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Did Kaspersky Lab try to trick rivals into deleting harmless files? Former employees say security firm created fake malware

- Unnamed sources in Reuters report claim the group sabotaged rivals
- Firm would reverse-engineer rivals' virus detection software, they said
- It could then work out how software would flag good files as malicious
- They would send doctored file anonymously to sharing site VirusTotal
- Anti-malware tools from Microsoft, AVG and Avast though to be targeted

By [ELLIE ZOLFAGHARIFARD FOR DAILYMAIL.COM](#) and [JOSEPH MENN FOR REUTERS](#)

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For more than a decade, one of the largest security companies in the world has been manipulating rival anti-virus companies into deleting or disabling files on your computer.

This is according to a Reuters report in which two unnamed sources said Kaspersky Lab targeted Microsoft, AVG, Avast and other developers as part of the attack.

It claimed that by reverse-engineering their virus detection software, the company was able to find out how to mark harmless files as malicious.

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Two former employees of Russian anti-virus firm Kaspersky Lab have accused the company of generating fake malware files on competitors' software. Some of the attacks were ordered by Kaspersky Lab's co-founder, Eugene Kaspersky (pictured), to retaliate against smaller rivals, the sources said

Some of the attacks were ordered by Kaspersky Lab's co-founder, Eugene Kaspersky, to retaliate against smaller rivals, the sources said.

He allegedly felt he was copying his software instead of developing their own technology.

'Eugene considered this stealing,' said one of the former employees.

The ex-employees said Kaspersky Lab manipulated false positives off and on for more than 10 years, with the peak period between 2009 and 2013.

Kaspersky Lab strongly denied that it had tricked competitors into categorising clean files as malicious, also known as false positives.

The company has yet to respond to DailyMail.com for comment.

'Our company has never conducted any secret campaign to trick competitors into generating false positives to damage their market standing,' Kaspersky said in a statement to Reuters.

'Such actions are unethical, dishonest and their legality is at least questionable.'

Executives at Microsoft, AVG and Avast previously told Reuters that unknown parties had tried to induce false positives in recent years.

The companies have not yet responded to a request for comment by DailyMail.com.

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The two former Kaspersky Lab employees said the desire to build market share also factored into Kaspersky's selection of competitors to sabotage.

'It was decided to provide some problems' for rivals, said one ex-employee. 'It is not only damaging for a competing company but also damaging for users' computers.'

The Russian company is one of the most popular antivirus software makers, boasting 400 million users and 270,000 corporate clients.

HOW WAS IT DONE?

Researchers were assigned to work for weeks or months at a time on the sabotage projects, sources said.

Their chief task was to reverse-engineer competitors' virus detection software to figure out how to fool them into flagging good files as malicious, according to the former employees.

For instance, they could manipulate Windows operating system files to appear as though they contained malware.

They would send the doctored file anonymously to VirusTotal, a free online virus scanner.

Files and URLs sent to VirusTotal will be shared with antivirus vendors and security companies so as to help them in improving their services and product.

The aim was to deceive rival antivirus into treating those harmless system files as dangerous, and removing or disabling customers' PCs, potentially causing them to become unstable.

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The former employees said Kaspersky Lab manipulated false positives off and on for more than 10 years, with the peak period between 2009 and 2013

The former Kaspersky employees said company researchers were assigned to work for weeks or months at a time on the sabotage projects.

Their main task was to reverse-engineer competitors' virus detection software to figure out how to fool them into flagging good files as malicious, the former employees said.

The opportunity for such trickery has increased over the past decade and a half as the soaring number of harmful computer programs have prompted security companies to share more information with each other, industry experts said.

They licensed each other's virus-detection engines, swapped samples of malware, and sent suspicious files to third-party aggregators such as Google Inc's VirusTotal.

WERE AVAST AND MICROSOFT TARGETED?

At Avast, a largely free antivirus software maker with the biggest market share in many European and South American countries, employees found a large range of doctored network drivers, duplicated for different language versions.

Avast Chief Operating Officer Ondrej Vlcek told Reuters in April that he suspected the offenders were well-equipped malware writers and 'wanted to have some fun' at the industry's expense.

He did not respond to a request on Thursday for comment on the allegation that Kaspersky had induced false positives.

Microsoft's anti-malware research director, Dennis Batchelder, told Reuters in April that he recalled a time in March 2013 when many customers called to complain that a printer code had been deemed dangerous by its antivirus program and placed in 'quarantine.'

Batchelder said it took him roughly six hours to figure out that the printer code looked a lot like another piece of code that Microsoft had previously ruled malicious.

Someone had taken a legitimate file and jammed a wad of bad code into it, he said.

Because the normal printer code looked so much like the altered code, the antivirus program quarantined that as well.

Over the next few months, Batchelder's team found hundreds, and eventually thousands, of good files that had been altered to look bad. Batchelder told his staff not to try to identify the culprit.

'It doesn't really matter who it was,' he said. 'All of us in the industry had a vulnerability, in that our systems were based on trust. We wanted to get that fixed.'

By sharing all this data, security companies could more quickly identify new viruses and other malicious content.

But the collaboration also allowed companies to borrow heavily from each other's work instead of finding bad files on their own.

In one technique, Kaspersky's engineers would take an important piece of software commonly found in PCs and inject bad code into it so that the file looked like it was infected, the ex-employees said.

They would send the doctored file anonymously to VirusTotal.

Then, when competitors ran this doctored file through their virus detection engines, the file would be flagged as potentially malicious.

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Eugene Kaspersky (left) allegedly felt rivals were copying software instead of developing their own technology. Researchers at the firm (right) were assigned to work for weeks or months at a time on the sabotage projects, sources said

If the doctored file looked close enough to the original, Kaspersky could fool rival companies into thinking the clean file was problematic as well.

VirusTotal had no immediate comment.

In its response to written questions from Reuters, Kaspersky denied using this technique.

It said it too had been a victim of such an attack in November 2012, when an 'unknown third party' manipulated Kaspersky into misclassifying files from Tencent <0700.HK>, Mail.ru and the Steam gaming platform as malicious.

It is not clear if the attacks have ended, though security executives say false positives are much less of a problem today.

That is in part because security companies have grown less likely to accept a competitor's determinations as gospel and are spending more to weed out false positives.

KASPERSKY LAB'S RESPONSE TO THE REUTERS INVESTIGATIONS

'Contrary to allegations made in a Reuters news story, Kaspersky Lab has never conducted any secret campaign to trick competitors into generating false positives to damage their market standing. Such actions are unethical, dishonest and illegal.'

'In 2010, we conducted a one-time experiment uploading only 20 samples of non-malicious files to the VirusTotal multi-scanner, which would not cause false positives as these files were absolutely clean, useless and harmless.'

'After the experiment, we made it public and provided all the samples used to the media so they could test it for themselves. We conducted the experiment to draw the security community's attention to the problem of insufficiency of multi-scanner based detection when files are blocked only because other vendors detected them as being malicious, without actual examination of the file activity.'

'After that experiment, we had a discussion with the antivirus industry regarding this issue and understood we were in agreement on all major points.'

'In 2012, Kaspersky Lab was among the affected companies impacted by an unknown source uploading bad files to VirusTotal, which led to a number of incidents with false-positive detections.'

'To resolve this issue, in October 2013, during the VB Conference in Berlin there was a private meeting between leading antivirus vendors to exchange the information about the incidents, work out the motives behind this attack and develop an action plan. It is still unclear who was behind this campaign.'

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Rome-antic break in Italy



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She's not the shy type



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Katy Perry shows off TWO new hair colours in one night as she wows at Harper's Bazaar Icons event with red curls before switching to pink crop for afterparty



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Rivalry with Beeb



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Power couple at play! Beyoncé and Jay Z enjoy European holiday with daughter Blue aboard \$900,000-a-week super yacht
Not exactly on a budget



Gemma Collins shows off her slimmed-down figure in bold minidress and knee-high boots after losing THREE STONE at juice bootcamp



Dapper Ryan Reynolds is suited and booted as he joins glamorous co-star Analeigh Tipton at Toronto Film Festival premiere of Mississippi Grind



That's not very ladylike! Juliette Lewis has ants in her pants as she scratches her thigh while taking her dog for a walk
Time and a place...



So blondes don't have more fun? Style chameleon Kylie Jenner sports a mermaid green wig as she flashes her flat stomach in a crop top and slit pencil skirt



If you've still got it, Flaunt it! Pamela Anderson, 48, shows she has kept a Baywatch body to make men swoon baring all for photo shoot



Ready, set, sparkle! Mariah Carey shows off her curves in plunging glittering gown at the Harper's Bazaar Icons event
Showed major cleavage



Harry and Cressida's birthday night: Prince celebrates turning 31 by spending evening at the pub with his ex-girlfriend - as it emerges she has split from boyfriend



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Trainwreck star is having fun with Madge

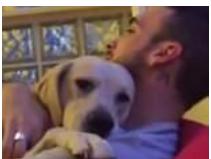


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Horror Show, Five More Awful Years, United Kingdom, 1 month ago

None of these products work properly anyway and the virus writers are always ahead of them. A colleague of mine worked at one of these companies once and their business model was extremely simple - scaring the pants off people sells. As an example - I was disconnected from the internet for more than a week whilst travelling a few years back, but the virus detector on my laptop said if found something every day.

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Percival Plugsey, Bash St, United Kingdom, 1 month ago

So this story comes from EX-employees of Kaspersky? Sot someone with an axe to grind, then?

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Sid, Australia, Australia, 1 month ago

Fake Maleware?? Sexism gone mad!

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cultheold, nonsuch, Svalbard And Jan Mayen, 1 month ago

when people are already dumb enough to buy russian software, you don't have to resort to tricks like this

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IanG, Hemel Hempstead, United Kingdom, 1 month ago

Windows 10 has all the characteristics of a very nasty virus, constantly downloading itself, trying to force us to install it and, without any doubt at all. will soon be blackmailing us into paying monthly protection money against other virus that it lets in. It's the software business model, give away confusing cr*p that barely works then charge an arm and a leg to keep it going.

Click to rate 30 7



IanG, Hemel Hempstead, United Kingdom, 1 month ago

PS typos mostly down to a bluetooth keyboard that worked perfectly well in windows 7, now dodgy.

Click to rate 15 0



uL K, US, United States, 1 month ago

it's spyware designed as an os

Click to rate 9 4



GlebRussia, Chelyabinsk, Russia, 1 month ago

Kaspersky is excellent. American or British hackers can not hack computers Russian)

Click to rate 15 25



culltheold, nonsuch, Svalbard And Jan Mayen, 1 month ago

putting RUSSIAN software on your computer? that's like going to a british dentist

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Fisherjim, London, United Kingdom, 1 month ago

And reading your comment is like reading a book written for the under 5s!

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FlashGit, Jombang, Indonesia, 1 month ago

Overrated antivirus, free Avast blows them all.

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Roberto G., Monza, Italy, 1 month ago

Wholeheartedly agree... I'd never load something ending with -sky in my computer!

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David K, Buxton, United Kingdom, 1 month ago

Trusting Russians with your computer security?.....I think not

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harrietgrange, Derby, United Kingdom, 1 month ago

You do know what Edward Snowden has been saying about the US!

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Mancy, Manchester, United Kingdom, 1 month ago

Install Russian software onto my computer!?? NO THANKS! Not if I can help it!

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pepe999, Manchester, United Kingdom, 1 month ago

So you don't mind to be spied from the US but do mind from Russia. LOL

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Kimberley Garner flashes taut stomach in semi-sheer lingerie-inspired top as she steps out to book launch Little effort to imagination



Back to black! Karrueche Tran trades her platinum tresses for sleek raven locks as she slips into PVC corset and striped suit Blonde didn't last long



No bling needed! Kate Upton's famous cleavage steals the show at the Harper's Bazaar Icons event Her cup nearly runneth

over...



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Spent long time apart due to filming

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Bella Hadid bares her ample cleavage in plunging black satin gown as she joins leggy sister Gigi at the star-studded Harper's Bazaar Icons bash



Zayn Malik's rumoured flame Neelam Gill ditches her underwear as she flashes her pert posterior in a revealing khaki gown
Dramatic make-up



Reunited at last! Kate Mara enjoys coffee date with Jamie Bell after returning from Toronto International Film Festival
Hot new couple



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Simple is better



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Covered up for once



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Showcasing their skills

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Has a son with rocker



Hats off to her!
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41, is perfectly on-trend
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Rocked a '90s look



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prom dress as she puts
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event



Hailey Baldwin puts on
a leggy display in a
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a thigh-high split as she
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Smith at Harper's
Bazaar party



Suri-ously cute! Katie
Holmes shares sweet
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of herself cuddling her
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Tom Cruise's girl is
growing up fast



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strikes a pose with
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Sophie, 28, at Marchesa
show during New York
Fashion Week



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Dane? Miley Cyrus
posts topless photos on
Instagram amid
rumours she is dating
comedian Cook
More selfie-obsession



Flower power! Gigi
Hadid wows as she
struts her stuff in the
whimsical and very
tropical Anna Sui
parade at New York
Fashion Week



Kiernan Shipka goes
from girly to glam in
neon green before
changing into a
shimmering strapless
dress for Harper's
Bazaar bash



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Sarah Silverman hams it
up at premiere of her
movie I Smile Back...
and looks effortlessly
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Striking look



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insists she'd NEVER
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daring cover shoot



Lovely in lace! Red-
headed beauties
Christina Hendricks and
Bella Thorne stun in
black dresses at
Marchesa NYFW show
Black was the shade



Give her a standing
ovation! Leggy Nicole
Kidman looks stunning
in daring thigh-high
split dress as she steps
out in Milan after West
End return

'I'm always the last to know': Dane Cook, 43, laughs off reports that he and 22-year-old Miley Cyrus have been hooking up
Denied the claims



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Gerard Butler and girlfriend Morgan Brown depart hand-in-hand from Toronto International Film Festival



Katie Price shows off her tanned legs in tiny sparkly shorts and leather boots as she enjoys night out with husband Kieran Hayler at book launch



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Suki Waterhouse puts on a serious strut while flaunting her slim figure in bold lace dress at Burberry launch
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She just turned one



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Star, 39, appears thinner than usual



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Dwayne Johnson and girlfriend of nine years 'are expecting a baby together in January'
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Fashionable finale!
Heidi Klum and Mel B spice up America's Got Talent as London ventriloquist wins \$1million grand prize

Kept it classy



Camilla Kerslake goes all out in the glamour stakes in fitted sheer gown as she parties away rumours of a feud with fellow rugby WAG Chloe Madeley



Chloe-Jasmine breaks down in tears as Austin Armacost launches a SECOND tirade of abuse at her in Celebrity Big Brother
Relations hit a new low



EXCLUSIVE So fierce! Beyonce prowls around in a wildcat swimsuit while enjoying a swim with Jay Z and Blue Ivy Relaxing poolside on European holiday



Lionel Richie says Hello to Las Vegas as he signs on for Planet Hollywood residency He is planning to have you Dancing on the Ceiling once more



'I still feel fat and frumpy sometimes': Khloé Kardashian feels 'pressure' to stay in shape as she showcases her figure in plunging sheer bodysuit



Pregnant Sandi Thom looks radiant as she marries Matt Benson after whirlwind engagement (and yes, she wore flowers in her hair)



Glam Melanie Sykes, 45, shows off her curvaceous body in figure-hugging dress at beauty book launch Melanie Sykes gave onlookers an eyeful



Pregnant Kristin Cavallari puts her growing bump on show in sparkly top and skirt as The Blonds debut new collection at NYFW Expecting No.3



'It wasn't Yeezy': Kim Kardashian was unable to hook Modern Family star Jesse Tyler Ferguson up with a pair of Kanye West sneakers He's in biggest US show



Selena Gomez admits she 'doesn't know' if she will get back together with Justin Bieber as she reveals to Elle they still hang out Hasn't closed the door



Little and large! Kevin Connolly is dwarfed by statuesque girlfriend Sabina Gadecki who flashes lean legs as the pair stroll in LA He's only 5ft 5in



'Let the countdown begin': Lady Gaga models vintage lace and a slinky white slip as she dances to German hard rock in latest AHS: Hotel teaser





Amy Childs hits a glam note as she shows off her killer curves in low-cut pink and black dress at beauty launch party
All eyes were on her gym-toned frame



Reaching new heights!
Diane Kruger bedazzles in black bell-shaped dress and red satin heels for Sky premiere at TIFF



Ab-solutely fabulous!
Hailey Baldwin shows off toned midriff in crop top as she arrives at her hotel during New York Fashion Week
Teen model smiled shyly



Jessica Alba is heavenly in white as she leaves New York to return home with husband Cash Warren and their daughters
Hats off to her



Back to business!
Nicki Minaj steps out in figure-hugging white as she runs errands in Beverly Hills after NYFW
Back to the daily grind



Nicole Scherzinger cuts a sultry figure in sheer wrap dress for Thomas Wylde runway show in New York
Glam appearance at New York Fashion Week



Kate Mara blazes in tailored black dress while Jennifer Hudson and Hailey Baldwin wow in white at DKNY show during fashion week



Salma Hayek flaunts her tiny waist in a chic LBD...after partying with her Septembers of Shiraz co-stars at Toronto premiere



Jon Hamm gets into the swing of single life with a tennis match... as he gears up for Emmy Awards
Keeping busy after split from Jennifer Westfeldt



Not kicking up a stink!
Ariana Grande launches her new fragrance with her backup dancing love interest and donut-gate co-conspirator by her side



Yeezy does it! It's all work and no play for Bella Hadid who walks in Kanye West NYFW show with Kylie Jenner then hits the gym
Out in Manhattan



'You don't know what I'm going through': Tyra Banks, 41, breaks down as she complains about social media grillings over having children amid fertility heartbreak

'I didn't feel I had proper roots till I had her': Single mother Sienna Miller describes 'beautiful and simple' life with daughter Marlowe



Who's the Boss! Lupita Nyong'o tears herself away from rehearsals as she joins Dylan Penn for a stylish turn at Jason Wu's NYFW women's wear show



Mad for the fashion, darling! Christina Hendricks, Kat Graham and Ashley Greene capture snaps on their phones as they take front row at Naeem Khan's NYFW show



Heath Ledger's twin nieces bear striking resemblance to late actor as they make their runway debut at Perth Fashion Festival
Youngsters joined models



One for the family album! Beyonce shows off her holiday style in leopard print maxi skirt and crop top as she happily snaps photos of daughter Blue Ivy



French WAG Jessica Lemarie gives onlookers an eyeful as she swims naked during romantic getaway with footballer Robert Pires
Seen cavorting in the water



He's got good jeans! A buff Liam Hemsworth cuts a casual figure as he jets out of Toronto after promoting his new film The Dressmaker
On the move again



Spring in her step! Fresh-faced Bindi Irwin strikes a pose as she leaves DWTS rehearsals with shirtless Derek Hough



Kevin Spacey jokes that he's talking 'only to Donald Trump' when addressing the camera on House Of Cards
Mocked political hopeful on The Late Show



What not to read in public? Trinny Woodall wraps up in heavy coat as she steps out clutching a book on the menopause
Open about things



Naomi Campbell, 45, bares her breasts in daring 'free the nipple shoot'... before Instagram bosses DELETE it over nudity clause



Keeping up with Kendall: Jenner sashays down the runway in tiered skirt and tank top at Michael Kors fashion show



Sacré bleu! Justin Bieber gets the Presidential treatment in Paris as his car is flanked by TEN bodyguards as he heads to street

performance



Making a molehill out of a mountain! 'Game Of Thrones' star is beaten in arm wrestling contest with rival 200lb lighter'



Bobbi Kristina Brown AND Whitney Houston were murdered claims aunt Leolah... who says Nick Gordon was behind niece's death



Harry the hairy hunk: How his new and attractive facial fuzz is proof that not all royal men are chinless wonders



Make-up free Home & Away star Kate Ritchie steps out with husband Stuart and baby daughter Mae for early morning stroll



Now it's work time! Eva Mendes unveils her New York & Company fashion collection after opening up about motherhood and life at home with Ryan Gosling



Princess Leia's £77,000 bikini: Gold outfit worn by Carrie Fisher in Return of the Jedi among selection of Star Wars memorabilia going under the hammer



Gorgeous in green! Solange gives peekaboo glance at cleavage in emerald dress with shimmering sheer panels for Brooklyn party



Sharpen the palette knives! Bake Off will be a bunfight to the death: Christopher Stevens reviews last night's TV It's starting to turn brutal



Kellie Maloney breaks down in tears as she watches her debut film role recorded BEFORE her transition and says it's 'nothing like the person she is now'



EXCLUSIVE: 'On vacation with my wife - woo woo!' Tatum O'Neal's public profession of passion for Rosie O'Donnell as they relax at talk star's new Florida love nest



Jennifer Lopez is all business as she films Shades Of Blue scenes in Brooklyn... after cutting \$2.5m off price of luxury California estate that's failed to sell



Fashion lovers! Vanessa Hudgens flashes toned legs in floral halter dress as she grabs breakfast with boyfriend Austin Butler



SEBASTIAN SHAKESPEARE: Coy Nigella Lawson turns pink at Bond girl flattery
'At my age, I think M would be more appropriate!'



Can you tell a fake designer handbag from a real one? Undercover investigation exposes \$500bn black market - and reveals how to tell if you've been duped



She's not shy! Former TOWIE star Pascal Craymer gives onlookers an eyeful as she parties at beauty launch in London
Mario Falcone's ex



What's your style tribe? Take the quiz to find out - and then discover what you should be wearing now, and where to buy it



'Really feeling my look here': Emily Ratajkowski pokes fun at herself as she posts cute flashback snap
24-year-old posted a cute throwback picture



Naomi Watts and Olivia Wilde collar up for a stylish front row appearance at the Michael Kors NYFW show
Making an effort



High-flyers who are happier being stay at home mums: Feminazis will rage but three women confess they prefer babies to work
It's their choice



The night a mob of raging mothers tried to lynch a Nazi pilot: A hair-raising story in a gripping book on heroines of the Blitz



Agh! I can't take the torture of children's telly any more! Lorraine Candy on her urge to murder kids' TV characters



Pregnant Kelis glows as she conceals her blossoming baby bump in a hot pink blouse while promoting cook book in Manchester



What sort of madwoman spends hours taking pics of her food? It might seem weird, but posting food photos on Instagram is now an obsession



My dirty little secret? I sneak my rubbish into my neighbours' bins at night - because I can't be bothered to drive to the tip!
This will anger many!



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GADGET REVIEWS

[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..

comments 1 video

[No more tangled wires: Powerbeats2 Wireless review](#)

Beats by Dre's Powerbeats2 headphones have a new look - so now you can pound the treadmill, listen to your favourite tunes and make sure you're fully colour-co-ordinated.

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

[The Mail's verdict on the Apple Watch](#)

While it's not the first smartwatch on the market, the \$349 (£299) Apple Watch is the first you'll actually want to use - and will change the way you communicate.

501 comments 5 videos

[\\$99 'morphing' Phorm case adds physical keys to iPad](#)

Californian-built Phorm (pictured) consists of a case and screen protector lined with microfluidics - small amounts of fluid that raises up from the screen when a button on the case is pressed.

4 comments 1 video

[Apple iPhone 6 and 6 Plus](#)

MailOnline has spent a week with Apple's new handsets - and found they could change the way we shop - and put clear water between Apple and its rivals.

633 comments 1 video

[The tiny \\$299 wireless headphones that could mean the end of tangled wires](#)

The Dash headphones are wireless, and even contain their own MP3 player and fitness trackers, and won a best in show award at CES in Las Vegas.

107 comments 1 video

[Headphones: Musical Fidelity EB-33](#)

The Musical Fidelity EB-33 in-ear headphones are impressive. They offer a strong performance which more than matches their value - and look good too.

[comments](#)

Gadget of the week: Orbotix Sphero 2.0

The Sphero 2.0 is a modern Christmas present. In years past you would have had a remote-control racing car running on AA batteries.

[1 comment](#) [1 video](#)

Gadget review: Snugs fitted earphones

Sound quality is normally the purpose of a headphones review - but not in the case of Snugs, because they can be used on any earphones.

[comments](#)

Gadget review: Tivoli Radio Silenz noise cancelling headphones

The Tivoli Audio Radio Silenz headphones are light, comfortable and portable, which makes them good for travel. They feature stylish wood panels.

[comments](#)

Gadget review: Jawbone Mini Jambox

Fun. That's the first word that comes to mind when reviewing the Jawbone Mini Jambox. As you would expect from a product with mini in its name, it's small.

[comments](#)

Gadget of the week: Philips Wake-up Light can make the mornings easier

Nobody likes getting up in the morning. That's a fact. So spending money on anything that makes it less painful is probably a sound investment.

[3 comments](#)

Gadget review: Klipsch Image X7i in-ear headphones with 3-button control

The Klipsch X7i headphones are nearly perfect. Nearly. The sound is excellent - and in headphones, that's 90 per cent of the battle won. Just some blips hold them back.

[comments](#)



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