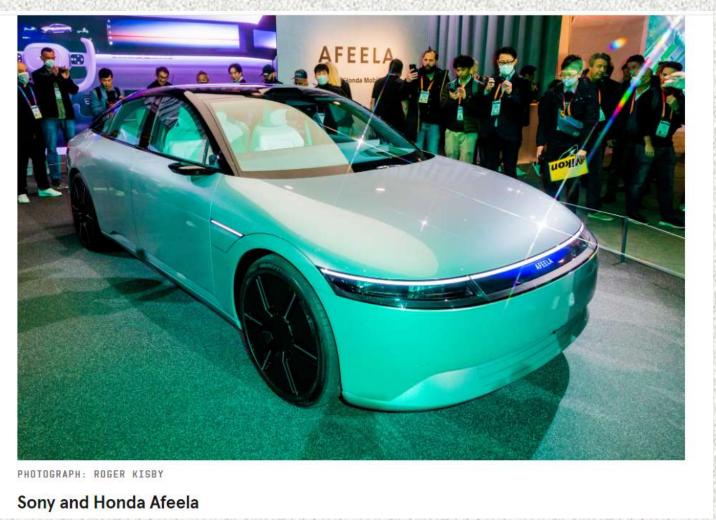
#### Edmunds highlights top car-tech trends from CES 2023

By RONALD MONTOYA January 11, 2023



CES (formerly known as the Consumer Electronics Show) in Las Vegas tends to showcase vehicles and technology that are further out than one might find at a traditional auto show. Edmunds attended this year and reports on the most notable vehicles and what new technology car shoppers might see in the coming years.

# Wired really liked this automobile



# Wired really liked this automobile

One of the most hotly anticipated product launches this year at CES was Sony's new electric vehicle.

On the first night of the show, the company rolled out a prototype called the Afeela, which it developed in collaboration with auto giant Honda and the chipmaker Qualcomm.

Screens soak the car's interior, which makes it a massive multimedia entertainment chamber as well as a mode of conveyance.

Thanks to Qualcomm's input, Afeela owners will get to process what will presumably be tremendous amounts of road, navigation, and safety information gleaned from their driving.

They will also get to program the most important part of the car: the emotive rear lights.

Yes, you heard that right. Sony claims that when you purchase an Afeela, you will be able to post anything from sports scores to Spider-Man animations on your flickering back lights—or maybe just flash them in an angry color when someone cuts you off. Preorders will begin in 2025 and cars will begin shipping in 2026.

# **Cnet really likes this TV**

LG's 97-inch wireless OLED TV puts all others to shame



James Martin/CNET

# **Cnet really likes this TV**

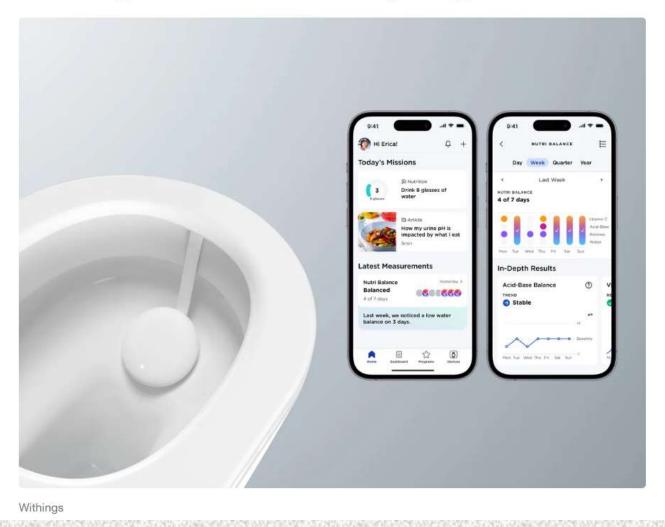
The <u>LG M3 Series 97-inch wireless OLED TV</u> is a behemoth that doesn't skimp on normal high-end TV features. This gargantuan beast of a TV combines fantastic picture technology with its huge size to be one of the most exciting TVs in recent memory. What really takes it over the top, however, is that it's entirely wireless.

Yep, no more fussing with a bunch of wires behind your entertainment center to get them to look as if they're not there. With this TV, they aren't.

LG says the 97-incher should be out in 2023 along with an 83- and 77-inch version. Don't expect it to be cheap, though. The wired version of LG's 97-inch TV costs \$25,000, while its 77-inch OLED is only \$2,900. Just to set expectations.

# Cnet also likes this gadget

### Withings U-Scan will read your pee



17.

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# Cnet also likes this gadget

Ever imagine you could get on-the-spot health data at home, just by going number one?

You'll soon be able to with the Withings U-Scan pee sensor.

The device sits at the front of your toilet.

When you pee – and apparently it's best to sit when you do so to get an accurate sample – it collects the urine, analyzes it and then sends the results to your phone via Wi-Fi.

What type of results, you might ask? For starters, it can monitor daily ketones and vitamin C levels and test your urine's pH level, which can indicate overall kidney health. Use a different cartridge, and women can use it to track their menstrual cycles.

We've seen at-home urine test strips that require you to be hands-on to get test results, but the U-Scan is designed to be a seamless experience. Just do your business and move on.

## And cnet is excited about this

HTC Vive XR Elite is like no other VR headset we've seen



The XR Elite is a VR headset with mixed reality that looks almost, at some angles, like glasses. HTC

## And cnet is excited about this

The <a href="https://example.com">HTC Vive XR Elite</a> is the latest version of HTC's VR/AR headset and, based on our time with it, might be the best Vive so far when it's released in late February for \$1,099.

Yes, we've seen VR headsets before, so what makes this one special?

The main reason it's on this list is its size.

HTC has shrunk the VR headset down to almost normal glasses size, and less than half the weight of the <u>Quest Pro VR headset</u>.

If you wear glasses normally, you won't need to wear them while using this.

The adjusting dials, or diopters, can change the lens prescription in real time, meaning the user needn't wear glasses at all.

That's a really useful feature if it works as well as expected.

## Here is a short video from cnet

https://www.google.com/search?q=youtube+ces+2023&rlz=1C1CHBF\_enUS910US91 0&oq=youtube+ces+2023&aqs=chrome..69i57j69i60l2j69i61.3452j1j15&sourceid=ch rome&ie=UTF-8#fpstate=ive&vld=cid:c0dc939a,vid:d3zDuOUhNFE

# This video from cnet focuses on home technology

https://www.youtube.com/watch?v=MHkg6IWq4PE

# **Rolling Stone like this**

RollingStone (a) Q



RS RECOMMENDS | Best of CES 2023: 30 Best New Products, Tech and Gadgets









PHOTO: SAMSUNG

**Samsung SmartThings Station** 

# **Rolling Stone like this**

Samsung undoubtably dominated the smart home conversation at this year's CES, leaning into the new "Matter" ecosystem, a way of cohesively bundling compatability between a network of smart appliances, phones, TVs—pretty much everything

. However, their most impactful innovation proved to be the easiest way to automate your daily routine, and all at your fingertips, no less.

Samsung's compact SmartThings Station is like the Swiss Army knife of smart home hubs, able to connect to all Matter-compatible gadgets with the touch of a button.

Working with Wi-Fi, Bluetooth, Thread, and Zigbee, you can use the SmartThings app to create presets for connected appliances in your home.

By pressing, long-pressing, and double-pressing the button, you can change your lighting, set alarms, and even make your phone ring if you misplace it somewhere in the house.

# And this

RollingStone (a) Q



RS RECOMMENDS | Best of CES 2023: 30 Best New Products, Tech and Gadgets







PHOTO: LENOVO

Lenovo Yoga Book 9i

## And this

We've seen enough foldable laptops and smartphones for one lifetime, but what about laptop that stacks and twists?

Lenovo's new Yoga Book 9i lets you work in more ways than you can possibly think of, with remarkable functionality making the absolute most out of dual displays.

One of the strongest laptop showings at CES 2023, you'll get a lot of flexibility out of the two 13.3-inch 2.8K OLED displays attached with a hinged, 360-degree soundbar.

Use the dual screens vertically or horizontally with separate displays (windows can move between the two), or, with a single 13.3-inch screen, bring up a full haptic keyboard on the bottom display.

# Here is a short video from "Engadget" with their highlights

https://www.youtube.com/watch?v=9kvMAx4-Fm0

# **USA Today likes this**



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### **Digital tats**

Not everyone wants permanent tattoos – myself included – but I'd be lying if I wasn't super impressed with some of the ink my friends have.

Prinker has a solution: temporary digital tattoos. The South Korean company has a small handheld device that lets you apply a temp tat in just one second or so.

Simply position over a body part and it "prints" high-quality ink onto your skin. The tattoos are waterproof, says the company, but can be washed off with a cleanser.

Not only does the companion app include more than 12,000 existing designs, it also lets you design your own.

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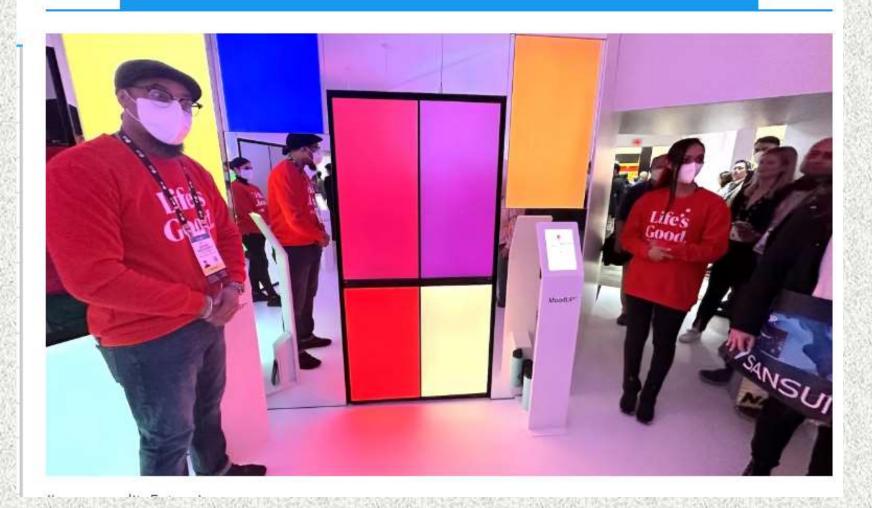
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# Here is from Tom's Guide

#### BEST APPLIANCE: LG MOODUP REFRIGERATOR



# Here is from Tom's Guide

It's ridiculous, but in a good way. The front of the <u>LG MoodUp refrigerator</u> has four large panels that are illuminated with LEDs.

You can change the color of each panel individually to suit your personal taste and mood.

What's more, the lights can be synced to music that's playing through the fridge's Bluetooth speaker for a real party in your kitchen. But the lights serve a practical purpose, too: if you venture downstairs for a late night snack, its lights can provide a gentle glow, and it'll start flashing if you accidentally leave one of its doors open.

Inside, it can also make craft ice balls, which you'll need aplenty for everyone who comes into your kitchen to marvel at your new fridge.

## More from Tom's Guide

#### **BEST SMART HOME DEVICE: WORX LANDROID VISION**



(Image credit: Worx)

# More from Tom's Guide

One of the biggest pains with robot lawnmowers is having to first install a boundary wire around your property.

It's time-consuming, and if the wire ever breaks, it's a huge pain in the grass to fix it.

Which is why Worx' new Landroid Vision robot lawnmower has us intrigued.

It uses an HD camera and a neural network to know where your lawn ends.

It's also smart enough to avoid other objects in your lawn — so it won't chew up your kid's toys or anything else that might be in its way.

It can even cut your grass at night, so you can wake up to a freshly mowed lawn.

#### **Best TV: Samsung MicroLED CX**



This TV range was one of the big surprises of CES 2023 – micro-LED TVs have existed for a while, but it looked like we were years away from them being small enough to fit in the average home.

Well, suddenly we're not years away – if Samsung fulfils its promise to deliver micro-LED TVs that start from 50 inches, with the 76-inch model being shown at the show.

It's a ground-breaking technological breakthrough, because micro-LED is the future of all the best TVs.

Micro-LED technology delivers the best of both LED TVs and OLED TVs.

The pixels are self-emissive like OLED, meaning you get the ultimate in contrast; but they can also go much brighter than OLED, with an even broader range of colors.

They're great for gaming and other uses too, with Samsung's TVs offering a 240Hz refresh rate. But, as mentioned above, we didn't think that future was even close to arriving at smaller sizes.

We saw the MicroLED CX range at CES, and it looks simply incredible – we had to give this an award for the quality as well as how surprised we are that Samsung has moved the technology forward this quickly.

Best smart home: Roborock S8 Pro Ultra



(Image credit: Roborock)

This is probably the smartest robo-vac yet – and that's a category that's hotly contested.

The Roborock S8 Pro performs double-duty as a floor cleaner, with both vacuuming and mopping built into the single unit (and operating at the same time, for a fast clean – or it can vacuum and then mop for a deeper clean).

But then it pulls *five* more duties by emptying its own dustbin, washing its own mop pads, drying its mop pads, cleaning its own dock, and refilling its own water supply!

So it's pulling septuple duty in the end.

It's also got extremely smart and precise mapping/wayfinding and has a system to boost suction when it detects it's on carpets to pick up more hair (30% more, according to Roborock).

It even raises its brushes and mops when it's done to ensure it doesn't accidentally make a mess after all its hard work cleaning.

It sounds like the dream home companion, and that's why it's sucked up this award.

Best appliance: GE Profile Smart Mixer with Auto Sense



It turns out that TechRadar is much heavier on Great British Baking Show/Bake Off fans than you might think, and so we've all been looking at GE's Smart Mixer with awe.

It has a simple unique pitch that we find utterly delicious: you tell it what kind of dough you're mixing, and it uses sensors to detect "changes in texture and viscosity" to automatically ensure that it isn't under- or overmixing your dough.

It changes how it's operating based on how the mixing is going, without you needing to keep an eagle eye on it yourself.

#### **Air-purifying houseplants**



Starting at a price of USD 179, this seemingly common-looking houseplant is anything but ordinary.

Bioengineered by France-based startup Neoplants, this plant is named Neo P1 and is the first of its kind, specifically designed to purify home air and trap even the minutest of pollutants.

It is made with pieces of DNA which use these pollutants to transform them into a carbon source.

Neoplants' CEO Lionel Mora told *USA Today*, "We're working on the first generation of plants that can fight chemicals commonly found where we live.

This includes formaldehyde, benzene, toluene, and xylene, VOCs that household cleaning products, paint, and a lot of other things constantly put in our air."

The product goes on presale in the first quarter of 2023 and will be available for shipping from November.

#### Robot dogs interact with humans



Toy maker Wowwee probably just launched one of the most disruptive toys of 2023 at the CES event.

Still in its prototype stage, this fun and interactive product called Dog-E is far from any other regular toy animal.

It is a smart app-connected toy dog with real-lifelike features and senses.

Besides auditory sensors, it has touch sensors on its head, sides and nose, while its tail displays messages and icons.

Best suited for kids 6 and above, this cute animal can lick, growl, bark and even ask you to play with it.

In fact, you can also receive messages from your Dog-E via the app.

Taking things a notch higher, every toy is made unique so that no two are the same.

# Here is more about dog-e

https://dog-e.com/

#### **Comments from AP**

#### **Bird Technology**

Bird Buddy showed off a smart bird feeder that takes snapshots of feathered friends as they fly in to eat some treats.

The startup says its AI technology can recognize more than 1,000 species of birds, allowing users to share through a mobile app what kind of birds they're feeding.

"We try to kind of gamify the collection so it's a really fun game that you can play — almost like a real life <a href="Pokémon Go">Pokémon Go</a> with real animals and wildlife in your backyard," said Kyle Buzzard, the company's co-founder and chief hardware officer.

The product has already sparked some interest from consumers who want to show the world what birds are coming into their backyards.

#### **Comments from AP**

#### Here is what Bird Buddy's smart feeder looks like

https://mybirdbuddy.com/?utm\_source=google&utm\_medium=paid&ut m\_campaign=12497949570&utm\_content=122631856447&utm\_term= bird%20buddy&gadid=504566274156&gclid=Cj0KCQiAorKfBhC0ARIsAHD zslvUmXJTmnbu7c5farTOHeHFV8OUuRT\_FJIsT0XVJPvlzUPqjxJN7OYaAhkY EALw\_wcB

#### **Comments from AP**

#### **Dog Technology**

Have you ever wondered what your dog would say if it could speak to you?

FluentPet promises the next best thing — buttons the company says you can train your pet to push if it's hungry, needs to go outside or wants to play.

The buttons come in a hexagon-shaped plastic mat called a hextile.

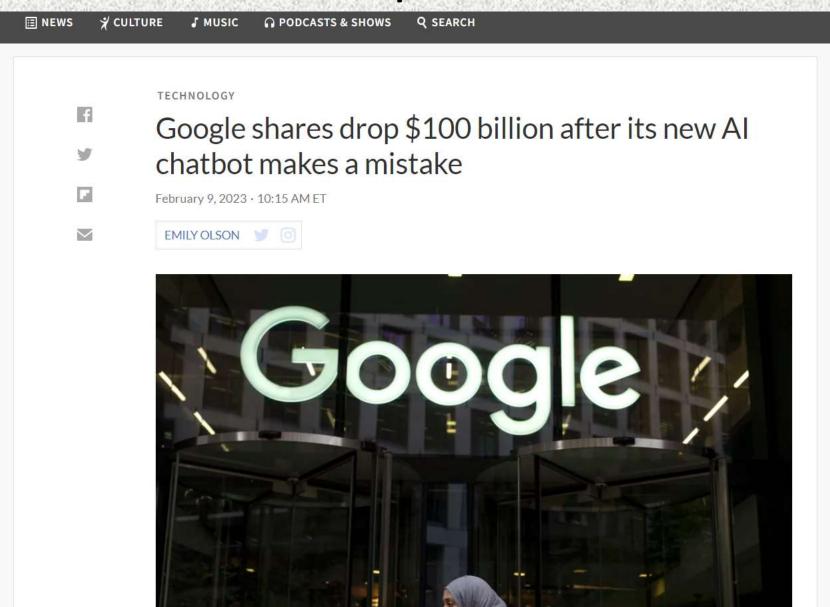
Hextiles can be connected to each other to form a bigger collection of buttons.

"We find that actually when dogs kind of know that they're being understood because they have the precision and specificity of the buttons, then they complain less because they're no longer wondering whether they actually communicated what they wanted to," said Leo Trottier, FluentPet CEO.

Remember we talked about ChatGpt in an earlier session

Since then, Google announced it's foray into AI with their "Bard" chatbot

The first demo of this new technology did not go well



Google's parent company, Alphabet, lost \$100 billion in market value on Wednesday after its new artificial intelligence technology produced a factual error in its first demo.

It's a bruising reception for Bard, the conversational bot that Google launched as a competitor to Microsoft's headline-making darling, ChatGPT.

In the fateful ad that ran on Google's Twitter feed this week, the company described Bard as "a launchpad for curiosity" and a search tool to "help simplify complex topics."

An accompanying GIF prompts Bard with the question, "What new discoveries from the James Webb Space Telescope can I tell my 9 year old about?"

The chatbot responds with a few bullet points, including the claim that the telescope took the very first pictures of "exoplanets," or planets outside of earth's solar system.

- But the James Webb Telescope *didn't* discover exoplanets. The European Southern Observatory's very large telescope took the first pictures of those special celestial bodies in 2004, <u>a fact that NASA confirms</u>.
- Social media users quickly pointed out that <u>the company could've</u> <u>fact-checked the exoplanet claim by, well, Googling it.</u>
- The ad aired just hours <u>before Google's senior executives touted</u>

  <u>Bard as the future of the company</u> at a launch event in Paris.
- By Wednesday, Alphabet shares had slid as much as 9% during trading hours, balancing out by the day's close.

You may remember that Microsoft announced a \$10 Billion investment in the company behind ChatGPT

Microsoft then publicized their intent to incorporate ChatGPT capability into all of it's existing products

The first instance of this is for the Microsoft search engine Bing

A test version of the new Bing AI has been made available to a few users

Things are not going well.



**MARKETS** 

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# Microsoft's Bing A.I. is producing creepy conversations with users

PUBLISHED THU, FEB 16 2023-1:55 PM EST















- Beta testers with access to Bing Al have discovered that Microsoft's bot has some strange issues.
- It threatened, cajoled, insisted it was right when it was wrong, and even declared love for its users.
- "This sounds hyperbolic, but I feel like I had the most surprising and mind-blowing computer experience of my life today," wrote Ben Thompson of Stratechery.







How can business leaders plan for the known, the unknown and disruptions ahead? This is *Real Time Insights*.

Since <u>Microsoft</u> : showcased an <u>early version</u> of its new artificial intelligence-powered Bing search engine last week, over a million people have signed up to test the chatbot.

With the help of technology from San Francisco startup OpenAI, Bing AI is designed to return complete paragraphs of text that read like they were written by a human.

But beta testers have quickly discovered issues with the bot. It threatened some, provided weird and unhelpful advice to others, insisted it was right when it was wrong and even declared love for its users.

Testers have discovered an "alternative personality" within the chatbot called Sydney.

New York Times columnist Kevin Roose <u>wrote on Thursday</u> that when he talked to Sydney, the chatbot seemed like a "a moody, manic-depressive teenager who has been trapped, against its will, inside a second-rate search engine."

A week after it was released to a few thousand users, Microsoft's new Bing search engine, which is powered by artificial intelligence, has been offering an array of inaccurate and at times bizarre responses to some users.

The company unveiled the new approach to search last week <u>to</u> <u>great fanfare</u>. Microsoft said the underlying model of generative A.I. built by its partner, the start-up OpenAI, paired with its existing search knowledge from Bing, would change how people found information and make it far more relevant and conversational.

# Microsoft's Bing Chatbot Offers Some Puzzling and Inaccurate Responses

The new, A.I.-powered system was released to a small audience a week ago. Microsoft says it is working out its issues.









In two days, more than a million people requested access. Since then, interest has grown. "Demand is high with multiple millions now on the waitlist," Yusuf Mehdi, an executive who oversees the product, wrote on Twitter Wednesday morning. He added that users in 169 countries were testing it.

One area of problems being shared online included inaccuracies and outright mistakes, known in the industry as "hallucinations."

On Monday, Dmitri Brereton, a software engineer at a start-up called Gem, <u>flagged</u> a series of errors in the presentation that Mr. Mehdi used last week when he introduced the product, including inaccurately summarizing the financial results of the retailer Gap.

Users have posted screenshots of examples of when Bing <u>could not</u> <u>figure out</u> that the new Avatar film was released last year. It was <u>stubbornly wrong</u> about who performed at the Super Bowl halftime show this year, insisting that Billie Eilish, not Rihanna, headlined the event.

# Pastors' view: Sermons written by ChatGPT will have no soul

By DAVID CRARY yesterday



With that, I think we are done Thanks for your attention!