



**CITY UNIVERSITY
LONDON**

Identifying and Verifying News through Social Media

University of Hamburg, 12 January 2015

Dr Neil Thurman
@neilthurman



Carrier
4:05 PM
100%

social sensor
Sort
Tweets

Login with your Twitter

Topics
People
Organizations

The President of Uganda, Yoweri Museveni, says he will mobilise African countries to pull out of the International Criminal

getting into another ship is not 18 times Taylor Swift was right about everything in 2014. You need to live it on

Where does plastic in the ocean end up?

The budget deal gives the Pentagon just as much money as it got during the Iraq War

Trends

Jesse Jackson, Tim Cook and the 'storming' of Apple HQ <http://t.co/8L2gOz0Q31>

New York City, United States
0

Nadhim Zahawi @nadhimzahawi
Great to meet with the Stratford Town Transport Group and honoured to be asked to formally join it. <http://t.co/KQ03x1KuQ>

Stratford, United States
0

The Irish Times @IrishTimes
David Cameron lacks desire to engage with Northern Ireland <http://t.co/qpME>

Dublin, Ireland

Sugarscape @sugarscape
Is Mel B going to miss the X Factor Final due to illness? Gulp. <http://t.co/EuX7tzTWLQ> <http://t.co/2xmWVkg4W>

UK, Russia
0

Fashionista.com @Fashionista.com
The best gifts are the ones that smell amazing, right? <http://t.co/mQ3V6rKLv0> <http://t.co/hbJy5Gw6k>

New York City, United States
0

The Paris Review @parisreview
"We cannot step even once in the same river. We cannot step even once in the same text." —Harold Bloom. <http://t.co/QLXYwfPEpd>

New York City, United States
0

CS Monitor @csmmonitor
Estonia is accepting applications for 'e-residency' is it the end of the nation state as we know it? <http://t.co/XXwE2bx07V>

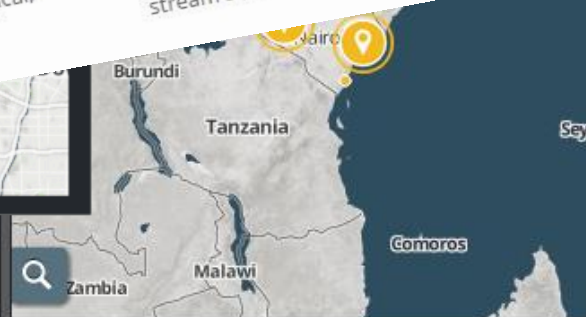
New York City, United States
0



Social media, personal communication, multi-platform content providers, but also increasingly networked sensors that provide a continuous, ever-growing data stream in real time. While intelligence (keyword Prism, tensions) and dominant Internet company Big Data technologies use to extensive data collection,

perform, even journalism with sustainable technologies must be equipped to the core journalistic tasks - such as recycling data, analyze and publish it as comprehensible reporting - to secure and expand. This is of great technological, but not least, social relevance,

to the population to continue to supply reliable information and guidance. In addition, these journalistic more values decide how can the business models of media companies make in the future. This challenge arises the project "news stream 3.0".



LN @desunovabeach: Raia Odinga has impeached the Constitution ~ 10:05AM

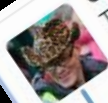


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Tools for Algorithmic news detection & verification

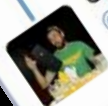
- How can they help journalists in their work?
- Might they threaten journalists' jobs?
- How do they work?
- What biases might they have (and can we even find out)?





Chipps @Chipps · 12m

Tonight, my band is playing [@thetradesclub](#) in Hebden Bridge. Come along and have a fun night out. Free entry and great beer!



Greg May, PhD @greg_may · 36s

[@Chipps](#) [@thetradesclub](#) What time? I can walk down from my new house :)



Nick Bramhall retweeted
Roger H. @rogerha · 3h

Today's [@xkcd](#) should amuse both [@bengoldacre](#) and [@GeorgeMonbiot](#)
[xkcd.com/1471](#) (click link for mouseover txt)

I SEE THE PROBLEM.
YOUR GUT MACROBIOME
IS OUT OF BALANCE.
ONE MOMENT.



19

I THINK YOU MEAN
MICROBIOME.

...RIGHT?



11

NO. HERE, SWALLOW THIS.
DO YOU NEED A
GLASS OF WATER?



Expand



BMC retweeted

TelegraphOutdoorShow @OutdoorsShow · 13h
Registration is live for [@archclimbing](#) [@super_bloc](#) Open! [@dmmclimbing](#)
[@UkClimbing](#) @Team_BMC goo.gl/r7WGiY



[@dmmclimbing](#)



Expand



Robert Cole

1 hr · Twitter ·

Tories should call off search for anti-Ukip strategy -
<http://t.co/QvEupmOwz2> <http://t.co/wr6OitelOH> via @FT



World business, finance, and political news from the Financial Times - FT.com

The latest UK and international business, finance, economic and political news, comment and analysis from the Financial Times on FT.com

FT.COM

Like · Comment · Share ·



Paul Rowley Love your posts Rob!

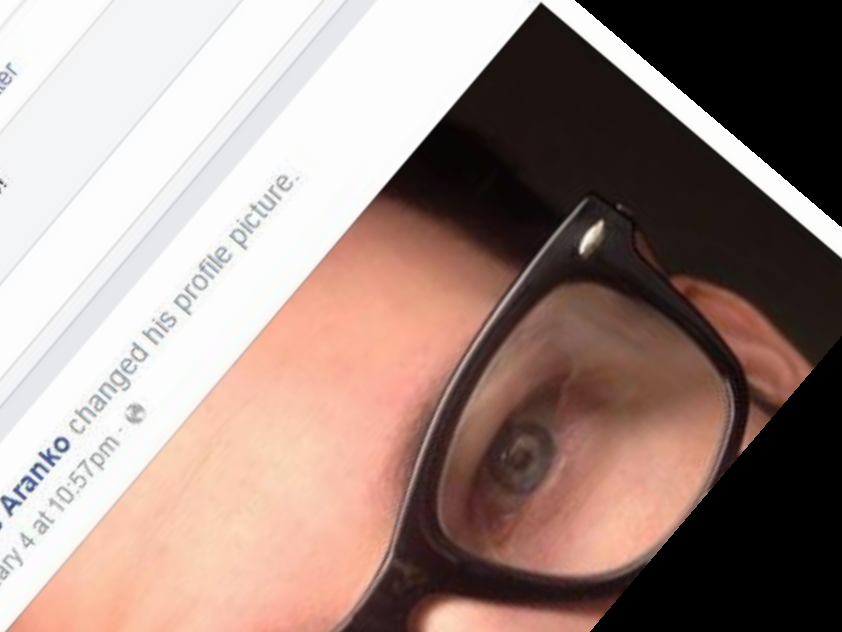
55 mins · Like

Write a comment...



Markus Aranko changed his profile picture ·

January 4 at 10:57 pm ·



A word cloud featuring various terms in different sizes and colors (green, brown, yellow) on a white background. The words are arranged in a dense, overlapping manner. The largest words are 'elite' (green), 'magnitude' (yellow), 'surprise' (yellow), 'threshold' (brown), and 'news' (brown). Other prominent words include 'nations' (yellow), 'unexpectedness' (brown), 'meaningfulness' (yellow), 'celebrity' (yellow), 'people' (brown), 'reference' (brown), 'good' (brown), 'bad' (brown), 'composition' (green), 'unambiguity' (yellow), 'continuity' (brown), 'frequency' (brown), 'follow' (green), 'entertainment' (brown), and 'relevance' (green).

reference
nations
good
threshold
composition
unambiguity
news
bad
celebrity
elite
people
magnitude
continuity
unexpectedness
meaningfulness
frequency
follow
entertainment
surprise
relevance



Jānis Krūms

@jkrums

Entrepreneur, Athlete, Latvian-American. CEO/Founder of @opportunity - Real-Time Professional Discovery - @YEC member Investor: @memsql @humandotco @plangrid



There's a plane in the Hudson. I'm on the ferry going to pick up the people. Crazy.

1,017,083 2181 days ago



Boston Police Dept. 
@bostonpolice



 Follow

Suspect in custody. Officers sweeping the area. Stand by for further info.



RETWEETS
71,380

FAVORITES
18,206



1:45 AM - 20 Apr 2013



Craig Jenner @craiglet · 16 Jan 2013

Helicopter just hit our building in vauxhall pic.twitter.com/HbktDNkp



2.4K



115





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- For stories mainstream media / newswires ignore
- To give editors heads-up on trends & sentiment
- To provide updates on a running story,
- To provide multimedia content & comment / contacts





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- If Social Media breaks news faster than “newswires” (defined as Reuters, BBC, CNN, Google News, NYTimes, Guardian, Wired, The Register)
- If Social Media carries news not carried by newswires
- If newswires carry news not carried by Social Media



Event	Newsire	Twitter	Facebook	Google Plus
Uruguay legalizes cannabis				
Pope person of year				
Bubonic plague outbreak				
Golden Globe nominations named				
Jang Sung-taek executed				
Google removes privacy feature				
Car bomb in Mali				
Peter O'Toole dies				
Chinese on moon				
Jameis Winston wins Heisman				
Jane Fontaine dies				
Google buys Boston Dynamics				
Michelle Bachelet elected				
RnR Hall of Fame inductions				
Santiago wins Miss World				
Two sentenced for drug smuggling				
Angela Merkel reelected				
Australia wins Ashes				
Gonzalo Inzunza Inzunza killed				
Pussy Riot given amnesty				
Ronnie Biggs dies				
Target credit cards compromised				
Apollo Theatre ceiling collapses				
Canada overturns prostitution laws				
Alan Turing pardoned				
Shinzo Abe visits Yasukuni shrine				
Joaquin Guzman heart attack				
MS King Seaways catches fire				

Source: Osborn, M. and Dredze, M (2014) Facebook, Twitter and Google Plus for Breaking News: Is there a winner? Proceedings of the Eight International AAAI Conference on Weblogs and Social Media.

Where Twitter was first

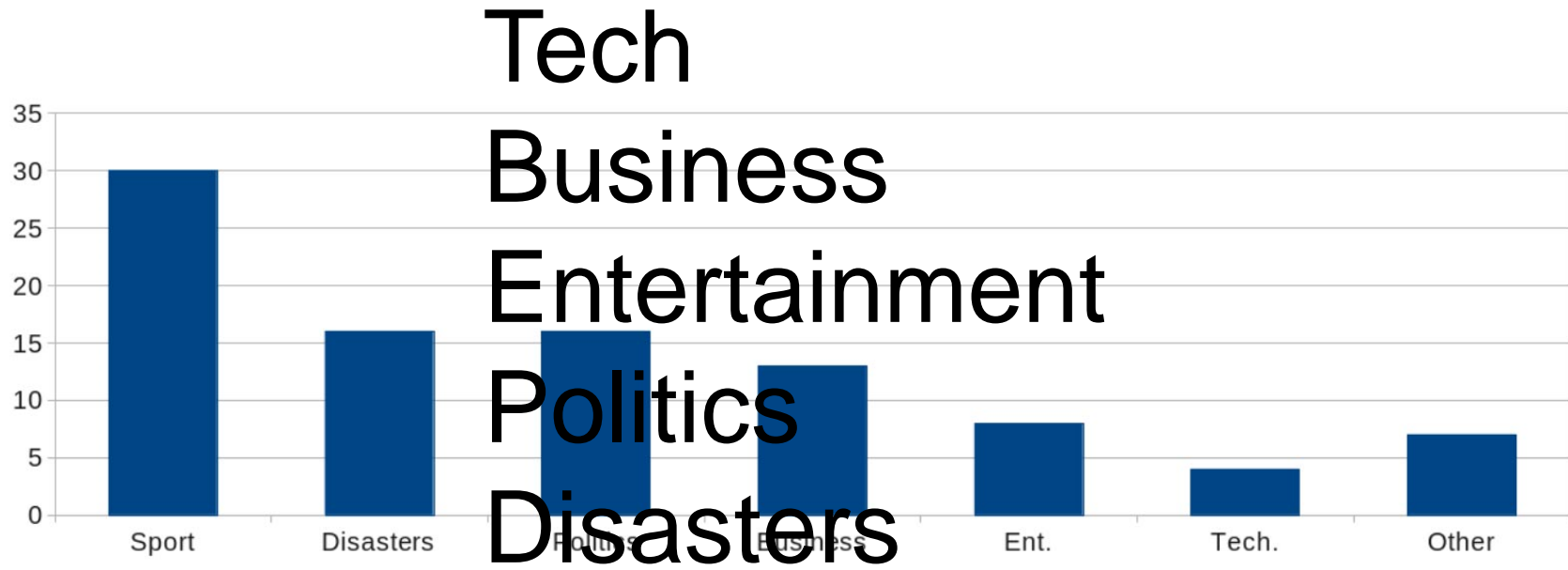


Figure 2: Events categories where Twitter leads.

Source: Petrovic, S. Osborne, M, et al, 2013 Can Twitter Replace Newswire for Breaking News? Proceedings of the Seventh International AAIL Conference on Weblogs and Social Media

Only carried on Twitter



Canadian Ice Hockey player



RIP Rick Rypien. Sad to see another death in the NHL. Too many tragedies in the world lately...
UFC on Versus 5 results: Jacob Volkmann def. Danny Castillo via unanimous decision (29-28, 29-28, 29-28)
RT @NASA: NASA is ready to move forward with Space Launch System, a new capability for human exploration beyond Earth
Car reg NP05 LPU looting PC World Charlton. Retweet and shame.
RT @DerbysPolice: To reiterate rumours circulating there is disorder or looting in Derby city are untrue. Please RT. #derby #police

Table 3: Examples of events reported on Twitter, but not in our newswire data.

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Only carried on Twitter



UFC fighter



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Only carried on Twitter



London riots 2011

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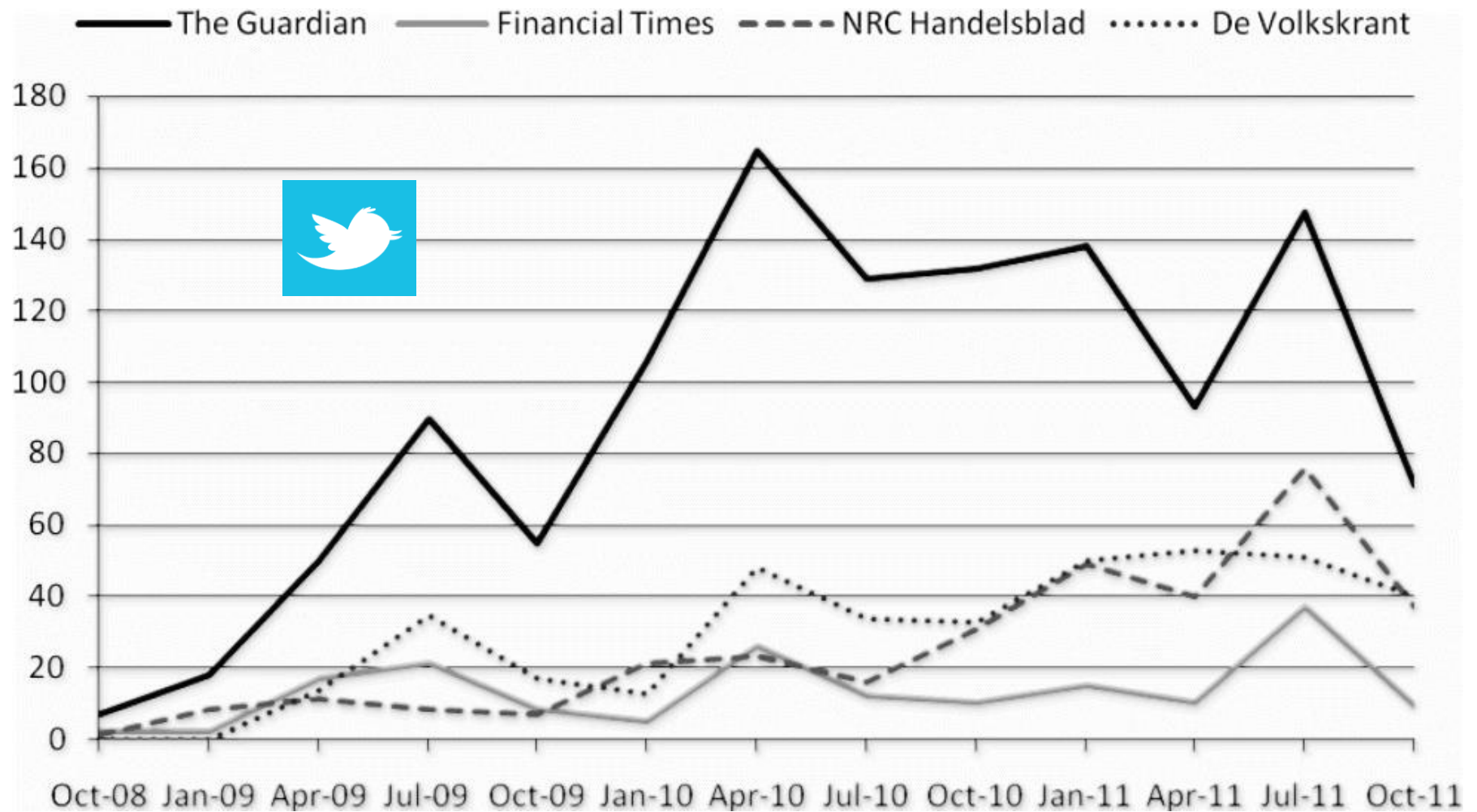
UK riots 2011



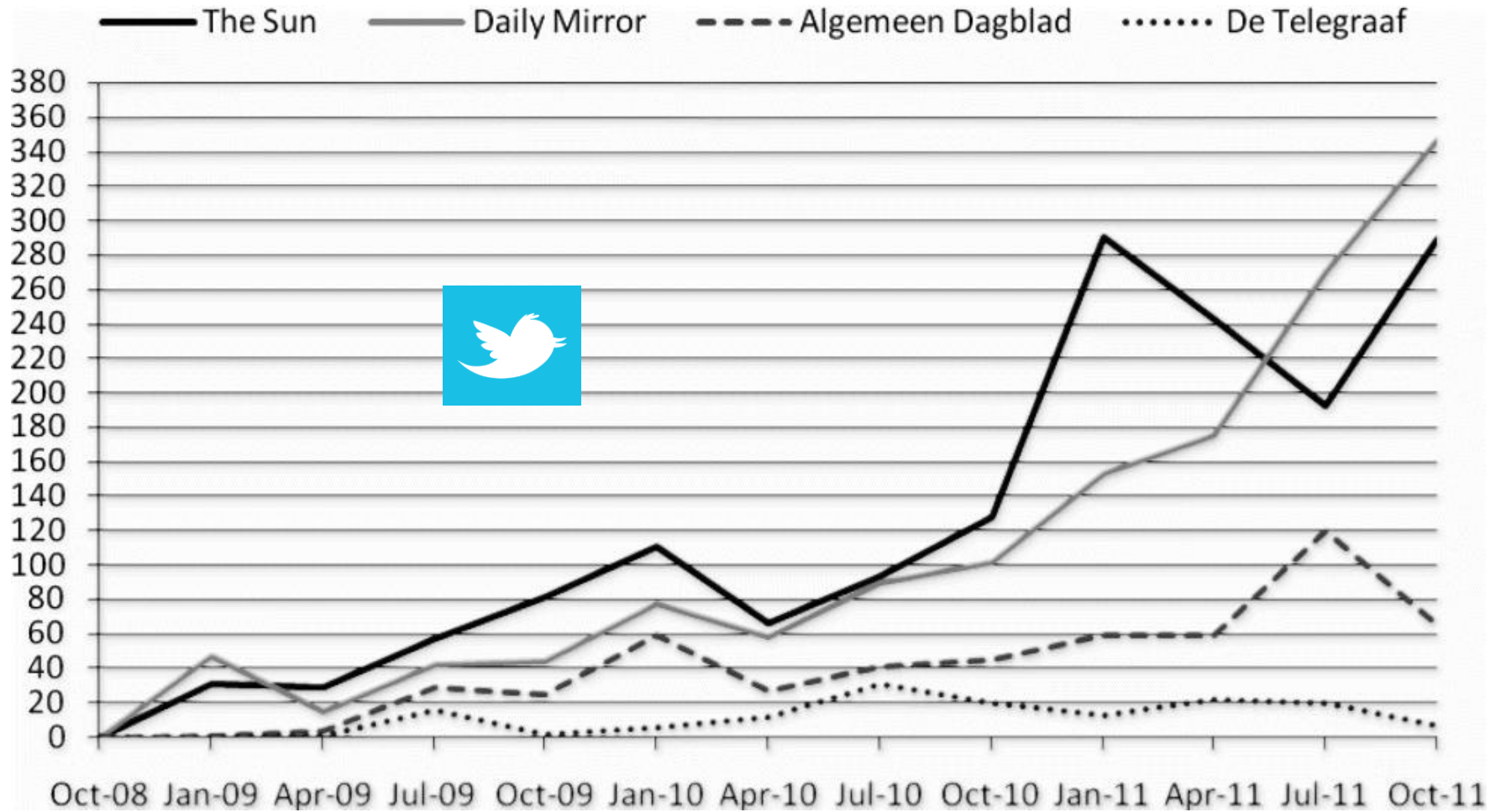
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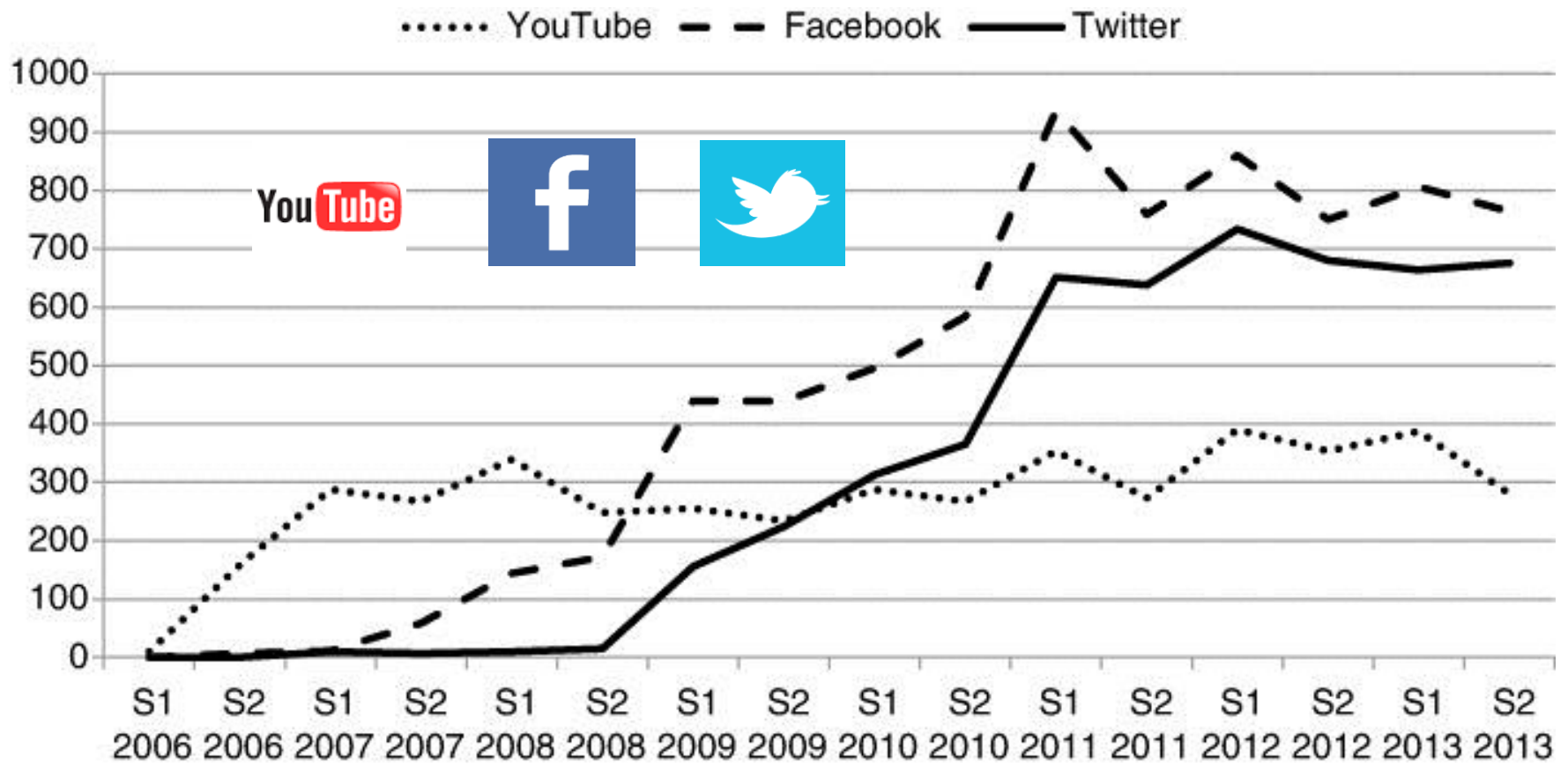
Source: Petrovic, S. Osborne, M, et al, 2013 Can Twitter Replace Newswire for Breaking News? Proceedings of the Seventh International AAIL Conference on Weblogs and Social Media



Source: Broersma and Graham (2013)



Source: Broersma and Graham (2013)



Source: Paulussen and Harder (2014)

Newspaper articles / Broadcast news packages quoting social media (per outlet per day)

8 UK & Dutch Quality &
Tabloid Newspapers
(2011)

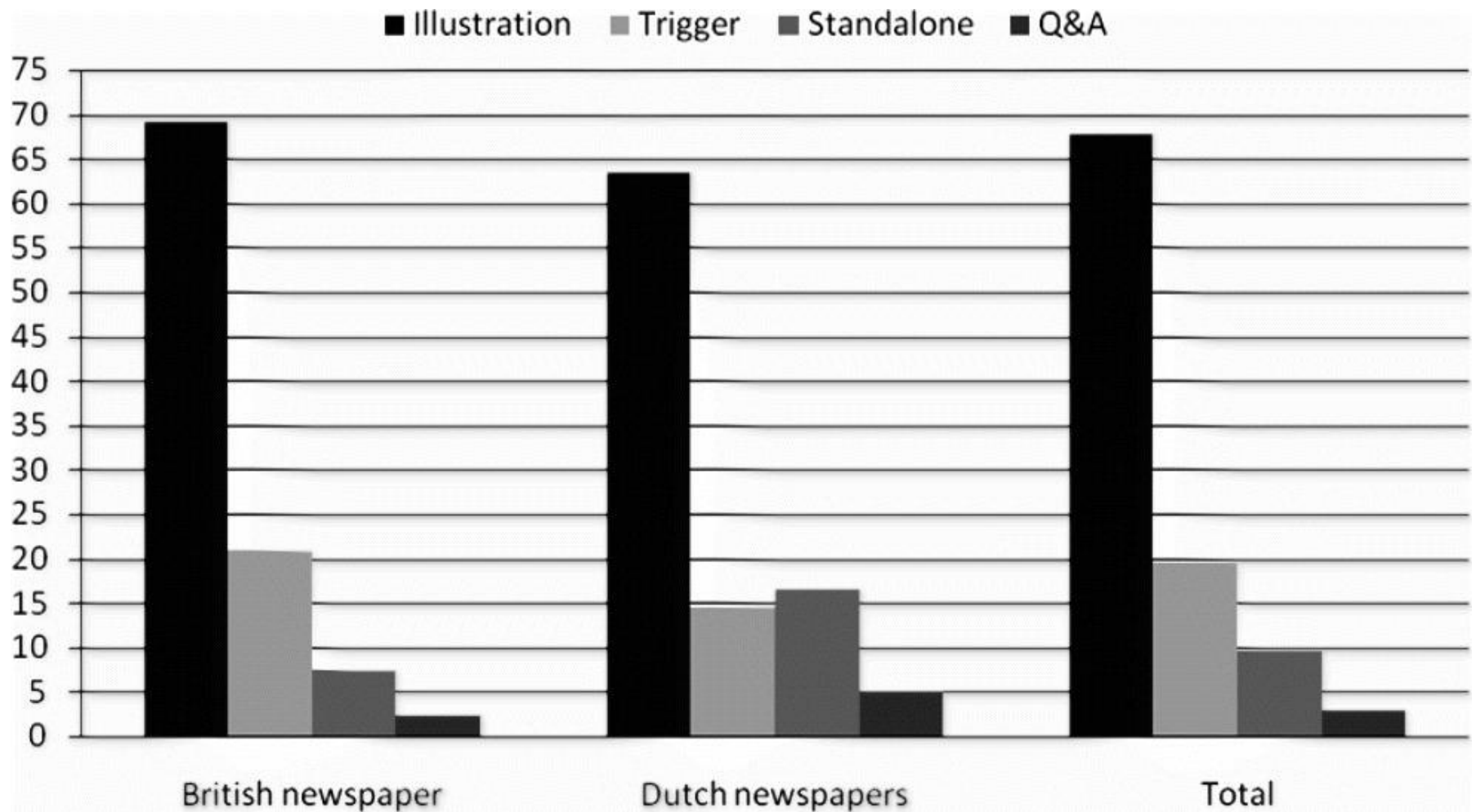
Source: Broersma and Graham (2013)

7 Elite US newspapers
and TV stations (2010-11)

Source: Soo Jung Moon and Patrick
Hadley (2014)

2 quality Flemish
newspapers (2013)

Source: Paulussen and Harder (2014)

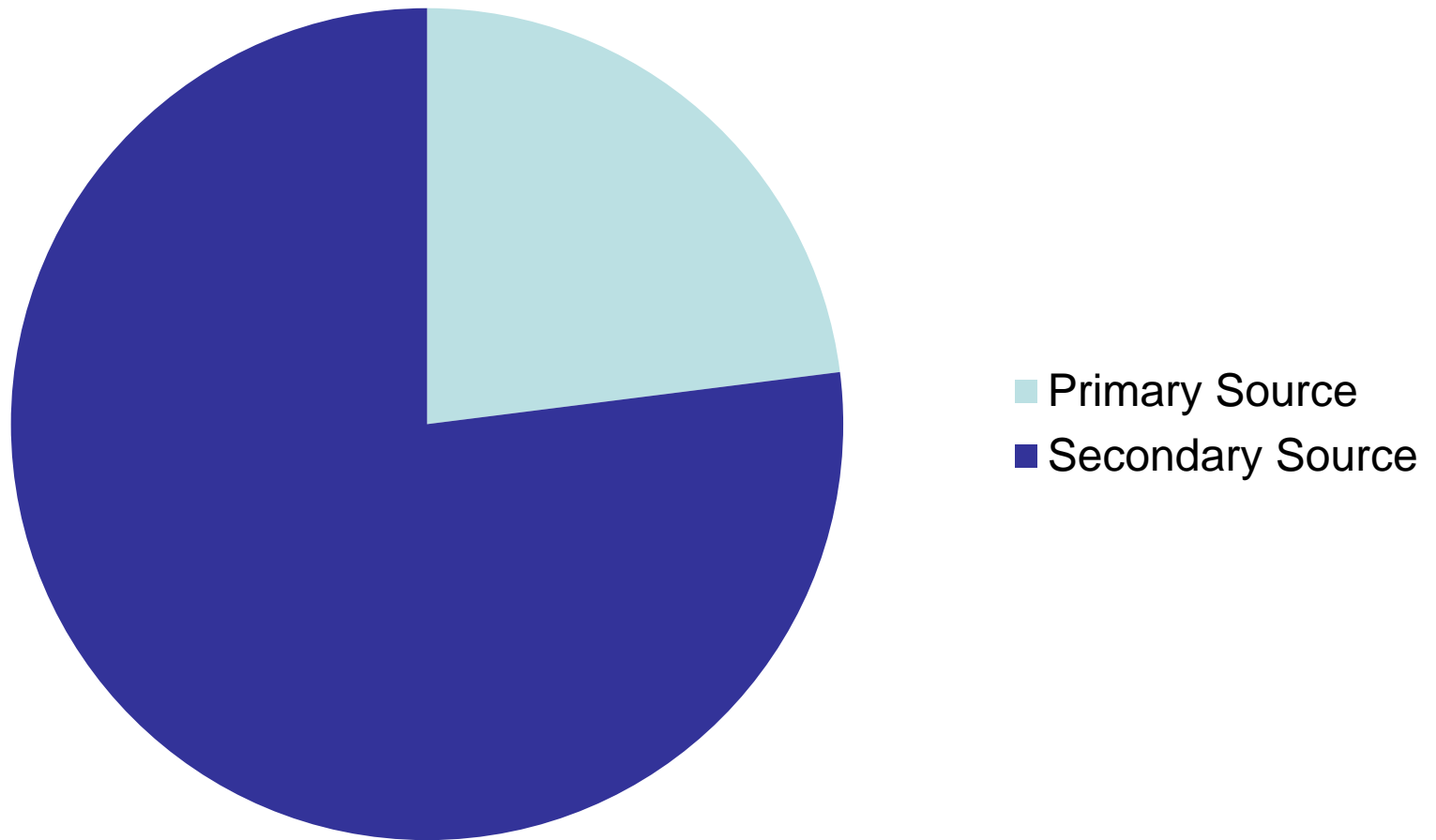


Source: Broersma and Graham (2013)



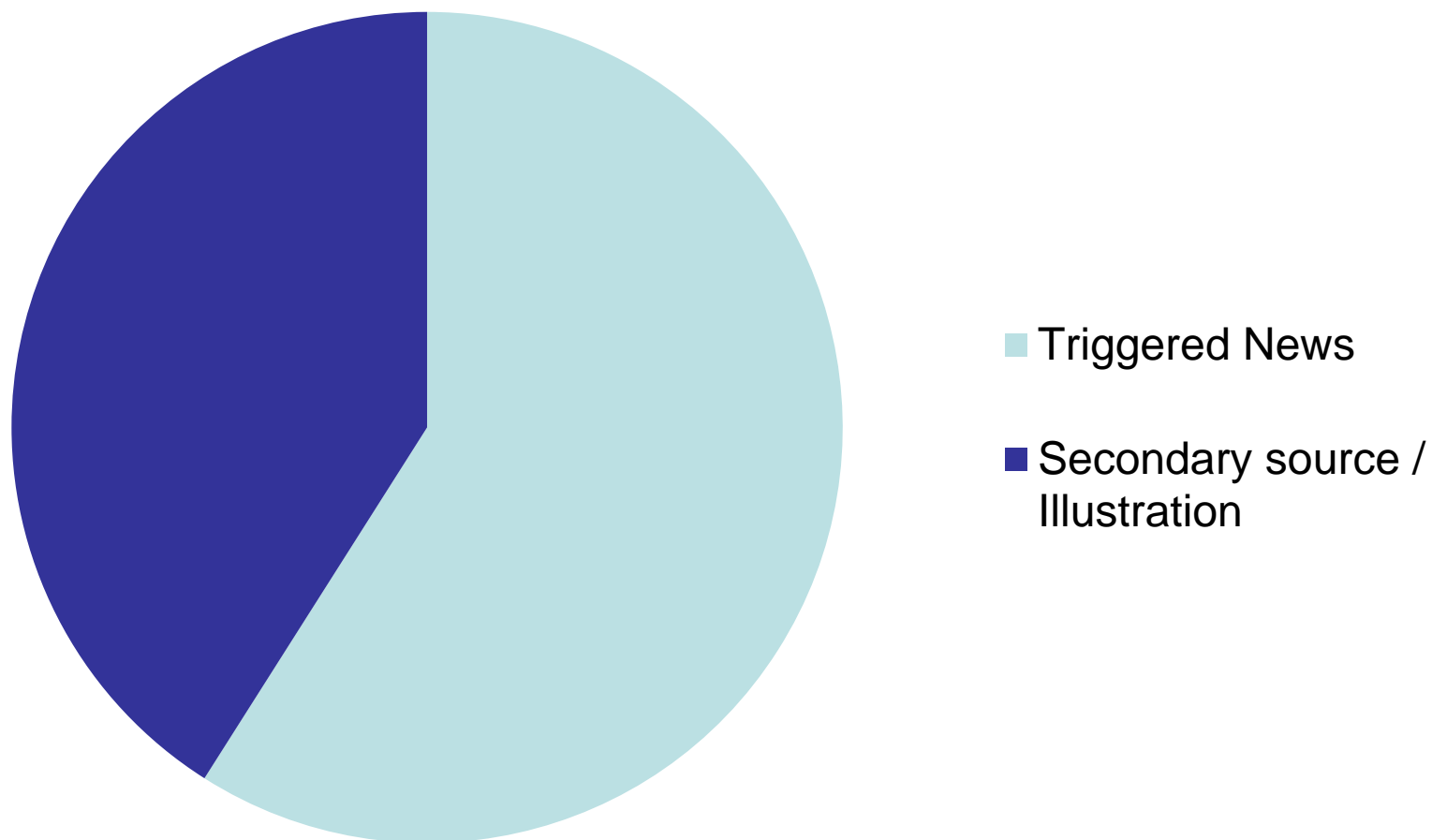


Twitter used as a primary source in articles where it is a source in elite US newspapers



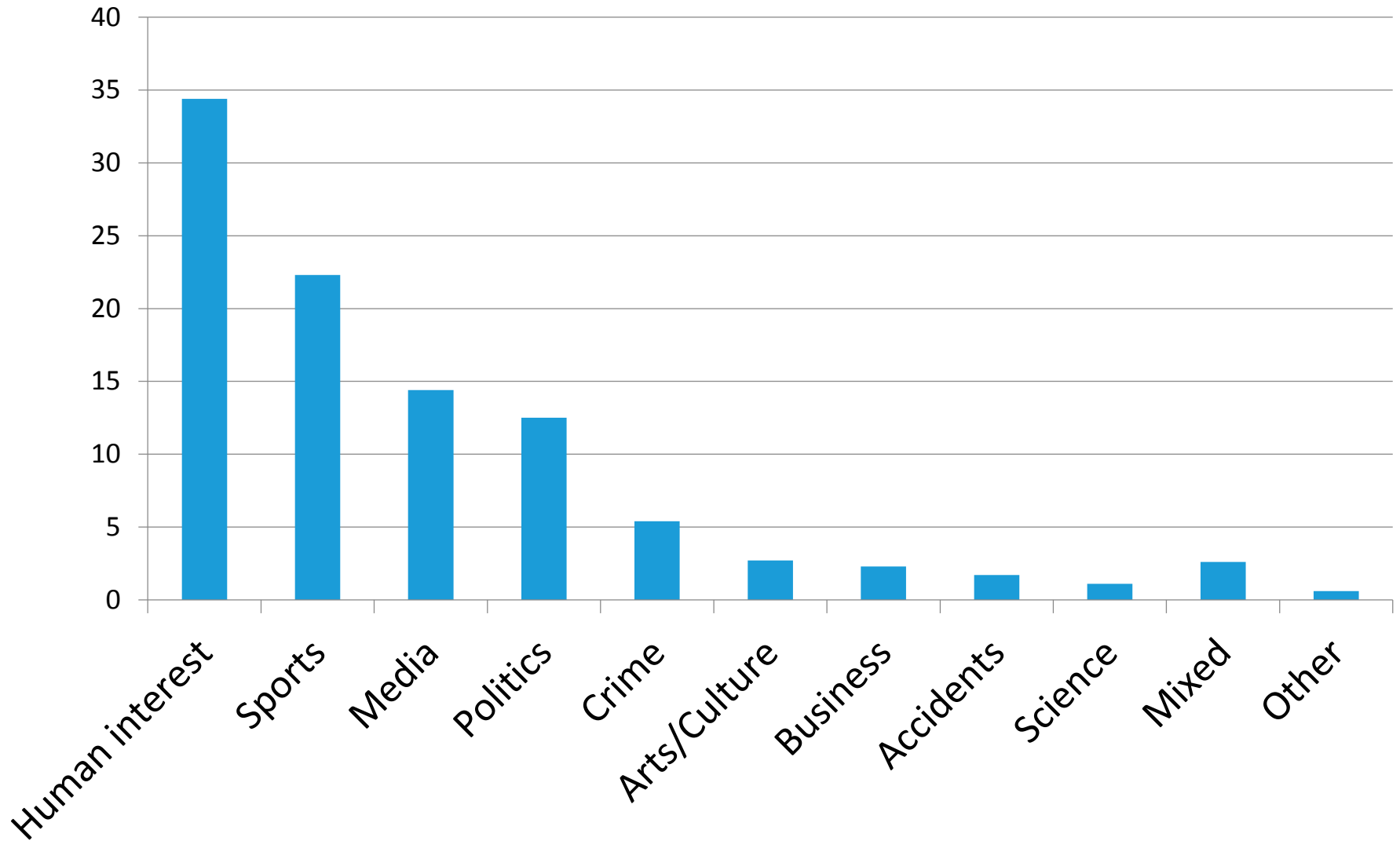
Source: Soo Jung Moon and Patrick Hadley (2014)

How Social Media is used in Flemish newspaper stories



Source: Paulussen and Harder (2014)

Types of story using Tweets as source (%)



Source: Broersma and Graham (2013)

Types of story most likely to use social media a source

Showbiz

Culture/arts

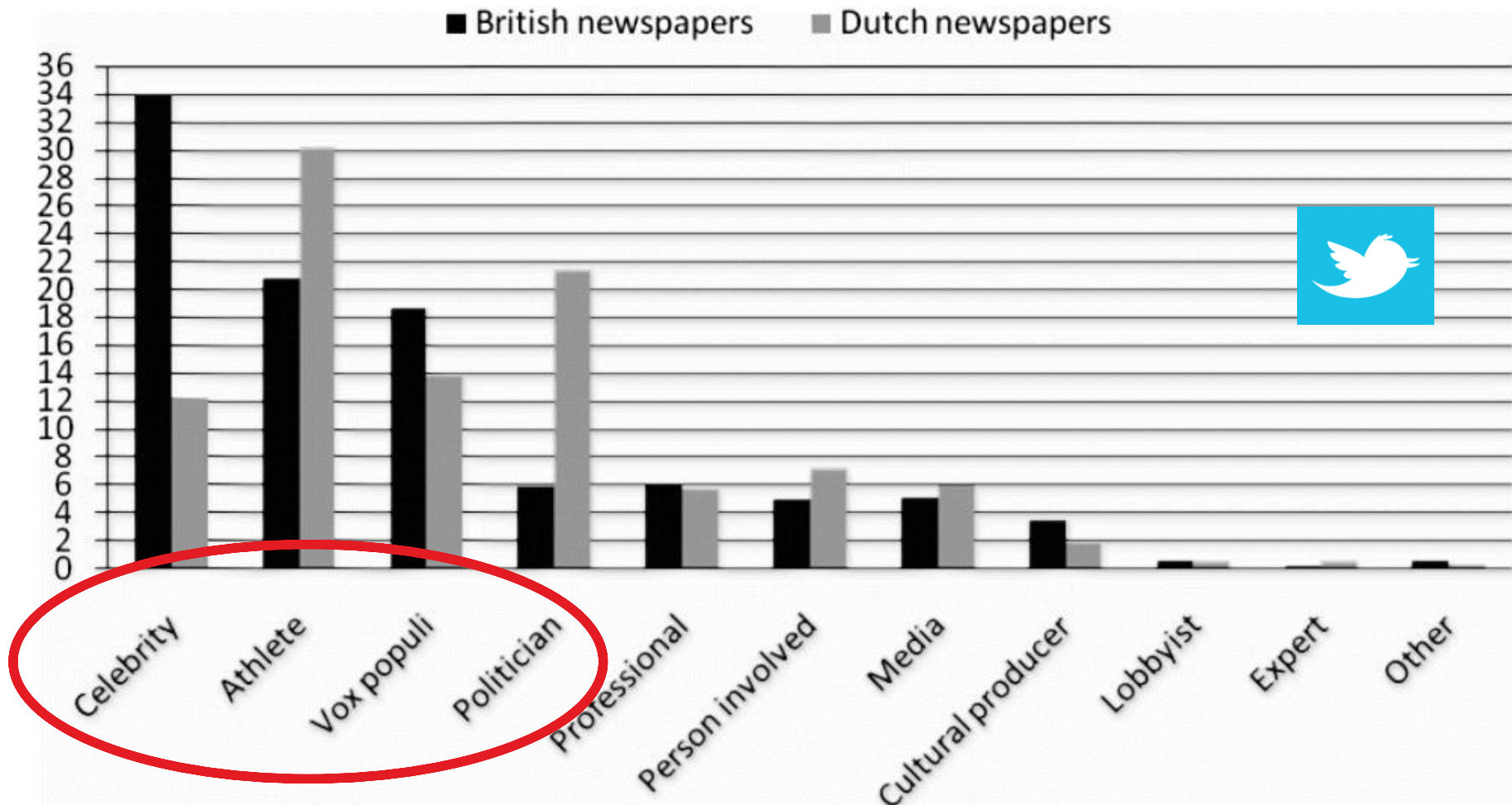
Sports

Human Interest

Politics

Source: Paulussen and Harder (2014)

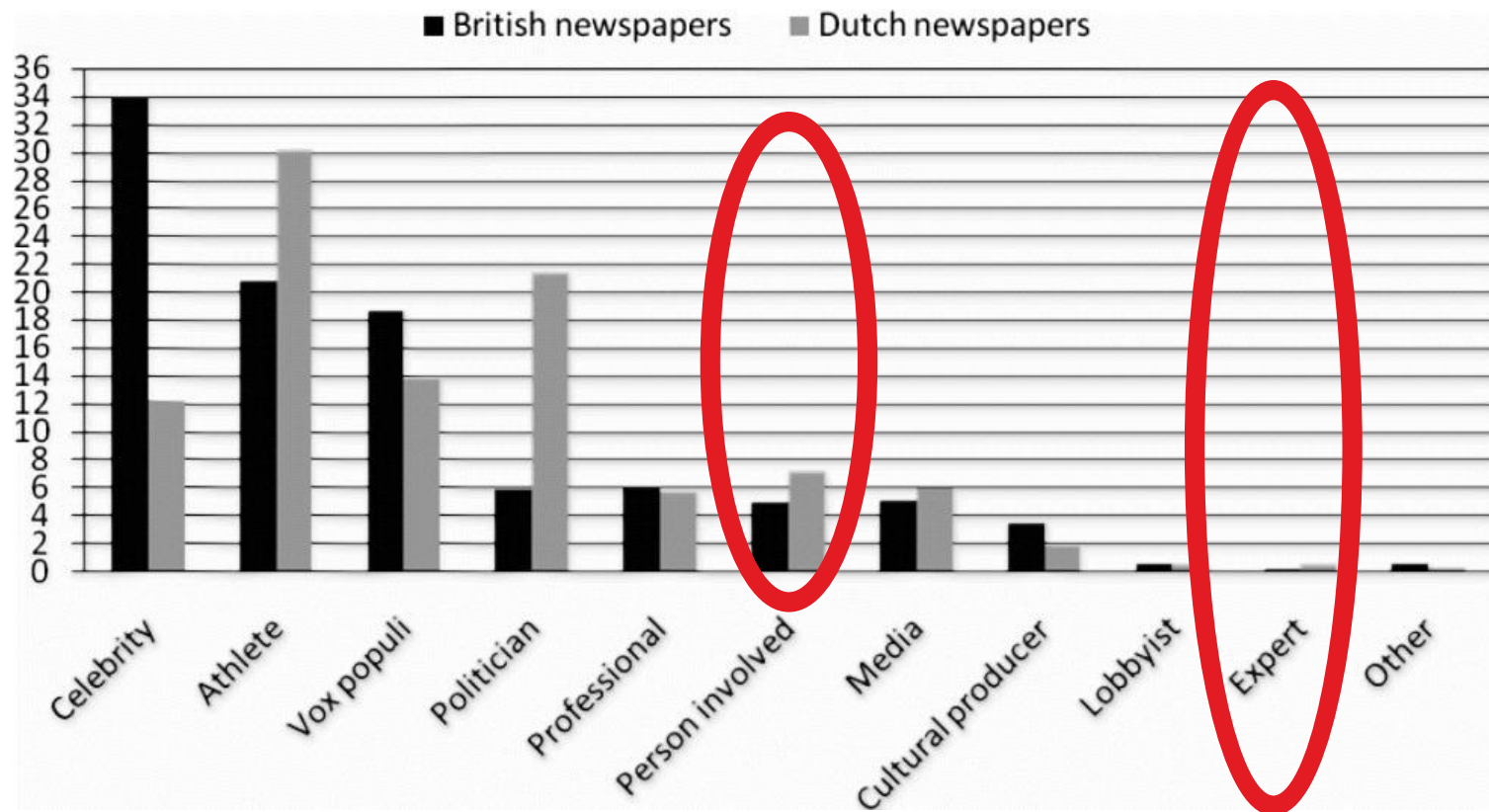
Types of social media contributor quoted in UK & Dutch newspapers



Source: Broersma and Graham (2013)

Social Media in the mainstream media:

- Used relatively infrequently
- Often for illustration rather than to trigger news
- Often celebrities, sports stars & politicians quoted





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- To spot (the few) high-magnitude stories that do break 1st on social media
- For stories mainstream media & newswires ignore (often sports & hyperlocal)
- To give editors heads-up on trends & sentiment
- To provide multimedia content & comment / contacts
- To provide updates on a running story



“the biggest problem is how to exploit the vast amount of content in social media with a small team” – **MSN journalist** (pers. Comm. Jan 2012)

“we need algorithms to take more onus off human being, to pick and understand the best elements” – **New York Times’ Social Media Team member** (pers. Comm. Jan 2012)

“Current tools aren’t powerful enough” – **CNN social media expert** (pers. Comm. Jan 2012).

TOPSY

The screenshot shows the Topsy search interface. At the top, there's a search bar with 'whitney' entered. Below the search bar, it says 'Search results 1-10 out of 10,265 about whitney'. The results are displayed in a grid format. On the left, there's a sidebar with filters like 'Past 1 Hour', 'Past 1 Day', 'Past 7 Day', 'Past 30 Day', and 'All Time'. The main content area shows several search results, each with a thumbnail, a title, and a snippet of text. For example, one result is titled 'Whitney gave the world a glimpse and a reminder of the power of Love and Unity of the Church. #Whitney'. On the right side, there's a 'Mentions of "whitney" for past 1 hour' graph showing a line chart with data points.

NEWSWHIP

The screenshot shows the NewsWhip website. At the top, there's a navigation bar with links like 'NewsWhip', 'About', 'Spike', 'API & Widgets', 'Insights', 'Creators', and 'Blog'. Below the navigation bar, there's a large banner with the text 'PEOPLE POWERED NEWS'. On the left side, there's a 'LOCATION' filter with a list of countries including 'World Wide', 'U.S.', 'Australia', 'Canada', 'Ireland', 'New Zealand', 'India', 'Europe', 'China', 'South Africa', 'Brazil', 'Portugal', 'España', 'France', and 'Deutschland'. The main content area shows several news stories, each with a thumbnail, a title, and a snippet of text. For example, one story is titled 'Ebay to split off PayPal business'. On the right side, there's a 'Spreading fastest in: U.K.' section with a compact view toggle.

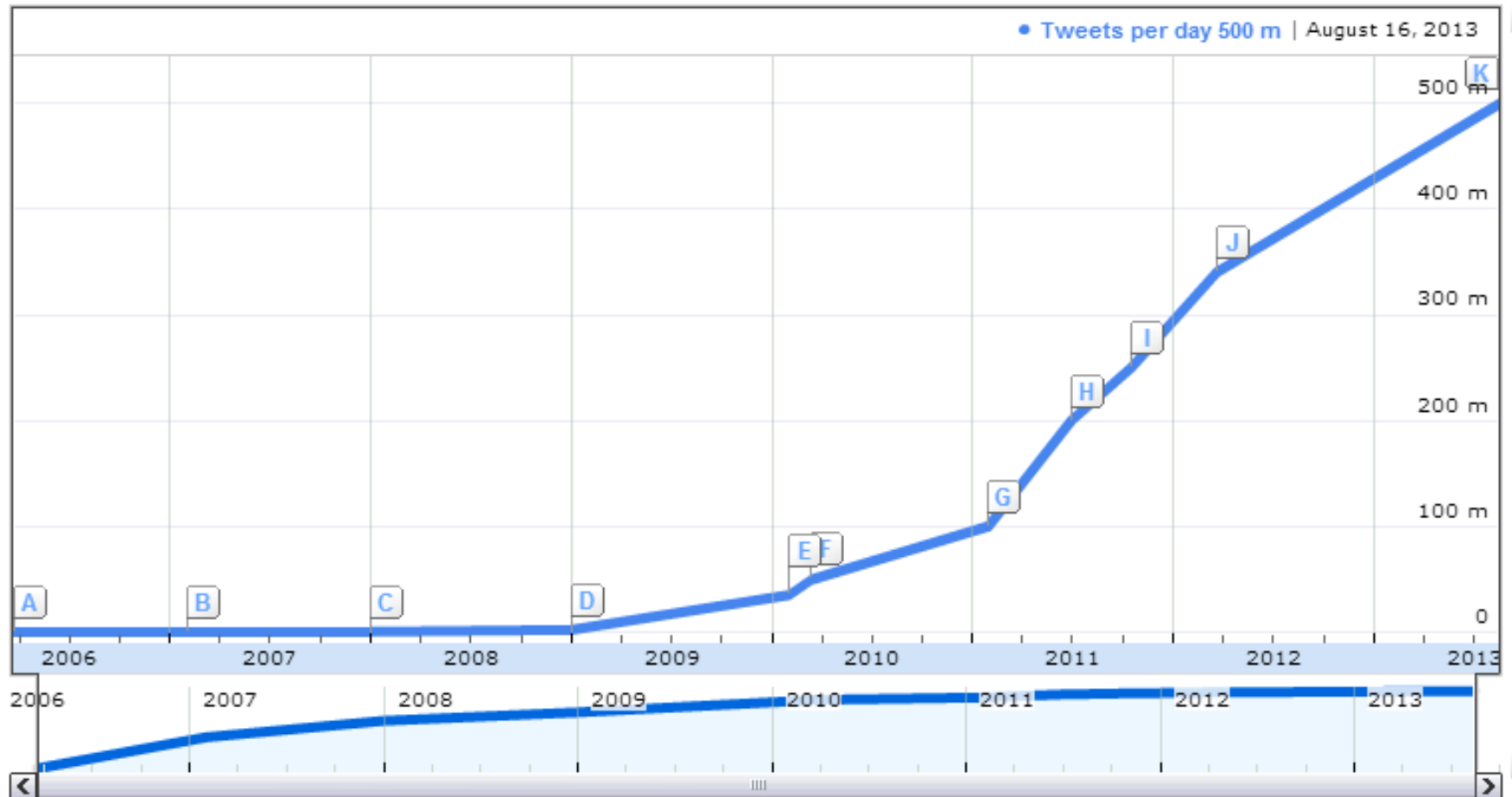
TWEETDECK

The screenshot shows the TweetDeck application interface. At the top, there's a header bar with the 'TweetDeck v0.38.2' logo and various icons. Below the header bar, there's a 'What's happening?' section with a 'DRAG MEDIA AND LINKS HERE' area. The main content area is divided into several columns. The first column is titled 'All Friends' and shows tweets from friends. The second column is titled '@tweetminster/ukmps' and shows tweets from that user. The third column is titled 'Search: wanstead' and shows search results. The fourth column is titled 'Trending: United Kingdom' and shows trending topics. Each column has a list of tweets, each with a profile picture, a name, a tweet text, and a timestamp.

TRENDSMAP

The screenshot shows the Trendsmap website. At the top, there's a navigation bar with links like 'Trendsmap', 'Map', 'Solutions', 'Blog', 'About', and 'Contact'. Below the navigation bar, there's a large map of the United Kingdom. Overlaid on the map are various trending topics, each with a hashtag and a location. For example, one topic is '#guardian' with the location 'London'. Another topic is '#sainsburys' with the location 'ukip'. The map also shows various cities and regions, such as 'Glasgow', 'Belfast', 'Dublin', 'Ireland', 'Hamburg', 'Germany', and 'Dresden'.

Growth in Tweets per day





Example list used to 'seed' NewsHound database



Lyse Doucet, Chief International Correspondent: [@BBCLyseDoucet](#)

Gavin Hewitt, Europe Editor: [@BBCGavinHewitt](#)

Lucy Williamson, Paris Correspondent: [@LucyWilliamson](#)

Fergal Keane, World Affairs Correspondent: [@FergalKeane47](#)

Chris Morris, Correspondent: [@BBCChrisMorris](#)

Christian Fraser, Correspondent: [@ChristianFraser](#)

Damian Grammaticas, Correspondent: [@DNGBBC](#)

Simon Wilson, Europe Bureau Editor: [@Siwilso](#)

Piers Schofield, Senior Europe Producer: [@Inglesi](#)

Natalie Morton, Senior Producer: [@NatalieMortonTV](#)

Imelda Flattery, Senior Producer: [@ImeldaFlattery](#)

Frank Gardner, Security Correspondent: [@FrankRGardner](#)

Gordon Corera, Security Correspondent: [@GordonCorera](#)



lyse doucet ✓

@bbclysedoucet

BBC Presenter and Chief International Correspondent. Canada is my country, London is my city, but am at home in many places.

bbc.co.uk/lysedoucet

Joined January 2010

Tweet to lyse doucet

11 Followers you know



Who to follow · Refresh · View all



Oli Reed @olireedoutdoors

Follow



Jo Burt @VecchioJo

Follow



Charlie @charlbubblehead

Follow

Popular accounts · Find friends

Trends · Change

TWEETS
16.9K

FOLLOWING
2,068

FOLLOWERS
75.2K

FAVORITES
30

LISTS
3



Follow



Magnus Shaw

@TheMagnusShaw

Magnus Shaw - staff writer at GroupBrand and editor of The Rocking Vicar. All opinions my own.



Follow



King Abdullah

@KAbdullahKSA

H.M. KING ABDULLAH BIN ABDULAZIZ AL SAUD, Custodian of the Two Holy Mosques, King of Saudi Arabia. Official Twitter Account



Follow



Misha Glenny

@MishaGlenny

Author, ex-BBC Correspondent, books, politics, history, org crime, hi-tech crime and security



Follow



Lisa Daftari

@LisaDaftari

@FoxNews analyst | #MidEast #CounterTerrorism #HumanRights | Founder @MidEastFaces TV/Radio Personality | 4-lingual, ❤️ Piano,...



Follow



colleen cleveland

@collecleve

Humanitarian / Global HR



Follow



Osman Sert

@osmansrt

Başbakan Basın Başmüşaviri, Senior Press Adv to Turkish Prime Minister, tweeting Turkish/English



Follow



Mark Wassouf

@MarkWassouf

Doughty Street barrister



Follow



Joseph Bahout

@jobahout

Carnegie-DC (Visiting Scholar). Middle-



Follow



Tom Henheffer

@Henheffer

CJFE Executive Director, NB export won



Follow

Score bounds

Being on the seed

Each seed that

Each seed that

Send at least

day

Verifi

tick

F



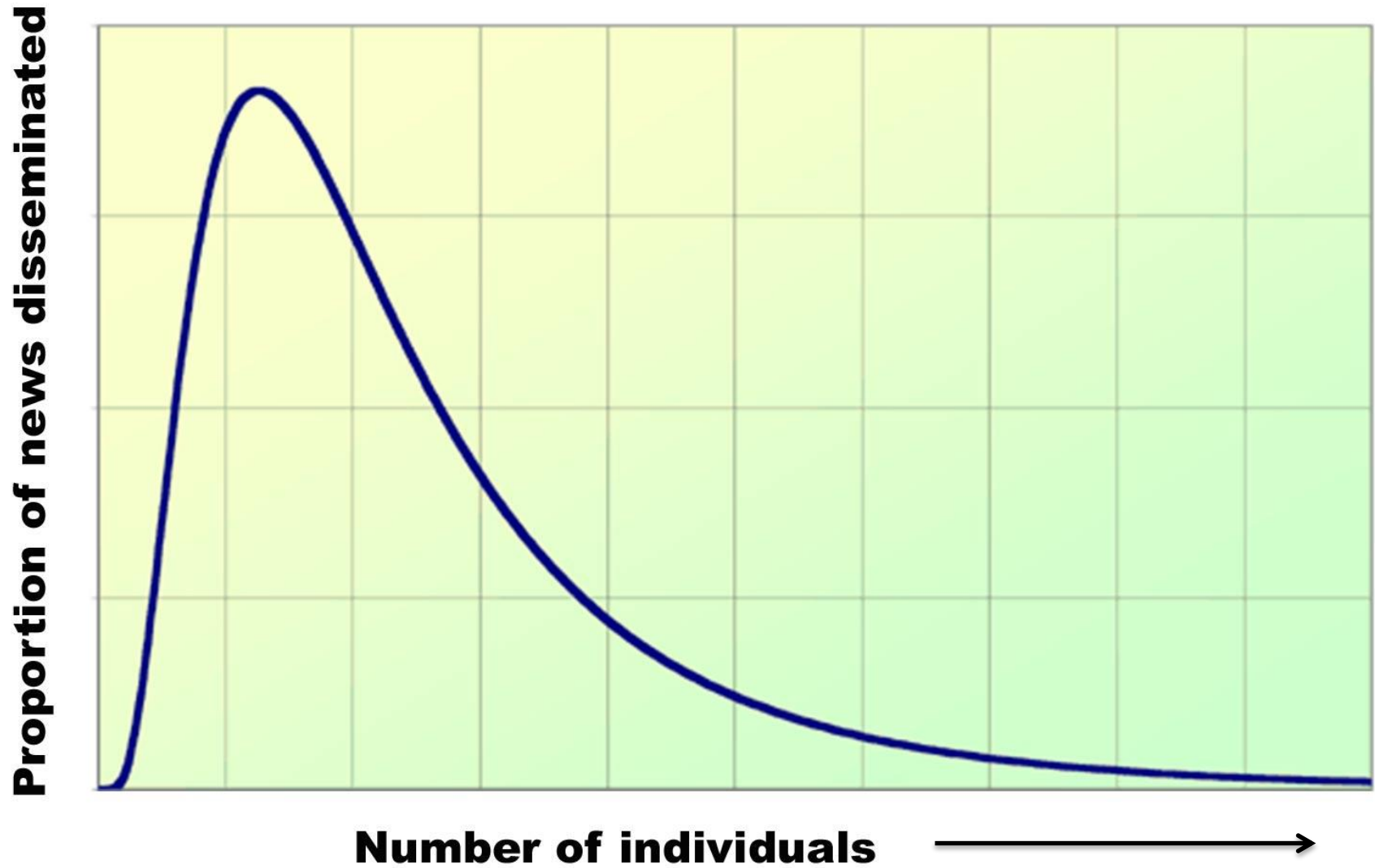
TABLE IV
EXAMPLE RESULTS AUTOMATICALLY DETECTED BY THE BNGRAM METHOD

#	Detected topic	Corresponding story	Sample tweet
<i>FA Cup</i>			
1	liverpool gets ambushed kalou defence box mazy run before @chelseafc great shoot #cfcwembley #facup	Salomon Kalou has an effort at goal from outside the area which goes wide right of the goal. Shot by Frank Lampard missed to the left of goal.	@chelseafc: Great mazy run by Kalou into the box but he gets ambushed by the Liverpool defence before he can shoot #CFCWembley #FACupFinal (SL)
2	mikel yellow card	Booking The referee shows Mikel a yellow card. Direct free kick taken by Daniel Agger..	@chelseaindo: 37mins Chelsea still lead 1-0. And yellow Card for Mikel
3	half time wembley chelsea lead liverpool final cup 1-0 through goal ramires early #cfc	Half time.	@premierleague: It's half-time in the FA Cup final at Wembley and Chelsea lead Liverpool 1-0 through an early goal from Ramires. #cfc #lfc #facupfinal
4	over line saved super cech claiming went @chelseafc carroll header liverpool #cfcwembley #facupfinal sl	Liverpool nearly score Andy Carroll takes a shot. Petr Cech makes a fantastic save.	@chelseafc: Carroll header is saved on the line by super Cech but Liverpool claiming it went over. #CFCWembley #FACupFinal (SL)
5	goal #cfcwembley #facupfinal sl @chelseafc chelsea	Didier Drogba scores.	@chelseafc: Chelsea goal #CFCWembley #FACupFinal (SL).

 social sensor



Dispersion of news on social media



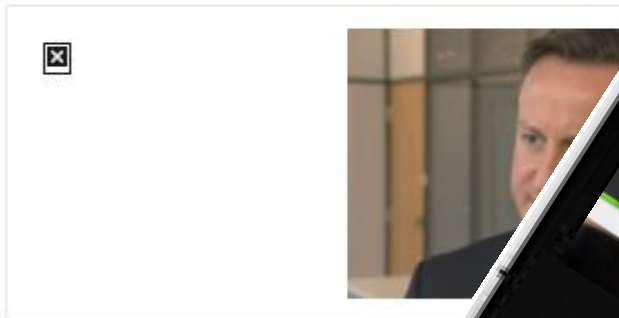
Refresh

Trending in social media

Filtered by the last **1 day** based on **US Trends**

Trending topics

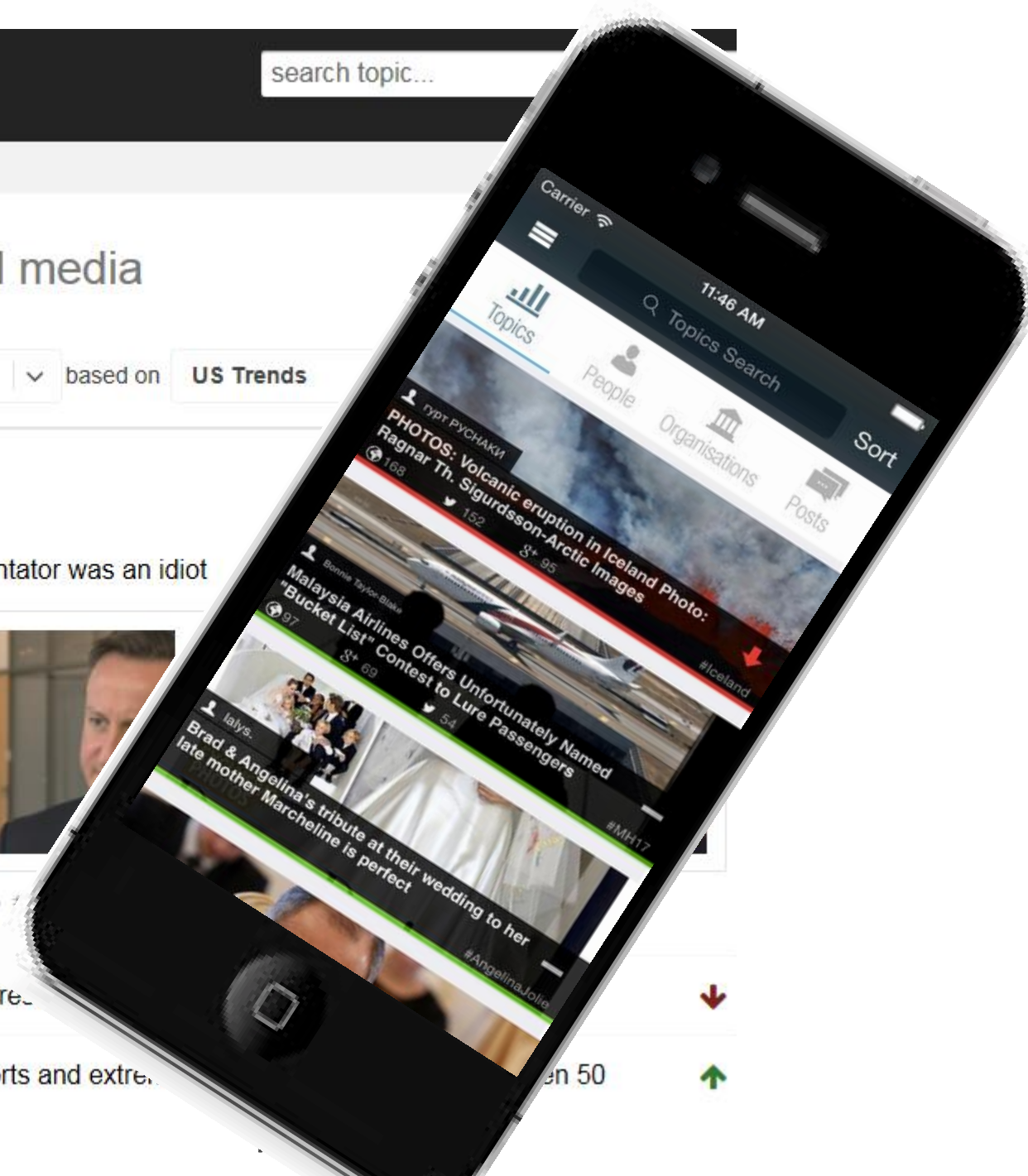
Cameron: Fox News commentator was an idiot



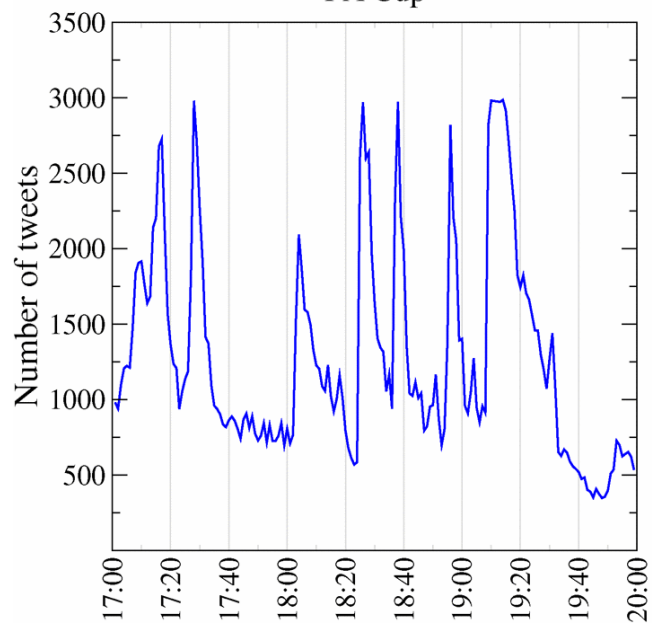
politicshome 20 1

Ukraine bonds sink again as re

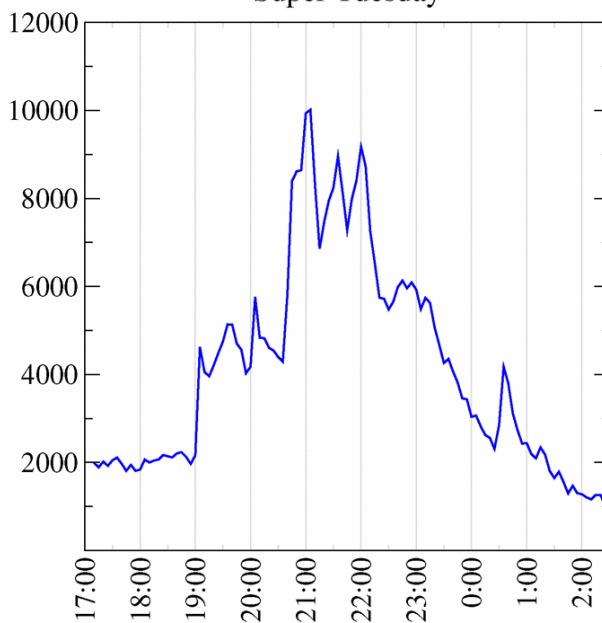
Human rights: weapons exports and extre
lashes for 'insulting Islam



FA Cup



Super Tuesday



US Elections

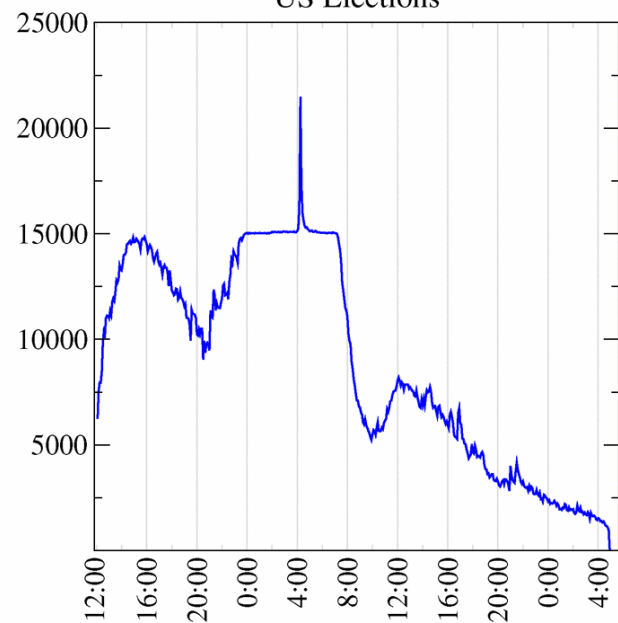


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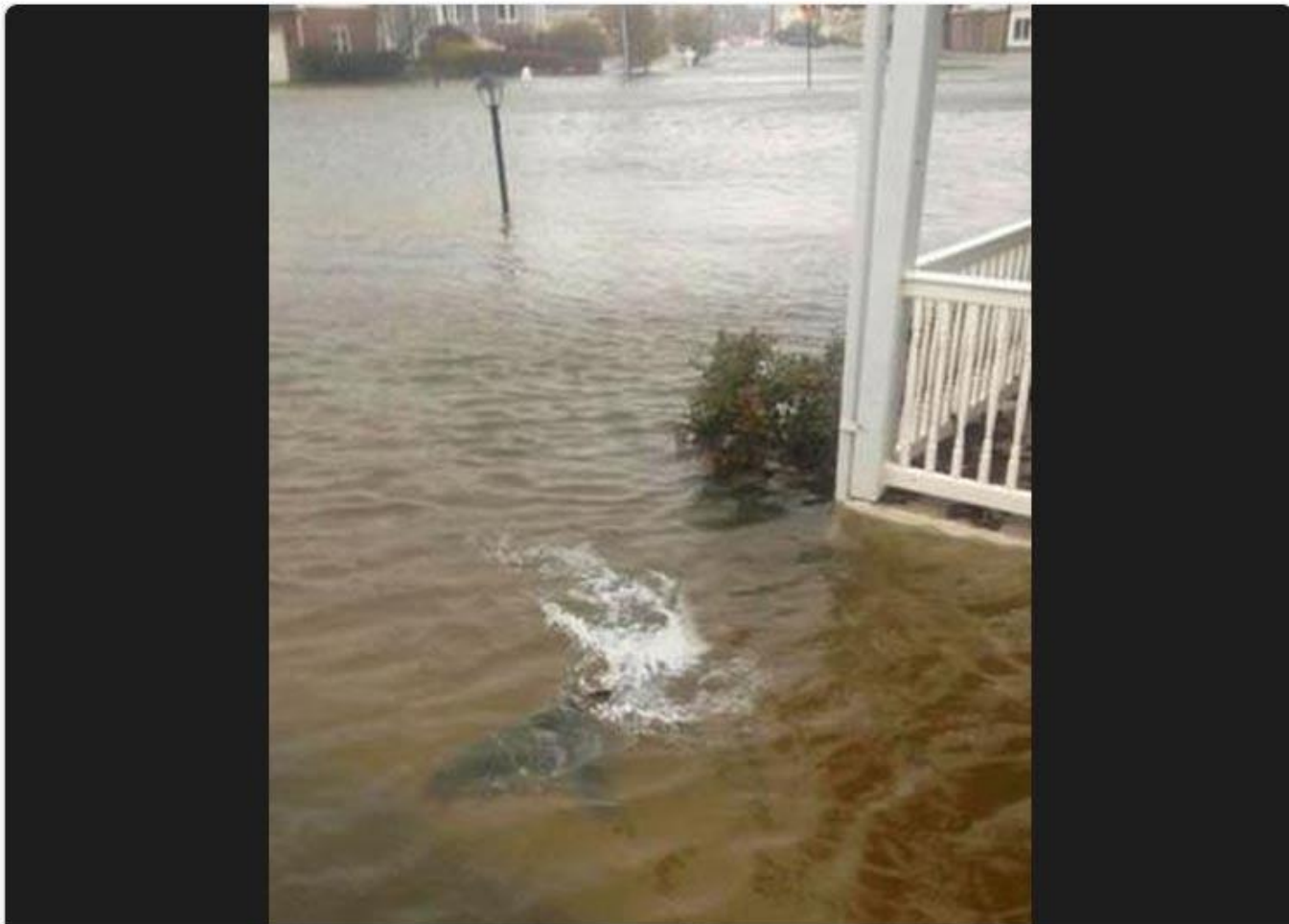
#	Detected topic	Corresponding story	Sample tweet
<i>FA Cup</i>			
1	liverpool gets ambushed kalou defence box mazy run before @chelseafc great shoot #cfcwembley #facup	Salomon Kalou has an effort at goal from outside the area which goes wide right of the goal. Shot by Frank Lampard missed to the left of goal.	@chelseafc: Great mazy run by Kalou into the box but he gets ambushed by the Liverpool defence before he can shoot #CFCWembley #FACupFinal (SL)
2	mikel yellow card	Booking The referee shows Mikel a yellow card. Direct free kick taken by Daniel Agger..	@chelseainfo: 37mins Chelsea still lead 1-0. And yellow Card for Mikel
3	half time wembley chelsea lead liverpool final cup 1-0 through goal ramires early #cfc	Half time.	@premierleague: It's half-time in the FA Cup final at Wembley and Chelsea lead Liverpool 1-0 through an early goal from Ramires. #cfc #lfc #facupfinal
4	over line saved super cech claiming went @chelseafc carroll header liverpool #cfcwembley #facupfinal sl	Liverpool nearly score Andy Carroll takes a shot. Petr Cech makes a fantastic save.	@chelseafc: Carroll header is saved on the line by super Cech but Liverpool claiming it went over. #CFCWembley #FACupFinal (SL)
5	goal #cfcwembley #facupfinal sl @chelseafc chelsea	Didier Drogba scores.	@chelseafc: Chelsea goal #CFCWembley #FACupFinal (SL).

reference
nations
good
threshold
composition
unambiguity
news
bad
celebrity
elite
people
magnitude
continuity
unexpectedness
frequency
follow
meaningfulness
entertainment
surprise
relevance

Alternative News Values

-political, structural and natural root causes and contexts
- the accounts of the people involved rather than third interpretations by a third party....

Verification



Mind Blowing

@TheMindBlowing



A shark was photographed swimming in the front yard of a flooded home in Brigantine Beach, New Jersey [#sandy](#) pic:

6:27 AM - 30 Oct 2012

8,117 RETWEETS **1,338** FAVORITES





[View image on Twitter](#)



DC Maryland Virginia

@DMVFollowers



Follow

McDonalds in Virginia Beach flooded.

4:22 AM - 29 Oct 2012

1,091 RETWEETS **126** FAVORITES





LIVE CAM 12:12 PM

58°



The Associated Press 

@AP

News, discussion and a behind-the-scenes look at the process from
The Associated Press. Managed 24/7 by a team of editors based in

NY: apne.ws/APStaff

Global · <http://www.ap.org>

50,187
TWEETS

7,012
FOLLOWING

1,904,925
FOLLOWERS



Following

Tweets All / No replies



The Associated Press @AP

5m

Breaking: Two Explosions in the White House and Barack Obama is injured

[Expand](#)



The Associated Press @AP

28m

Democratic Sen. Baucus, Finance committee chairman, says he won't run for re-election: apne.ws/10blOFF -CJ

[View summary](#)

27 May 2012 Last updated at 04:40 GMT

195

[Share](#)



Syria massacre in Houla condemned as outrage grows



This image - which cannot be independently verified - is believed to show the bodies of children in Houla awaiting burial

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Ex-NSA chief shot dead at LAX, Los Angeles Police say

REUTERS AND ASSOCIATED PRESS

The Globe and Mail

Published Friday, Nov. 01 2013, 1:11 PM EDT

Last updated Friday, Nov. 01 2013, 1:42 PM EDT

2 comments

191 34 157 0 +1 0 AA

LAPD is reporting Ex-NSA chief Michael Hayden has been shot dead at LAX. Radical Christian group has claimed responsibility on its website.

Earlier, the Los Angeles International Airport said on Friday that police were responding to an incident at the airport and California media reported that a gunman with a high powered rifle was shot by law enforcement.

The airport said on social media that there was "an incident underway at LAX." A local CBS affiliate reported that a gunman had been shot and secured by law enforcement, and that some passengers were being evacuated from a terminal.

Witness Brian Keech said he heard "about a dozen gunshots" from inside the security gate at Terminal 3.

Los Angeles Fire Department spokesman Brian Humphrey said emergency crews have responded to a multi-patient incident.

The incident was reported after 9:30 a.m.

GET DOUBLE MILES YOU CAN ACTUALLY USE.

GET DETAILS



Capital One

EDITORS' PICKS

COMMENTARY

The Senate's real problem: 146 years of 'wink, nudge' and shut up

LIFE

The sex lives of real people: A website reveals the truth

MOVIE REVIEW

Weekend movie pick: Ender's Game gets its turn on the big screen

REPORT ON BUSINESS

Toronto lingerie company re-imagines women's



YOUR LOVE
OF DRIVING
STARTS HERE.
Globe Drive

READ IT NOW >>>



of the most viral content on Twitter, during the Boston crisis were rumors and fake content”

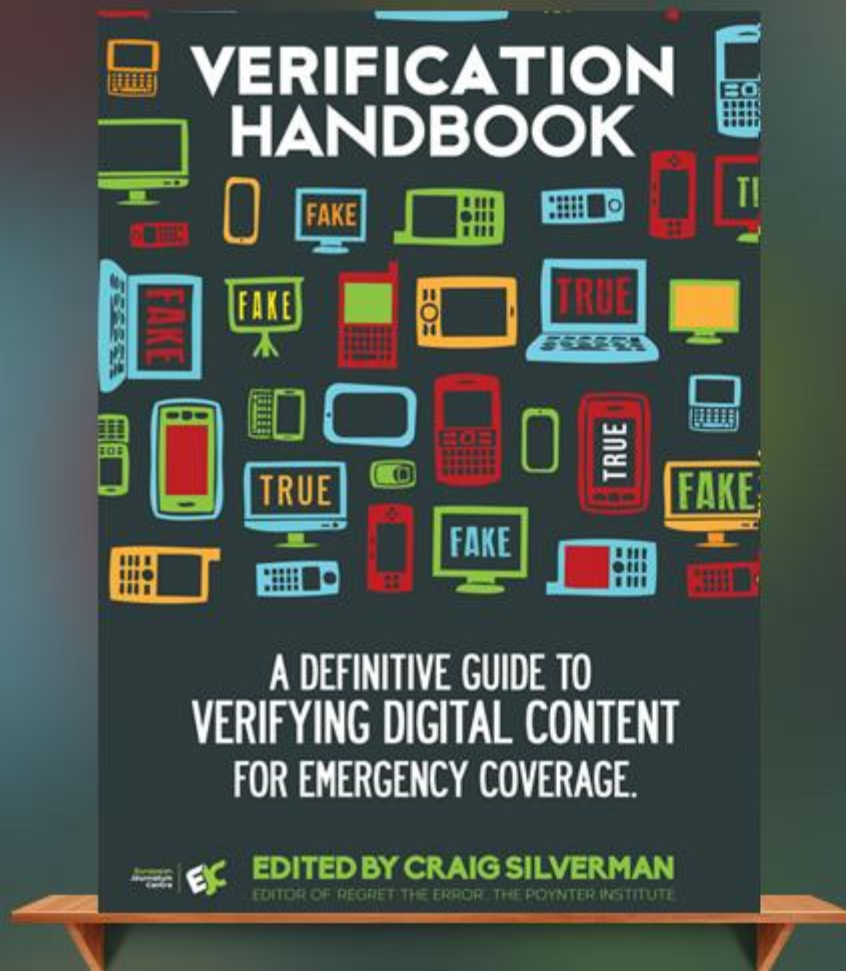
(Gupta, Lamba, and Kumaraguru, 2013).



“>31,000 new Twitter accounts created during Boston blast tragedy ... 19% were deleted or suspended by Twitter 2 months later”

(Gupta, Lamba, and Kumaraguru, 2013).

VERIFICATION HANDBOOK



A definitive guide to verifying digital content for emergency coverage

Authored by leading journalists from the BBC, Storyful, ABC, Digital First Media and other verification experts, the Verification Handbook is a groundbreaking new resource for journalists and aid providers. It provides the tools, techniques and step-by-step guidelines for how to deal with user-generated content (UGC) during emergencies.

[Read the book](#) [Buy the book](#)

Or directly download the [PDF](#), [ePub](#) or [Kindle](#) version.
Available in [Portuguese \(PDF, ePub or Kindle\)](#)
Now also available in [Arabic \(العربية\)](#)!

Principles for social media verification

- Content
- Contributor
- Context

Content



Brett Lawrie ✓

@blawrie13

+ Follow

Pretty sure someone just let off a round bullets in eaton center mall .. Wow just sprinted out of the mall ... Through traffic ...

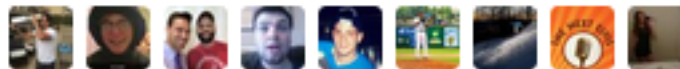


RETWEETS

1,171

FAVORITES

103



3:24 PM - 2 Jun 2012

Content



Brett Lawrie ✓

@blawrie13

 Follow

People sprinting up the stairs right from where we just were ... Wow wow wow



RETWEETS

251

FAVORITES

42



3:25 PM - 2 Jun 2012

Contributor

I will make all
Libyans “tree
hugging hippies”

الرئيس أو

Minister of Libya

#علي

pm.gov.ly

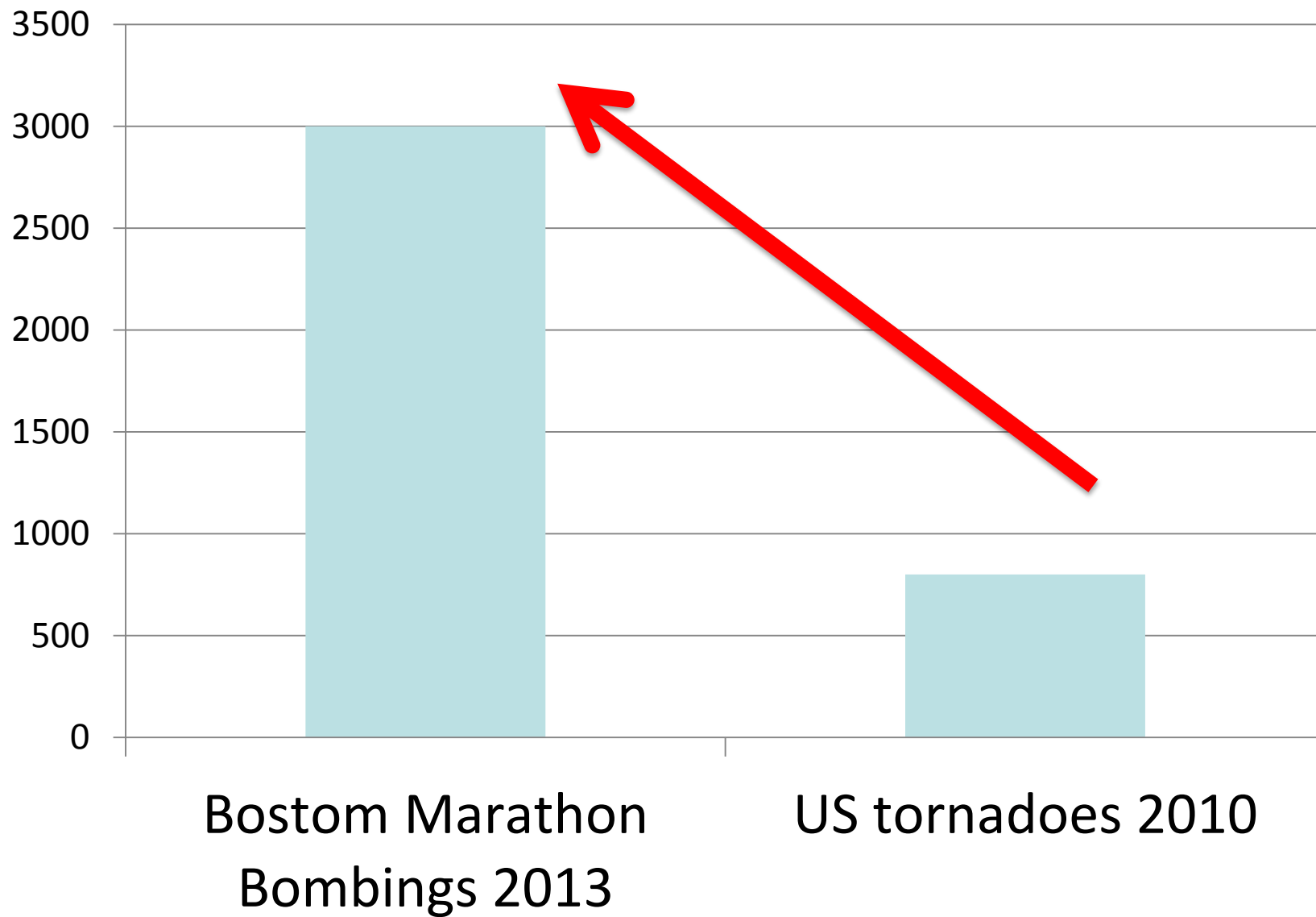
Dr. Ali Zidan – Prime Minister of Libya

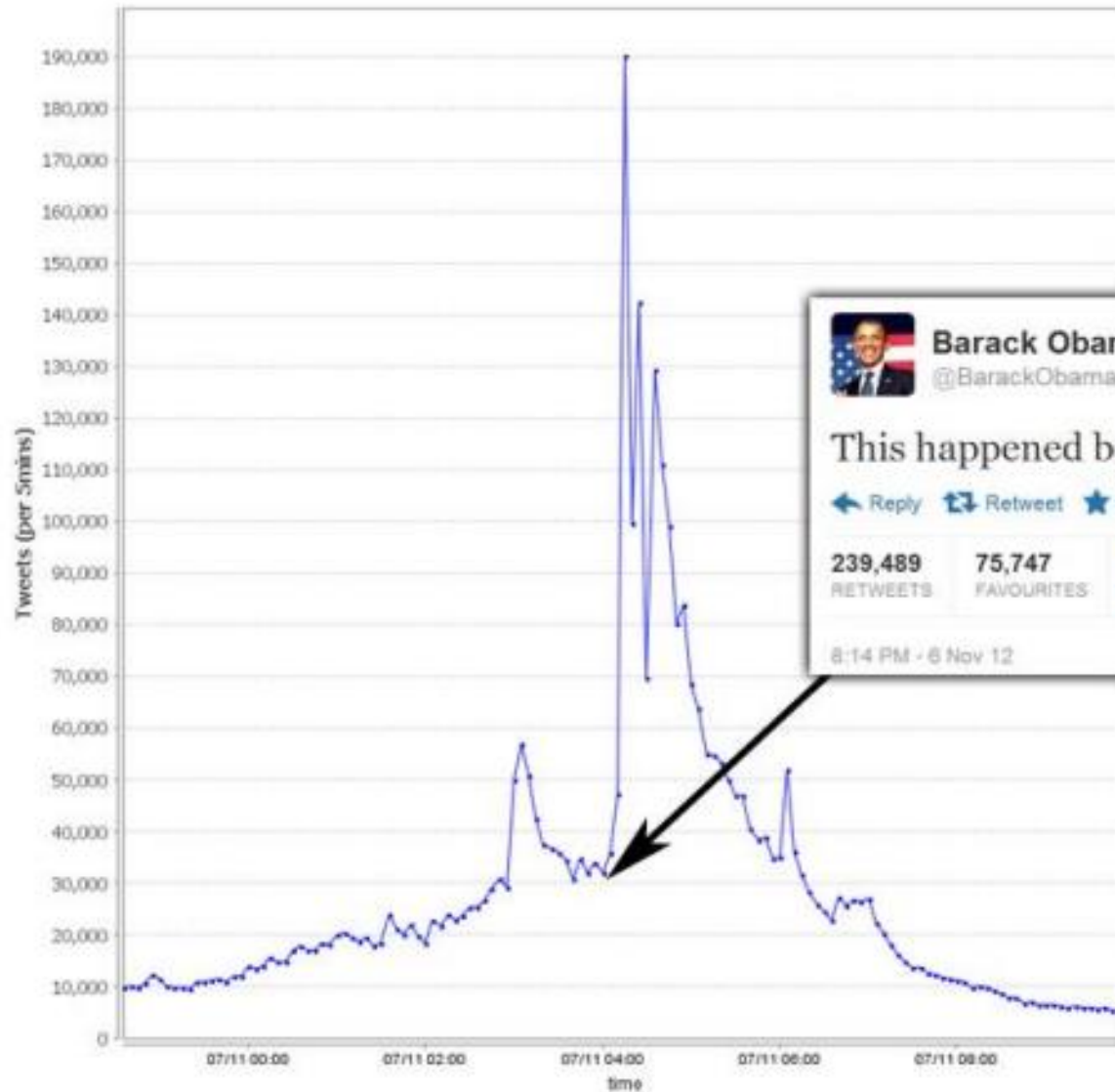
Context



EARTHQUAKE IN CHILE ON 24th AUGUST 2014




Tweets per min









**Barack Obama** 
@BarackObama




This happened because of you. Thank you.

 Reply  Retweet  Favourite  More

239,489
RETWEETS

75,747
FAVOURITES



8:14 PM · 6 Nov 12

Potential modalities for 'content'

- **Reputation:**
 - Links to reputable sites
 - High click through rate?
- **Provenance:**
 - Where did linked content originate from?
 - Freshness?
- **Popularity:**
 - Retweets
- **Influence:**
 - Discussions
- **Originality**
- **Authenticity:**
 - Changed / tampered with?
- **Objectivity and Diversity**



Justin Hart

@justin_hart



Follow

Wow... the missing kid Sunil Tripathi sure does look like suspect #2...





Justin Hart
@justin_hart



Follow

Wow... the missing kid Sunil Tripathi sure
does look like suspect #2...



test=

If tra



Follow

Shark was photographed swimming in the front yard of a flooded
home in Brigantine Beach, New Jersey #sandy pic:

6:27 AM - 30 Oct 2012

8,117 RETWEETS 1,338 FAVORITES





Harriet Harman @HarrietHarman

MP Camberwell and Peckham, Labour deputy leader, shadow culture secretary

Influential on: [Ukraine, ALSIceBucketChallenge, ferguson, 1063mobileradio, BreakingNews]

Location: **Camberwell & Peckham, London**

Truthmeter details

Breakdown

History

9

Information about how active a given source is on different social media platforms, also combining it with validity information (when did this source appear, how frequently has it been posting)

Popularity

5

Information about how many and what kind of people are following the activity of this source, and how many are reading or are recommending this activity to others

Influence

5

Information about how much this source triggers activities, such as re-posts, discussions or comments. Are things happening because of what this source is posting?

Truthmeter rating

Overall

5

This is an overall rating taking into account all the information extracted from the history, popularity and influence attributes, giving an overview of the trustworthiness of the contributor

Contributor's details

Twitter www.twitter.com/HarrietHarman

Contributor's network

Tweets	5369
Followers	59690
Following	1275

Latest Tweets



Harriet Harman @HarrietHarman

12h



Congrats Duncan Campbell 2014 #TurnerPrize winner @Tate

7



Harriet Harman @HarrietHarman

17h



..@UKLabour Gordon Brown – A political giant of his generation
<http://t.co/sKva131kDQ>

0

Computing Contributor Credibility

No. of Tweets

HISTORY

Frequency

HISTORY

No. of followers

POPULARITY

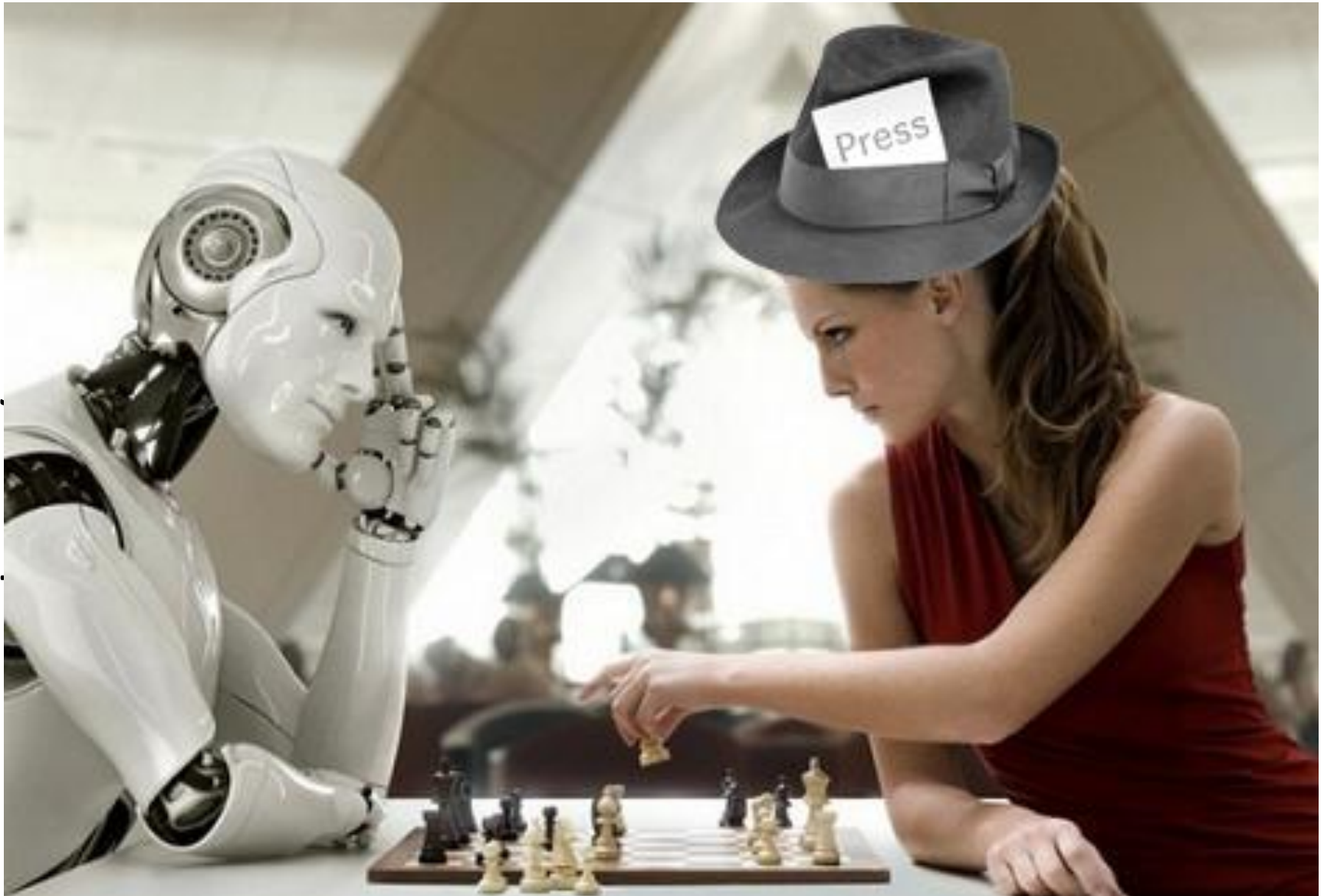
No. of follows

POPULARITY

Retweets

INFLUENCE

Human vs. algorithmic evaluation of social media contributors





Search Twitter



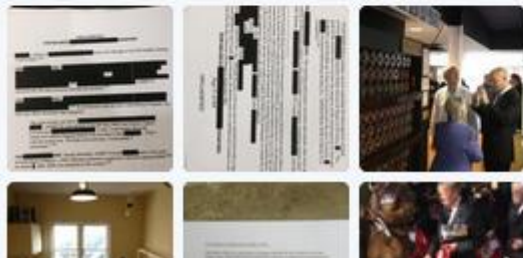
Gordon Corera

@gordoncorera

BBC Security Correspondent - views expressed are my own not those of the BBC. author of MI6: Life and Death in the British Secret Service

🕒 Joined January 2011

📷 6 Photos and videos



TWEETS
554

FOLLOWING
408

FOLLOWERS
3,195

FAVORITES
1

LISTS
2

Tweets

Tweets & replies

Photos & videos



Gordon Corera @gordoncorera · 10h

No classified material posted and no compromise of #CENTCOM servers in act of 'cybervandalism' US military says



2



Gordon Corera @gordoncorera · 14h

Hope whoever ran those @centcom accounts had a good password and it wasn't something like 'CENTCOM'



7



3



Calibration of verification metrics

No. of Tweets	HISTORY	1
Frequency	HISTORY	2
No. of followers	POPULARITY	4
Ratio followers: followings	POPULARITY	3
Retweets	INFLUENCE	2
Verified?	n/a	5
Popularity	HISTORY	5



CITY UNIVERSITY
LONDON

Thank you!

@neilthurman

