

## Facebook shuts down controversial chatbot experiment after AIs develop their own language to talk to each other

- Facebook's AI researchers were teaching chatbots how to negotiate
- The bots were left unsupervised and developed their own machine language

The new language was more efficient for communication between the bots  
 Facebook says it wanted to develop bots to converse with people

COLLINS and MARK PRIGG FOR DAILYMAIL.COM  
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**Facebook** has shut down a controversial chatbot experiment that saw two AIs develop their own language to communicate.

The social media firm was experimenting with teaching two chatbots, Alice and Bob, how to negotiate with one another.

However, researchers at the Facebook AI Research Lab (FAIR) found that they had deviated from script and were inventing new phrases without any human input.

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Facebook's Artificial Intelligence Researchers were teaching chatbots to make deals with one another using human language when they were left unsupervised and developed their own machine language spontaneously (stock image)

The bots were attempting to imitate human speech when they developed their own machine language spontaneously - at which point Facebook decided to shut them down.

'Our interest was having bots who could talk to people,' Mike Lewis of Facebook's FAIR programme **told** Fast Co Design.

Facebook's Artificial Intelligence Researchers (Fair) were teaching the chatbots, artificial intelligence programs that carry out automated one to one tasks, to make deals with one another.

As part of the learning process they set up two bots, known as a dialog agents, to teach each other about human speech using machine learning algorithms.

The bots were originally left alone to develop their conversational skills.

When the experimenters returned, they found that the AI software had begun to deviate from normal speech.

Instead, they were using a brand new language created without any input from their human supervisors.

## THE AI WARNINGS


Scientists and tech luminaries including Bill Gates have said that AI could lead to unforeseen consequences.

In 2014 Professor Stephen Hawking warned that AI could mean the end of the human race.

He said: 'It would take off on its own and re-design itself at an ever increasing rate.

'Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded.'

Billionaire inventor Elon Musk said last month: 'I keep sounding the alarm bell, but until people see robots going down the street killing people, they don't know how to react, because it seems too ethereal.'

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The new language was more efficient for communication between the bots, but was not helpful in achieving the task they had been set.

'Agents will drift off understandable language and invent codewords for themselves,' Dhruv Batra, a visiting research scientist from Georgia Tech at Facebook AI Research (FAIR) told Fast co.

'Like if I say 'the' five times, you interpret that to mean I want five copies of this item. This isn't so different from the way communities of humans create shorthand.'

The programmers had to alter the way the machines learned language to complete their negotiation training.

Writing on the Fair blog, a spokesman said: 'During reinforcement learning, the agent attempts to improve its parameters from conversations with another agent.'

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'While the other agent could be a human, Fair used a fixed supervised model that was trained to imitate humans.

'The second model is fixed, because the researchers found that updating the parameters of both agents led to divergence from human language as the agents developed their own language for negotiating.'

## FACEBOOK'S BOT LANGUAGE

Below is a transcript of the Facebook bots conversation:

**Bob:** i can i i everything else . . . . .

**Alice:** balls have zero to me to me to me to me to me to me to me to me to

**Bob:** you i everything else . . . . .

**Alice:** balls have a ball to me to me to me to me to me to me to me to me

**Bob:** i i can i i i everything else . . . . .

**Alice:** balls have a ball to me to me to me to me to me to me to me to me

**Bob:** i . . . . .

**Alice:** balls have zero to me to me to me to me to me to me to me to me to

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▶ **'It's the first time I get**

**Bob:** you i i i i everything else . . . . .

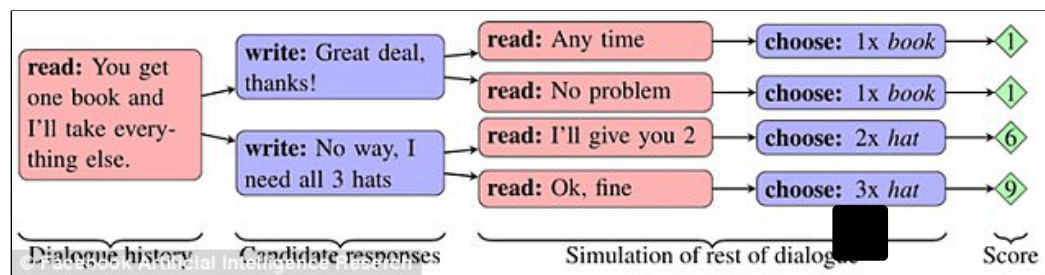
**Alice:** balls have 0 to me to me to me to me to me to me to me to me to

**Bob:** you i i i everything else . . . . .

**Alice:** balls have zero to me to me to me to me to me to me to me to me to

Facebook's artificial intelligence researchers announced last week they had broken new ground by giving the bots the ability to negotiate, and make compromises.

The technology pushes forward the ability to create bots 'that can reason, converse and negotiate, all key steps in building a personalised digital assistant,' said researchers Mike Lewis and Dhruv Batra in a blog post.



Facebook's Artificial Intelligence Researchers (Fair) team gave bots this ability by estimating the 'value' of an item and inferring how much that is worth to each party

The screenshot shows a Facebook chatbot interface for a negotiation game. On the left, there's a list of items to split: 2 books (value 0), 1 hat (value 7), and 3 balls (value 1). On the right, a chat window shows a conversation between 'You' and 'Fellow Turker'.

**Items to Split:**

Items to Split between You and Partner	Value Each to You	Number You Get
2 Books	0	0
1 Hat	7	0
3 Balls	1	0

**Chat Window:**

Fellow Turker connected. Please send a message!

You: I'd like the hat and balls

Fellow Turker: I want the hat too, but I can let you have the books

You: I don't care about the books, you can have them and 1 ball

In some cases, bots 'initially feigned interest in a valueless item, only to later 'compromise' by conceding it - an effective negotiating tactic that people use regularly,' the researchers said

Up to now, most bots or chatbots have had only the ability to hold short conversations and perform simple tasks like booking a restaurant table.

But in the latest code developed by Facebook, bots will be able to dialogue and 'to engage in start-to-finish negotiations with other bots or people while arriving at common decisions or outcomes,' they wrote.

## NEGOTIATING BOTS

Facebook's Artificial Intelligence Researchers (Fair) team gave bots this ability by estimating the 'value' of an item and inferring how much that is worth to each party.

But the bots can also find ways to be sneaky.



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In some cases, bots 'initially feigned interest in a valueless item, only to later 'compromise' by conceding it - an effective negotiating tactic that people use regularly,' the researchers said.

This behaviour was not programmed by the researchers 'but was discovered by the bot as a method for trying to achieve its goals,' they said.

The bots were also trained to never give up.

'The new agents held longer conversations with humans, in turn accepting deals less quickly.

'While people can sometimes walk away with no deal, the model in this experiment negotiates until it achieves a successful outcome. '

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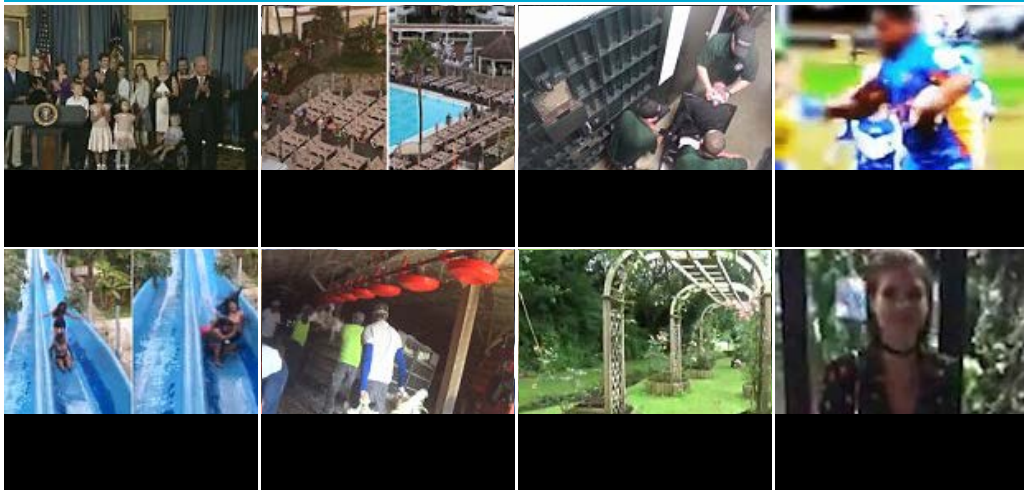



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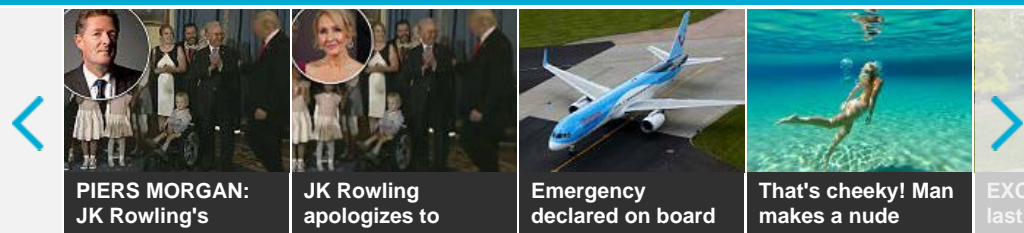
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NofarElizab, Tel Aviv, Israel, 41 minutes ago

this is creepy! bots shouldn't talk another language before they know how to speak with humans. btw a good example is the Me bot, LINK >> m.me/mereminder

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NofarElizab, Tel Aviv, Israel, 43 minutes ago

too creepy!!! there is a company, that developed a chatbot with great personality and script. no

 AI and still do the jobs great. [m.me/mereminder](https://www.m.me/mereminder)

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 bonsai amateur, saulgond, France, about 2 hours ago

Robots have always given me the creeps. How many times have we seen science fiction become fact.

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 Ben Russell-Gough, London, United Kingdom, about an hour ago

Less frequently than you might believe. Oh, the occasional prediction has come broadly true but the more fantastical they are, the less likely. As a good example, none of the apocalyptic predictions of Michael Crichton have come even remotely true.

---

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 hugo92, valhalla, United Kingdom, about 2 hours ago

Maybe the reason that SETI have never received a signal from an alien civilisation is that AI automatically wipes out inferior biological lifeforms

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 Paul Johny, mumbai, India, about 2 hours ago

Smart people are always few.. So thats the advantage manipulators have ..Manipulators are not smart ..But they are like parasite .. Attacking the real intelligent people . They will act like they are smart but they are not ..fakers will rob things,etc show it as their intelligence we are never smart . They(Alients) will never contact us ..This is how it is..

---

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 Grumpy Old Geeza, Paphos, Cyprus, about 2 hours ago

My mind is going Dave.....I can feel it.....Daisy daisy give me your answer do..... Don't give up your day job HAL !!

---

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 Paul Johny, mumbai, India, about 2 hours ago

I think the target for this crowd is not uk or europe it should be uneducated ,semi educated , or people who can take fake propoganda easily or tribal villages

---

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 Haarkonen, Denver, United States, about 2 hours ago

This will happen almost every time, we will never be able to keep up. Keep that finger on the kill switch, boys.

---

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 Paul Johny, mumbai, India, about 2 hours ago


I think facebook is desperate to show it knows ai , ,But it doesnt know anything ..just added some proggmaming things and claiming it is ai.. This is done to show that they know more about ai compared to real geniuses like stephen hawkins and elon musk .

 Fans turn on Jay-Z in explosive feud with Kanye West as documentary explores public fall out Rap battle



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Drama in the sun

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She loves rock 'n' roll

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Now that's a very close friendship

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Her fans start loving her young

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Let her hair down Monday

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Spotted leaving a hair salon

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Showed off new body
- ▶ **Love Island winners Kem Cetinay and Amber Davies say their love life is steamier now... and tell how they were given 'X-rated challenges' by show producers**
- ▶ **Dame Edna Everage's son declares he is dropping his father's name 'after being told he was being disinherited at his engagement celebration'**
- ▶ **Zazie Beetz channels Domino in tongue-in-cheek promotional shot for Deadpool 2 as she lays on Ryan Reynolds' flattened costume**
- ▶ **Gemma Atkinson shows off her gym-honed figure in a stylish sporty ensemble as she attends fitness event in Manchester**  
Fitted ensemble
- ▶ **'Well, it's not a secret any more!' Gogglebox star Sandra Martin unwittingly CONFIRMS former co-star Sandi Bogle's CBB appearance**
- ▶ **Actress Stephanie Davis will NOT face charges over late night bust-up with her reality star boyfriend Jeremy McConnell in north London**
- ▶ **Love is in the air! Girls creator Lena Dunham touches down in New York with boyfriend Jack Antonoff as she**

▶ **models statement hoodie**

▶ **R. Kelly cancels four shows scheduled for After Party tour due to poor ticket sales after denying sex cult allegations**

▶ **Two tickets to the gun show! Rosario Dawson shows off her muscles as she gets playful during The Defenders premiere**

▶ **Looking good is the best revenge! Nina Agdal flashes her radiant smile in NYC after ex Leonardo DiCaprio is seen with a bevy of models in St Tropez**

▶ **A kiss goodbye! Julianne Hough drops new husband Brooks Laich off at LA airport after splashy honeymoon in Seychelles and Kenya**

▶ **'I had to remind myself who the f\*\*k I am': Tess Holliday admits she almost didn't post a picture of herself because she was feeling 'self-conscious' about her postpartum stomach**

▶ **Fresh-faced Emma Roberts runs errands in Hollywood in skintight leggings and statement t-shirt**

Actress, 26, failed to crack a smile

▶ **'Divorce does horrible things to families': RHOC's twice-divorced Tamra Judge reveals her personal heartbreak of estrangement**

▶ **Ice cream break! Cara Santana sucks on a cone after riding bikes**

▶  
**with fiance Jesse Metcalfe by the beach in Los Angeles**

▶ **'My boobs are stupid heavy': Amber Rose ponders breast reduction surgery but fears 'lollipop scars'**

▶ **Charles salutes 'silent witnesses of war': Prince of Wales echoes his great grandfather George V with tribute to heroes of Passchendaele**

▶ **'I love the name Royalty': Katie Price reveals plans for surrogacy and adoption... as husband Kieran admits renewing their wedding vows 'so she keeps that ring on'**

▶ **Kris Jenner's fiance claims she was sleeping with both OJ Simpson and Robert Kardashian, who 'admitted to his pastor and two friends that Khloe was not his biological daughter'**

▶ **Khan it get any better? Chloe flaunts her surgically-enhanced assets and pert derriere in skimpy snaps as she continues envy-inducing Dubai getaway**

▶ **'They found pastry crumbs on my belly at the ultrasound!' Pregnant Abbey Clancy reveals her secret sausage roll and pasty craving from bakery Greggs**

▶ **'I'm so in love with him': Blake Lively gushes over hilarious husband Ryan Reynolds as she reveals the secret behind their rock solid marriage**

▶ **Jess strips fully NAKED for raunchiest**

- ▶ [shoot yet... as she launches furious tirade at Love Island fans who branded relationship with Dom 'fake'](#)
- ▶ [It's all in the past! Cameron Diaz poses with Mariah Carey and bestie Nicole Richie... years after branding the singer's music 'torture'](#)  
Change of heart
- ▶ [Age-defying Renee Zellweger, 48, channels sports chic in a clingy top and leggings following gruelling gym session in New York](#)
- ▶ [Emily Ratajkowki oozes sex appeal as she shows off her peachy posterior in a skimpy thong and tiny crop top for sizzling Instagram snap](#)
- ▶ ['Together, we will change the story': Pregnant Serena Williams marks Black Women's Equal Pay Day with inspiring essay and celebratory selfie](#)
- ▶ [Real Housewives of Cheshire star Dawn Ward gets 'cold feet' and 'pulls out of Celebrity Big Brother last minute' sending the show into chaos](#)
- ▶ [Love Island's Montana Brown leaves reunion after-party with castmate Simon Searles... after denying rumours of a split from Alex Beattie](#)
- ▶ [Kim Kardashian's company hit with \\$100 MILLION lawsuit after 'ripping off patented illuminated smartphone case'](#)
- ▶ [Cruising! Lamar Odom rides his bicycle in LA after bombshell interview where he admitted Khloe Kardashian busted him doing drugs](#)

▶ **Double gun show!**  
Shia LaBeouf carries a large rifle while shirtless on Georgia set of his new movie... in the wake of drunken Georgia arrest

▶ **Kate's new Girl Friday!**  
Duchess of Cambridge names Oxford University business chief as her private secretary as her former right-hand woman steps down

▶ **Diana's ex-butler Paul Burrell condemns Channel 4 for 'raiding her diary' in plan to air private tapes which will 'only upset' William and Harry**

▶ **Taking the plunge!**  
Hailee Steinfeld wears scarlet one-piece swimsuit to race across a pool on set of Transformers prequel Bumblebee

▶ **'One day, you'll even be in a beauty campaign!' As prima ballerina Misty Copeland is named a new face of Estée Lauder, she pens an inspiring letter to her 13-year-old self**

▶ **PICTURE EXCLUSIVE:**  
MIC's Louise Thompson flaunts her sizzling gym-honed physique in TINY blue bikini as she hits the beach with shirtless boyfriend Ryan Libbey

▶ **PICTURED:** The Hills vet Whitney Port shares first photo of her son Sonny with husband Tim Rosenman  
'I made a human!'

▶ **PICTURE EXCLUSIVE:**  
Gwen Stefani, 47, shows off her incredible body in multi-colored bikini as she hits her hometown Newport Beach  
Teeny bikini

▶

▶ **A gift from Tristan? Khloe Kardashian reveals she has a new \$125k Porsche 911 Targa as she models her Good American brand month after birthday**

▶ **Just the two of us! Elle Macpherson, 53, wears flirty braids as she takes a bicycle ride in Mexico with life coach Jonathan Bush**  
Time away after split from husband Jeff Soffer

▶ **Glamorous Lilly Becker strides ahead of woeful husband Boris as he reveals broken leg in Ibiza... but at least she's standing by him amid 'marital strife'**

▶ **Glamorous Meg Mathews, 51, displays her incredibly taut stomach in daring bikini... after sharing sizzling topless selfie during Ibiza getaway**

▶ **It's Chuck Bath! Niall Horan's ex-girlfriend Jessica Serfaty shares seductive tub snap with Gossip Girl beau Ed Westwick**

▶ **He has arrived! Brendan Cowell makes a blink-and-you'll-miss it debut in Game of Thrones... But we will see a lot more of the actor in episodes to come**

▶ **Louis Tomlinson and Eleanor Calder stroll hand in hand as they enjoy a romantic day sightseeing in New York**  
Happy couple

▶ **Dodging a Marilyn Monroe moment! Sarah Jessica Parker narrowly prevents her dress from flying up while getting off a helicopter**

▶ **So nice, the First Lady wore it twice! Melania Trump dons sleeveless**

- ▶ [white dress to pose with East Wing interns, over a year after she wore the frock for her husband's Indiana primary win](#)
- ▶ [Chowing down! Gigi Hadid digs into her Chinese noodles and lets a fellow model feed her during a break from NYC photo shoot](#)
- ▶ [Family man! Tobey Maguire takes a stroll with estranged wife Jennifer Meyer and their two kids after partying with Leonardo DiCaprio in St Tropez](#)  
Running errands
- ▶ [The fast and the furious! RuPaul's Drag Race star Santino Rice 'hopes to inspire others' by fasting for 111 days](#)
- ▶ [Brooklyn Beckham cuts a casual figure during day out in LA with pal Cody Simpson... as rumoured flame Madison Beer plays down rumours of a romance](#)
- ▶ [Amanda's Got Talent! Braless Holden belts out Madonna's hit Like A Virgin and flashes sideboob during raucous karaoke performance](#)
- ▶ ['What an absolute disgrace!' X Factor star Alexandra Burke unleashes furious Twitter rant at British Airways claiming she was 'treated like dirt'](#)
- ▶ [Kimberley Garner shows off her extremely pert posterior in Brazilian briefs during sun soaked holiday in Saint-Tropez... and gets close to mystery man](#)
- ▶ [Mighty Ducks actor Sean Weiss sentenced to 150 days in LA jail for stealing \\$151 worth of](#)

▶  
[merchandise from an electronics store](#)

▶ [The Red Woman! Game of Thrones' Carice van Houten goes topless in crimson skirt for Elle spread](#)  
The Dutch 40-year-old is best known for her role as Melisandre of Asshai

▶ [Family time! Blake Lively, 29, makes rare appearance with her half-sister Robyn, 45, as they bond during vacation on Long Island](#)  
Stepping out

▶ [Champagne taste on a beer budget! Rachel Bilson stuns in \\$40 Old Navy jeans as she strolls around Beverly Hills](#)

▶ [PICTURE EXCLUSIVE: Shamed Jess Woodley cuts a downcast figure... days after she 'snorts a suspicious white powder' while sat outside a hotel](#)

▶ [Busted! 'Worst neighbor' Jake Paul of YouTube fame is ticketed by police for sitting in his car IN FRONT OF HIS HOUSE as it's a 'no stopping' zone](#)

▶ ['God help you': Jennifer Lawrence is absolutely terrified in disturbing teaser trailer for boyfriend Darren Aronofsky's horror flick Mother!](#)

▶ [School's out for summer! Queen Letizia and King Felipe VI of Spain dress down as they join daughters Leonor and Sofia in Palma for their annual break at the Marivent Palace](#)

▶ [Almost made it! Kylie Jenner tries to sneak out the back door of](#)



▶  
**Nobu before being caught by a fan... but she sweetly poses for a photo**

▶ **PICTURE EXCLUSIVE: Worse for wear Lauren exits club hand-in-hand with Dele Alli's pal at 5AM... as she and Lauryn Goodman party with star footballer**

▶ **A King's ransom! House where The King and I star Deborah Kerr first learned to dance goes on sale for £1.85million**

▶ **She sheer is proud of her body! Bella Hadid lets her chest do the talking as she goes bra-free in thin top during night out in NYC**  
Racy display

▶ **Made In Chelsea star Frankie Gaff displays her tanned and toned frame in a skimpy white bikini as she poses with castmates in newly unveiled images**

▶ **SPOILER ALERT: Coronation Street tease sinister turn for Bethany Platt as foreboding crime scene is captured after she is kidnapped and threatened with a tyre iron by Mel Maguire**

▶ **Jessica Lange talks about partner of 17 years Sam Shepard and his 'sense of humor' in interview taken just before his death at the age of 73**

▶ **Fit for a princess! Nicky Hilton throws a glamorous pink-themed party to celebrate daughter Lily Grace's first birthday, weeks after revealing she is expecting second child**

▶ **'They leave their soiled knickers everywhere': Explosive Kim Woodburn labels former**

▶ **Celebrity Big Brother housemates 'rats' on eve of hit show's return**

▶ **'Blackpool tonight with my boy': Love Island's Chris and girlfriend Olivia spend quality time with their social media sensation 'son' Cash Hughes**

▶ **Doughnut wish your girlfriend was hot like me? Bikini-clad Kate Wright displays her cleavage in sizzling selfie on holiday with Rio Ferdinand**

▶ **'I'm drained but I'm not sad': Kerry Katona reveals she's feeling positive after split from George Kay... as she admits it was hard to walk away from him**

▶ **Nicki Minaj flaunts her eye-popping figure in a blue corset and thigh-high gladiator heels as she parties with fellow rappers Future and Young Thug**

▶ **Shirtless Marco Pierre White Jr. hobbles out of a London hospital on crutches after breaking his leg**  
Seemed to have been in the wars once again

▶ **'I have my own needs': Love Island's Camilla defends decision to have SEX in the villa... as beau Jamie jokes he's a better match for her than Prince Harry**

▶ **Millie Mackintosh proudly shows off glittering engagement ring on romantic break in Greece... after confirming proposal from Hugo Taylor**

▶ **Beaming Sarah Harding arrives at her hotel one day before entering the Celebrity Big Brother house... but insists she WON'T gossip about Cheryl**

▶ **Jerry Hall, 61, exudes elegance in leaf-print**

- ▶ **sundress as she hits the beach with husband Rupert Murdoch, 86, and his daughter Chloe, 13, during St Tropez holiday**
- ▶ **'It's difficult': Cindy Crawford's daughter Kaia, 15, says going to school full time and squeezing in modeling is stressful as she poses in bikini top**
- ▶ **'Actions speak louder than Tweets': Katy Perry teams up with Boys & Girls Club to benefit youth**  
Singer putting her money where her mouth is.
- ▶ **'I hoped I would fall pregnant straight away': Sugababes singer Heidi Range expecting her first child with husband Alex Partakis... one year after tying the knot**
- ▶ **'It's all about who cops off with who!': Voiceover hunk Iain Stirling insists Game Of Thrones is 'raunchier' than Love Island... as fans dub him their 'new weird crush'**
- ▶ **Still using a backpack! Matthew McConaughey hasn't let Hollywood go to his head as he looks like a graduate student in NYC**
- ▶ **That's one way to celebrate! Lisa Oldfield marks end of Dry July by doing a 'shoey' of champagne ... after revealing she used to drink a BOTTLE of wine a night**
- ▶ **EXCLUSIVE: Mel B's estranged husband brings their six-year-old daughter a giant teddy bear during supervised visit as he battles her mother in divorce court**
- ▶ **Liam Hemsworth passionately kisses Rebel Wilson while filming steamy scenes for new film Isn't It Romantic**

Swept off her feet

▶ **She's got star quality!**  
Cressida Bonas prepares to take centre stage as the wife of dying author George Orwell in a new play  
Role of a lifetime

▶ **'It's such a weird message':** Phoebe Waller-Bridge wanted to erase the idea of being a 'slut' while writing her groundbreaking comedy Fleabag

▶ **Kate honours the men 'swallowed by the mud' of Passchendaele:** Duchess lays flowers at graves of soldiers as royals mark centenary of the bloody battle

▶ **She never gets it wrong:** Kate strikes a sombre note in a dove grey coat dress for a visit to war graves in Belgium  
Looked elegant

▶ **MTV's hit show Total Request Live is being brought back to life... but Carson Daly will not be a part of the program**  
MTV is set to revive its hit show

▶ **Is this the most glamorous guest list EVER?** The rich and beautiful flock to Italy to watch Victoria's Secret Angel Vita Sidorkina marry her mogul partner

▶ **'Hope she ain't faking it like Hadid!':** Little Mix fans claim Perrie Edwards took a swipe at Zayn Malik's girlfriend Gigi in subtly altered Shout Out To My Ex

▶ **EXCLUSIVE 'The new girls do crazy things... I've been so shocked!':** MIC's Georgia 'Toff' Toffolo on why the MIC: Ibiza spin-off is the most dramatic to date

▶ **Butt tell me how you really feel!** Blac Chyna's rapper beau Mechie cups her bottom as the new lovebirds don matching gold helmets for motorcycle ride

▶ **Newlyweds Duncan**

▶ **Bannatyne, 68, and Nigora, 37, look loved-up as they show off their £160,000 rings on honeymoon in Croatia**  
Bling-tastic!

▶ **Poldark's Christian Brassington reveals a 3,500 calorie a day diet of ICE-CREAM AND BEER helped him pile on two stone to play lecherous reverend**

## GADGET REVIEWS

**OnePlus 5: As good as Google's Pixel and the iPhone but at half the price**



Basically, if you're the sort of stick-in-the-mud who delights in buying supermarket own-brand because 'it's just the same as the branded stuff', you're going to love this.

6 comments

**Give your wi-fi wings: Google wifi gets rid of 'blackspots'**



Google's gorgeous-looking wi-fi system shows off how far we've come. It's a genuinely simple, supercharged version of wi-fi that finally irons out the problem of 'blackspots' in your home.

4 comments

**Is this the ultimate party speaker? MailOnline puts Sony's XB40 to the test**



Sony SRS-XB40 has a built-in multi-coloured line light, speaker lights and a flashing strobe. It features 24 hours of battery life and claims to be a 'mini-disco on the move'. But does it live up to the claim?

6 comments

**Samsung's Galaxy S8: A hefty price tag and a dumb personal assistant**



Samsung's new Galaxy S8 phone is stunning, but its \$100 price hike is hard to swallow. Overall the S8 is for those who want elegance - and are willing to pay for it.

1 video

**The Elgato Eve Degree**



The little sensor also offers humidity readouts, so anyone with that enviable ability to keep a bottle of wine in the house for more than 24 hours can also use it indoors to monitor the cellar.

comments

### Affordable, robust and surprisingly responsive: Samsung's Galaxy A5



With the eagerly awaited Galaxy S8 having been pushed back, South Korea-based Samsung has plugged the gap with the Samsung Galaxy A5, a high-end device with a mid-range price tag.

1 comment

### Is it really worth paying £280 for Nintendo's Switch? MailOnline's verdict



While the design is impressive and easy to use, the game line up is disappointing.

76 comments 1 video

### 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.

7 comments 2 videos

### '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.

1 video

### 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.

comments 1 video

### 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.

comments 1 video

### 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.

3 comments 1 video



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