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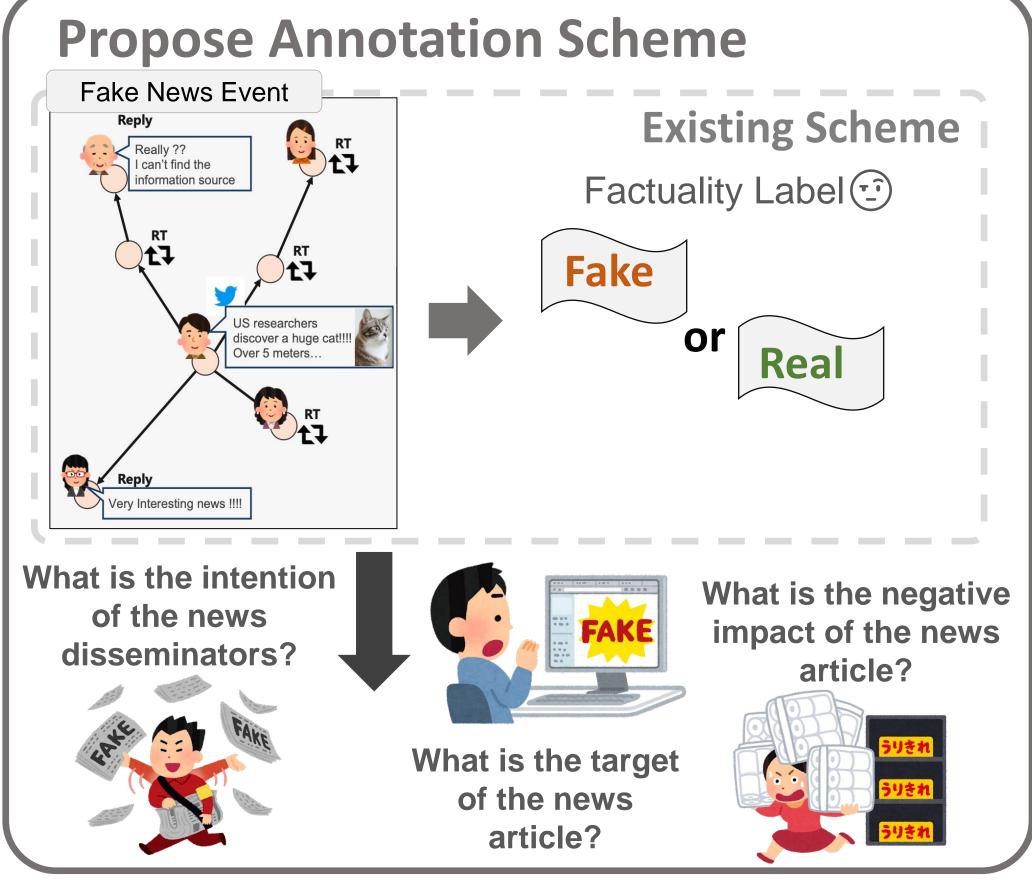
Annotation-Scheme Reconstruction for "Fake News" and Japanese Fake News Dataset

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What we do



Japanese Fake News Dataset

https://hkefka385.github.io/dataset/fakenews-japanese/



A labelled dataset containing 307 news items, 471,446 tweets, and 277,106 users

- Identifies issues with existing fake news detection datasets
- Proposes a new annotation scheme to understand fake news from various perspectives.
- The first Japanese-language fake news dataset based on the proposed annotation scheme
- Analysis of Fake News in Japan news and its spread compared to the U.S.

Questions in our Annotation Scheme

- Propose an annotation scheme to understand fake news and the phenomena it causes based on the issues of existing fake news detection datasets
- Question 2 covers the intention of the disseminator
- Question 3,4 covers the target of the news article.
- Questions 6, and 7 cover the harmfulness to society of the fake news,

Q1: What rating does the fact-checking site assign to the news?	True/ Harf-True/ Inaccurate/ False / Pants on Fire / Unknown Evidence/ Suspended Judgement
Q2-1: Does the news disseminator know that the news is false?	Yes, definitely/ Yes, probably / No, probably / No, definitively
Q2-2A: If yes (disinformation), how was the news created?	Fabricated content / Manipulated image / Manipulated text / False context
Q2-2B: If no, how does the disseminator misunderstand the news?	Trusting other sources / Inadequate understanding / Misleading
Q3: Who or what is the target of the false news?	Free writing
Q4: Does the news flatter or denigrate the target?	Flattery / Denigration / Neither, No such intention
Q5: What is the purpose of the false news?	Satire or Parody / Partisan / Propaganda / No purpose or Unknown
Q6: To what extent is the news harmful to society?	Rating from 0 to 5
Q7: What types of harm can the news cause?	Harmless / Confusion and anxiety about society / Threaten honour and trust in people, companies, or goods / Threaten correct understanding of politics and social events / Health / Prejudice against nation or race / Conspiracy theory

The issues of Fake News Datasets

Intention

- Definition of fake news: "a news article that is intentionally and verifiably false."
- The existing datasets only focus on the factuality of the news.
- To understand and counter fake news, the intention of the disseminator is equally essential.

Harmfulness to society

- Fact-checking priorities depend on the content and genre of the news.
- Fake news dataset construction annotated on social impact can be utilised to determine which news stories to fact-check.

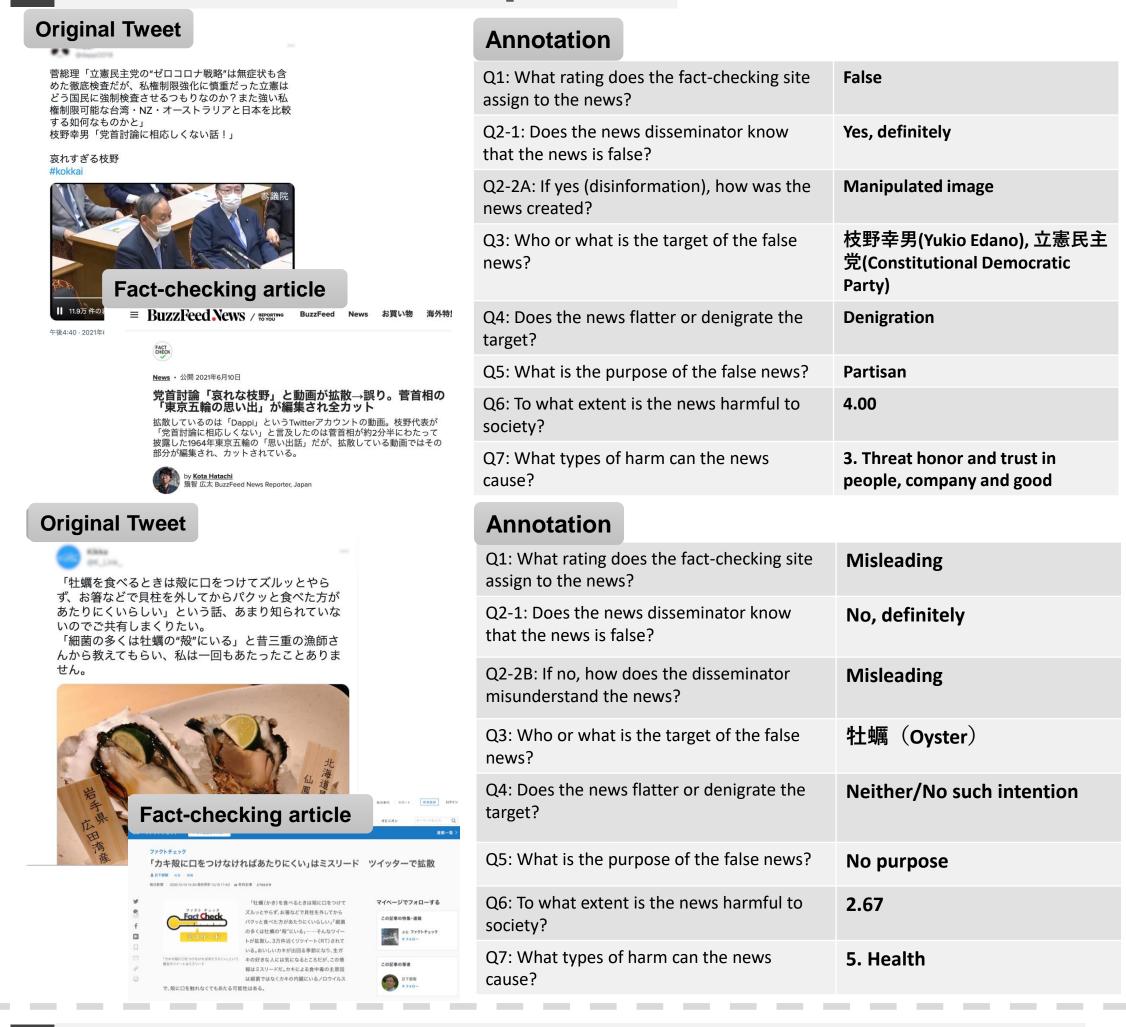
Label

- 33 of 51 existing fake news detection datasets are binary labels of "true" or "false." Other datasets incorporate labels from factchecking organisations.
- It is essential to unify the labelling for each dataset with a finegrained and detailed annotation scheme

Language

- Many datasets built on data covering U.S. society (40 / 51)
- 8 of 11 fake news detection datasets in languages other than English target COVID-19 events.

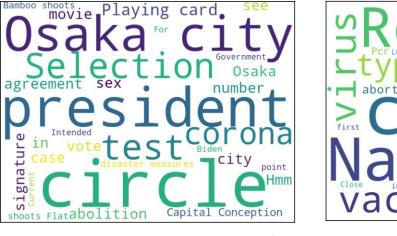
Annotation Examples



Analysis of Japanese Fake News Dataset

Analysis of 307 news items, 471,446 tweets, and 277,106 users in the constructed dataset

WordCloud for each label in Question 7



5. Health



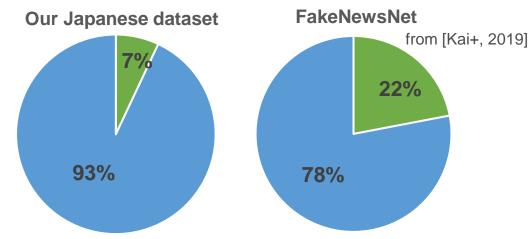
6. Prejudice against country

or race

3. Threat to honour and trust in people and companies

The proportion of Bot users in the dataset.

FakeNewsNet Our Japanese dataset



9-10 years 7-8 years 6-7 years 5-6 years 4-5 vears 3-4 years 2-3 years

1-2 years

 Ages of user accounts in the dataset

related to Disinformation related to Misinformation

Real user Bot user