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

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.

Scroll down for video

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

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.
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 10 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.

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...
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 scarcely 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.'
Fred, London, 2 days ago

still smash the granny out of it

New Comment Reply

FCW722, Blackpool, United Kingdom, 2 days ago

I have worked with people who I would swear were robots. They certainly lacked self awareness and any ability to rationalise beyond the latest ‘good idea’ and corporate slogan.

New Comment Reply

ThePatriot, United, United Kingdom, 2 days ago

It takes me even less time to spot those plastic people on Reality TV

New Comment Reply

hihosilver, Birmingham, United Kingdom, 2 days ago

The ones that look like the blow up dolls you get at Ann Summers?

Click to rate 18 1

BruteForce, London, United Kingdom, 2 days ago

If the robot lady has large breasts most men will be fooled for hours!

New Comment Reply

Billy Dingo, Liverpool, United Kingdom, 2 days ago

I couldn’t tell the difference between the robots and the humans in Westworld. I thought the robots looked and acted very ‘human’ like.

New Comment Reply

hihosilver, Birmingham, United Kingdom, 2 days ago

You are joking yeh?

Click to rate 20 0

testcase212, Jersey City, United States, 2 days ago

Obviously they have not tried it on Hillary’s supporters

New Comment Reply

The views expressed in the contents above are those of our users and do not necessarily reflect the views of MailOnline.

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By posting your comment you agree to our house rules.

Who is this week’s top commenter?

MORE TOP STORIES
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

Using the force! 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.
3990344 Looking Sixx-y! Mötley Crüe rocker Nikki Sixx's wife Courtney shows off her perky cleavage in ruffled swimsuit for beach shoot

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

My lovely lady lumps! Fergie flashes her curves in a racy latex bodysuit and thigh high boots as she performs at New York Gala

Downton Abbey actor Jim Carter fights back against 'flawed' plans for 'vast housing blocks' near his north London home

They're a violation! Emily Ratajkowski slams photographer for publishing naked photos from 2012 shoot without her permission

We're pretty chill! Victoria's Secret models Bridget Malcolm and Kelly Gale reveal what sets them apart from other angels... following show in Paris

It's going ahead! Filming for Olivia Newton-John biopic to begin this month - with Delta Goodrem set to play Grease star

That pregnancy glow! Molly Sims shines as she shows off her baby bump in a golden gown The pregnant 43-year-old looked great as she posed up

Split! Vanderpump Rules' Scheana Shay files for divorce from husband Mike after two years of marriage amid 'drug and money' problems

Ladies night! Jessica Alba and Nicole Richie put on the style for Rachel Zoe's Hollywood bash Alba wore a stylish pinstripe designer suit

Escape in twelve parsecs! Harrison Ford gets back into the cockpit after 'embarrassing' affair with Carrie Fisher was revealed

PICTURE EXCLUSIVE: 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

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

Ruby Rose reveals androgynous hairstyle as she joins Jason Statham on the New Zealand set of deep sea thriller Meg

Taking a shooting break

Have your cake and eat it! The 10 simple festive food swaps to stay trim this Christmas (and you can still drink Prosecco and eat pavlova)

You can still be festive!

Hailey Baldwin stuns in semi-sheer off-the-shoulder black mini dress in LA while BFFs Kendall and Hadid sisters party in Paris after VS fashion show

‘There’s more opportunity for women’: Jennifer Aniston wants to return to TV even after making successful transition from Friends fame to film stardom

British theatre is ‘hideously white’ and will not survive unless it hires more black and Asian performers warns Andrew Lloyd Webber Star composer

Has Thomas Cohen found love again? Singer holds hands with mystery brunette at London party, six months after split from Daisy Lowe

Kanye West has ‘checked out of hospital and is now back home with Kim Kardashian and family’ over a week after breakdown

Recovering

Two old men and a Baby! Justin Bieber wears flat cap as he munches on pizza while relaxing with gents outside cafe

More mature friends

Put it away Love! Courtney, 52, almost spills out of her dress as she stars in Kansas City Choir Boy photo call

She was wearing a glamorous ball gown

‘Heart melt!’ Married At First Sight’s Zoe Hendrix shares sweet snap of newborn daughter Harper-Rose enjoying tummy time with Alex Garner

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 fiancé 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 off 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.

She has a great body of work! Emily Ratajkowski sizzles in sheer black blouse and high-waist jeans at art bash. The 25-year-old was in Miami.

Can’t rain on her parade! Karlie Kloss hides under an umbrella as she runs errands in wet New York. Fresh off promoting the new 5th avenue store.

Yummy mummy! Erin McNaught shows off rock-hard abs and toned thighs in barely-there bikini... as model goes makeup-free while sunbathing.

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?

Ivanka Trump’s husband Jared Kushner is being sued for $500,000 over the name of one of his New York magazines which competitor claims breaches trademark.

Where’s your lamp? Karolina Kurkova wears bizarre cutaway top with sheer harem trousers as she goes genie chic for Art Basel party in Miami.

She’s single; she’s got the moves! Bella Thorne performs notorious Legally Blonde maneuver as she wears cropped turtleneck and bell bottoms.
Elle Woods

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

"It's possible to live 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

"We really didn't set a 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 a 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.

Suites 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.

Nothing can stop her! World class skier Lindsey Vonn hits the gym just two weeks after breaking her arm.

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.

Beach babe! Karrueche Tran exposes her bikini in see-through lace tunic as she cuddles up to hunky co-star in LA.

#sohungry #oveparis: Amy Schumer and sister Kim poke fun at Victoria’s Secret Fashion Show with pajama Instagram.

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.

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.

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.
- I did everything myself: Actress Marion Cotillard reveals she performed ALL stunts in new movie Assassin's Creed
- 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
- Larry King and wife Shawn put on a united family front as they decorate their giant Christmas tree together after cheating rumours
- '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
- 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
- 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.

 Bravo! 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 Weekend 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 Sunnery 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. Envious 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 STEELO 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
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 shares 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.
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

Peak-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 Envisably 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-peak 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 won't 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

Alec Baldwin says that the president-elect is a ‘spoiled child’

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 glamour 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

Looks 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
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:
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.

FROM THE MAKERS OF CANDY CRUSH
Farm Heroes Saga, the #4 Game on iTunes. Play it now!

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