



Content Integrity

via Wikimedia Enterprise

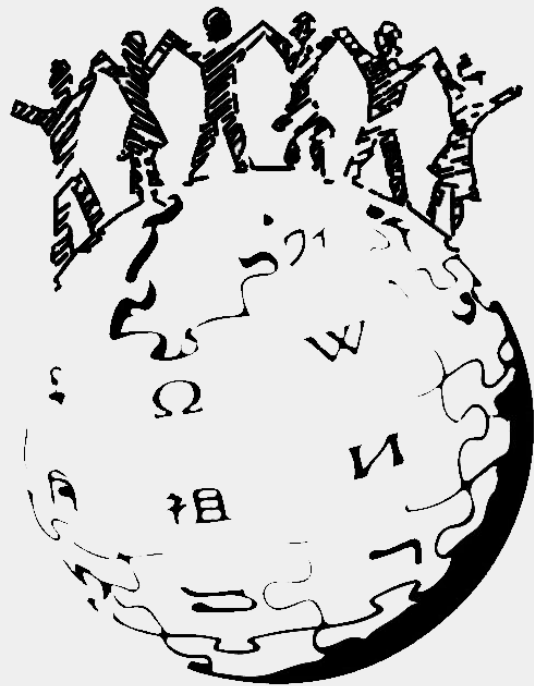
by Francisco Navas, Product Manager | November 2023 for WikiCon



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**Our content and data are used
as the backbone for training
LLMs and act as information
retrieval or identifiers in
Knowledge Graphs**



01

**How did Google know
Queen Elizabeth II had
passed?**



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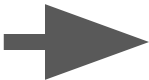
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Queen Elizabeth II has died

© 8 September



Queen Elizabeth II, the UK's longest-serving monarch, has died at Balmoral



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Contents
Current events
Random article
About Wikipedia
Contact us
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Community portal
Recent changes
Upload file
Tools
What links here
Recent changes
Special pages
Permanent link
Page information
Cite this page
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Elizabeth II

From Wikipedia, the free encyclopedia

Elizabeth II (Elizabeth Alexandra Mary; 21 April 1926 – 8 September 2022) was Queen of the United Kingdom and other Commonwealth realms from 6 February 1952 until her death in 2022. She was queen regnant of 32 sovereignty states during her lifetime, and was head of state of 16 states at the time of her death; her reign of 76 years and 214 days was the longest of any British monarch and the longest verified reign of any female monarch in history.

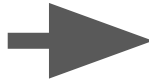
Elizabeth was born in Mayfair, London, as the first child of the Duke and Duchess of York (later King George VI and Queen Elizabeth "The Queen Mother"). Her father acceded to the throne in 1936 upon the abdication of his brother Edward VIII, making the ten-year-old Princess Elizabeth the heir presumptive. She was educated privately at home and began to undertake public duties during the Second World War, serving in the Auxiliary Territorial Service. In November 1947, she married Philip Mountbatten, a former prince of Greece and Denmark, and their marriage lasted 75 years until his death in 2021. They had four children: Charles, Anne, Andrew, and Edward.

When her father died in February 1952, Elizabeth—then 26 years old—became queen of seven independent Commonwealth countries: the United Kingdom, Canada, Australia, New Zealand, South Africa, Pakistan, and Ceylon (renamed Sri Lanka, as well as head of the Commonwealth. Elizabeth regarded as a constitutional monarch through major political change such as the Troubles in Northern Ireland, devolution in the United Kingdom, the decolonisation of Africa, and the United Kingdom's accession to the European Communities and withdrawal from the European Union. The number of her realms varied over time as territories gained independence and some realms became republics. As queen, Elizabeth was served by more than 170 palace ministers across her realms; her many historic visits and readings included state visits to China in 1986, to Russia in 1994, and to the Republic of Ireland in 2011, and meetings with the pope. Significant events included Elizabeth's coronation in 1953 and the celebrations of her Silver, Golden, Diamond, and Platinum Jubilees in 1977, 2002, 2012, and 2022, respectively. Although she faced occasional republican sentiment and media criticism of her family—particularly after the investigations of her children's marriages, her arrest in 1992, and the death in 1987 of her former daughter-in-law Diana—support for the monarchy in the United Kingdom remained consistently high throughout her lifetime, as did her personal popularity. Elizabeth died at Balmoral Castle, Aberdeenshire, in September 2022, at the age of 96, and was succeeded by her eldest son, Charles III. Her state funeral was the first to be held in the United Kingdom since that of Winston Churchill in 1965.

Contents [hide]

- Early life
- Her presumptions

0.1. Second World War



(In under one minute!)



BREITBART

MCDONALD'S TO CLOSE ALL UK LOCATIONS ON QUEEN'S FUNERAL TO ALLOW EMPLOYEES TO PAY RESPECTS



Nathan Sirik/Getty Images



WIKIPEDIA

Elizabeth II

From Wikipedia, the free encyclopedia

Elizabeth of the United Kingdom redirects here. For other uses, see *Elizabeth of the United Kingdom* (disambiguation) and *Elizabeth II* (disambiguation).

Elizabeth II (Elizabeth Alexandra Mary; 21 April 1926 – 8 September 2022) was Queen of the United Kingdom and other Commonwealth realms from 6 February 1952 until her death in 2022. She was queen regnant of 30 sovereign states during her lifetime, and was head of state of 16 realms of the title of her death. Her reign of 70 years and 214 days was the longest of any British monarch and the longest verified reign of any female monarch in history.

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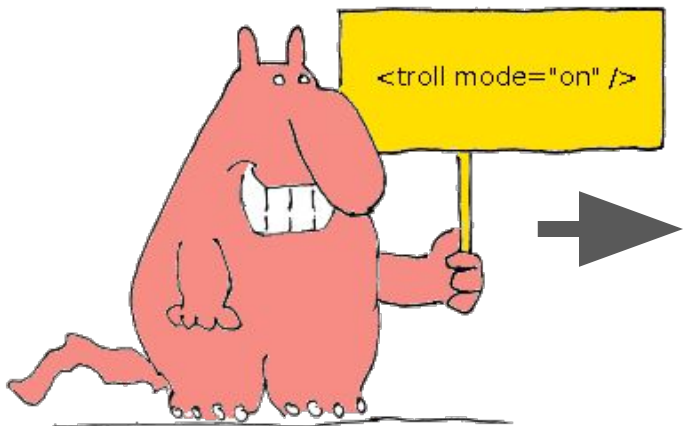
When her father died in February 1952, Elizabeth—then 26 years old—became queen of seven independent Commonwealth countries: the United Kingdom, Canada, Australia, New Zealand, South Africa, Pakistan, and Ceylon (now Sri Lanka), as well as head of the Commonwealth. Elizabeth regarded as a constitutional monarch through major political change such as the Troubles in Northern Ireland, devolution in the United Kingdom, the decolonisation of Africa, and the United Kingdom's accession to the European Communities and withdrawal from the European Union. The number of her realms varied over time as territories gained independence and some realms became republics. As queen, Elizabeth was served by more than 170 palace ministers across her realms. Her many historic visits and meetings included state visits to China in 1986, to Russia in 1994, and to the Republic of Ireland in 2011, and meetings with the pope. Significant events included Elizabeth's coronation in 1953 and the celebrations of her Silver, Golden, Diamond, and Platinum Jubilees in 1977, 2002, 2012, and 2022, respectively. Although she faced occasional republican sentiment and media criticism of her family—particularly after the investigations of her children's marriages, her arrest in 1992, and the death in 1987 of her former daughter-in-law Diana—support for the monarchy in the United Kingdom remained considerably high throughout her lifetime, as did her personal popularity. Elizabeth died at Balmoral Castle, Aberdeenshire, in September 2022, at the age of 96, and was succeeded by her eldest son, Charles III. Her state funeral was the first to be held in the United Kingdom since that of Winston Churchill in 1965.

Contents [hide]

- Early life
- Her presumptive
 1. Second World War



(In under one minute!)

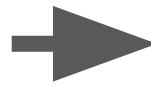


Wikipedia article for Elizabeth II. The article text includes: "Elizabeth II (Elizabeth Alexandra Mary; 21 April 1926 – 8 September 2022) was Queen of the United Kingdom and other Commonwealth realms from 6 February 1952 until her death in 2022. She was queen regnant of 32 sovereignty states during her lifetime, and was head of state of 16 nations at the time of her death. Her reign of 70 years and 214 days was the longest of any British monarch and the longest verified reign of any female monarch in history. Elizabeth was born in Mayfair, London, as the first child of the Duke and Duchess of York (later King George VI and Queen Elizabeth 'The Queen Mother'). Her father acceded to the throne in 1952 upon the abdication of his father, Edward VIII, making the ten-year-old Princess Elizabeth the heir presumptive. She was educated privately at home and began to undertake public duties during the Second World War, serving in the Auxiliary Territorial Service. In November 1947, she married Philip Mountbatten, a former prince of Greece and Denmark, and their marriage lasted 75 years until his death in 2021. They had four children: Charles, Anne, Andrew, and Edward. When her father died in February 1952, Elizabeth—then 26 years old—became queen of seven independent Commonwealth countries: the United Kingdom, Canada, Australia, New Zealand, South Africa, Pakistan, and Ceylon (now Sri Lanka), as well as head of the Commonwealth. Elizabeth regarded as a constitutional monarch through major political change such as the Troubles in Northern Ireland, devolution in the United Kingdom, the decolonisation of Africa, and the United Kingdom's accession to the European Communities and withdrawal from the European Union. The number of her realms varied over time as territories gained independence and some realms became republics. As queen, Elizabeth was served by more than 170 prime ministers across her realms. Her many historic visits and meetings included state visits to China in 1986, to Russia in 1994, and to the Republic of Ireland in 2011, and meetings with the pope. Significant events included Elizabeth's coronation in 1953 and the celebrations of her Silver, Golden, Diamond, and Platinum Jubilees in 1977, 2002, 2012, and 2022, respectively. Although she faced occasional republican sentiment and media criticism of her family—particularly after the investigations of her children's marriages, her arrest in 1992 in 1992, and the death in 1987 of her former daughter-in-law Diana—support for the monarchy in the United Kingdom remained considerably high throughout her lifetime, as did her personal popularity. Elizabeth died at Balmoral Castle, Aberdeenshire, in September 2022, at the age of 96, and was succeeded by her eldest son, Charles III. Her state funeral was the first to be held in the United Kingdom since that of Winston Churchill in 1965.

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- Early life
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0.1 Second World War



(In under one minute!)

RB

Is queen Elizabeth II alive?



As of my last knowledge update in January 2022, Queen Elizabeth II was alive. However, I do not have access to real-time information. To find out the current status of Queen Elizabeth II, I recommend checking the latest news or an official source.



Using Wikimedia content in a third-party environment carries some challenges

- 1) Speed
- 2) Usability
- 3) Machine Readability
- 4) **Content Integrity**



“Trustworthiness” is a key pain point

"Who's using Wikipedia and for what purpose? Indirectly we care about the community, more editors for you means more content for you means more content for us."

"How do you distinguish between assertions you're making that editors have vetted versus those added by a user a few minutes ago? Internal systems that could distinguish that would be super valuable to us."



We seek to mitigate these challenges to support the proliferation of free and open-source knowledge, engendering trust in the content and the work of the Movement

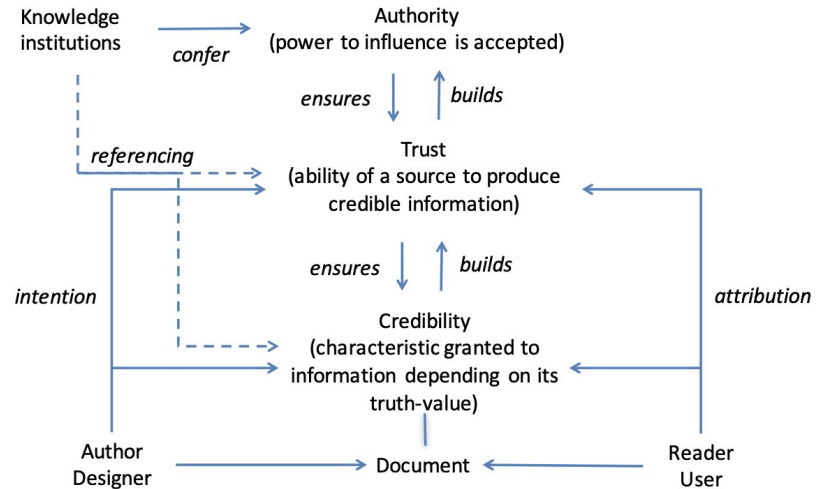
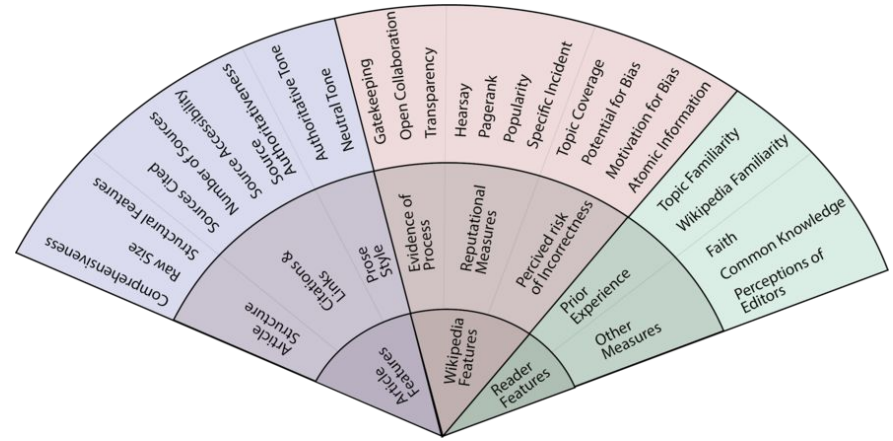
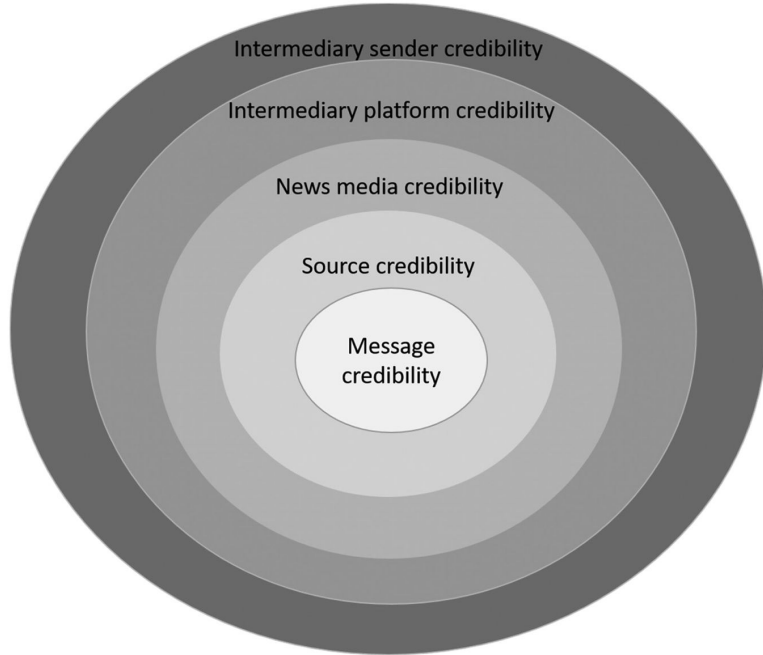


02

Research



What is credibility?





Breaking News on Wiki

"Early editors of breaking news articles are unlikely to contribute at similar stages to other breaking news articles. In contrast, historical and nonbreaking articles see a more gradual attrition among articles sharing editors,"

— Joe Sutherland, *T&S*

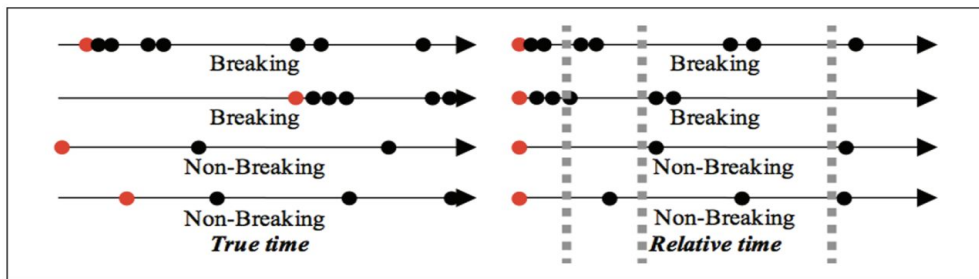


Figure 2. Schematic representation of edit history in true time, and its transformation and alignment into relative time, for two breaking articles and two nonbreaking articles. Red dots reflect the first edits made to an article by an editor, black dots reflect subsequent revisions to that article. Examples of time thresholds are given by vertical gray dotted lines.

— Brian Keegan, *CU Boulder*

4.1 IDENTIFYING SPIKES AND PEAKS

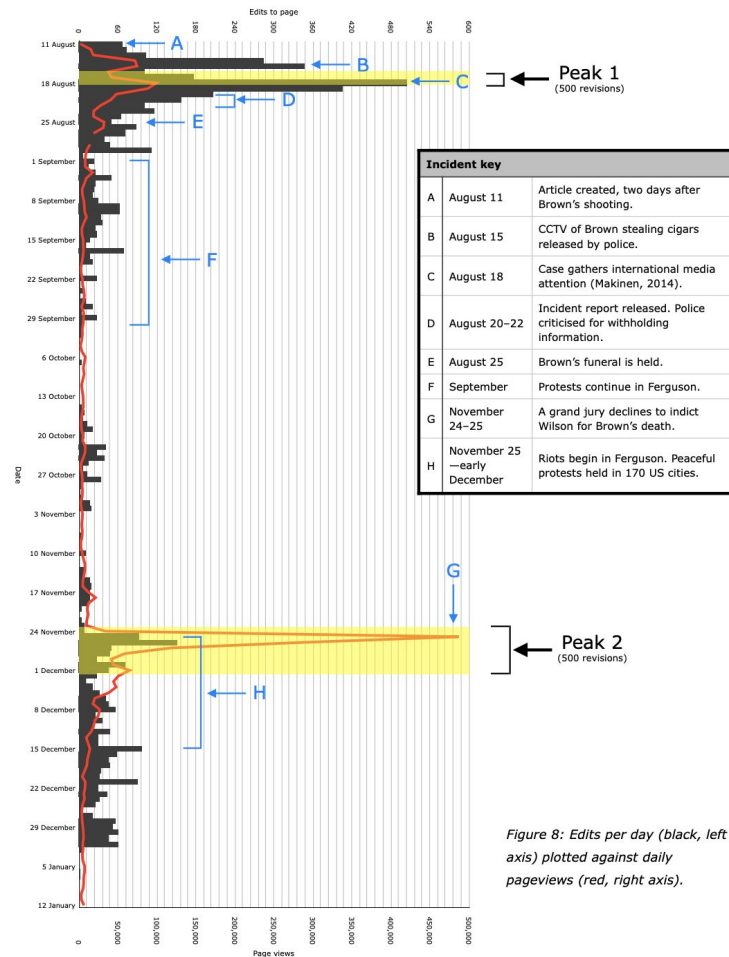


Figure 8: Edits per day (black, left axis) plotted against daily pageviews (red, right axis).



What we need to answer to signal credibility **per revision**

How do Wikipedia projects existing content integrity practices function?

How can we impact reuser understanding and trust of Wikipedia content?

How can our signals mirror community efforts in content integrity?

How can our signals be as useful to Wikipedia communities as they are to third party reusers?

How do we communicate all this programmatically?



Key learnings

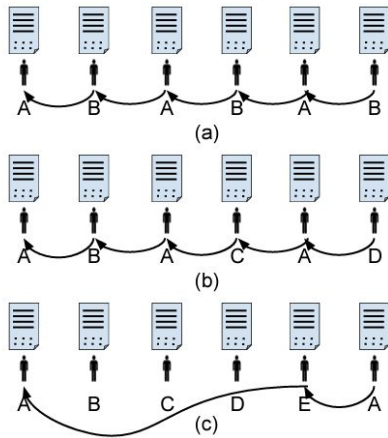


Figure 3: Types of Edit Wars: (a) Single-revision/Alternating users Edit wars (b) Multi-user Edit Wars (c) Multiple-revisions Edit Wars

- 1) Higher contact equals higher quality, *even when the short-term result is vandalism*
- 2) Context, semantic and non-semantic, are key
- 3) We must take care in how we make this information publicly accessible and usable



Wikipedia has 3 Atomic Units

1. Editors

2. Edits

3. Citations/References

The same must drive signals ...

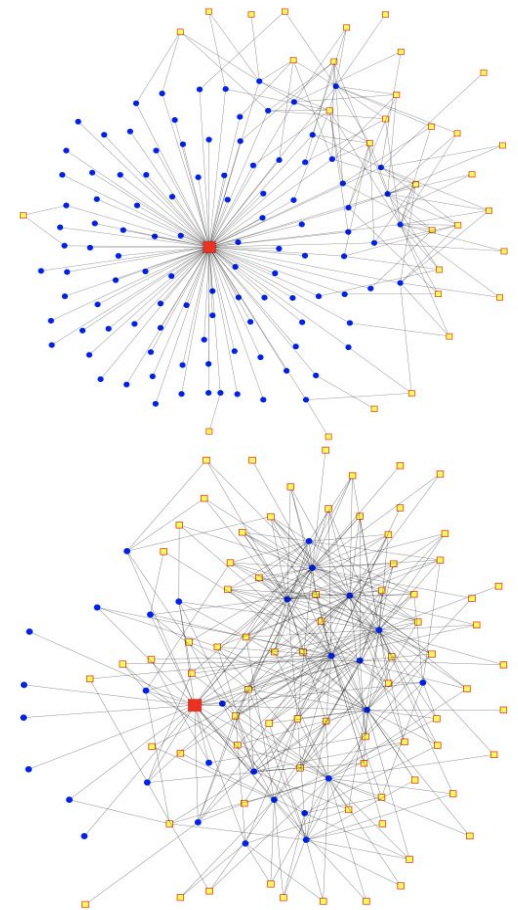


Figure 1: Two sample edit networks from Wikipedia. The red squares are the key articles, the yellow squares are other articles and the blue circles are editors. The top article is “Family History” a Start Class article, and the bottom article is “Eardwulf of Northumbria” a Featured Article.



03

Credibility Signals



Credibility Signals support practices of data validation.

They are not declarative.

Editors use signals on the page to make integrity decisions already — Enterprise will make them accessible in a structured manner to content reusers to use in the same way

Our intent is to work with interested customers to ensure we're packaging these signals so they they can be consumed in the best and most efficient way possible



Credibility signals provide community-sourced contextual information that can help our reusers make sense of when a particular edit is to their standard, in real-time.



Examples of Credibility Signals

- 1) *Editor reliability*: How long they've been editing, how many edits they have, access or permission levels
- 2) *Semantic*: Writing style, naive vs cynical vandalism
- 3) *Non-semantic*: Sourcing, controversy, and edit warring



Indicators of Reliability

- Machine learning based credibility scores
- Articles flagged as needing citations
- Auto Patrolling, Flagged Revisions, etc.
- Time of live revision
- Locked article status, changes
- Editor experience
- Editors watching data

Other

- Frequency of revisions
- Redirects and constantly moving articles
- Feed/List of perennial sources
- Feed/List of conspiracy sources
- Pageviews

Indicators of Controversy

- Recently reported vandalism or sockpuppet activity
- “Oversighted” revisions
- Events on specific time horizons
- Discussion Talk page data



04

What can you do with Credibility Signals?



**Combining credibility signals creates
new types of functionality, like our
“Breaking News” signal**

Name ↓	Unique Editors ↓	Unique Editors Within 1st Hour ↓	Anonymous Editors Within 1st Hour ↓	Editors Ratio Within 1st Hour ↓	Number Of Edits ↓	Project ↓	Indications ↓	Date Created ↓	Date Modified ↓	Date Namespace Moved ↓
2022_missile_explosion_in_Poland	131	12	5	0.4166666666666667	1250	English Wiki (enwiki)	Template:Cite news Template:Current event	2022-11-15T18:43:58Z	2022-11-17T09:00:33Z	
Donald_Trump_2024_presidential_campa...	36	12	1	0.08333333333333333	326	English Wiki (enwiki)	Template:Cite news Category:Current events	2020-11-12T05:33:06Z	2022-11-17T07:00:33Z	2022-11-16T02:25:42Z
Sam_Trabucco	6	2	0	0	46	English Wiki (enwiki)	Template:Cite news Template:Current person	2022-11-15T18:53:40Z	2022-11-17T07:05:31Z	
Donald_Trump_2024_presidential_campa...	4	0	0	0	24	English Wiki (enwiki)	Template:Cite news Category:Current events	2020-11-15T18:19:33Z	2022-11-16T02:24:19Z	2022-11-16T02:24:23Z
Jorge_Barroso	1	1	0	0	8	English Wiki (enwiki)	Template:In use Template:Cite news	2022-11-15T23:56:40Z	2022-11-15T23:56:48Z	
Juan_Brito_(infielder)	1	1	0	0	8	English Wiki (enwiki)	Template:In use Template:Cite news	2022-11-16T00:53:08Z	2022-11-16T00:53:20Z	
José_Cruz_(pitcher)	1	1	0	0	12	English Wiki (enwiki)	Template:In use Template:Cite news	2022-11-15T23:42:34Z	2022-11-15T23:44:14Z	
Colin_Selby	1	1	0	0	8	English Wiki (enwiki)	Template:In use Template:Cite news	2022-11-15T23:24:39Z	2022-11-15T23:24:48Z	
Keaton_Winn	1	1	0	0	8	English Wiki (enwiki)	Template:In use Template:Cite news	2022-11-15T23:41:29Z	2022-11-15T23:41:58Z	
2022_Russian_missile_strike_on_Poland	1	0	0	0	3	English Wiki (enwiki)	Template:Cite news Template:Current event	2022-11-15T18:43:58Z	2022-11-15T21:02:30Z	
2022年導彈擊中波蘭事件	15	1	0	0	201	Chinese Wiki (zhwiki)	Template:Cite news	2022-11-15T20:41:19Z	2022-11-17T00:26:08Z	

latam flight 2213



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LATAM LA 2213

Lima to Juliaca

Wed, Nov 23

2:55 PM

LA 2213

SCHEDULED

Juliaca JUL

LIM

1h 35m

JUL

Lima · Wed, Nov 23

Juliaca · Wed, Nov 23

Scheduled departure Terminal Gate

Scheduled arrival Terminal Gate

2:55 PM

- -

4:30 PM

- -

Updated 17h 30m ago

Showing local airport times

[Feedback](#)<https://www.latamairlines.com> > ... > [Press releases](#)**UPDATE 2: LATAM AIRLINES PERU FLIGHT LA 2213**

1 day ago — **LATAM Airlines** Peru regrets the passing of the two firefighters who were on the fire engine that collided with the aircraft, as informed by Lima ...

<https://www.latamairlines.com> > ... > [Press releases](#)

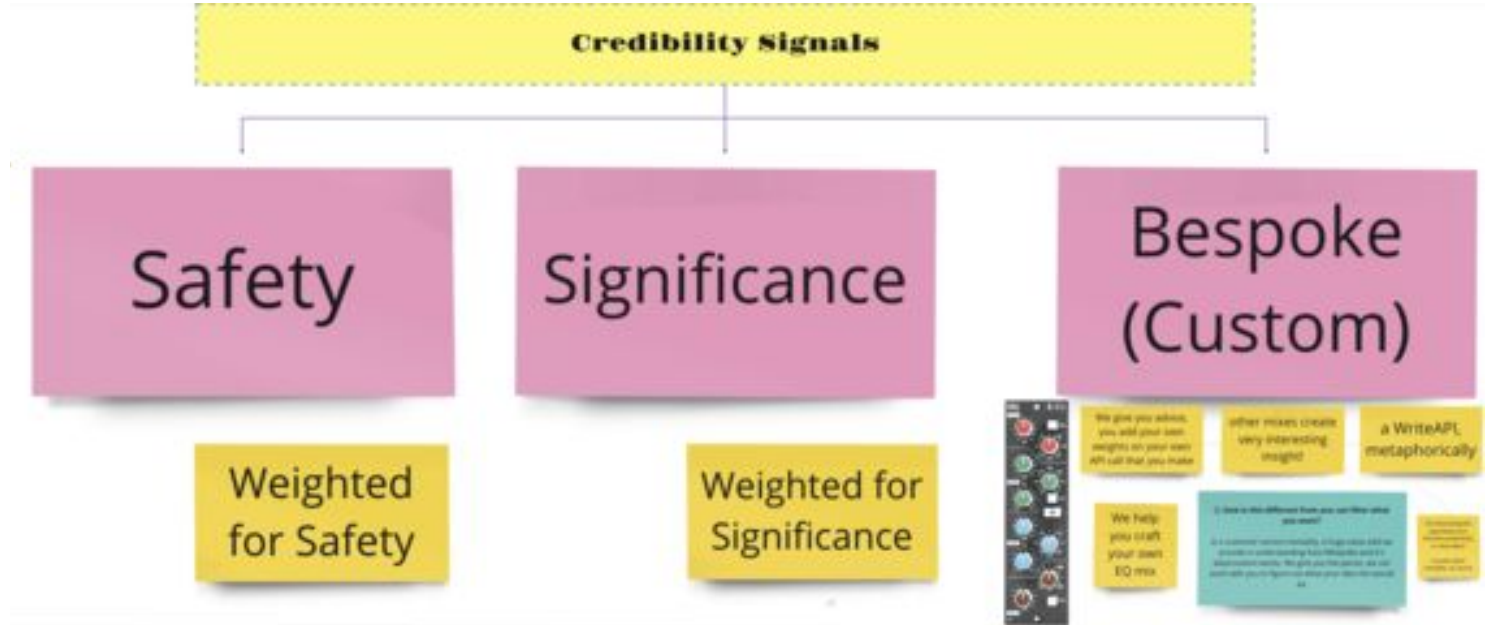
en.wikipedia.org

LATAM Perú Flight 2213 - Wikipedia

LATAM Perú Flight 2213 (LP2213/LPE2213) was a scheduled domestic passenger flight in Peru from Lima to Juliaca. On 18 November 2022, the Airbus A320neo operated by LATAM Chile was taking off from Jorge Chávez International Airport when it collided with ...



The Future





Content Integrity Facts

760 Total Revisions

Event Type

New Article Revision

Safety	Score	Signif.	Score
Visibility	0.01	Breaking News	true
Stability	0.9	Edit type	copy
Collaboration	0.333	Topic	music
'Revertrisk' (ML)	0.21	Editor (exp.)	0.9
Controversy	0.1	Trending	true
Citations	0.77	Art. Quality (ML)	0.4



critiques?

questions?

Thank you

ideas?

concerns?

say hello!!!

thoughts?

Reach out to me via email

fnavas@wikimedia.org



Aknowledgements

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