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Storytelling for Summarizing Collections in Web Archives

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Storytelling for Summarizing Collections in Web Archives

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Web Science and Digital Libraries Group
@WebSciDL

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CNI Spring 2016
2016-04-05

IMLS-Funded Research

1. Use small “stories” to summarize much larger collections of archived web pages
 - big → small
2. Generate web archive collections by mining user-generated stories for seed URIs
 - small → big

Archive-It, a subscription-based service, hosts curated web collections

The screenshot shows the Archive-It website in a browser window. The URL is <https://archive-it.org>. The page features a navigation menu with 'HOME', 'EXPLORE', 'LEARN MORE', and 'CONTACT US'. A central banner reads 'A web archiving service to harvest and preserve digital collections a service of the Internet Archive'. Below this is a 'Welcome to Archive-It!' section with a webinar announcement. A search bar is labeled 'Explore Collections' with a 'Find a Collection by Name' input field and a 'Search' button. Three featured collections are displayed:

- Climate change and environmental policy**
By Stanford University, Social Sciences Resource Group
Stanford University's Social Science Resource Group's collection on Intergovernmental and Non-governmental Organizations that focus on the environmental policy of...
- Columbia University Human Rights Web Archive**
By Columbia University Libraries
This collection is dedicated to preserving web-based information of importance to the global community of human rights researchers, students, policymakers and advocates
- Government in Alaska Web Archive**
By Alaska State Library
Curated by the Alaska State Library is this rich collection of state and regional government agency websites.

> 3,000 collections

> 400 partners

> 10B archived pages

Archive-It - 2013 Boston

https://archive-it.org/collections/3649

2013 Boston Marathon Bombing

Collected by: [Internet Archive Global Events](#)

Archived since: Apr, 2013

Description: This collection is comprised of contributions from curators and subject matter experts; and includes news articles, blogs, social media sites, and organizational websites related to the 2013 Boston Marathon Bombing and its aftereffects

Subject: [Spontaneous Events](#)

Narrow Your Results

Group Sort By: **Count** (A-Z)

- Boston Sports Teams Response (8)
- Institutional Responses (10)
- News Coverage (148)
- Social Media (49)

Sites Search Page Text

Page 1 of 3 (266 Total Results) [Next Page](#)

Sort By: Title (A-Z) | Title (Z-A) | URL (A-Z) | URL (Z-A)

- URL: <http://abclocal.go.com/ktrk/feature?section=news/local&id=9065470>
Captured once on Apr 19, 2013
- URL: <http://abcnews.go.com/blogs/headlines/2013/04/brothers-who-lost-legs-in-boston-bombing-reunited/>
Captured 2 times between May 2, 2013 and May 10, 2013
- URL: <http://annajcook.blogspot.com/2013/04/a-few-more-thoughts-cats-and-flowers.html>
Captured once on Apr 22, 2013
Group: Social Media
- URL: <http://annajcook.blogspot.com/2013/04/some-thoughts.html>
Captured once on Apr 22, 2013
Group: Social Media
- URL: <http://aol.sportingnews.com/nba/story/2013-04-17/boston-marathon-bombing-boston-celtics-honor-victims-jersey-black-stripe/>
Captured 2 times between Apr 19, 2013 and Apr 24, 2013
Group: Boston Sports Teams Response
- URL: <http://blog.heritage.org/2013/04/17/world-recoils-from-boston->

Collection title

Metadata about the collection

Text search box

Collection categorization according to the curator

Seed URI

List of the seed URIs

Timespan of the resource and the number of times it has been captured

The group that the resource belongs to

Problem:
**Collection understanding and
collection summarization are
not currently supported**

Not easy to answer “what’s in that collection?”

There is more than one collection about the Egyptian Revolution

The image displays three overlapping screenshots of the Archive-It website, each showing a different collection related to the Egyptian Revolution. The top-left screenshot shows the "2010-2011 Arab Spring" collection, collected by the University of South Florida. The middle screenshot shows the "North Africa & the Middle East 2011-2013" collection, collected by Internet Archive Global Events. The bottom-right screenshot shows the "Egypt Revolution and Politics" collection, collected by the American University in Cairo. Each screenshot includes a search bar, a list of results, and a "Narrow Your Results" section.

- “2010-2011 Arab Spring” <https://archive-it.org/collections/3101>
- “North Africa & the Middle East 2011-2013” <https://archive-it.org/collections/2349>
- “Egypt Revolution and Politics” <https://archive-it.org/collections/2358>

(1000s of Seeds X 1000s of Mementos)
+ Dimension of Time ==
Conventional Vis Methods
Not Applicable

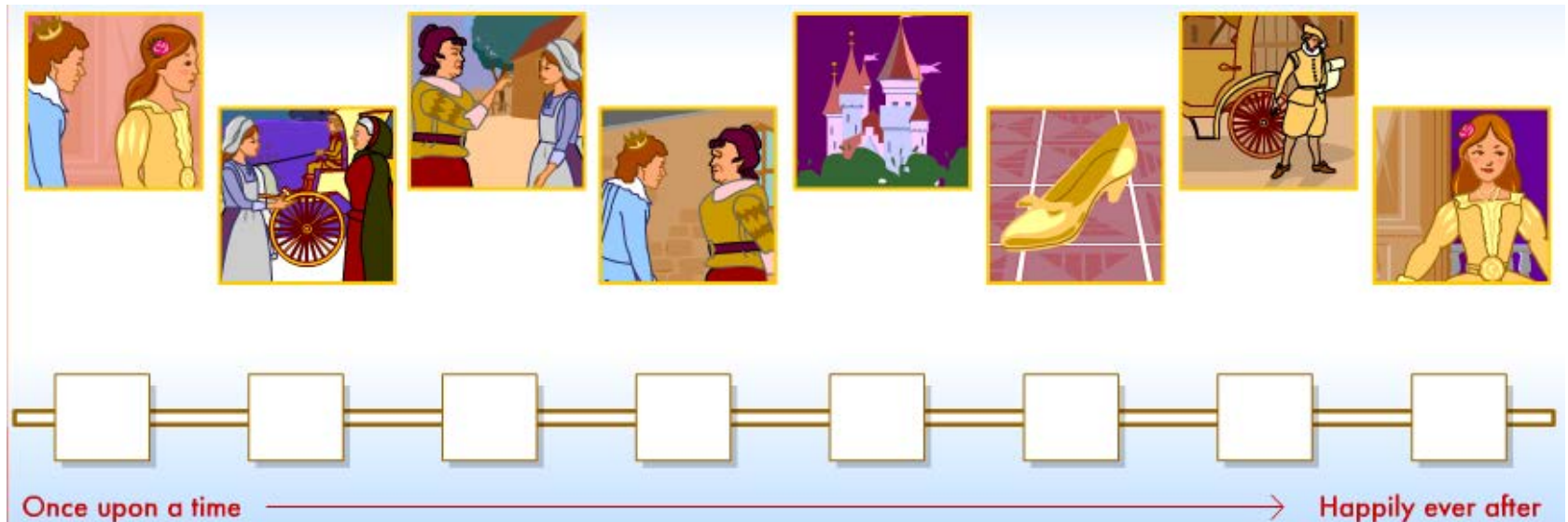
Using Timelines, Treemaps, etc.:

<http://ws-dl.blogspot.com/2012/08/2012-08-10-ms-thesis-visualizing.html>

Idea: Storytelling

Stories in Literature

Once upon a time...

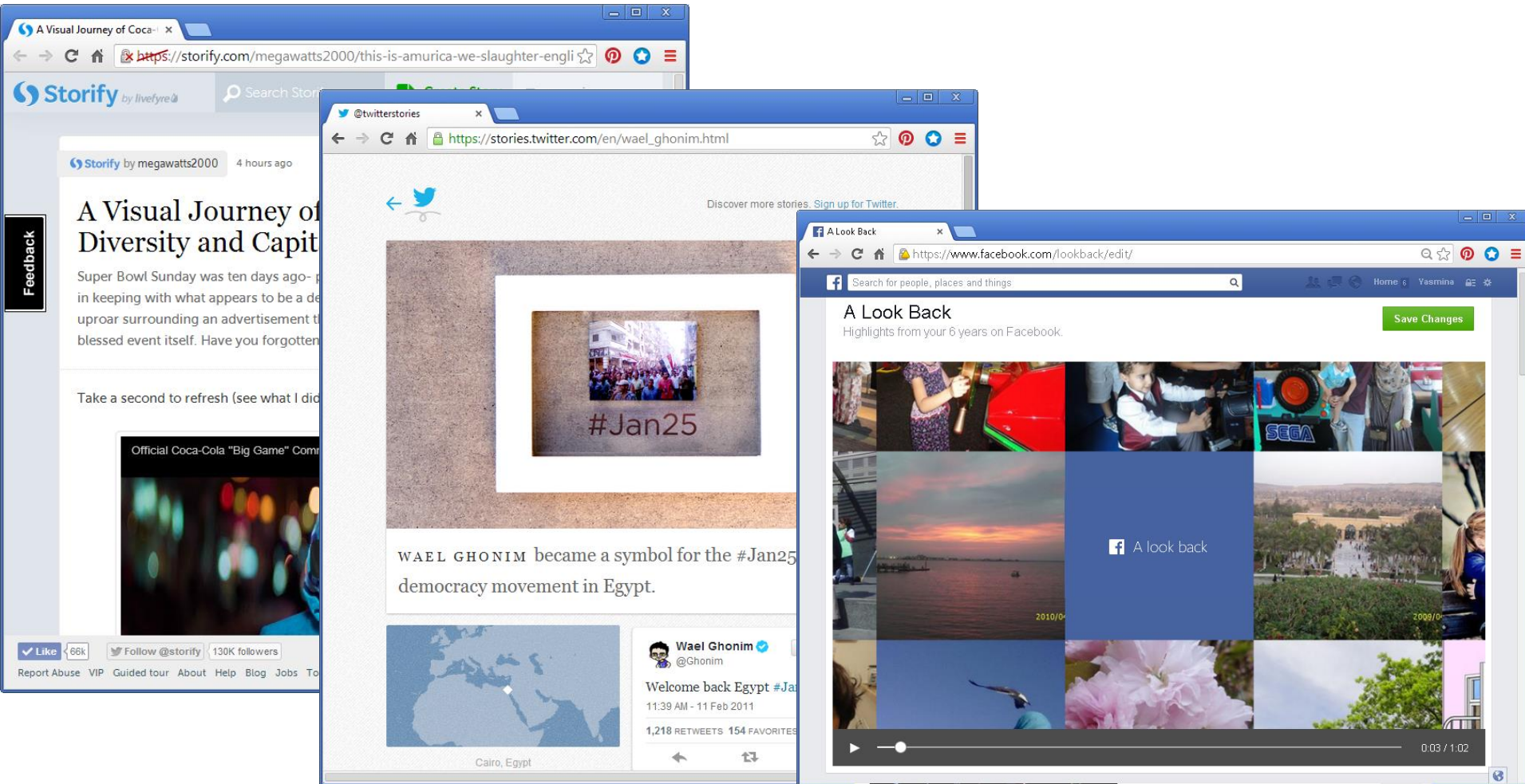


Story elements: setting, characters, sequence, exposition, conflict, climax, resolution

<http://www.learner.org/interactives/story/>

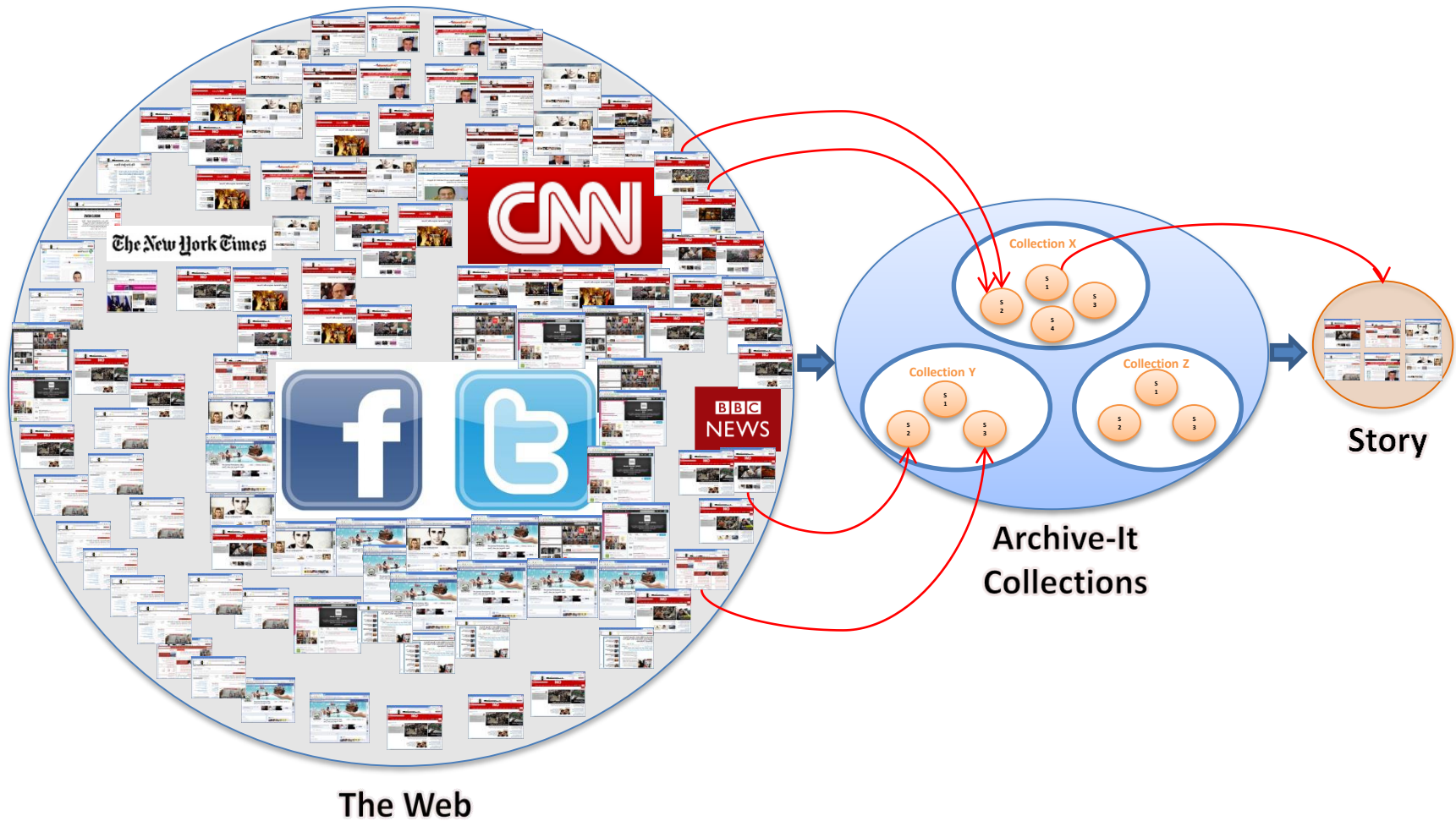
Stories in social media

“It's hard to define a story, but I know it when I see it” (Alexander, 2008)



A sampling and arrangement of web resources for summarization.

Collection == thematic sample from the Web
Story == arranged sample from the collection



We sample k mementos from N pages of the collection to create a summary story

Collections have two dimensions

Archive-It - 2013 Boston | x

https://archive-it.org/collections/3649

2013 Boston Marathon Bombing
Collected by: Internet Archive: Global Events

Archived since: Apr, 2013

Description: This collection is comprised of contributions from curators and subject matter experts, and includes news articles, blogs, social media sites, and organizational websites related to the 2013 Boston Marathon Bombing and its aftermath.

Subject: Spontaneous Events

Narrow Your Results

Group: Sort By: Count (A-Z)

Boston Sports Teams Response (8)
Instructional Responses (10)
News Coverage (148)
Social Media (49)

Enter search terms here

Page 1 of 3 (266 Total Results)

Sort By: Title (A-Z) | Title (Z-A) | URL (A-Z) | URL (Z-A)

URL: <http://abclocal.go.com/ktrk/feature?section=news/local&id=9065470>
Captured once on Apr 19, 2013

URL: <http://abcnews.go.com/blogs/headlines/2013/04/brothers-who-lost-legs-in-boston-bombing-reunited/>
Captured 2 times between May 2, 2013 and May 10, 2013

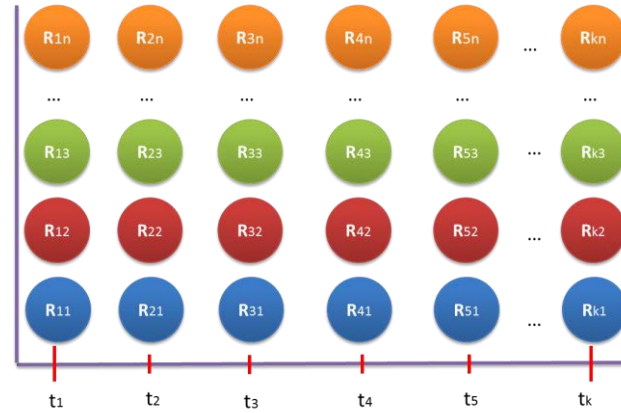
URL: <http://annajcook.blogspot.com/2013/04/a-few-more-thoughts-cats-and-flowers.html>
Captured once on Apr 22, 2013
Group: Social Media

URL: <http://annajcook.blogspot.com/2013/04/some-thoughts.html>
Captured once on Apr 22, 2013
Group: Social Media

URL: <http://aol.sportingnews.com/nba/story/2013-04-17/boston-marathon-bombing-boston-celtics-honor-victims-jersey-black-stripe/>
Captured 2 times between Apr 19, 2013 and Apr 24, 2013
Group: Boston Sports Teams Response

URL: <http://blog.heritage.org/2013/04/17/world-recoils-from-boston->

URI



Time

Internet Archive Wayback

http://www.bbc.co.uk/news/world/middle_east/

Egypt Revolution and Politics Web Archive (American University in Cairo)

Enter Web Address: All Take Me Back

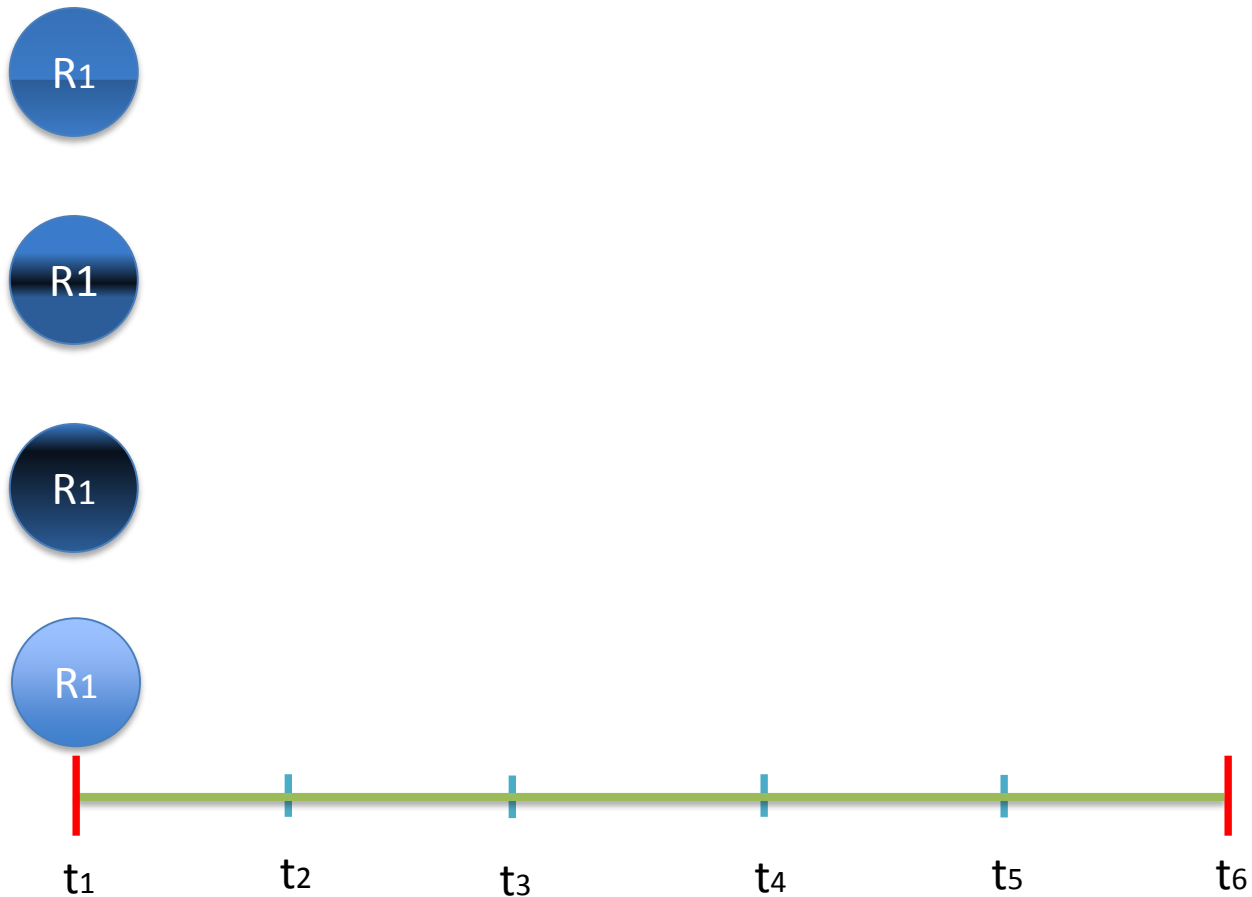
Searched for http://www.bbc.co.uk/news/world/middle_east/ 627 Results [Info](#) [Media](#)

* denotes when page was updated

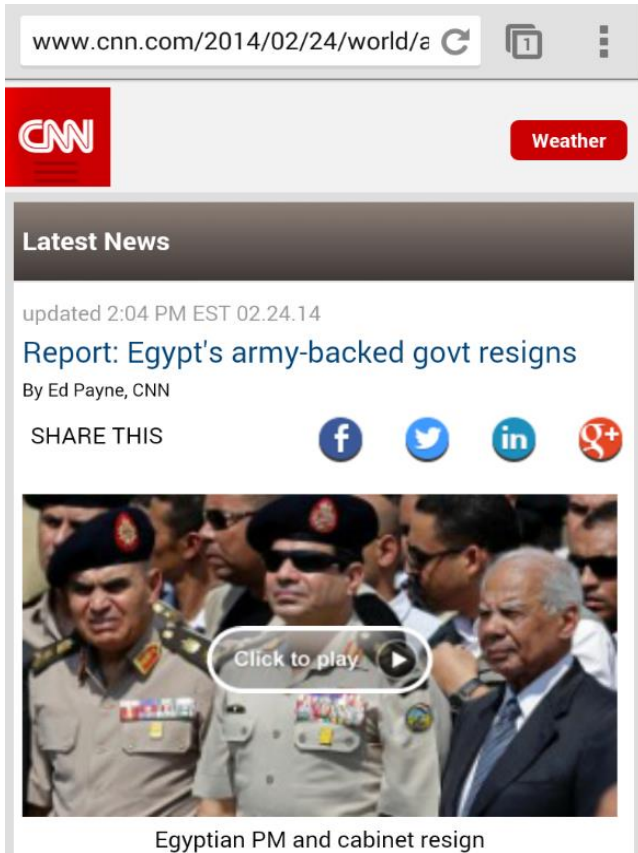
Found 627 Captures between Feb 1, 2011 - Feb 6, 2014

2011		2012		2013		2014	
20 pages		317 pages		270 pages		12 pages	
Feb 1, 2011 *	Jan 2, 2012 *	Jan 1, 2013 *	Jan 28, 2014 *	Feb 1, 2011 *	Jan 2, 2013 *	Jan 27, 2014 *	Jan 28, 2014 *
Feb 1, 2011 *	Jan 9, 2012 *	Jan 2, 2013 *	Jan 27, 2014 *	Feb 2, 2011 *	Jan 16, 2012 *	Jan 3, 2013 *	Jan 28, 2014 *
Feb 4, 2011 *	Jan 23, 2012 *	Jan 4, 2013 *	Jan 29, 2014 *	Feb 5, 2011 *	Jan 30, 2012 *	Jan 5, 2013 *	Jan 30, 2014 *
Feb 7, 2011 *	Feb 22, 2012 *	Jan 6, 2013 *	Jan 31, 2014 *	Feb 9, 2011 *	Feb 23, 2012 *	Jan 7, 2013 *	Feb 1, 2014 *
Feb 11, 2011 *	Feb 24, 2012 *	Jan 8, 2013 *	Feb 2, 2014 *	Feb 11, 2011 *	Feb 26, 2012 *	Jan 9, 2013 *	Feb 3, 2014 *
Feb 13, 2011 *	Feb 26, 2012 *	Jan 10, 2013 *	Feb 4, 2014 *				

Fixed Pages, Fixed Time



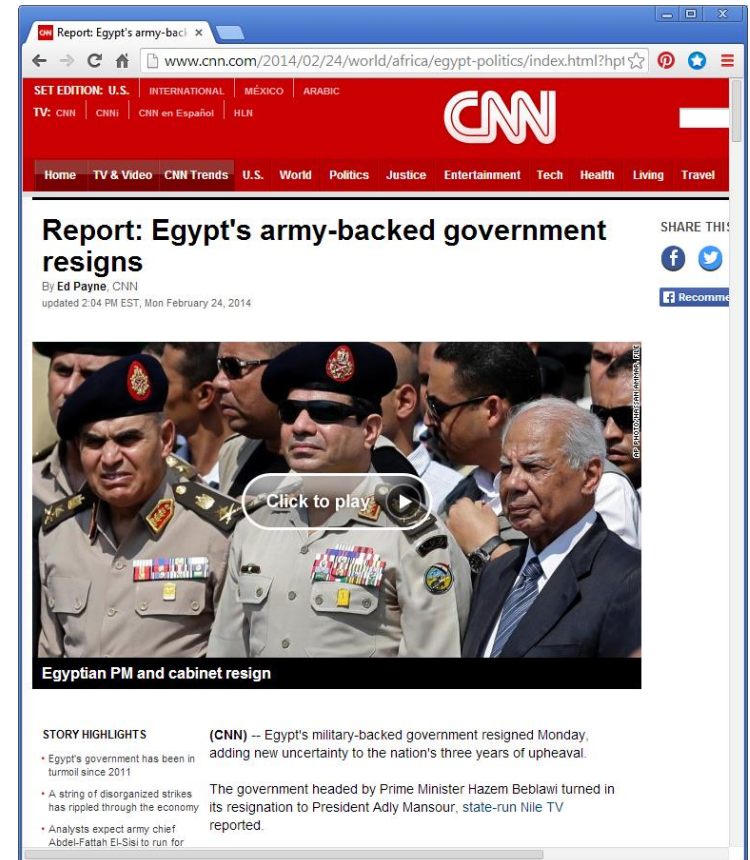
Fixed Page, Fixed Time



Andriod Chrome user-agent

http://www.cnn.com/2014/02/24/world/africa/egypt-politics/index.html?hpt=wo_c2

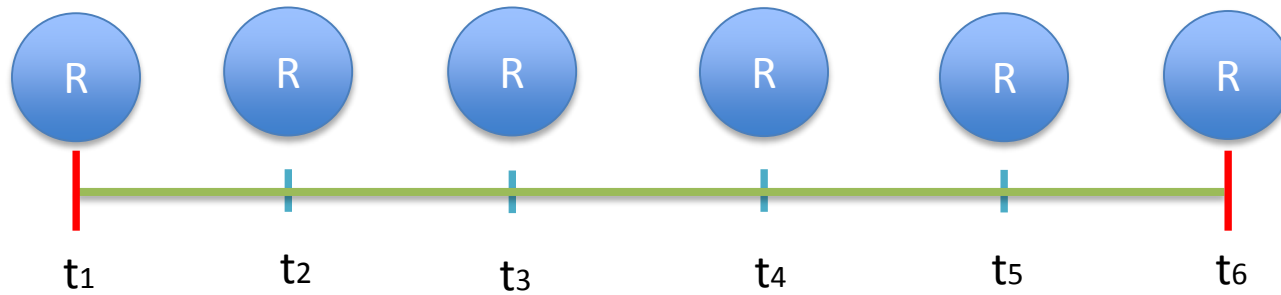
First Steps in Archiving the Mobile Web: Automated Discovery of Mobile Websites, JCDL 2013: <https://www.harding.edu/fmccown/pubs/jcdlsp182-schneider.pdf>
A Method for Identifying Personalized Representations in Web Archives, D-Lib Magazine, 2013: <http://www.dlib.org/dlib/november13/kelly/11kelly.html>



A desktop Chrome user-agent

http://www.cnn.com/2014/02/24/world/africa/egypt-politics/index.html?hpt=wo_c2

Fixed Page, Sliding Time



Wayback Machine screenshot of a news article titled "Egypt says it's shutting down mobile phone networks" dated February 1, 2011. The article features a photograph of a military tank in the foreground and a crowd of people in the background. A red circle with the date "Feb 1" is overlaid on the right side of the page.

Wayback Machine screenshot of a news article titled "Egypt crisis: Mubarak says he'll won't seek re-election" dated February 1, 2011. The article features a photograph of President Hosni Mubarak speaking. A red circle with the date "Feb 1" is overlaid on the right side of the page.

Wayback Machine screenshot of a news article titled "Egypt crisis: 3 dead, 639 injured in Cairo, government officials say" dated February 2, 2011. The article features a photograph of a large fire at night. A red circle with the date "Feb 2" is overlaid on the right side of the page.

Wayback Machine screenshot of a news article titled "Egypt crisis: Protesters mass in square, at mosque; U.S. plans no flights out" dated February 4, 2011. The article features a photograph of protesters holding Egyptian flags. A red circle with the date "Feb 4" is overlaid on the right side of the page.

Wayback Machine screenshot of a news article titled "Egypt crisis: Report of assassination attempt not confirmed, diplomat says" dated February 5, 2011. The article features a photograph of a large crowd of protesters in a square. A red circle with the date "Feb 5" is overlaid on the right side of the page.

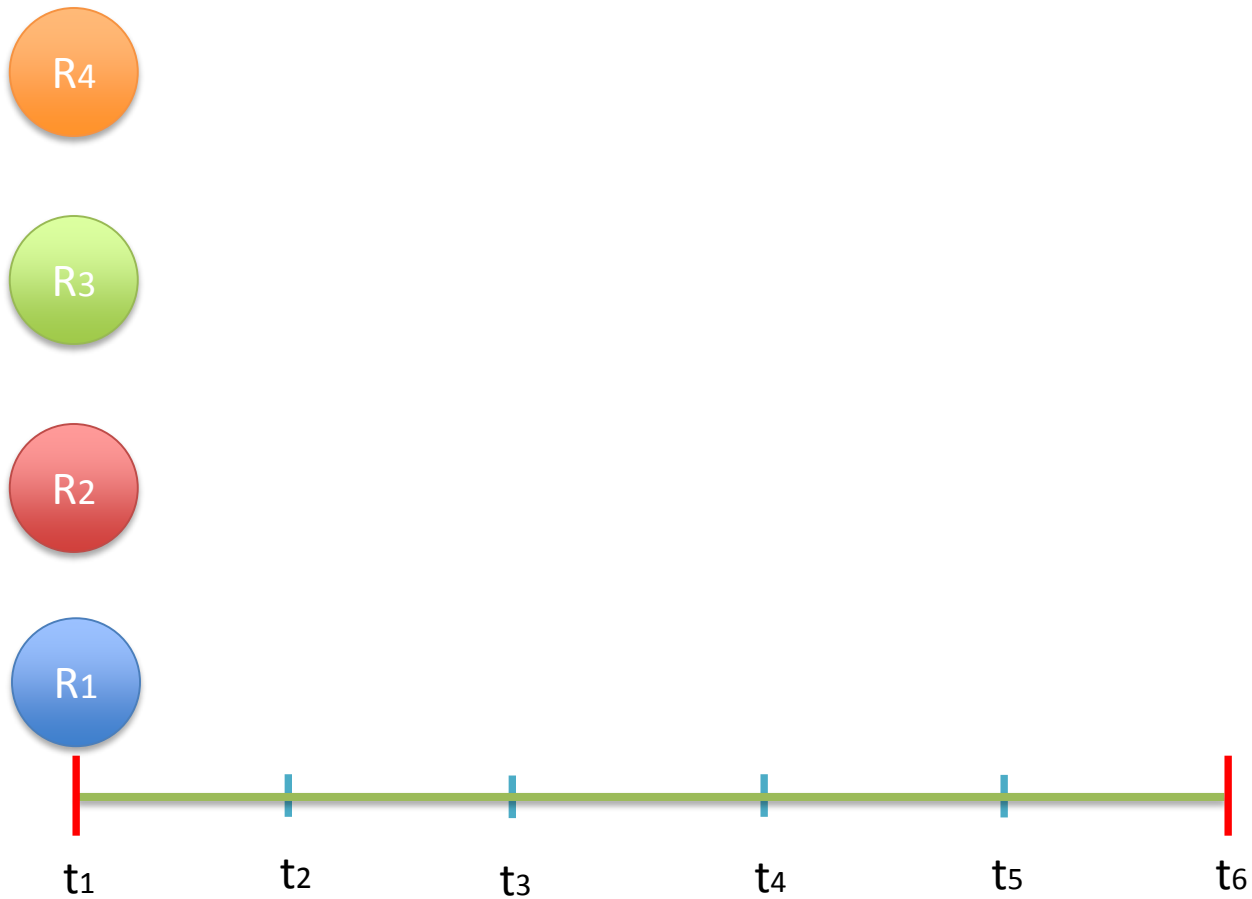
Wayback Machine screenshot of a news article titled "Egypt crisis, Day 14: Google executive released" dated February 7, 2011. The article features a photograph of a large crowd of protesters in a square. A red circle with the date "Feb 7" is overlaid on the right side of the page.

Wayback Machine screenshot of a news article titled "Egypt transitioning, but to what?" dated February 9, 2011. The article features a photograph of a woman holding a red sign that says "Mubarak you go out. I go home. The END!". A red circle with the date "Feb 9" is overlaid on the right side of the page.

Wayback Machine screenshot of a news article titled "Egypt unrest: Protesters begin 18th day of demonstrations" dated February 11, 2011. The article features a photograph of a man shouting with his arms raised. A red circle with the date "Feb 11" is overlaid on the right side of the page.

Wayback Machine screenshot of a news article titled "Mubarak quits: Switzerland freezes assets; Egyptians didn't talk with Obama" dated February 11, 2011. The article features a photograph of a large crowd of protesters celebrating. A red circle with the date "Feb 11" is overlaid on the right side of the page.

Sliding Page, Fixed Time



Wayback Machine screenshot of a CNN article from February 11, 2011, titled "Mubarak's refusal to resign a 'snub to Obama' (VIDEO)". The article reports that Egyptian President Hosni Mubarak refused to resign Thursday night, despite international pressure. It includes a video player and social media sharing options.

Wayback Machine screenshot of the CNN homepage from February 11, 2011. The main headline is "Mubarak is gone, joy in Cairo streets", reporting that Egyptian President Hosni Mubarak has resigned. The page features a large image of protesters and a "Breaking news" banner.

Wayback Machine screenshot of a CNN article from February 11, 2011, titled "Mubarak quits: Switzerland freezes assets; Egyptians didn't talk with Obama". The article discusses the international reaction to Mubarak's resignation, including Switzerland freezing his assets and the lack of communication with Obama.

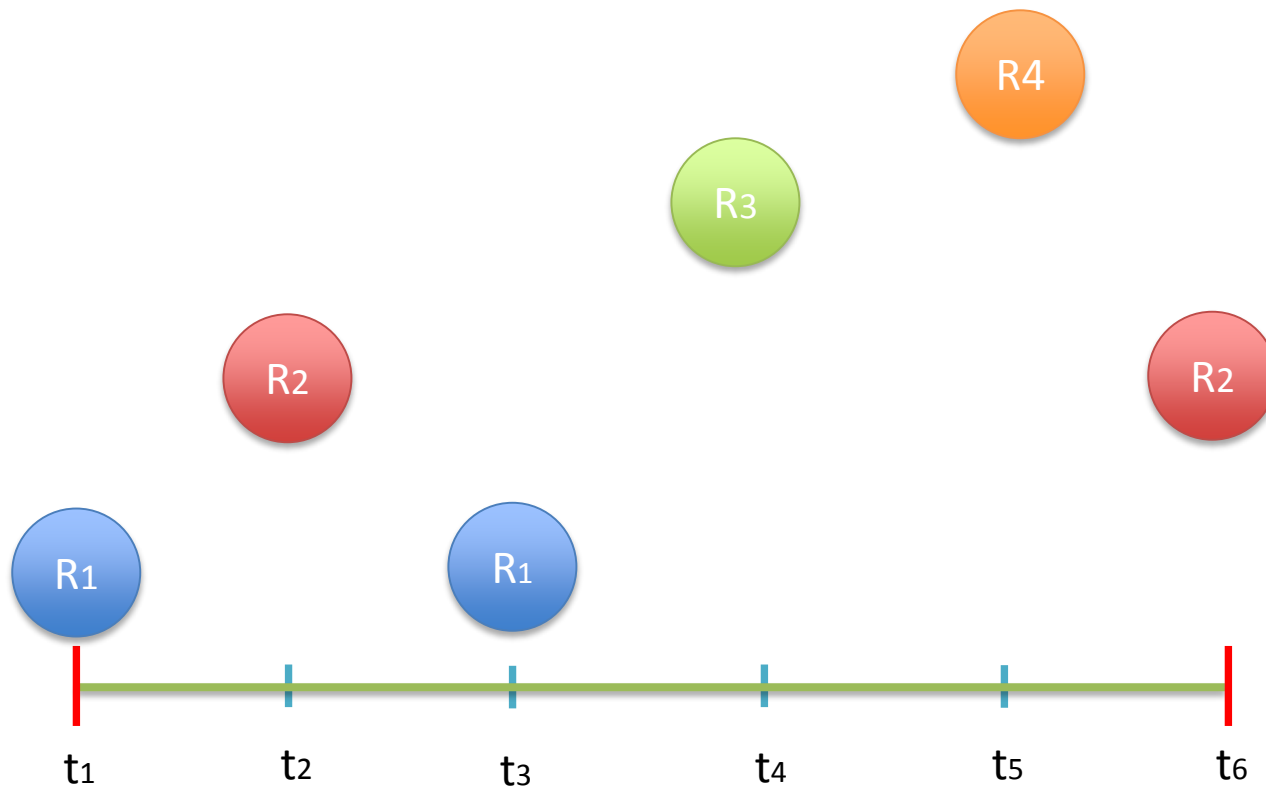
Feb. 11, 2011
Mubarak resigns

BBC News screenshot from February 11, 2011, titled "Egypt's Mubarak resigns as leader". The article states that Hosni Mubarak has stepped down as president of Egypt after weeks of protest. It includes a photo of Mubarak and a "Top Stories" sidebar.

Blog - The Arabist screenshot from February 11, 2011, titled "Tonight we party". The blog post celebrates the resignation of Mubarak and the joy in the streets of Cairo. It features a large image of protesters and social media integration.

Wayback Machine screenshot of a GlobalPost article from February 11, 2011, titled "Mubarak resigns: world reactions (UPDATES) (VIDEO)". The article provides updates on the global reaction to Mubarak's resignation, including world leaders and social media activity.

Sliding Page, Sliding Time



Wayback Machine: <http://www.globalvoicesonline.org/2011/01/25/egypt-the-january-25-demonstrations-in-photos/>

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Egypt: The January 25 Demonstrations in Photographs

Posted 25 January 2011 20:51 GMT

This post is part of our special coverage of Egypt Protests 2011.

A picture is worth a thousand tweets, especially when Twitter is blocked in Egypt in order to halt the transfer of information about the ongoing demonstrations in Egypt today.

Egyptian blogger, Zeinobia, decided to take her camera and go down to the streets and take some photographs and upload them to her Flickr account. Here are some of her photographs:

“When I was in the street, I did for song and dance, Global Voices does for online citizen media”
Hisham, Morocco

Donate now >

More stories about Middle East & North Africa

Morocco: Online Debates Rage Days Ahead of Parliamentary Elections

Tunisia: Execution of a Tunisian in Iraq Divides Netizens

Israel: Netanyahu Threatens to Replace Intems with Indian Doctors

Jan 25

Wayback Machine: <http://www.cnn.com/2011/01/25/egypt/index.html>

CNN
INTERNATIONAL
Get better performance

Home Video World U.S. Africa Asia Europe Latin America Middle East Business World

Egyptians brace for Friday protests as internet, messaging disrupted

by the CNN Wire Staff
January 27, 2011 11:57 p.m. EST

Egyptian demonstrators gather in Cairo's Tahrir Square close to a military tank on Monday.

Click to play

Part of complete coverage on Unrest in Egypt

The Brotherhood: For good or ill
Some fear the Muslim Brotherhood, some see it as a potential partner - but who is the real foe?

U.S. regional aid bill unveiled in House
Egypt is one of the nations that comes to receiving U.S. aid

Will Egypt's unrest spread?
Your regional experts explain what could happen next

STORY HIGHLIGHTS
NEW: Vice President Biden says Egypt's Mubarak should be more...
Cairo, Egypt (CNN) — Hours ahead of what are expected to be massive displays of anti-government sentiment across the world's most populous Arab nation, the internet went dark in parts of Egypt

Jan 27

Wayback Machine: <http://www.blogs.cnn.com/category/world-egypt-world-latest/>

Egypt says it's shutting down mobile phone networks

About

Recent Posts

Egypt says it's shutting down mobile phone networks

Egyptian government tightens grip ahead of protests

What's in Mubarak's mind? Former U.S. ambassador to Egypt may know

How does not yet buying the spirits of auto-lovers

50 people in 50 days: Girl disappeared on spring break

50 people in 50 days: Teen vanished while visiting sister

Federal judge says key parts of health care reform unconstitutional

Egypt: How did it get to this point?

January 31st, 2011 07:40 PM ET

Read full coverage of the unrest in Egypt updated continually by CNN reporters worldwide. Send your photos and video to Report and see CNN in Arabic here.

Update 3:11 am, Tuesday in Cairo, 8:11 p.m. ET (Monday) CNN's Fares Zakaria, host of Fares Zakaria GPS, discusses the chances that Egyptian President Hosni Mubarak will step down and the possibility that unrest will spread to nearby nations.

Update 1:24 am, Tuesday in Cairo, 6:24 p.m. ET (Monday) Egypt's rising political unrest is causing the United States to fine-line a foreign policy reaction that for 30 years has valued strategic partnership with President Hosni Mubarak.

Jan 31

Wayback Machine: <http://news.blogs.cnn.com/category/world-egypt-world-latest/>

Egypt crisis: 3 dead, 639 injured in Cairo, government officials say

February 2nd, 2011 02:29 PM ET

Read full coverage of the unrest in Egypt updated continually by CNN reporters worldwide. Send your photos and video to Report and see CNN in Arabic here. See also this strong roundup of timely, insightful views on the wave of upheaval in the Arab world.

Recent Posts

Snowstorm update: 11,000 flights cancelled in New York

Shooting reported in California after

3 dead, 639 injured in C government officials say

Siccom: It's National Signing Day!

Wednesday's intriguing people

Gotta Watch: Google art view: Froze redux

Feb 2

BBC News - Middle East

Wayback Machine: <http://www.bbc.com/news/world-middle-east>

You are viewing an archived web page, collected at the request of American University in Cairo using the Internet Archive's web crawling services. This page was captured on 12:39:27 Feb 04, 2011, and is part of the Egypt Revolution and Politics collection. The text and data of the page may differ from the original page. See also this strong roundup of timely, insightful views on the wave of upheaval in the Arab world.

4 February 2011 Last updated at 03:20 ET

'Day of departure' rally in Cairo

Tens of thousands of Egyptians gathered again in Cairo's Tahrir Square for a 'day of departure' rally aimed at ousting President Hosni Mubarak.

Egypt unrest

Mubarak tells ABC he is 'fed up' in pictures: Day of departure

Violence erupts in Cairo

Mubarak: Washington's new UK PM urges orderly transition

'We barricaded ourselves'

Watch/Listen

Top Egyptian TV journalist quits

Features & Analysis

Dug in

Louis Theroux meets the West Bank's ultra-Conservative

The Iran connection

Are Arab uprisings linked to 1979 Iranian revolution?

Yemen discontent

Opposition leaders warn that Yemen could be the next Tunisia

Mass rally on Yemen 'day of rage'

More than 20,000 anti-government protesters gathered in Yemen's capital, Sanaa, on a 'day of rage' against President Ali Abdullah Saleh's rule

Feb 4

Wayback Machine: <http://news.blogs.cnn.com/category/world-egypt-world-latest/>

Egypt crisis, Day 14: Google executive released

February 7th, 2011 12:23 PM ET

Read full coverage and examine a timeline of the unrest in Egypt updated continually by CNN reporters worldwide. Send your photos and video to Report and see CNN in Arabic here. See also this roundup of timely, insightful views on the wave of upheaval in the Arab world.

Recent Posts

Southern Sudan votes to split from

Egypt crisis, Day 14: Google executive released

Monday's intriguing people

Assange lawyers raise specter of

Party election led to Ohio tax house

police say

Monday quarterbacking: Super Bowl fumbles

Feb 7

BBC News - Egypt protests

Wayback Machine: <http://www.bbc.com/news/egypt>

10 February 2011 Last updated at 18:22 ET

Egypt protests: Hosni Mubarak refuses to step down

Egypt's President Hosni Mubarak has said he will stay in office and transfer all power only after September's presidential election.

President Mubarak addressed the nation in a television broadcast

His comments in a national TV address confounded earlier reports that he was preparing to stand down immediately.

Mr Mubarak said he would delegate some powers to Vice-President Omar Suleiman, but the details of this remain unclear.

Thousands of anti-government protesters in Cairo's Tahrir Square reacted angrily to his announcement.

There were chants of 'Down with Mubarak', and protesters waved their shoes in disgust. Thousands were reported to be heading towards the presidential palace some distance away.

The BBC's Paul Adams, in Tahrir Square, said the mood contrasted dramatically with the celebratory almost party atmosphere that existed in the hours running up to President Mubarak's televised address.

Mr Mubarak had previously pledged not to stand in September's poll, and

Two Koreas 'at a turning point'

Manhunt closes US national park

Person held over LA arson attacks

Google tests new search home page

Features & Analysis

Science of pol

Why the small US plays a big role in

Mind over mat

Marine fighter injury assault course for

Connecting in

Facing the challenge

Billions of people

Becoming aw

How artificial intelli

Feb 10

Wayback Machine: <http://news.blogs.cnn.com/category/world-egypt-world-latest/>

Egypt unrest: Protesters begin 18th day of demonstrations

February 11th, 2011 02:59 AM ET

The latest developments, as confirmed by CNN, on the uprising in Egypt. Demonstrators have taken to the streets of Egypt's major cities to demand an end to President Hosni Mubarak's 30-year rule, prompting the government to deploy the military to deal with civil unrest for the first time in a generation. Check

Recent Posts

Egypt unrest: Protesters begin 18th demonstrations

President Obama's statement on E

Arizona counter-suaves feeds over bor

Crowd at Egypt's Tahrir Square Mubarak doesn't resign

Granddaughter wants share of Eln

erotic

Feb 11

BBC News - Egypt crisis

Wayback Machine: <http://www.bbc.com/news/egypt>

11 February 2011 Last updated at 13:46 ET

Egypt's Mubarak resigns as leader

Hosni Mubarak has stepped down as president of Egypt, after weeks of protest in Cairo and other cities.

The news was greeted with a huge outburst of joy and celebration by thousands in Cairo's Tahrir Square - the heart of the demonstrations.

Mr Mubarak ruled for 30 years, suppressing dissent and protest, and jailing opponents.

Announcing the resignation, Vice-President Omar Suleiman said the president had handed power to the army.

Mr Suleiman said on state TV that the high command of the armed forces had taken over.

Chandra Levy killer gets 60 years

Nokia and Microsoft form alliance

US man shot pair 'in cold blood'

Father 'admits he killed' twins

Features & Analysis

Day in picture

Eye-catching image of the world

Cowboy revolt

True Brit actor Jeff Walling in John W

Prince Philip W

What was on the Q wedding to the Q

Pictures of the

Feb 11

What do stories in Storify look like?

“Characteristics of Social Media Stories”, TPDL 2015

<http://www.cs.odu.edu/~mln/pubs/tpdl-2015/tpdl-2015-stories.pdf>

What is the length of a story (the number of resources per story)?

- This story has 31 resources

The screenshot shows a Storify page for the event 'Boston Marathon Bombing'. The page is titled 'Boston Marathon Bombing' and is created by 'yashmina_anwar'. It features three tweets highlighted with red boxes and numbered 1, 2, and 3. The first tweet is from 'The Boston Globe' (@BostonGlobe) with 180 retweets and 25 favorites. The second tweet is from 'Matthew Keys' (@MatthewKeysLive) with 14 retweets and 3 favorites. The third tweet is from 'The Associated Press' (@AP) with no retweets or favorites shown. The page also includes a 'Feedback' button, a search bar, and a 'Create Story' button. On the right side, there is a 'yahoonews' profile with 51 stories, 570 followers, and 13 following. Below the profile, there is a table of 'Total views' for various sources: storify.com (1,946), thetandd.com (1,626), 24saltake.com (131), and other (38). At the bottom, there is a footer with 'Like 60k', 'Follow @storify | 121K followers', and various navigation links.

Source	Total views
storify.com	1,946
thetandd.com	1,626
24saltake.com	131
other	38

What are the types of resources that compose a story?

- This story has
 - 19 quotes
 - 8 images
 - 4 videos

The image shows a screenshot of a Storify story page titled "Egyptian Revolution of 2011" by Joseph Shin. The page features a collection of media elements. A blue box labeled "Quotes" points to a text block containing a quote: "Since yesterday, protesters have been cleaning & re-painting Tahrir square streets & surrounding areas. This photo shows a female disabled protester painting part of the Tahrir square." A second blue box labeled "Video" points to a video player showing a 60-minute interview with Wael Ghonim. The video player is titled "Wael Ghonim's 60 Minutes Interview: Egypt's New Age Revolution" and is currently at 0:00 / 9:57. The page also includes a "#Mursi is president" hashtag, a "Feedback" button, and various social media sharing options at the bottom.

What are the most frequently used domains?

- This story uses:
 - 90% twitter.com
 - 7% instagram.com
 - 3% facebook.com

The screenshot shows a Storify page titled "Boston Marathon Bombing" by Yahoo News. The page features three tweets highlighted with red boxes, each with an orange callout labeled "Twitter.com".

- Tweet 1:** From The Boston Globe (@BostonGlobe), dated 7:27 PM - 15 Apr 2013. Text: "RT @northeastern: Rumors about suspicious packages delivered to #Northeastern are absolutely false." 180 RETWEETS, 25 FAVORITES.
- Tweet 2:** From Matthew Keys (@MatthewKeysLive), dated 7:27 PM - 15 Apr 2013. Text: "Boston chapter of American Red Cross says no need for blood donations 'at this time,' encouraging people to schedule future donations." 14 RETWEETS, 3 FAVORITES.
- Tweet 3:** From The Associated Press (@AP), dated 7:21 PM - 15 Apr 2013. Text: "Navy sends bomb team to Boston to assist with explosion investigation: apne.ws/1178JAw -CC"

The Storify page also shows a "Follow" button for Yahoo News, statistics (51 STORIES, 570 FOLLOWERS, 13 FOLLOWING), and a "Total views" section with a breakdown of views (1,946 total, 1,626 from Storify, 131 from Twitter, 38 from Facebook, 151 from other sources). A "More from yahoo news" section is visible at the bottom right.

What differentiates a popular story?

As seen on [pennlive.com](#)

Va. reporter, cameraman killed during live broadcast

Alison Parker Adam Ward

WDBJ7's photographer Adam Ward and reporter Alison Parker were killed Aug. 26, 2015. Updates from social media that morning:

by [PennLive.com](#) a day ago **19,795 Views**

ABC News @ABC
NEWS
Follow

NEW: VA State Police: Alleged suspect in #WDBJ shooting transported to hospital with life-threatening injuries.
[abcn.ws/1U6gBt3](#)
9:35 AM - 26 Aug 2015

ABC News

19,795 views

Here's my Facebook movie. Find yours at <https://facebook.com/lookback/> #FacebookIs10

lookback in Facebook's 10th Birthday

Reactions and coverage of lookback...

by [Yasmina Anwar](#) 2 years ago 1 Like **64 Views**

Your Facebook life in 62 seconds - CNN.com
5 hours ago ... Facebook posted the clips, titled "A Look Back," without fanfare Tuesday to commemorate the 10th anniversary o...
BRANDON GRIGGS, CNN

Take a Look Back Into Your Facebook History - Mashable
15 hours ago ... Facebook is celebrating 10 years of existence today, and to mark the occasion, the company created a special "Look...
MASHABLE

Facebook's New 'A Look Back' Tool Highlights Your 20...

64 views

(skipping many details,
see TPDL 2015 paper)

We should create stories with:

- ~28 pages
- moar images!
- where possible, select pages from social media, news, blogs
- additional dimensions of quality:
 - are well archived (e.g., not missing images, stylesheets)
 - generate nice summaries in the Storify interface

Stories from collections about the Egyptian Revolution

Egypt Revolution and Politics - Broad summary

This is an automatically generated story from Archive-It collection.

by [@_yasmina85](#) a few seconds ago

- 28, Jan 2011 - Graphic: A closer look at the protests in Egypt**
Click here for more Posted PodcastsSubscribe to this podcast via iTunes Listen to it on our Podcast page and get other Nationalpost.com podcasts. Our reporters and editors talk about the biggest stories around the world.
[NEWS.NATIONALPOST.COM](#)
- 29, Jan 2011 - As it happened: Egypt unrest day five**
To recap on political developments, Egyptian President Hosni Mubarak has responded to the unrest by appointing his first-ever deputy and starting to form a new government. There is a significant presence of Egyptian army forces in key areas in Suez, where 13 people were killed in the unrest on Friday...
[NEWS.BBC.CO.UK](#)
- 03, Feb 2011 - Map and Diagram of the Protests in Tahrir Square**
Antigovernment protesters are manning barricades in an area where Mubarak supporters tried to push through on previous days. Protesters are using subway entrances (1) to dump trash, as well as to detain Mubarak supporters that have been captured. The army is maintaining a buffer zone in this area...
[WWW.NYTIMES.COM](#)
- 11, Feb 2011 - Egypt's revolution: Interactive map**
25 Jan - 'Day of Revolt' The unrest began on 25 January, the 'Day of Revolt', with demonstrations centred on Tahrir Square. 28 Jan - Water cannon attack Demonstrators in Cairo were caught in amateur video footage praying on Cairo's Qasr El-Nile bridge despite being hit by water cannon. 27 Jan - Sina...
[WWW.BBC.CO.UK](#)

North Africa & the Middle East 2011-2013 - Broad summary

This is an automatically generated story from Archive-It collection.

by [@_yasmina85](#) a few seconds ago

- 30, Jan 2011 - Live blog 31/1 - Egypt protests**
11:28pm Tariq Ramadan tells Al Jazeera from London that he believes Obama is applying a win-win strategy for Egypt. Here's some of what Anonymous said today in an open letter:As the protests escalated, so did the amount of people across the world watching Al Jazeera. 10:38pm Amid a growing media cra...
[BLOGS.ALJAZEERA.NET](#)
- 03, Feb 2011 - allAfrica.com: PeaceAfrica--Sudan**
(Right) Sister Veronica Daniel casts her ballot in Juba. The Sudanese government has said that it accepts the preliminary results of the referendum in South Sudan which show overwhelming support for independence. The results will become final later this month after the expiration of the appeal perio...
[ALLAFRICA.COM](#)
- 14, Feb 2011 - Protests in Yemen**
Not surprisingly, Salih is blaming the opposition for the protests - Karman is a member of Islah, Yemen's largest opposition party. Karman had been organizing rallies and protests targeting the government at Sanaa University through e-mails and texts. Instead of tamping down the protests the news of...
[BIGTHINK.COM](#)
- 22, Apr 2011 - Breaking, World, Business, Sports, Entertainment and Video News**
FULL STORYPremier Wen Jiabao told government advisers to listen to people and relay their concerns truthfully to top leaders. U.S. Sen. John McCain, a strong advocate of increasing military strikes to remove Libyan leader Moammar Gadhafi from power, arrived in the rebel stronghold of Benghazi on Fri...
[EDITION.CNN.COM](#)

2010-2011 Arab Spring - Broad summary

This is an automatically generated story from Archive-It collection.

by [@_yasmina85](#) a few seconds ago 3 Views

- Arab Spring**
Arab Spring Clockwise from top left: Protesters gathering in Tahrir Square in Cairo, Egypt; Demonstrators marching through Habib Bourguib Avenue in Tunis, Tunisia; Political dissidents in Sana'a, Yemen; Protesters gathering in Pearl Roundabout in Manama, Bahrain; Hundreds of Thousands in Douma, Damascus, Syria; Demonstrators in Bayda, Libya.
[WIKIPEDIA](#)

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- <https://storify.com/yasmina85/auto-stories-from-archived-collections-56fbc3d1b8d27c6f6571c647>
- <https://storify.com/yasmina85/auto-stories-from-archived-collections-5702ff8f228eede273d49c21>
- <https://storify.com/yasmina85/auto-stories-from-archived-collections-5702c7f1228eede273d48ddf>


Evaluation: can humans tell human generated stories from machine generated?


Russia Plane Crash Sept 7, 2011
Story: Summary


This is a manually generated story from archive-It collections.


by yasmina85 2 months ago 3 Views

 **44 Die in Russian Plane Crash**
Authorities are blaming pilot error for a plane crash in Russia's northern republic of Karelia that killed 44 people after slamming into the ground and catching fire. Deputy Prime Minister Sergei Ivanov, who oversees Russia's aviation industry, said Tuesday that it appears the pilot made a mistake while trying to land in heavy fog.
www.voanews.com

 **Top KHL squad killed in passenger plane crash in Russia - RT**
At least 43 people have died in a Yakovlev Yak-42 passenger plane crash near the city of Yaroslavl in Central Russia. The majority of victims were members of the local ice hockey team Lokomotiv. There were 37 passengers and eight crew members on board. Of the 45 people, only two survived.
rt.com

 **NHL stars die in Russia plane crash | WIVB.com**
TUNOSHNA, RUSSIA (WIVB) - At least 43 people have died in what is one of the worst plane crashes ever involving a sports team. A Russian jet that crashed after takeoff Wednesday claimed the lives of some former NHL players. Coach Brad McCrimmon was among those who died in the crash.
www.wivb.com


 **Hockey players killed in Russia plane crash | Hockey | Sports | Toronto Sun**
Local tabloid style newspaper. Part of the Sun Media national newspaper chain.
www.torontosun.com


 **Ex-NHL Players Die In Russia Plane Crash**


Russia Plane Crash Sept 7, 2011 -
Broad summary


This is an automatically generated story from Archive-It collection.

by yasmina85 a few seconds ago

 **Russia plane crash killed 44: Jet hit power lines that turned lights OFF at airport**
Boy, nine, 14-year-old sister and their mother among eight survivors
Plane hit power line, causing emergency lighting at airport to go out seconds before crash No evidence of fire or explosion before hitting major road Last updated at 8:35 AM on 22nd June 2011 A passenger jet crashed in heavy fog on a main road in north-west Russia late last night and burst into flames killing 44 people.
www.dailymail.co.uk @ 08, SEP 2011

 **Russian plane crashes on highway, killing 44**
Posted June 21, 2011 10:16:00 Forty-four people were killed and eight survived with serious injuries when a Russian passenger plane crashed onto a motorway before landing, leaving bodies strewn over the road.
The RussAir Tu-134 tried to land just before midnight (local time) on Monday, but crashed and caught fire about one kilometre from Petrozavodsk airport in northern Russia.
www.abc.net.au @ 09, SEP 2011

 **44 die in Russia plane crash, but 8 survive**
(AP) ST. PETERSBURG, Russia - A Russian airliner crashed in heavy fog and burst into flames just short of a runway in northwestern Russia, killing 44 people, officials said. Eight people survived, dragged from the burning wreckage by locals.
www.cbsnews.com @ 09, SEP 2011

 **Updated toll for Russia plane crash: Sources at airport say 45 people were on board, 44 dead - @RT.com**
Updated toll for Russia plane crash: Sources at airport say 45 people were on board, 44 dead - @RT.com
www.breakingnews.com @ 08, SEP 2011

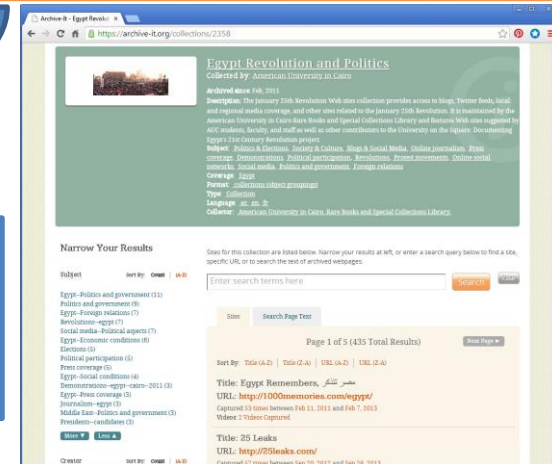
<https://storify.com/yasmina85/this-is-manually-generated-story-from-archive-it-c-56b25ae72c0664474ee34f13>
<https://storify.com/yasmina85/auto-stories-from-archived-collections-56f1cfd36bc660f47f1b9f5e>

Use an interface *people already know how to use* to summarize collections

Storytelling services



Archived collections



Archived enriched stories



more info:

- <https://github.com/yasmina85/OffTopic-Detection>
- <http://ws-dl.blogspot.com/2015/09/2015-09-28-tpdl-2015-in-poznan-poland.html>
- <http://ws-dl.blogspot.com/2015/08/2015-08-20-odu-l3s-stanford-and.html>