

## Robots CAN'T fool humans (yet): It takes less than a second for people to spot even the most lifelike android, researchers find

- Team discovered mechanism called 'ensemble lifelikeness perception'
- This allows humans to spot differences between what's real and what isn't
- Researchers found the judgments could be made in just 250 milliseconds

By [CHEYENNE MACDONALD FOR DAILYMAIL.COM](#)

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They've grown to be freakishly lifelike, with micro-expressions, 'natural' movements, and even rosy cheeks, but androids are still a long way from passing as humans, according to a new study.

Researchers have discovered a visual mechanism known as 'ensemble lifelikeness perception' that allows us to spot the difference between real and artificial objects or people in less than a second.

While it was previously suspected that humans need to carefully consider the details to make such judgments, the study found that this all takes place in just 250 milliseconds.

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Science fiction would have us believe that humans can be fooled by the lifelike appearances of androids. But, humans can spot the difference in less than a second, a new study has found. Thandie Newton is pictured as Westworld android Maeve Millay

Science fiction scenarios like those seen in HBO's Westworld would have us believe that humans can be fooled by the lifelike appearances of androids.

But, the researchers from the University of California, Berkeley have found that, for now, this is not the case.

### WHAT THE STUDY FOUND

The researchers discovered a visual mechanism called 'ensemble lifelikeness perception.'

This allows humans to quickly differentiate between what's real and what isn't.

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In the study, published to the journal Nature Communications, the team conducted 12 experiments on a total of 68 healthy adults with normal vision.

Participants were shown up to a dozen images of random people, animals, and objects – including an ice cream sundae, a guinea pig wearing a shirt, a hockey player, a statue of a woolly mammoth, a toy car carrying toy passengers, and a caterpillar.

These images were shown quickly, some for less than 250 milliseconds, but after rating them on a scale of 10 to ten according to ‘average lifelikeness,’ the researchers found the participants were able to accurately make this assessment.

According to the researchers, the findings show that humans are wired to quickly differentiate between what’s real and what isn’t.

This ability, they say, is determined by a mechanism called ensemble lifelikeness perception.

While vision scientists have long thought that humans take time to carefully consider the minute details before determining if an object is real or not, the findings suggest otherwise.

Participants were able to make such judgments in less than 250 milliseconds.

The team also found that participants were able to make quick decisions about the liveliness of groups of objects, people, or entire scenes without focusing on the individual details.

And in memory tests, they found that while the participants forgot many of the individual details, their ‘ensemble perception’ of what was lifelike was intact.

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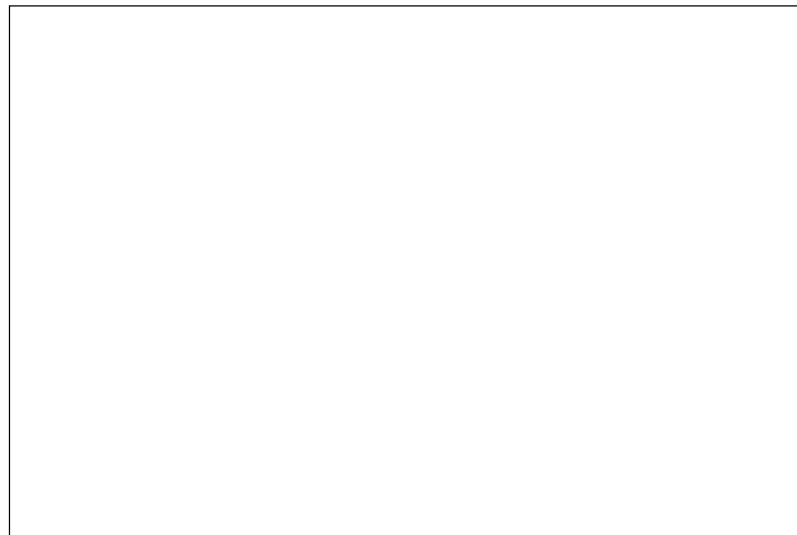


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‘This unique visual mechanism allows us to perceive what’s really alive and what’s simulated in just 250 milliseconds,’ said Allison Yamanashi Leib, lead author and a postdoctoral scholar in psychology.

‘It also guides us to determine the overall level of activity in a scene.’

While vision scientists have long thought that humans take time to carefully consider the minute details before determining if an object is real or not, the findings suggest otherwise.



According to the researchers, the findings show that humans are wired to quickly differentiate between what’s real and what isn’t. Pictured above is, Jia Jia a humanoid robot who is not only very pretty, but intelligent and quick-witted too

‘Our study shows that participants made animacy decisions without conscious deliberation, and that they agreed on what was lifelike and what was not,’ said study

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I call this: The One That Got Away': Twitter users praise Bella Hadid's stunning appearance as she strutted past ex The Weeknd

Tom Ford refused to dress Melania Trump and says his clothes are 'too expensive' for her to wear as first lady

senior author David Whitney, a UC Berkeley psychology professor.

'It is surprising that, even without talking about it or deliberating about it together, we immediately share in our impressions of lifelikeness.'

The team also found that participants were able to make quick decisions about the liveliness of groups of objects, people, or entire scenes without focusing on the individual details.

This, they say, is something we do every day.

## THE HUMANOID 'ROBOT GODDESS' JIA JIA

Jia Jia is a humanoid robot who is not only scarily lifelike, but intelligent and quick-witted too.

The female robot has been called a 'robot goddess' by her hordes of online fans, and some who met her at a recent exhibition were taken aback by her lifelike appearance.

It took the team three years to complete the robot, which can speak, show micro-expressions, move its lips and body, yet seems to hold its head in a submissive manner.

### China's newest interactive robot responds to human orders



The humanoid is programmed to recognize human/machine interaction, has autonomous position and navigation and offers services based on cloud technology.

This humanoid has natural eye movement, speech that is in sync with its lip movement and refers to its male creators as 'lords'.

'In real life, tourists, shoppers, and partiers all use visual cues processed through ensemble perception to gauge where the action is at,' said Yamanashi Leib.

In the study, the researchers also tested the participants' memory for details, flashing images and then showing them ones that they had seen, and ones they had not.

This revealed that, while the participants forgot many of the finer details, their 'ensemble perception' of what was lifelike was intact.

'This suggests that the visual system favours abstract global impressions such as lifelikeness at the expense of the fine details,' Whitney said.

'We perceive the forest, and how alive it is, but not the trees.'

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Showed off her distinct style

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For now.

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Probably evolved because animals need to quickly determine what is a threat and what is not to avoid becoming lunch....

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seismick, Birmingham, United Kingdom, 2 days ago

So why did they give Jia Jia large breasts? I derive that the team that built her were mostly male, as I doubt if it was to help with its balance mechanism.

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TodoLFC, Pamplona, Spain, 2 days ago

Who cares if it's a robot, so long as it has big Boo bs!!

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	It takes me even less time to spot those plastic people on Reality TV			
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	Obviously they have not tried it on Hillary's supporters			
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Stint behind bars

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The 30-year-old - who boasts 20M followers took to Instagram

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What's going on hair? Joan Smalls suffers an embarrassing fashion blunder as her extensions come loose and stick to her leg after Victoria's Secret Show

All tied up! Lily Donaldson wows in racy caged one-piece before switching to flirty candy pink lingerie set and giant wings at the Victoria's Secret Show

Bar Refaeli keeps her post baby body under wraps in stylish military green winter coat as she steps out in Madrid  
Stepped out in smart military green



► **An Angel's delight!**  
Busty Gigi Hadid can't contain her excitement as she enjoys burgers and cocktails after the Victoria's Secret Fashion Show

► **Now that's a working mum!** Pregnant Marion Cotillard covers her bump in edgy black outfit at Assassin's Creed photocall with Michael Fassbender

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Felicity Jones surprises Jimmy Fallon with her Rogue One kung fu skills on The Tonight Show  
Showed off her fighting moves

► **Cressida takes centre stage!** Harry's ex Ms Bonas showcases her acting skills as she stars as Daisy in a new West End production of The Great Gatsby

► **Newly single Gerard Butler flirts with mystery brunette in Beverly Hills**  
The 47-year-old Scotsman appeared to know the lady quite well

► **Friends with benefits!**  
Jennifer Aniston admits joining the mile high club on Ellen... and she had more than one induction  
The Friends actress revealed some secrets

► **Forget running, it's all about the weights!**  
Fitness guru and bikini model reveals she does NO cardio - and says she's able to control her body fat using her diet

► **Kate Hudson goes chic in Boho maxi dress alongside mother/daughter duo Demi Moore and Rumer Willis at Gwyneth Paltrow's goop pop-up**

► **Night off! Nina Dobrev joins her xXx: Return Of Xander Cage co-star Vin Diesel at party in São Paulo ahead of Comic Con panel**  
Promoting the new film

**Giddy up Mommy!**  
Jennifer Garner treats her delighted four-year-old son Samuel to a piggyback ride  
Could not stop smiling





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y! Mötley Crüe rocker  
Nikki Sixx's wife  
Courtney shows off her  
perky cleavage in  
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Rihanna! Beaming  
prince is delighted to  
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Barbados as he helps  
the country toast 50  
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Fergie flashes her  
curves in a racy latex  
bodysuit and thigh high  
boots as she performs  
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Jim Carter fights back  
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files for divorce from  
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Alba and Nicole Richie  
put on the style for  
Rachel Zoe's Hollywood  
bash  
Alba wore a stylish  
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parsecs! Harrison Ford  
gets back into the  
cockpit after  
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with Carrie Fisher was  
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Jennifer Lawrence, 26,  
sparks engagement  
rumours with new ring  
as romance with Darren  
Aronofsky, 47, heats  
up... but her rep denies  
it](#)

▶ [A vision in white!](#)  
Kendall Jenner displays her toned figure in a slinky silk slip dress as she celebrates Victoria's Secret Fashion Show in Paris

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Bella Hadid flashes her underwear and cleavage in a sheer plunging dress as sister Gigi wears a matching cut-out chainmail gown

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as she joins Jason Statham on the New Zealand set of deep sea thriller Meg  
Taking a shooting break

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(and you can still drink Prosecco and eat pavlova)  
You can still be festive!

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Recovering

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More mature friends

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She was wearing a glamorous ball gown

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▶ [Time to eat! Bella Hadid heads out for burgers in a mini-dress and fur coat after closing out VS Fashion Show](#)  
Showcased her endless slender stems



► Lily Aldridge sends pulses racing in skimpy blue bra before changing into metallic lingerie as she struts down Victoria's Secret Fashion Show runway

► Such a gem! Stella Maxwell lights up the runway in a bejewelled sheer bodysuit as she struts her stuff at Victoria's Secret Fashion Show in Paris

► Not on the ropes! Hayden Panettiere and fiance Wladimir Klitschko cuddle up at the opening of Faena Art Dome in Miami following split rumours

► No plus one needed! Larsa Pippen embraces the single life as she sizzles in a tight mini dress  
She showed ex Scottie Pippen what he's missing

► 'I'm wasted': Lena Dunham gets drunk after indulging in less than two glasses of wine...after revealing extent of health troubles  
Had three surgeries

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The 25-year-old was in Miami

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Fresh off promoting the new 5th avenue store

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► Such a mummy's boy! Charlie Sheen poses with 'stepmother' Leah Remini in Mad Families still... his first project since revealing he is HIV Positive

► Justin who? Sofia Richie hugs mystery man at favoured restaurant as model continues to move past Bieber  
Who is he?

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The bend and snap! Bella Thorne performs notorious Legally Blonde maneuver as she wears cropped turtleneck and bell bottoms

▶ Did her best Elle Woods

▶ Thigh's the limit!  
Shanina Shaik puts on a  
leggy display in racy  
boots and leather mini  
skirt as she attends  
Miami Beach Kick-Off  
Party

▶ Fashion upgrade! Eva  
Longoria tops up grey  
sweats with chic black  
coat and fedora as she  
jets into New York  
The 41-year-old Over Her  
Dead Body star

▶ Busty Kelly Gale  
flaunts EXTREME  
cleavage as leggy  
Bridget Malcolm keeps  
it modest at Victoria's  
Secret Fashion Show  
On the runway

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well': Demi Lovato talks  
about living with bipolar  
disorder as she raises  
awareness for mental  
health issues  
Opening up

▶ Love is in the air! Milla  
Jovovich's husband  
sweetly takes her hand  
as they jet out of LA  
ahead of Resident Evil  
press tour  
Off to Brazil

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time frame': Kelly Ripa  
reveals search for co-  
host remains open-  
ended on Bravo's  
WWHL  
No time limit

▶ 'He's so much like his  
dad': Proud mum Terri  
Irwin gushes about her  
son Robert's similarities  
to late husband Steve...  
after the 13-year-old  
was bitten by a snake

▶ Shimmering beauty!  
Kelly Gale flaunts trim  
pins and ample  
cleavage in a metallic  
thigh-skimming frock at  
the Victoria's Secret  
After Party in Paris

▶ Georgia Fowler goes  
BRALESS in sheer  
dress at Victoria's  
Secret Fashion Show  
after party... after  
impressive runway  
debut in Paris

▶ Scorching hot!  
Josephine Skriver  
sizzles as she flaunts  
her cleavage in extreme  
plunging thigh-high  
split gown as she joins  
fellow VS models at  
after-party

▶ Alessandra Ambrosio  
stuns in plunging black  
gown while Adriana  
Lima is radiant in white  
as Victoria's Secret  
models celebrate in  
style after show

▶ Baby, it's cold outside!  
Kyle Richards wraps up  
warm in cosy jumper  
and fringed brown  
boots as she gets ready  
for Christmas  
In LA

► Newly single and ready to mingle! Hilary Duff flashes a smile as it's revealed she has split from Jason Walsh after just five months of dating

► Beyonce gives look at private family life in new music video including cute footage of Blue Ivy feeding Jay-Z cake  
She released a new music video

► Looking all white! Solange Knowles wraps up in bizarre gown as she attends Jazz opening in New York  
Was the Gala Honorary Chair

► She's got some front! Kate Beckinsale takes the plunge in cutaway red dress at Underworld: Blood Wars premiere in Mexico  
Turning heads in red

► Bringing her Bell! Kate Mara flaunts figure in mini dress as she poses with beau Jamie at Man Down premiere  
Nothing more beautiful than young love

► Suited and booted! Jai Courtney cuts a dapper figure in chequered jacket as he takes to the red carpet for Man Down premiere in Los Angeles  
Known for rugged roles

► Suits you! Fergie shows off her toned legs in a romper-style tuxedo as she attends New York gala  
Two Ten Footwear Foundation dinner

► Kris to the rescue! Jenner cancels appearance at Art Basel party to be with Kanye West after his breakdown  
Pulled out of appearance

► 'Got my face cut open?' Ed Sheeran jokes about inch-long facial scar at live show... after Princess Beatrice 'sliced his cheek'  
That looks painful

► Twinning! Joanna King and Phoebe Burgess sip on virgin pina coladas while in a pool and flaunt their burgeoning baby bumps in bikinis  
Pregnant beauties

► 'I'll never be better': Austin Carlile of rock group Of Mice And Men gives fans candid Marfan syndrome update  
Took to Twitter

► Has Kelly Gale taken her Victoria's Secret diet too far? Australian model appears looking VERY thin in backstage photos  
New backstage photos

Ariana Biermann calls sis Brielle 'mini Kim' on Don't Be Tardy but she loves comparison to Zolciak  
Loves being compared to her famous mother



► From honeymoon to boat hopping! Bikini-clad Audrina Patridge leaves her new husband at home for a day at sea with rapper Travis Scott  
The newlywed

► Nothing can stop her! World class skier Lindsey Vonn hits the gym just two weeks after breaking her arm  
The 32-year-old fighting champ

► Rose McGowan shares topless snaps alongside new boyfriend Boots  
Confirmed her romance with the messy-haired singer/producer last month

► Birthday girl! Kaley Cuoco goes hell for leather as she enjoys celebratory dinner with equestrian beau Karl Cook in Hollywood  
Star turned 31

► Beach babe! Karrueche Tran exposes her bikini in see-through lace tunic as she cuddles up to hunky co-star in LA  
Scenes for web series

► '#sohungry #loveparis': Amy Schumer and sister Kim poke fun at Victoria's Secret Fashion Show with pajama Instagram  
Messing around

► 'F\*\*\* that!' Khloe Kardashian says she hated being labeled plus size and was 'embarrassed' to go shopping for clothes before slimming down

► Something to tell us? Katy Perry sparks engagement rumors as she steps out with beau Orlando Bloom flaunting HUGE diamond ring  
Distant wedding bells?

► The model of good behaviour! Fashion's bad boy Jordan Barrett looks ANGELIC while supporting his MANY female friends at the Victoria's Secret Show

► Lottie Moss flaunts her slim pins in an elegant silver and blue striped minidress at the Victoria's Secret Fashion Show in Paris  
Future top model

► Is your woolly jumper REALLY cruel? That's what Alicia Silverstone claims in a new animal rights advert. But furious sheep farmers say it's nonsense

► Leggy Andreja Pejic flaunts trim pins in black latex miniskirt... as transgender model attends glamorous cocktail party in Miami  
An eye for fashion

► 'I did everything myself': Actress Marion Cotillard reveals she performed ALL stunts in new movie Assassin's Creed

All her own work

► 'And that's a wrap!'  
Leggy Bridget Malcolm collapses on the floor after stunning at Victoria's Secret Fashion Show for second time

► Flying solo! Nina Agdal rocks a biker jacket and leggings as she arrives at LAX airport alone after getaway with Leonardo DiCaprio

Danish supermodel

► Larry King and wife Shawn put on a united family front as they decorate their giant Christmas tree together after cheating rumours

Getting festive

► 'Pre-show!' Kendall Jenner models the skimpiest of underwear and a pink robe as she poses on catwalk ahead of Victoria's Secret extravaganza

► 'It feels so divisive and purpose-defeating': Ashley Graham on why she resents the label 'plus-sized model' and why she'll never lose her curves

► 'It's odd but as long as they're mature': Michael Fassbender opens up about having older women fawn all over him

Hollywood heavyweight

► Bachelor star Lauren Bushnell reveals she fears Ben Higgins will dump her after he called off wedding

Their future is looking in doubt

► Ruby Rose says she is 'extremely excited' to see transgender and gender fluid people embraced by the general public

Power to the people

► No tan lines for her! Transgender model Andreja Pejic goes topless on the beach in Miami with Alina Baikova

One way to get an even tan!

► When Harry met Rihanna! Beaming prince is delighted to meet the songstress in Barbados as he helps the country toast 50 years of independence

► 'I can't believe it's been a year!' Mark Zuckerberg's daughter turns one a day after kissing her dad's cheek for the first time

Facebook founder

► Bumping along nicely! Katherine Heigl shows off her baby bump in all black ensemble and Uggs as she films scenes for TV show Doubt

- ▶ **Youthful Christie**  
Brinkley shows off her incredible figure in form-fitting dress as she steps out in New York  
The 62-year-old blonde is an Uptown Girl
- ▶ **Her birthday suit!**  
Chrissy Teigen cooks dinner for John wearing nude one-piece as she celebrates turning 31 in Mexico  
Celebrations
- ▶ **'Every sign of aging I have is a sign that I'm still alive':** Blogger, 31, who suffers from rare autoimmune disease fires back at trolls who branded her a 'hag'
- ▶ **Kendall Jenner looks ravishing in racy red lingerie with matching thigh-high boots and feathered wings as she takes to the runway in Paris**
- ▶ **Bra-vo! Charlotte McKinney flashes cleavage and svelte abs after getting in workout**  
The 23-year-old was in Los Angeles on Wednesday
- ▶ **There's two ways to dress up! Elle Macpherson turns heads in all-black knee length dress in Miami... as her friend Karolina Kurkova steps out in PYJAMAS**
- ▶ **Supermodel sisters! Bella Hadid steals the show in a barely-there bodysuit as she makes her triumphant Victoria's Secret debut in Paris with Gigi**
- ▶ **X Factor panel 'set to return next year' amid reports Simon Cowell 'wants all the judges' for new season**  
The foursome will back together for the UK show
- ▶ **I Can't Peel My Face away! The Weeknd is ogling ex Bella Hadid's bottom during stage performance... before eyeing Alessandra Ambrosio's bosom**
- ▶ **Pink is the new red! Janelle Monáe ditches her signature scarlet lip color in favor of a fresh, colorful style that suits her burgeoning acting career**
- ▶ **Angel delight! Kelly Gale stuns in angelic winged costume as leggy model struts down the catwalk at Victoria's Secret Fashion Show in Paris**
- ▶ **'There was kissing on the lips': Ryan 'Fitzy' Fitzgerald reveals he and Kate Fischer DATED shortly after she split with ex fiancé James Packer**
- ▶ **Hairdresser who styled the Sixties dies: Leonard Lewis, who launched Twiggy's career by creating her radical crop, dies at 78**  
He put the style into the Sixties

► She lives for the Applause! Lady Gaga sizzles in completely sheer floor-grazing gown as she sings backstage with VS Angels

► Former Angel Doutzen Kroes flashes her bra in sheer lace top and PVC miniskirt as she puckers up with husband Sunny James

► Heaven sent! Angel Jasmine Tookes dazzles as she struts her stuff in \$3 million, 450-carat Fantasy Bra at the Victoria's Secret Fashion Show in Paris

► It's not just the Swedes: Singer-songwriter Bob Dylan didn't attend Oval Office meeting with Obama for Nobel laureates, either The prestigious award

► Licence to frill! Drew Barrymore showcases 20lb lighter frame in tropical print waterfall hem gown She has recently shed 20lbs in weight

► Yolanda Hadid, 52, supports stunning daughters Gigi and Bella at Victoria's Secret show... while doting dad Mohamed, 68, brings fiancée Shiva Safai, 30

► 'I love you with all my heart': Hugh Jackman, 48, gushes over wife Deborra-Lee Furness as he wishes her a happy 61st birthday Celebrations

► Irina Shayk flaunts her eye-popping cleavage in a white lace bra and pink satin robe as she gets ready for her debut Victoria's Secret Fashion Show in Paris

► Style Sudoku: In every row - vertical, horizontal and even diagonal - you'll find Seasonal Reds that coordinate perfectly Get a new closet

► Axed! Masters Of Sex won't return for fifth season following limp viewership figures Showtime have opted against renewing the drama series

► Has Harry made a surprise appearance at the Victoria's Secret Fashion Show? Twitter goes wild over social media snaps of Styles wearing wings

► So that's how the Angels look so heavenly! Bella and Gigi Hadid put on busty displays as they prepare for the Victoria's Secret Fashion Show in Paris

► Rob Kardashian and Blac Chyna 'set July wedding date as she wanted more time to get into shape' Have decided on July 17, 2017, for the big day



► 'It's my baby!': Kendall Jenner tells Caitlyn that she can never drive her flawless '56 Chevy Corvette during preview of Jay Leno's Garage  
'It's my baby,' she said

► She's still heavenly! Former Angel Heidi Klum looks chic after flight while next generation hit Victoria Secret fashion show  
Has been there before

► 1 trend, 3 styles: Find a festive jumper for your Christmas celebrations  
From crew-neck cashmere to black jewel embellished jumpers and cashmere motif sweaters

► Gulp! Forget the juice cleanse, the new celebrity health craze is good old H2O infused with hydrogen - and Blake and Ryan are sipping the benefits

► It's not easy! Jennifer Aniston hilariously fails at shimmying while playing charades in sumo suit on Ellen  
Not her most gracious appearance

► Anything you can do, I can do better! Lady Gaga displays her incredibly toned figure in racy lingerie ahead of Victoria's Secret Fashion Show

► 'Everyone is just praying': Kendall Jenner reveals Kanye West and Kim Kardashian are 'doing OK'... amid reports marital woes led to rapper's breakdown

► The most extravagant Victoria's Secret outfit yet? Josephine Skriver models dazzling lingerie adorned with more than 450,000 crystals in behind-the-scenes clip

► 'He is my best friend': Bella Hadid insists there will be 'no awkwardness' with ex The Weeknd when he performs at the Victoria's Secret show

► So Angelic! Makeup-free Kendall Jenner giggles her way through glam session as she preps for the Victoria's Secret runway show in Paris

► 'Dreams do come true!': Yolanda Hadid shares photo of Gigi and Bella in angel wings 17 years ago ahead of Victoria's Secret Show  
Adorable flashback

► That's the Christmas spirit! Naomi Watts wears a smile as she arrives on the Gypsy set in New York in an oversized wool coat  
Full of festive cheer

► When trends collide: Diagram that shows you can mix the four big looks for winter - but very carefully!  
Velvet! Florals! Shoulder Detail! Tailored!

▶ Looks a million dollars! Bethenny Frankel, 46, is wrinkle free as she heads to a business meeting in NYC wearing a tight dress and heels  
Enviably figure

▶ Want to look great on a budget? FEMAIL reveals how you can look rock the same star-quality outfits as Emma Roberts and Jessica Alba with cheap-yet-chic finds

▶ 'I'm very much the caretaker': Nicole Kidman opens up about family dynamics after recalling struggle to help husband Keith Urban overcome addiction

▶ 'There are wounds that will never be totally healed': Chris Pratt reveals how filming Guardians Of The Galaxy Vol. 2 helped him deal with his father's death

▶ They once dated! Matthew Broderick, 54, and Kyra Sedgwick, 51, reveal they were an item in high school  
Came clean on his past relationship

▶ Marc Anthony 'is trying to get back with Jennifer Lopez' after THAT kiss with his ex and the subsequent split with his wife Shannon De Lima

▶ 'We should always be judged by our achievements - NOT by our gender': Serena Williams pens powerful open letter slamming sexism

▶ Back to work! Blac Chyna reveals she's doing last-minute shooting for TV special with Rob Kardashian... just three weeks after welcoming Dream

▶ After years of push-ups, more natural bras are all the rage. So should you swap your underwire for a soft cup?  
Is it time to move on?

▶ 'Sort it out!': Niall Horan teases he'd like to rekindle his romance with Selena Gomez... after the pair exchanged a friendly hug at the AMAs

▶ 'My queen!': John Legend shares sweet birthday message written in the sand for 'inspiring' wife Chrissy Teigen as model turns 31

▶ 'I gave birth, nursed the baby and worked 17 hour days': Alanna Masterson snaps back at cruel trolls who body shamed her after The Walking Dead return

That's not Kim!  
Jonathan Cheban parties in Miami with a Kardashian look-alike as his best pal tends to a hospitalized Kanye West

► Ditched Kim for the night

► 'I'll be around for season eight': Jeffrey Dean Morgan reveals Negan will survive [The Walking Dead finale](#)  
Confirmed the news to Howard Stern

► Glowing on set! Jessica Chastain looks happy with her darker locks as she shoots [Molly's Game in Toronto](#)  
Redhead showed off new brunette locks

► 'That was the end': NFL heiress Kate Mara reveals she dumped English ex-beau after he kicked Vince Lombardi trophy with STEEL-TOED boot

► Upstaged! Joanna Krupa stuns in revealing gown at Poland's Next Top Model finale... but braless beauty Anna Jagodzinska steals her thunder

► Ewan McGregor and Jonny Lee Miller go shirtless as they show off their ripped torsos in nothing but kilts in [Trainspotting 2](#) sneak peek

► Duggars welcome child number 20: Jim Bob and Michelle declared legal guardians of nephew, 8, because his homeless mother is unable to care for him

► 'There was another turkey holding that turkey': Jennifer Aniston reveals how hubby Justin Theroux surprised her on Thanksgiving

► 'She's beyond happy': Pregnant Cheryl 'confirms baby news to friends and family' after revealing prominent bump at carol concert  
It's got everyone talking

► Livin' la vida luxury! Ricky Martin buys gorgeous modern estate in Beverly Hills for whopping \$13.5million  
Singer splurged on the lavish property

► Leggy Jennifer Lawrence goes for sophisticated glamour in skirt suit as she laughs alongside pal and co-star Chris Pratt at [Passengers](#) photocall

► 'Instagram is for the devil': Justin Bieber rants about photo app three months after deleting his profile  
He's not Sorry about his views

Soap star Corey Sligh, 29, charged with child molestation AGAIN after family member, 8, claims he got in her bed, took off her

► clothes, and rubbed his penis on her

► Wonderful in white! Ali Larter, 40, looks youthful in light colors as she does some early Christmas shopping in Los Angeles  
Hit the stores in style

► 'Does anyone have a tissue?': Hillary Clinton brings Katy Perry to tears as she makes surprise appearance to present pop star with UNICEF honor

► Celebrating? Ivanka Trump dons a short cocktail dress as she steps out with husband Jared hours after Donald confirms his kids will control the business

► 'There's not any planning right now': Miley Cyrus' sister Noah reveals the singer does not have a wedding date with fiancé Liam Hemsworth

► 'Hello summer!' Australian model Natalie Roser leans on a car bonnet and flaunts her ample cleavage in a plunging red crop top  
Happy in the sun

► Her Hips Don't Lie! Shakira flaunts her incredible curves in thigh-grazing mini skirt as she films commercial in Spain  
Flaunted her toned pins

► Antonio Banderas abandons his clean-shaven look in favour of a bushy grey beard as he starts work on new film The Music Of Silence

► Jennifer Lopez has hired Dancing With The Stars pro Derek Hough for her new competition show World Of Dance  
Is set to hit screens on NBC soon

► Suki Waterhouse keeps it casual in ripped jeans and a chic furry parka as she enjoys low-key outing in Beverly Hills  
Hid under a hood

► Jet lagged? Jennifer Hudson looks ready for a nap as she arrives at LAX in an oversized ruby bomber jacket  
She tried her best to crack a smile

► Yule be in for a treat! Kate Moss dons fluffy fur coat as she does some early Christmas shopping after shooting new music video for Elvis Presley classic

'Wasn't it clever?': Carly Simon talks trolling Donald Trump with reworking of hit You're So Vain in pre-election ad  
Happy with her choice



▶ **Jon Gosselin 'is taking ex Kate to court to ask for joint custody and demands to know where special needs son is'**  
He only has visitation rights

▶ **I'm pregnant! Amanda Seyfried shows off a large bump in sheer dress as she reveals she's expecting**  
The actress is newly engaged

▶ **'I didn't want to rely on a man to provide': Chelsea Handler, 41, explains why she has always wanted to earn her own money**  
Strict work ethic

▶ **EXCLUSIVE: Kanye West asked for a change of venue in \$2.5 million lawsuit accusing him of illegally using a Hungarian star's song in his hit New Slaves**

▶ **'He was fearing for his own life': Kanye West's stepbrother claims hospitalized star has been 'traumatized' by wife Kim Kardashian's Paris robbery**

▶ **'More than I ever deserved': Bristol Palin's doting husband Dakota gushes about his wife and kids as he shares a picture-perfect portrait of the family**

▶ **'It's a feast of vitriol': Sarah Jessica Parker says she's not tough enough for 'mean-spirited' Twitter after quitting the social media network**

▶ **Bold Brooklyn Beckham performs skateboard stunts in the middle of the street... as he and Gordon Ramsay's daughter Holly share sweet Instagram message**

▶ **Taylor Swift tops Forbes list of highest earners in 2016 as she pulls in \$170m while One Direction makes \$110m and Adele drums up \$80.5m**

▶ **No nerves here! Angels Joan Smalls and Alessandra Ambrosio show off their model figures as they arrive at the Grand Palais ahead of the VS Angels show**

▶ **Mom-of-one sheds more than 130LBS in two years - despite suffering from 'extremely painful arthritis'**  
Kassidy weighed 259lbs

▶ **The couple that dresses together... Joe Jonas and Sophie Turner match in double denim as they enjoy romantic date**  
New couple

- ▶ Playing fashion favourites! Queen Letizia of Spain wears ANOTHER Carolina Herrera outfit on the last day of her visit to Portugal
  
- ▶ Thigh's the limit! New mom Blac Chyna shows off slimmed down physique in clingy LBD and sexy boots  
She's been shedding the post-baby weight
  
- ▶ Kanye West 'suffered nervous breakdown triggered by the anniversary of his mother's death' before being hospitalized last week
  
- ▶ Count down to a beautiful Christmas! Advent calendars filled with skincare, make-up and fragrance treats are sure to delight the beauty lover in your life
  
- ▶ Vogue editor André Leon Talley insists a Trump presidency will be 'great' and says Melania will be a 'wonderful' First Lady, Magazine backed Hillary
  
- ▶ Adam Driver is cherishable: His new movie Paterson is a quiet little gem of a film about the poetry of everyday life, writes BRIAN VINER
  
- ▶ Amber Heard cosies up to a handsome mystery man outside an LA club... as it's revealed she's yet to donate her \$7M divorce settlement to charities
  
- ▶ Billionaire Richard Lugner, 84, famous for paying famous women to dance with him in Vienna, divorces his Playboy bunny wife, 26, after two years
  
- ▶ Busting out! Zilda Williams struggles to keep her famous E cup assets contained in tiny red bikini bra  
She's never far from the beach
  
- ▶ Low-budget film starring Meghan Markle gets released again (and surprise surprise, Prince Harry's girl features a lot more this time around)
  
- ▶ Petra Nemcova flashes her legs in white mini dress with an asymmetric hem as she hit the glam Dior Lady launch at Art Basel in Miami
  
- ▶ Jet-setting college student tells how she is flown around the country to enjoy lavish dates with wealthy men - but she insists she is NOT a sugar baby
  
- ▶ A winter wonder! Katy Perry shimmers in plunging dress as she is honored at Snowflake Ball... with Orlando Bloom by her side  
All eyes were on her

▶ 'She decided to open up her crooked lips': Amber Portwood has bone to pick with Farrah Abraham in dramatic Teen Mom OG finale special

▶ Russian beauty Natasha Poly shows off her toned figure in strapless bikini as she breaks out her best model poses during fun day on beach in Miami

▶ A right royal friendship! Queen Maxima of the Netherlands and Queen Mathilde of Belgium dazzle in jewel tones as they step out together in Utrecht

▶ Peek-a-boob! Shanina Shaik shares a glimpse at her lacy bra beneath a velvet blazer as she attends exclusive party with fiancé DJ Rukus Victoria's Secret Angel

▶ Missing someone? Bella Hadid is caught looking at photo of ex-boyfriend The Weeknd kissing her They've not commented on their breakup

▶ Groom causes outrage after banning his fiancée's friend from being a bridesmaid - because she's 'not attractive enough' A very risky move

▶ 'Loving life!' RHOC's Meghan King Edmonds shares a picture of newborn Aspen... and she's already smiling at just THREE days old Gorgeous new daughter

▶ Defiant Mariah Carey posts another sizzling snap after airbrushing scandal - but has she done it again? She's been at the centre of a series of scandals

▶ That's a wrap! Jessica Alba swathes her svelte figure in baggy denim boiler suit and checked coat as she enjoys date night with husband Cash Enviably svelte figure

▶ Khloe Kardashian displays pert cleavage in a tank top and skintight denim in LA... after slamming allegations that her jeans brand is made in sweatshops

▶ 'It's getting there!' Usain Bolt reveals he's ready to start a family with girlfriend Kasi Bennett... after shooting down rumours he's engaged

▶ Newly single Mary J. Blige enjoys dinner with old friend Sean 'Diddy' Combs after wowing crowds on stage in Miami After Mary's concert

Double trouble! Amy Adams captivates in chic black dress as she cozies up with Sienna Miller The ladies looked out of this world





► Yin and yang: Katie Holmes shows off legs in LBD while Serena Williams is a wonder in white at art event in Miami  
Two talented stars

► Brooke Burke flashes her long legs as she struggles to walk in her flowing floor-length dress at the UNICEF Snowflake Ball  
Easy does it!

► Frock 'n' roll! Supermodel Kate Moss to 'star in new music video for Elvis Presley classic The Wonder of You in bid to hit Christmas number 1'

► All aboard the royal railway! Prince William looks dapper as he arrives at a train factory during his first official visit to Derby  
First official trip to Derby

► Tennessee twosome! Miley Cyrus teams up with legendary godmother Dolly Parton on The Voice  
The 24-year-old pop star made it a family affair

► 'Everyone thinks I'm about to pop but I've got months': Natalie Portman shows burgeoning baby bump while promoting Jackie on Tonight Show

► Waltzing in a Winter Wonderland! Nicole Scherzinger looks terrified as she tries out the rides at Hyde Park on night out with British X Factor act Matt Terry

► Bridget Malcolm gives herself a facial ahead of the Victoria's Secret Fashion Show... as the model hints she'll wear a cheeky ensemble in the parade

► Breast of luck! Kelly Gale flaunts sizable cleavage in lace push-up bra in backstage sneak-peek ahead of Victoria's Secret Fashion Show

► 'I thought they'd give me a bikini': Dame Helen Mirren, 71, reveals shock at posing for unretouched Pirelli calendar as striking new image is released

► 'Sick mom': Kourtney Kardashian battles a cold as she takes her son Mason to an art class in LA  
The reality star went incognito for day outing

► Showing her stripes! Elle Macpherson dons chic figure-hugging maxi dress as she flaunts her enviable frame at exhibition launch in Miami

► [The Night Manager](#)  
star Elizabeth Debicki  
looks super chic in  
shimmering satin mini  
dress at Letters Live  
bash  
Statuesque beauty

► [Cate Blanchett looks](#)  
gorgeous in new  
photoshoot for  
Rhapsody Magazine as  
she talks about her  
upcoming Broadway  
debut

► [Sofia Richie keeps it](#)  
comfy in hoodie as she  
lunches with Nicola  
Peltz and Anwar Hadid  
in West Hollywood  
The trio of young stars  
enjoyed lunch

► [She's a golden girl!](#)  
Cate Blanchett, 47,  
looks ageless in  
glittering gown at Pedro  
Almodovar event in New  
York  
Flawlessly beautiful

► ['Poolside with my](#)  
babes': Joanna King  
flaunts her growing  
baby bump in sun-  
soaked bikini selfie with  
partner George Burgess  
Soon to be married

► [One Direction's Liam](#)  
Payne, 23, heads out to  
a Christmas carol  
concert with pregnant  
girlfriend Cheryl, 33, as  
she unveils a huge baby  
bump

► ['Kim keeps telling him](#)  
to rest': Kanye West is  
'desperate to make  
music in hospital' and is  
'sketching fashion  
designs in bed'  
He just wants to work

► [Suits you! Khloe](#)  
Kardashian is all  
business in a chic black  
pantsuit at Fortune's  
Most Powerful Women  
Next Gen Summit  
She's an entrepreneur

► [Like father, like son!](#)  
Michael Phelps shares  
adorable footage of his  
little boy Boomer  
learning to swim  
The most decorated  
Olympian of all time

► ['Tough for mom': Kate](#)  
Gosselin struggles with  
Collin missing birthday  
party for sextuplets on  
TLC show  
Pain of son Collin missing  
his 12th birthday

► [Toned and terrific!](#)  
Charlize Theron puts  
legs on display in  
sporty gear...as she  
continues to show off  
svelte shape after  
gaining weight for film

► [Fenty Creeper! Cuba](#)  
Gooding Jr gets handsy  
with Rihanna at 30th FN  
Achievement Awards  
It may have been the  
Footwear Awards. But  
Cuba was all hands

► [Getting toasty! Sarah](#)  
Jessica Parker holds up  
a champagne glass as  
she leads jovial salute  
at Art Basel party  
Raised her glass at the  
crowded Miami venue

► Here comes Christie!  
Brinkley shows she's still got that supermodel poise as she poses up a storm on the red carpet  
At 62, her catwalk days are behind her

► Hailee Steinfeld looks rocker chic in black crop top and jeans as she takes to the stage in Dallas for KISS FM's Jingle Ball  
Edgy look

► Santa wont miss this house! Danielle Spencer unveils her OTT Christmas decorations... as she draws closer to a divorce settlement with Russell Crowe

► Mel Gibson, 60, jets into LAX with pregnant girlfriend Rosalind Ross, 26, as she covers baby bump in coat  
Young star is carrying his ninth child

► Howdy, cowgirl! Karlie Kloss wears leather chaps as she attends New York party  
She's sitting out this year's Victoria's Secret Fashion Show

► Keo Woolford who played Detective James Chang on Hawaii Five-O dies age 49 in Oahu after suffering stroke  
He died in hospital in Oahu, his publicist said

► 'He knows that it's my song': Justin Timberlake says son Silas knows that Can't Stop The Feeling from Trolls is 'daddy's' music  
Only be 19-months old

► 'I've never taken it to that extreme': Adam Driver discusses huge weight loss for new film Silence... but shows off muscles in VERY shocking photos

► Mister Muscles! Jai Courtney flaunts his six pack and chiseled physique as he takes a shirtless stroll around Bondi  
Not shy on showing off

► Below Deck's Kyle Dixon reveals he split from his transgender girlfriend because she found out he had secretly fathered a daughter with his ex

► Low profile, high spirits: Liam Hemsworth goes incognito in baseball cap and hoodie while leaving marijuana dispensary in LA  
Tried to go incognito

► 'I want to be good with my money': Ruby Rose admits to washing her own underwear BY HAND when she travels  
Life on the road can be a struggle

► 'Longhorns take care of each other': Matthew McConaughey surprises students at alma mater with ride home  
It's a ride home they won't forget

► [Daniel Baldwin tells Trump's critics to 'suck it up' as older brother Alec tweets that the president-elect is a 'spoiled child'](#)  
Differing views

► [Alexis Bledel confirms on chat show that sequel in the works for The Sisterhood Of The Traveling Pants](#)  
She revealed some exciting news for fans

► ['Watch your mouth!' Khloe Kardashian slams accusations her Good American jeans brand uses 'sweatshop'](#)  
The 32-year-old snapped back on Twitter

► [A pec-tacular sight! Muscular Mickey Rourke shows off his manly chest beneath zip-up top on lunch outing](#)  
He still has the body of an athlete

► ['No more Photoshop disasters please': Mariah Carey accused of airbrushing her snapshots AGAIN after posing in a cut-out swimsuit on Instagram](#)

► [Hillary's back in the big time: Clinton returns to the spotlight with surprise appearance to give Katy Perry an award at UNICEF gala](#)  
She introduced Perry

► [Leah Remini slams 'Orwellian cult' of Scientology and claims Tom Cruise urged her to get Leslie Moonves to kill a '60 Minutes' story on the church](#)

► [Zendaya channels old Hollywood glamor as she takes the plunge in clingy gown at FN Achievement Awards](#)  
She stunned at the awards in New York

► [Ben Affleck looks somber as he gets coffee with longtime friend Matt Damon after Thanksgiving holiday](#)  
The pals talked as they walked back to their cars

► [They're definitely on the naughty list! Kendall Jenner flaunts her lean legs as Emily Ratajkowski flashes MAJOR underboob for LOVE's advent calendar](#)

► ['What have you done to your gorgeous lips?' Nicole Scherzinger's fans go into meltdown as star shows off her fuller pout in selfie](#)  
Looked larger than usual

► ['They were all over each other': Mariah Carey 'spotted making out with back-up dancer Bryan Tanaka' on holiday in Hawaii](#)  
Follows her break-up

## FROM THE MAKERS OF CANDY CRUSH

Farm Heroes Saga, the #4 Game on iTunes. Play it now!



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## GADGET REVIEWS

### ► Google's Daydream: The \$79 headset that could bring VR to the masses

Google's \$79 headset is superb in terms of hardware - but is currently let down by a lack of apps. However, it has absolutely huge potential to finally bring VR to the masses.



### ► Welcome Home: Google's \$130 smart speaker

Google's smart Home speaker still has a lot of learning to do, and loses out to Amazon's Echo in some areas - but has incredible potential



### ► 'Not quite an iPhone replacement': Google's Pixel phone

Google's Pixel handset is good, and boasts an amazing camera and smart assistant. It's the king of the Android handsets - but still not great.



### ► Xbox One S review: Console that will make your 4K TV shine

Microsoft's Xbox One S has shrunk the giant console by 40%, and is stunningly designed console with 4K HDR capabilities - but comes with some caveats.



### ► The \$1,000 wireless speaker that really IS worth the price: Naim Mu-so Qb review

Naim's incredible Mu-So Qb takes you back to the good old days - where the music captivates and enthralls, rather than simply being something in the background.



### ► The hi-tech \$2,000 spin bike that really could change your life

Peloton's hi-tech bike lets you stream live and on demand rides to your home - and it's one of the best examples of fitness technology out there - at a price.



### ► Apple's new 9.7inch iPad Pro is a powerhouse you can take anywhere

Apple has added a few improvements to the smaller version, creating a tablet that is astonishingly powerful, but, unlike its big brother, is something you'll be able to carry everywhere.



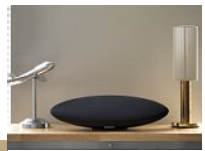
### ► A familiar old friend that could be the perfect starter phone: Dailymail.com's verdict on the iPhone SE

The new iPhone SE has a 4inch screen and familiar design - but has had a huge upgrade on the inside, making this a perfect first time iPhone.



Speaker that looks as good as its sounds:

► **B&W Zeppelin Wireless review**  
It's not cheap, but the \$699 (£500) Zeppelin Wireless is perfect for the design conscious music fan.



► **The iPad grows up: Apple's iPad Pro**  
The iPad Pro is, for many, a real laptop replacement - and a way to combine work and play in a gadget that will last all day and won't break your back to carry.

► **'A glimpse into the future of the living room': The new Apple TV**

Apple says apps are the future of TV, and while its new \$149 box does have some issues, its combination of streaming services, games and other apps make it the best way to make your TV smart.



► **The end of wonky wifi: Google's OnHub**

It's incredibly simple to set up, and we found it tripled the speed of our home wifi connection - but at \$199 is expensive..



► **The best all in one wireless speaker you'll ever hear: Naim Mu-so review**

It might not be a name familiar to the US market, but Naim is a legendary British brand hoping to make a splash with the American launch of its \$1499 Mu:So speaker.



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