

# **Annotation Cards**

Multimodal Claim Detection

# Claim

- ***Claim:*** state or assert that something is the case, typically without providing evidence or proof.
- We divide this class into 4 labels:
  - **Not a factually verifiable claim**
  - **Factually verifiable claim**
  - **Checkworthy Claim**
  - **Not a checkworthy claim**

# Factually Verifiable Claim

- A claim which **can be verified using factual and reliable information** (Wikipedia/books/scientific reports), **credible news reports, information from credible organizations like WHO/UN.**
- **When a claim** has the following information that can be checked from a reliable source:
  - *Should ideally have who, where, when, how, what, etc.*
  - *A definition, procedure, law, process*
  - *Numbers/Quantities in the tweet – e.g. Sums of money, #deaths*
  - *Verifiable predictions*
  - *Refers to people, events, locations of those events*
  - *Refers to images and videos in the tweet*
  - *Personal opinions with claims that have factually verifiable information.*

# 3 Annotation Qs

- **Q1** : Does the tweet-image pair contain a factually verifiable claim? - Yes / No
- **Q2** : If Yes, Does the claim contain harmful, up-to-date, urgent or breaking-news information? - Yes / No
- **Q3** : If Yes to Q1, Does the image contain information about the claim or the claim itself (in the overlay text)? - Yes / No

These questions need to be answered just on  
the **basis of image-text pair**. Not based on  
external link in the tweet.

# Clarification

- Q1 :
  - The tweets and claims would be ideally around 3 topics: coronavirus, climate change and broadly technology.
  - A claim or a tweet should be annotated **with respect to the time** it was posted.
  - Questions are not claims.
- Q2 :
  - Urgent / breaking-news : breaking news about prominent people, organizations, events, countries.
  - Harmful - With respect to the topic - attacks a person, organization, country, group, race, community.

# Not Claims

## Q1: No

A doctor explains the proper way to wash your hands and put on a face mask, amid the China coronavirus outbreak <Link>

We're getting the latest about the deadly #coronavirus from our medical expert at [@EmoryUniversity](#). <Link>

- Pointing to instructional videos is not a claim.

How to survive the coronavirus outbreak <Link>

@DudyDam\_ "Wuhan," he said. "Jia you," they responded in chorus, using a phrase that means "add oil" but is roughly translated as a rousing "Go!" <Link> <Link>

- Questions are not claims.

@HumbertoWrites And we wonder why we have the coronavirus going on... <Link>

- Most don't have a claim structure and are not making a claim about anything

How I'm going everywhere until the Coronavirus epidemic is over <Link>

@DrShaena this is basically my climate change adaptation strategy until hops go extinct. <Link>

- Quotes are not claims

If We Don't Take Care of Nature, Nature Will Take Care of Us:<Link>

ICYMI : @Adamwalton talks to Prof Chris Freeman @BangorBioZoo about #climatechange, carnivorous plants, a perfectly-preserved severed human head from thousands of years ago and the Apollo 8 mission to the moon on @BBCScienceCafe! <Link> <Link>

- Tweets for advertisements, webinars, lectures, etc are not claims

Happy School Principal's Day to One of the best Principals in Mobile County ! We appreciate your dedication to our students, staff, and community! Thank you @GlendaWarren15 for all you do! <Link>

Does the "climate change" require ombudsman services for environment? <Link> <Link>

# Not Claims

## Q1: No

True Reformers for New York's Senate - <Link> - Beyond the chance to shake things up in Washington, this fall's elections present voters with an opportunity to support reformers around the country who are out to change the political climate from the ground u... <Link>

One woman recounts how she spent summer vacation: Fleeing [#wildfires](#) as a climate change refugee. [Link](#) via [@USATODAY](#) [Link](#)

- Personal testimonies don't necessarily have claims

We have a webinar coming up this MONDAY on the impact of [#wind](#) energy on rural communities. Register at [Link](#) [Link](#)

- A tweet that is "thinking" or "feeling" something is true, is not a claim

RT [@RedPillDuke](#): I've been studying up on this coronavirus thing and I'm pretty sure it's all Gwyneth Paltrows fault. [Link](#)

@lpd1836 @Ciquah @bruckorb @KHayhoe @YaleClimateComm It shows climate change because of humans, but leaves off climate change \*because\* of humans, which is so unlike past change that the only way to make your case is to leave it off. [Link](#)

Got tired of wasting time on my phone but wasn't sure what to do about it. So I made a mobile app that connects to a scraper I made so I can review leads from my phone instead of mindlessly scrolling. Still working on filtering, but I'm currently happy it works! [Link](#)

Bitcoin= taking a bite out of real coins? Lol [Link](#)

thinking about how kaiba is one of the most underrated cyberpunk series of all time. [Link](#)

# Not Factually Verifiable Claims

## Q1: No

@SeismicTX TFW they say they don't listen to house x techno <https://t.co/55lyWEIDeo>

@blackonyxgold Chinses Take out or in is a no because Fortune cookie predicts Coronavirus! <https://t.co/qpZB3mMvqG>

Science (USA): Scientists are trying at a record speed to create a vaccine against coronavirus – but maybe they are already late | Society | Foreign media <Link> <Link>

@anamariecox Seamus is very concerned about climate change. He's not a big fan of the heat. <Link>

We are too late for most Colorado wildflowers but some linger in the sheltered spots at the top of the mountains, and there is colour in the foliage. No snow patches to be seen anywhere - a sure sign of climate change.<Link>

RT @malaysiakini: M'sia more proactive in containing coronavirus, compared to SARS in 2002 <Link> <Link>

Coronavirus is forcing South Side block clubs to go virtual, overcoming a "digital divide" for older residents. <Link> <Link>

Geoengineering efforts that reflect sunlight back into space could help counteract global warming. But international disagreements over how to use these technologies, or whether they should be ... <Link> <Link>

- These are claims (by structure), but lack important and specific details which cannot be checked.
- Personal testimonies that are generic and lack facts
- These are often too generic

Proactive is subjective.  
Claim with details of what M'sia is doing is verifiable

South side block?

Which particular effort? Too generic

# Factually Verifiable Claim Examples

## Q1: Yes

Q2: Yes	Coronavirus in New York : New Year's Events Canceled Over Fears_<Link> <Link>	- Factually verifiable claims have concrete information that can be checked.
Q2: Yes	<Link>   Coronavirus: No need to evacuate South Africans living in Wuhan - Mkhize: There is no evidence to necessitate the evacuation of South African citizens living in Wuhan , China , amid the coronavirus outbreak, according to the...<Link> <Link>	- For e.g. If the fourth claim was : “Forest fires” points to ‘major transformation’ of australian ecosystems. Its a claim, but it cannot be actually verified.
Q2: Yes	The United States and Japan flew citizens out of Wuhan, the Chinese city at the epicenter of a new virus outbreak, as the death toll rose above 130 <Link> <Link>	- Q2 is yes, when claim falls into breaking news category and involves a country, public personality, a company, etc.
Q2: No	Fossil record points to 'major transformation' of Australian ecosystems in next 100 years #climate @CroakeyNews <Link> <Link>	
Q2: No	The race to save the Great Barrier Reef: Australia is racing to save the Great Barrier Reef. Scientists estimate 50% of the coral on this natural wonder of the world was killed over the last two years by marine heat waves caused by climate change.... <Link> <Link>	
Q2: Yes	Oppo A92s 5G is official with a 120Hz display for \$310 <Link> <Link>	
Q2: Yes	Chinese President Sparks Big Bitcoin Price Gains with Bullish Blockchain Speech Comments Off on Chinese President Sparks Big Bitcoin Price Gains with Bullish Blockchain Speech 1017 Chinese President Xi Jingping ... Found on: Markethive News @ <Link> <Link>	
Q2: Yes	Leading Indian #blockchain Big Data Company ZEBI Announces Mainnet Launch and New Products for 2019 ...<Link> <Link>	

# Factually Verifiable Claim Examples

## Q1: Yes

Q2: Yes

**Scott Morrison declares climate change wars vexing the Coalition for a decade would not derail his drought rescue mission.** [<Link>](#) [<Link>](#)

Q2: No

**Climate Change Is Making The Ocean Warmer and Killing Wildlife.** Here's How You Can Help. [<Link>](#) [<Link>](#)

Q2: Yes

**Kerala floods: Victims face snake menace as waters recede** BBC News \* 'Snake alert' issued in India's flood-hit Kerala Channel NewsAsia \* In photos: How Kerala sunk, swam, and survived Quartz \* Climate change can trigger more devastating floods in... [<Link>](#)

Q2: No

At long last, **Neil Gaiman's Sandman series is being adapted for television |** [@arstechnica](#) [<Link>](#) [<Link>](#)

Q2: Yes

**Bitcoin taking a hit on today, back down below the \$10,000 level** \$BTC [<Link>](#)

Q2: No

**Stocks are teetering near a 10% pullback**, thanks to risks like coronavirus, **investor Jeff Mills warns** [<Link>](#) [<Link>](#)

Q2: Yes

**Tel Aviv Tests Cryptocurrency to Boost Its Economy** - U.S. News & World Report [<Link>](#) [<Link>](#)

Q2: No

**@JorisMeys @ClimateNexus** I've had some brief Contact with this physician. He says the sunvariations and the formation of clouds from water vapor are the climate change [<Link>](#)

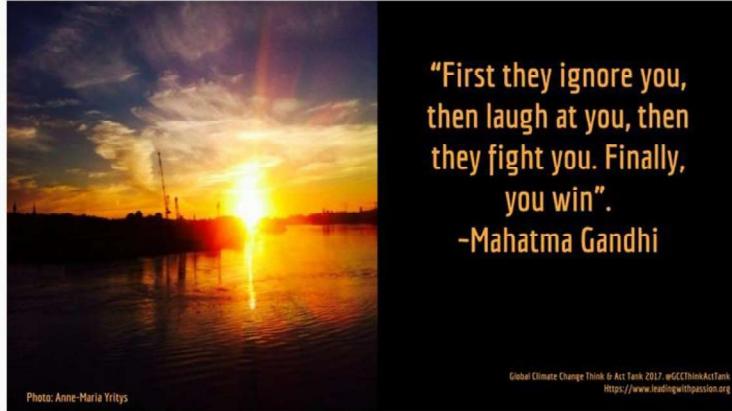
- Here too urgent claims are:

- When a public personality like a politician "says something"
- breaking news like cancellation of flights, stock market crash

Bold part is a claim and can be verified. While who said it is unknown and cannot be verified

# Not Claims

## Q1: No

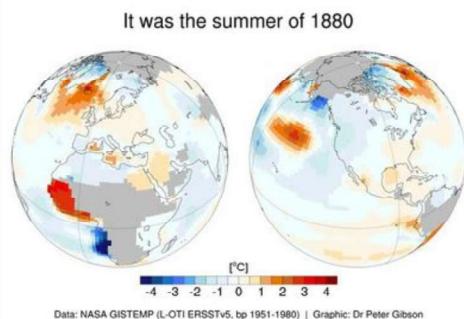


Why your actions matter regardless of any obstacles: <https://t.co/BV0z52xlXH> #climatechange #climateaction #environment #energy <https://t.co/QUABSUmX4w>

**Quotes are not claims**

# Not Claims

**Q1: No**



139 years of **summer** **temperature** anomalies in less than 1 minute... #climatechange <https://t.co/fesbY3jUVa>

**Description of what is in the image (139 years of summer temperature)  
does not make the tweet a claim.**

# Not Claims

**Q1: No**

A screenshot of a search engine interface. The search bar contains the query "how many days ago was 2000". Below the search bar are category tabs: ALL (which is underlined in blue), SHOPPING, NEWS, MAPS, IMAGES, and VIDEOS. The main search result is a box titled "Count Days" which displays "6,969 days" and the date range "31 December 2000 - 30 January 2020". At the bottom of the search results, there is a snippet of text: "If you are **going** to take me, take me **today** **Coronavirus** . <https://t.co/AhPezZbVW9>".

# Not Claims

**Q1: No**



RT @GrandFatherShot: Sharing is caring ❤️ #coronavirus #preventcoronavirus <https://t.co/l0dboDglhZ>

**A corner case - Description of components is not claims.**

# Not Claims

**Q1: No**



Simple rejection on Bitcoin golden zone 9k then stop hunt 7.2k <https://t.co/asWNu0Dne3> Nash ( NEX ) about to MoOn? —  
<https://t.co/ibHB6cxFSX> ✓ <https://t.co/pLlis9UBqH>

**Description of what is in the image does not make the tweet a claim.**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: Yes, Q3: Yes**

The infographic is titled "How can you reduce the risk of coronavirus infection?" and features the IFRC logo. It contains five tips with corresponding icons:

- Wash your hands regularly with soap (Icon: hands being washed)
- Cover your mouth and nose when coughing or sneezing (Icon: tissue covering mouth/nose)
- Thoroughly cook meat and eggs (Icon: magnifying glass over a pot)
- Avoid contact with anyone showing flu-like symptoms (Icon: person with a fever)
- Avoid unprotected contact with live wild or farm animals (Icon: cow)

Source: WHO

Here are some tips to reduce the risk of the #coronavirus   
<https://t.co/AokEHuudJF>

**There are five claims in the image “that can reduce the risk of coronavirus infection”. These should be verified or checked.**

**Q2 is yes, as the claims are very important for public in general with respect to the pandemic.**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: Yes, Q3: Yes**



Health Advisory - Outbreak of pneumonia caused by a new coronavirus. <https://t.co/DDEv0ZpCs4>

**There are several claims in the image. Such images are often shared on Twitter, which can be used to propagate misinformation. Q2 is yes, because it is a health advisory**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: No, Q3: Yes**

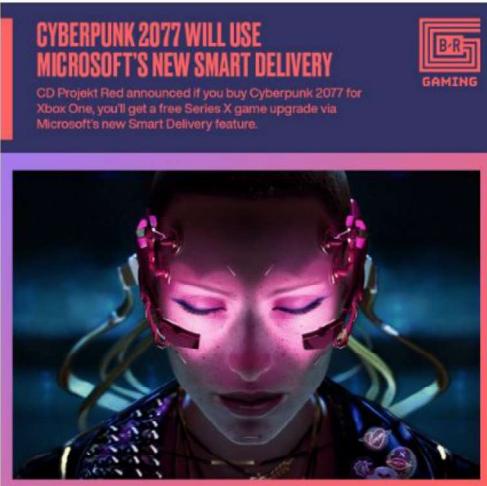


Why is methane referred to as an environmental wildcard in terms of assessing climate risks? <https://t.co/ghgHOKuPXT> #climatechange #climateaction #environment #energy <https://t.co/TZJlqxtUzU>

**The question in tweet is not a claim. But quote text in image is a statement from an institute, which is a claim.**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: Yes, Q3: Yes**



Owners of Cyberpunk 2077 on Xbox One won't have to buy it again for Series X 🎉 <https://t.co/MIC1abinZp>

**Claim in Image. “Cyberpunk 2077 will use microsoft’s new smart delivery”.**  
**Q2 is yes, because the claim refers to a company**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: No, Q3: Yes**



Climate Change Is Making The Ocean Warmer and Killing Wildlife. Here's How You Can Help. <https://t.co/SvZVIQ3C6b>  
<https://t.co/kQBUQCXqkC>

**Evidence or Information with respect to the claim text in Image (dead coral reefs)**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: Yes, Q3: Yes**



A **robot** named **Little Peanut** is **delivering** **food** to people in **quarantine** amid the **Wuhan** **coronavirus** **outbreak**  
<https://t.co/nWrk1lsKlf> <https://t.co/TpwDfy1C0X>

**Evidence or Information with respect to the claim text in Image. Q2 is yes,  
the claim refers a country amid an outbreak.**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: Yes, Q3: Yes**

dos.elections.myflorida.com/cgi-bin/contrib.

**Committee Type: All**

**With Payee Last Name Starts With: Soros**

Candidate/Committee	Date	Amount	Typ	Contributor	Name
Forward Florida (PAC)	06/26/2018	250,000.00	CHE	SOROS	GEORGE
Forward Florida (PAC)	07/27/2018	250,000.00	CHE	SOROS	GEORGE
Forward Florida (PAC)	04/30/2018	250,000.00	CHE	SOROS	GEORGE
Forward Florida (PAC)	08/22/2018	250,000.00	CHE	SOROS	GEORGE
Forward Florida (PAC)	12/29/2017	100,000.00	CHE	SOROS	GEORGE
Forward Florida (PAC)	03/31/2017	100,000.00	CHE	SOROS	GEORGE
Forward Florida (PAC)	03/31/2017	50,000.00	CHE	SOROS	ALEX
Forward Florida (PAC)	07/30/2018	50,000.00	CHE	SOROS	JOHNATHAN
Total:					1,300,000.00

0 contributions have been deleted

@Lanna70115 @HillaryGuess @funkychicken @treehugger1605 @jeffs4u2 @dovesandletters @GodandtheBear @SiERabbit  
@ClingonHillary Andrew Gillum's Forward Florida PAC has accepted \$2.1 million so far from George, Jonathan and Alex Soros  
as well as Tom Steyer's NextGen Climate Change PAC so far according to Florida campaign finance filings. <https://t.co/PUQLFNiXh0>

**Evidence or Information with respect to the claim text in Image. Q2 is yes,  
the claim refers to public personalities and Florida.**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: Yes, Q3: Yes**



Is there a vaccine or cure for the Novel Coronavirus?

There are currently no available vaccines or cure against coronaviruses. However, many of its symptoms can be treated based on the patient's clinical conditions.

philstar  
LOCAL

f /philstarnews

v @philstarnews

FAQs about the Novel Coronavirus (2019-nCoV) Is there currently a vaccine or cure for nCoV? Get live updates here:  
<https://t.co/9ITkDRnesZ> <https://t.co/DHB2jTsPDP>

**Claim is in the image. “There are currently no available vaccines or cure against coronaviruses”....**

**Q2 is yes, because claim is with respect to coronavirus or outbreak (event)**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: Yes, Q3: Yes**

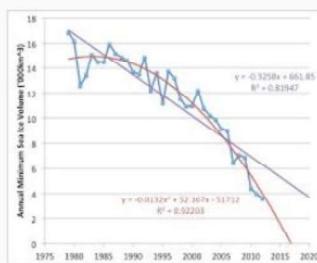
The screenshot shows a news article from CoinNess.com. The headline reads "US Judge Rules That Craig Wright Won't Forfeit Bitcoin In Kleiman Case". The article discusses a U.S. District Court judge's ruling that a previous sanction ordering Craig Wright to give up half of his Bitcoins to the estate of Dave Kleiman will not stand. The judge found that Wright had not violated the terms of the original injunction. The article includes a summary of the legal reasoning and quotes from court documents.

[ US Judge Rules That Craig Wright Won't Forfeit Bitcoin In Kleiman Case ] A United States District J... <https://t.co/DkZzCfIWtB> <https://t.co/N6DtTk4FmN>

**Information with respect to the claim text in Image, Claim in the image as well. Q2 is yes, because claim refers to US judge, a public personality and on-going public hearing/case.**

# Information/Claim in Image (Q3)

**Q1: Yes, Q2: No, Q3: Yes**



@mcm\_ct @EpsilonTheory Looks like you unfairly calculated the 50% error, it means absolutely nothing. Climate change is about climate change, not Earth getting colder or warmer on avg. Early predictions correctly predicted the current downward trends of the Arctic sea ice volume. The trend is down. <https://t.co/V2GE6KLGLZ>

The claim is “Climate change is about climate change, not Earth getting colder or warmer on avg”. The next line is not a claim (early predictions ...), but a interpretation of the graph.