



慢漫 · 謾蒞

Weed Out the Lies

GROUP 5

蘇翼霄 葉之晴 謝安亭 曾天裕

Outline



- 1 Contribution
- 2 Introduction
- 3 Technique
- 4 Demo
- 5 Future Work
- 6 Connection



Contribution

[Classifier Model Training, Twitter dataset crawling]

蘇翼霄

[PTT dataset crawling, Raspberry Pi Setup]

葉之晴

[Weibo dataset crawling]

謝安亭

[Reddit dataset crawling]

曾天裕

慢漫 · 謾莊



荳蔓詞語解釋 / 荳蔓是什麼意思

簡體拼音：	[yán màn]
反義詞：	
近義詞：	
基本釋義：	
詳細釋義：	<p>牽纏蔓延，綿綿不斷。</p> <p>《文選·左思〈蜀都賦〉》：“蘊蕪布濩於中阿，風連荳蔓於蘭皋。”張銑注：“荳蔓，相連屬貌。”</p>

慢漫 · 謾罵



漫 · 漫大水

謔 · 謔罵

蔓延 · 莳蔓





I read it in the paper,
so it must be true.

Motivation

fake news

noun [U]

UK /'feɪk 'nju:z/ US /'feɪk 'nu:z/



false stories that appear to be news, spread on the internet or using other media, usually created to influence political views or as a joke

Donald Trump has called journalists and news outlets “fake news” nearly 2,000 times since the beginning of his presidency, averaging more than one daily broadside against the press over the last four years.

– *The Independent*

Types of Fake News





2015年8月7日 · 台北市 ·

追蹤

...



Satire/ Parody

Fact Checks · Politics

Did Cirsten Weldon Say Hillary Clinton Died of Disease Associated with Cannibalism?

Kuru is an incurable disease that is usually fatal within a year of developing symptoms.

By Madison Dapcevich

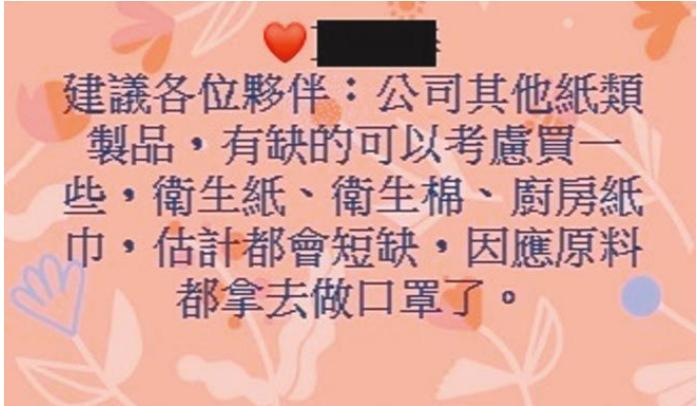
Published 9 May 2021



Image via [DNCC via Getty Images](#)

Claim

In an interview posted on May 6, 2021, QAnon conspiracy theorist and former actress Cirsten Weldon claimed that Hillary Clinton died in 2020 of kuru, a brain-wasting disease associated with cannibalism.



2020年，自農曆年前新冠肺炎爆發以來，網路充斥許多捏造的訊息，包括某診所有確診個案、口罩有毒，甚至氰化物可殺死病毒等不實訊息。

警方共偵處相關網路假訊息58件，移送28件39人。

Motivation

- News pop up in our life more easily and instantly.
- We don't have enough time to read the full article, so read the titles instead.
- One-Sided news influences how we think



Art Statement



We receive a lot of news everyday, as we know plants need water everyday.
What if we live in a world full of fake news?

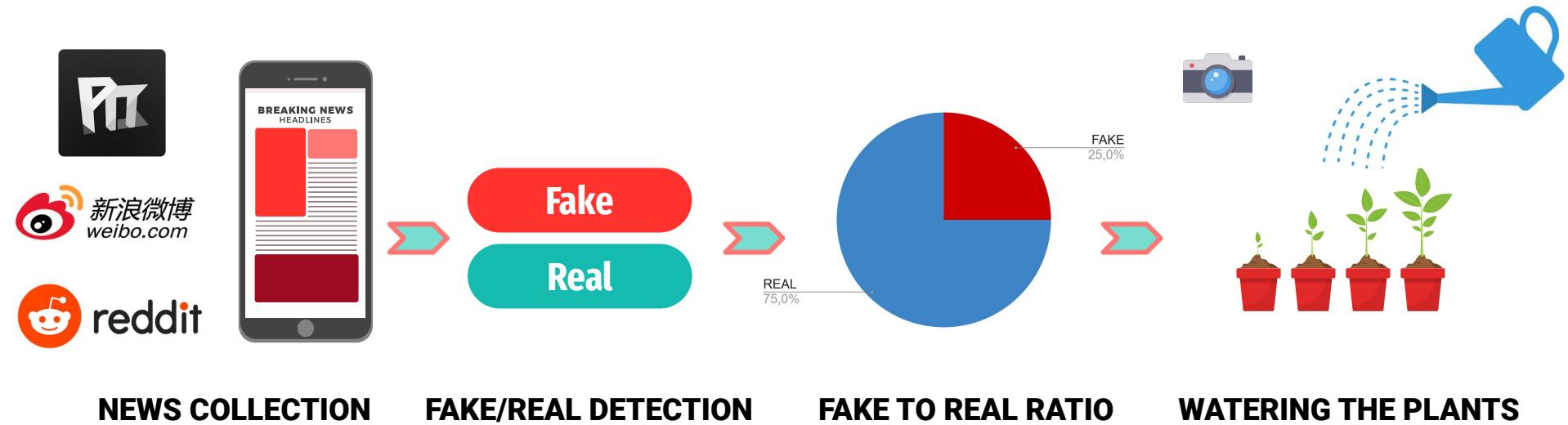
Art Statement



“The same knife cuts bread and fingers”

Are we still alive when we absorb too much fake news?

Project Description





Technique (For English)

Train it with Twitter dataset

		id	title	label
0	0	House Dem Aide: We Didn't Even See Comey's Letter Until Jason Chaffetz Tweeted It		1
1	1	FLYNN: Hillary Clinton, Big Woman on Campus - Breitbart		0
2	2	Why the Truth Might Get You Fired		1
3	3	15 Civilians Killed In Single US Airstrike Have Been Identified		1
4	4	Iranian woman jailed for fictional unpublished story about woman stoned to death for adultery		1
...
20795	20795	Rapper T.I.: Trump a 'Poster Child For White Supremacy'		0
20796	20796	N.F.L. Playoffs: Schedule, Matchups and Odds - The New York Times		0
20797	20797	Macy's Is Said to Receive Takeover Approach by Hudson's Bay - The New York Times		0
20798	20798	NATO, Russia To Hold Parallel Exercises In Balkans		1
20799	20799	What Keeps the F-35 Alive		1

Utilizing BERT model

```
#set up training
model=BertForSequenceClassification.from_pretrained(model_name, num_labels=2)
training_args = TrainingArguments(
    num_train_epochs=1,
    per_device_train_batch_size=16,
    weight_decay=0.01,
    load_best_model_at_end=True,
    logging_steps=500,
    evaluation_strategy="steps",
    output_dir = OUTPUT_DIR
)
```

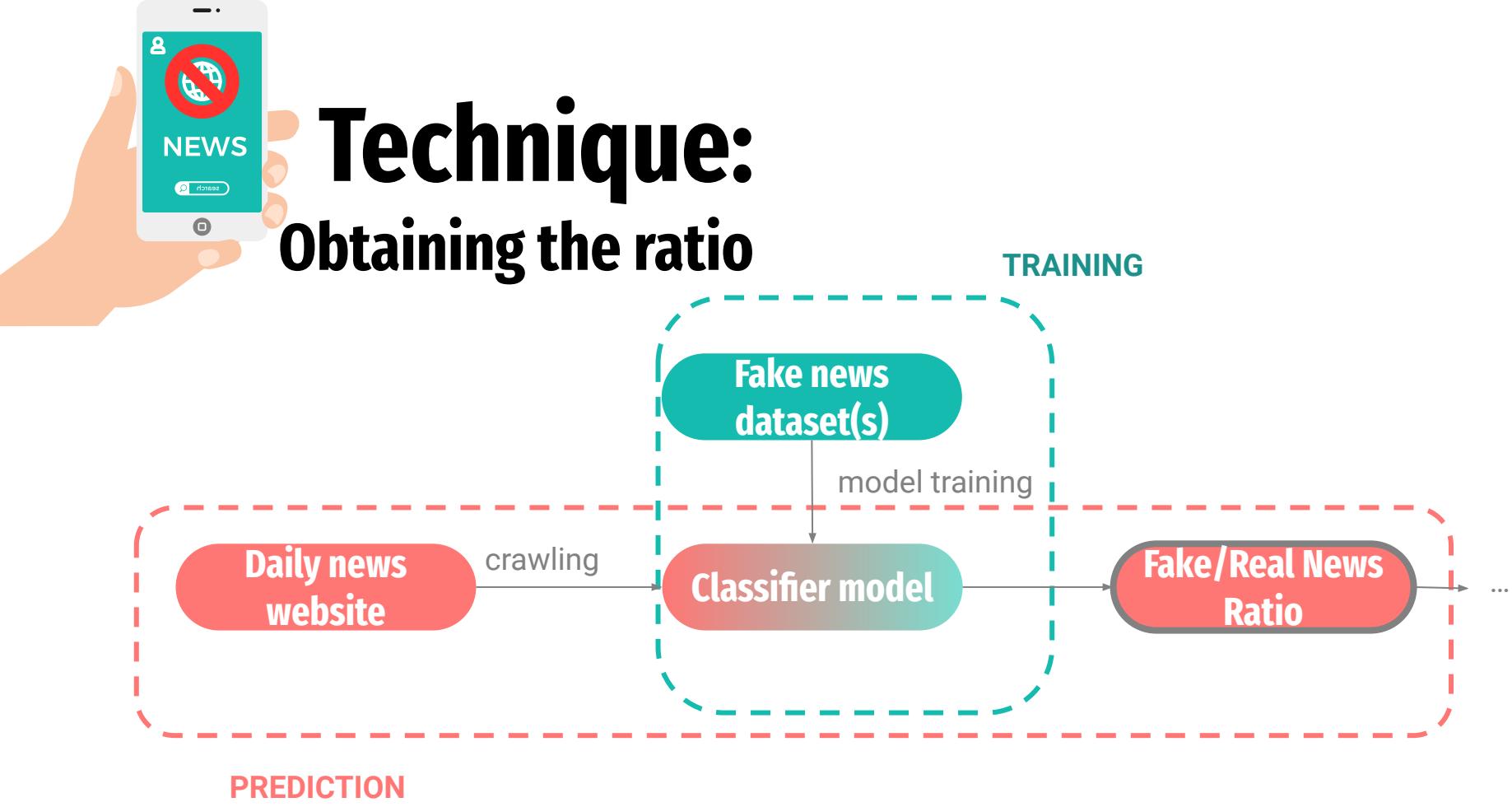
Crawling
news
from
Reddit

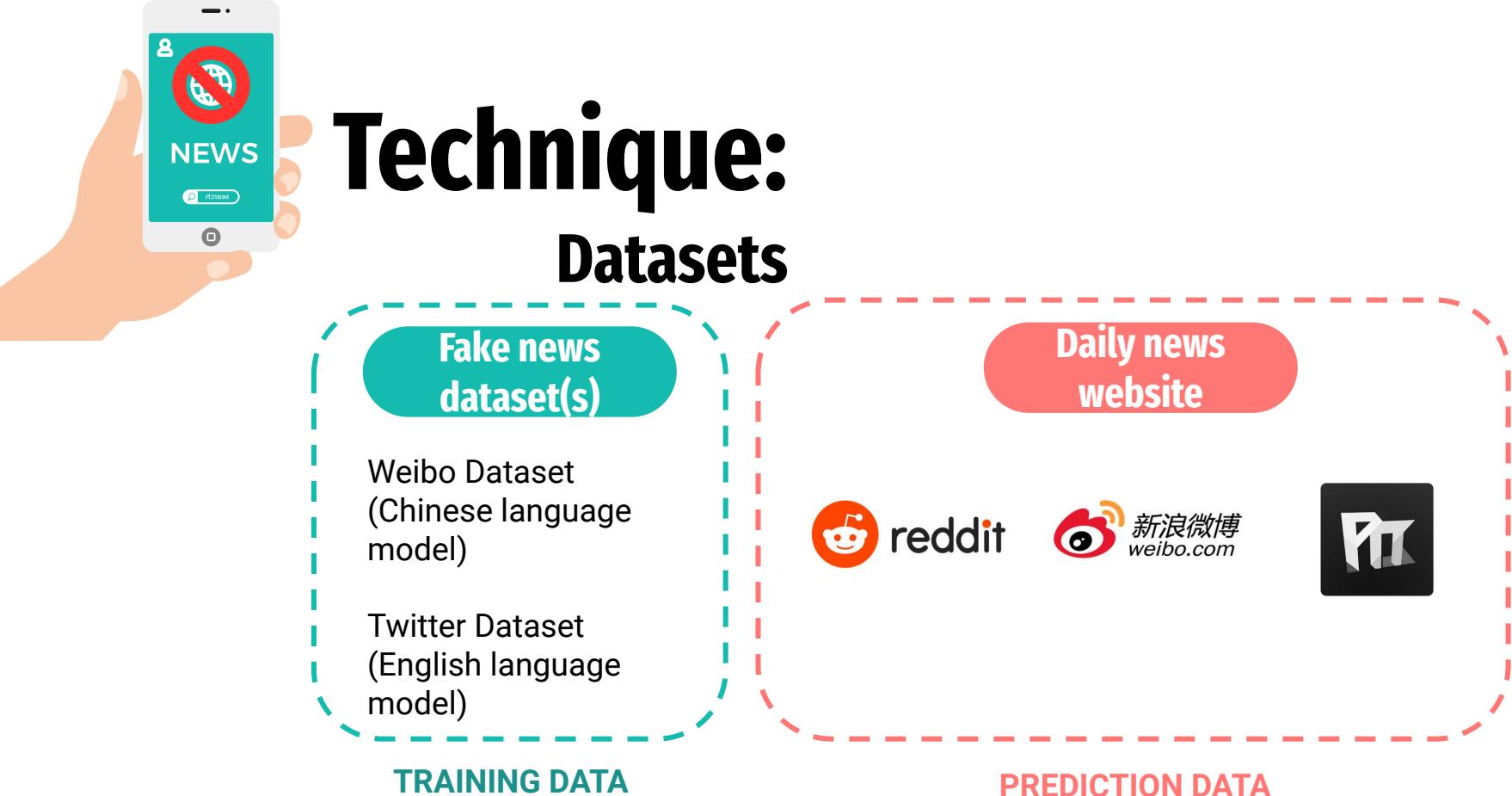
Amazon Fires Employees Who Didn't Clock Out After Getting Buried In Rubble

Texas Bans Access To Tall Staircases In Case Women With Unwanted Pregnancies Get Any Ideas

Amazon To Let Warehouse Employees' Families Work Thanksgiving Shifts Too





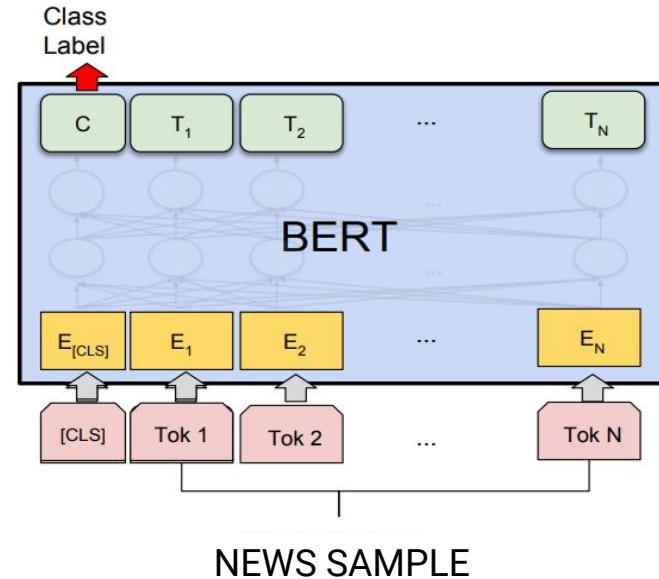


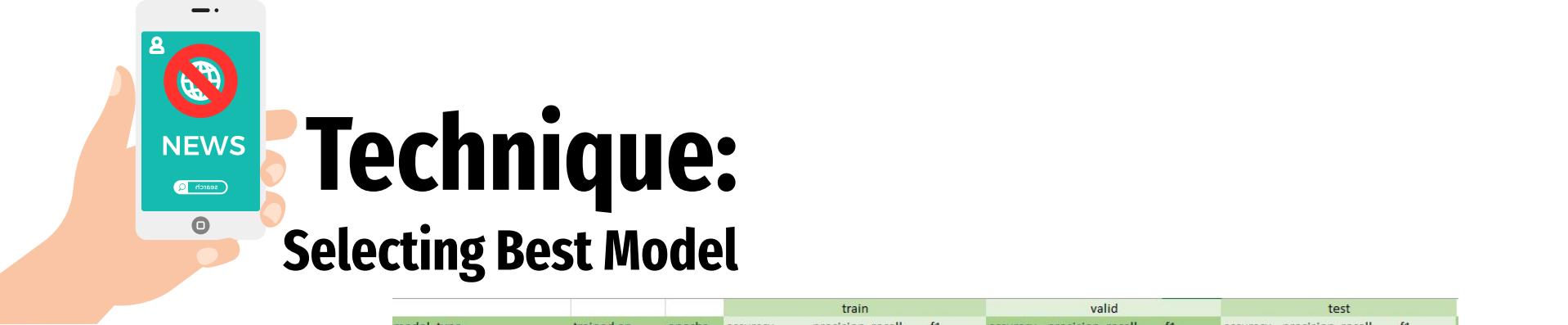


Technique: Classifier Model

We train 2 models:

- for Chinese-language Data (Taiwan and ChRL news);
- for English-language Data (USA news).





Technique: Selecting Best Model

Chinese

model_type	trained on	epochs	train					valid					test					
			accuracy	precision	recall	f1												
bert_base_chinese	texts	1	83.55	71.03	61.05	65.67	79.43	66.41	57.23	61.48	82.31	39.45	39.85	39.65	82.2	40.04	44.44	42.04
		2	86.99	76.43	72.03	74.17	82.64	67.18	63.23	65.15	82.2	40.04	44.44	42.04				
	titles	1	96.22	96.57	88.57	92.39	94.91	94.26	85.18	89.49	85.63	70.37	2.57	4.96	82.2	40.04	44.44	42.04
		2	98.34	96.15	97.48	96.81	96.41	92.99	94.8	93.89	85.77	69.07	4.53	8.5				
	texts+titles	1	95.97	91.39	93.12	92.25	93.77	88.96	89.54	89.25	85.58	54.35	7.17	12.67	82.2	40.04	44.44	42.04
		2	95.53	88.66	94.94	91.69	93.39	81.29	95.45	87.8	86.21	59.75	16.77	26.2				
hfl/chinese-roberta-wwm-ext	texts	1	84.34	75.4	58.8	66.07	83.39	71.34	58.82	64.51	83.12	40.9	35.31	37.9	82.2	40.04	44.44	42.04
		2	88.02	88.12	61.99	72.78	81.69	75.78	49.31	59.75	85.43	50.1	32.61	39.5				
	titles	1	96.93	93.43	94.8	94.11	96.6	94.36	93.05	93.7	85.62	56.06	6.56	11.75	82.2	40.04	44.44	42.04
		2	98.66	97.83	97	97.41	96.41	94.11	92.08	93.09	85.72	64.28	4.87	9.05				
	texts+titles	1	97.19	95.13	93.93	94.55	95.28	95.96	85.61	90.49	85.98	69.59	6.96	12.66	82.2	40.04	44.44	42.04
		2	97.02	92.55	96.22	94.35	96.22	92.05	94.55	93.28	85.62	54.43	8.72	15.04				

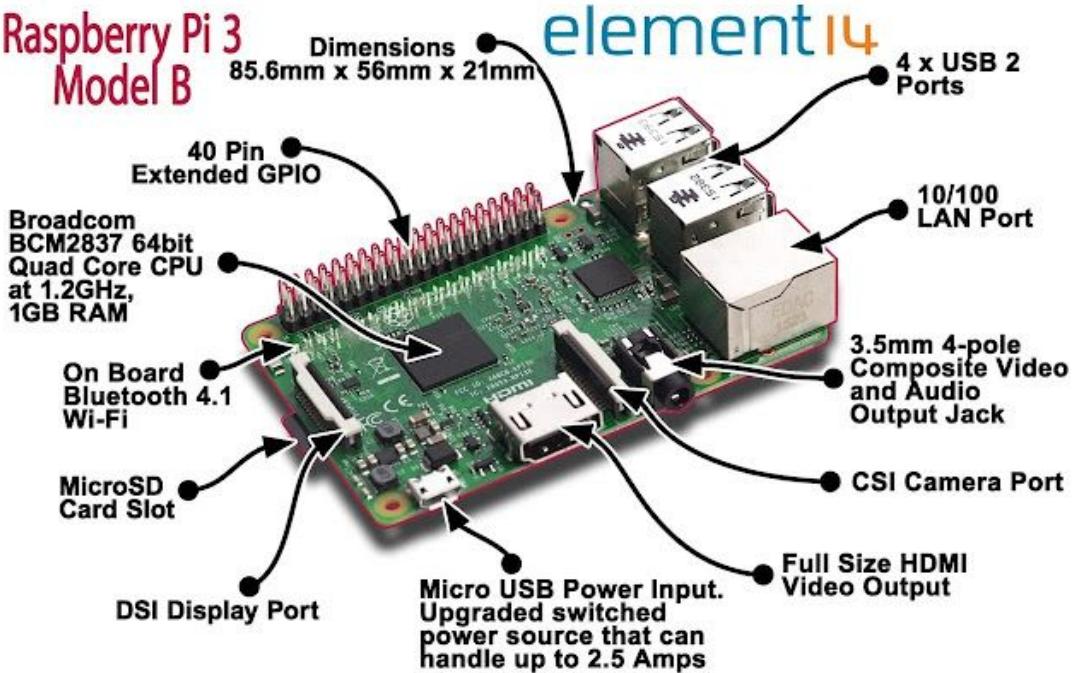
English

model_type	trained on	epochs	train					valid					test					
			accuracy	precision	recall	f1												
bert_base_uncased	titles	1	96.67	94.76	97.68	96.2	95.4	92.85	97.01	94.89	95.29	92.76	96.9	94.78	95.57	95.26	94.67	94.96
		2	96.64	95.61	96.71	95.15	95.84	93.42	96.85	95.1	95.57	95.26	94.67	94.96				
bert_large_uncased	titles	1	90.22	81.86	99.67	89.89	90.37	81.77	99.48	89.76	90.48	81.66	99.73	89.8	91.36	91.54	89.1	90.3
		2	92.04	92.06	89.24	90.62	91.63	90.95	89.69	90.32	91.36	91.54	89.1	90.3				



Raspberry Pi
+
Motor
+
python

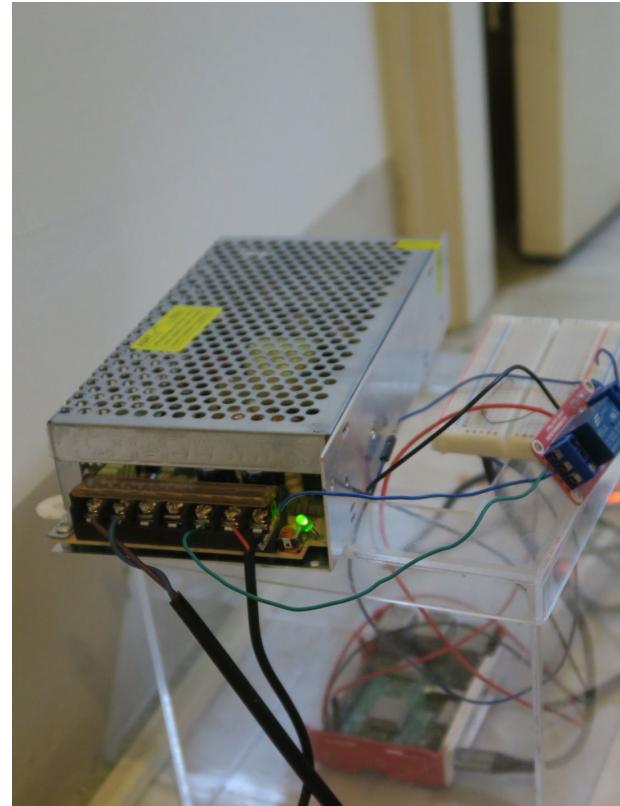
Technique

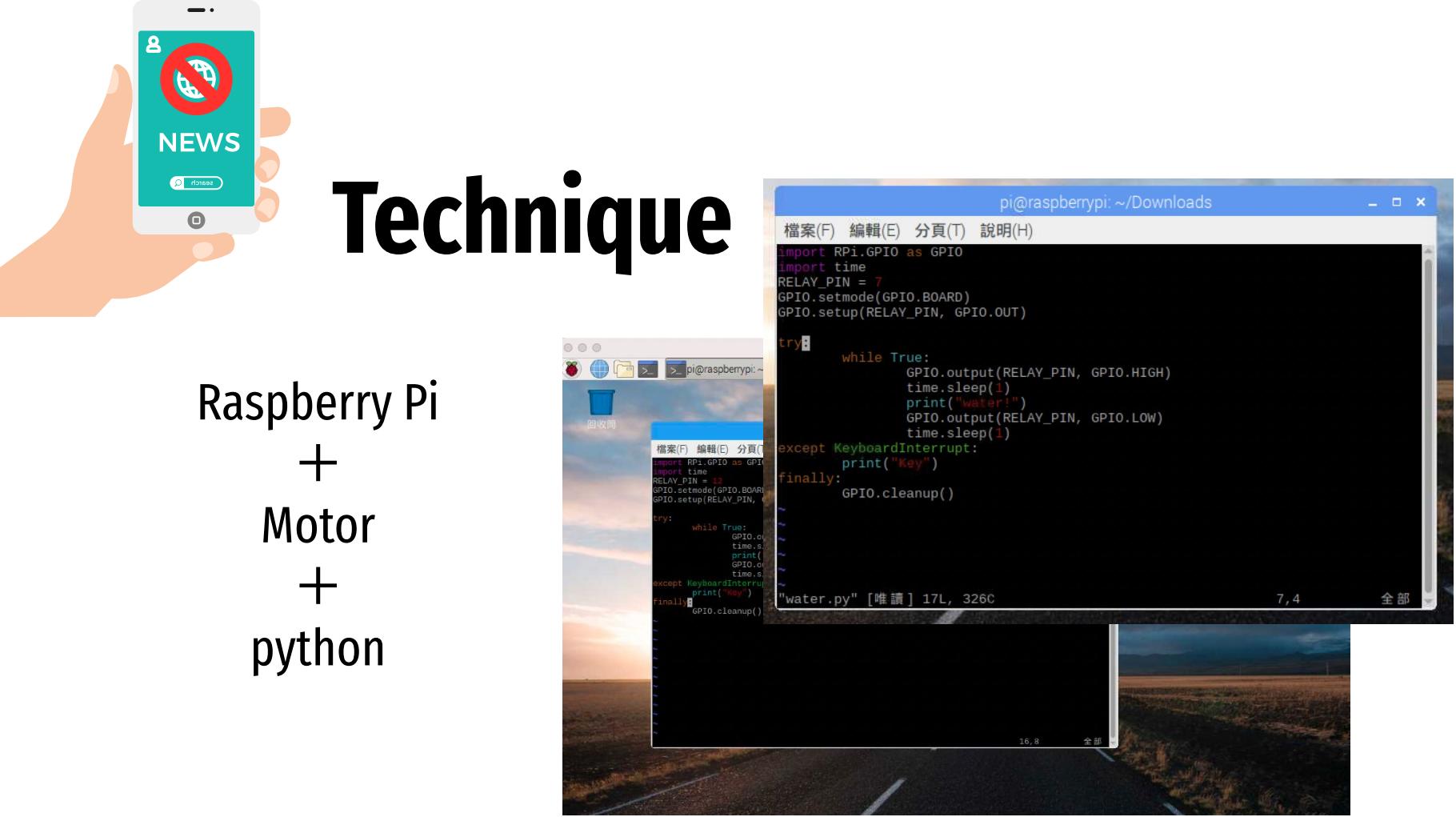




Technique

Raspberry Pi
+
Motor
+
python







Raspberry Pi
+
Motor
+
python

Technique





Result

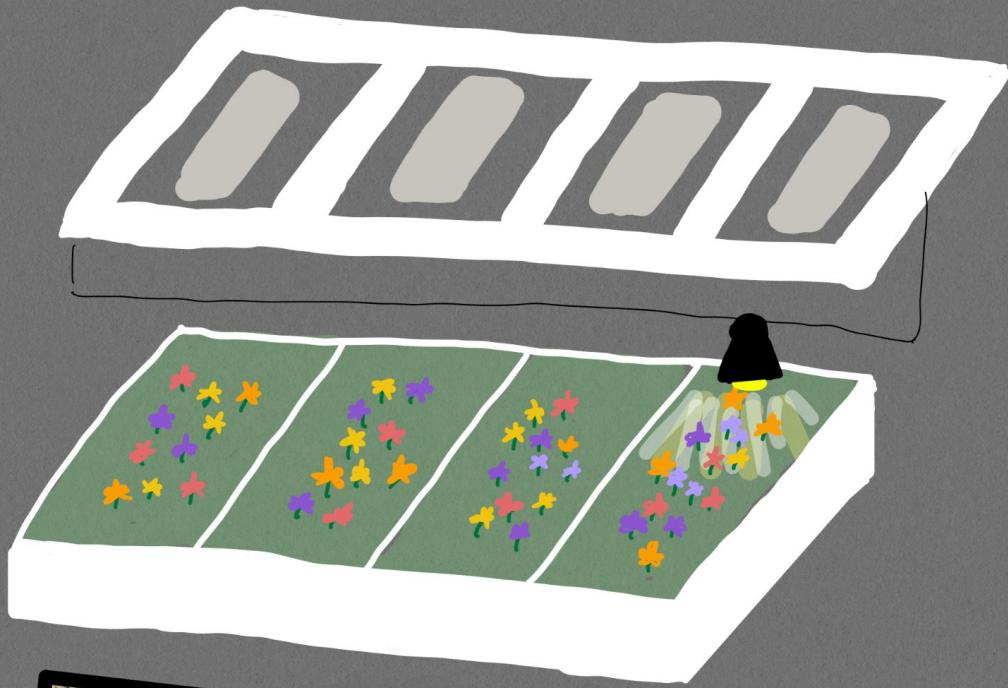




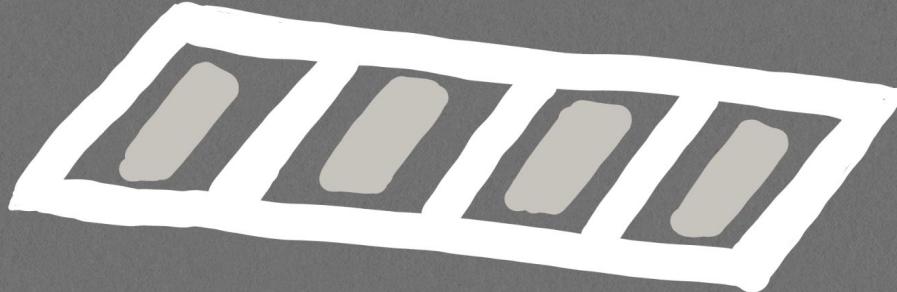
Future Work



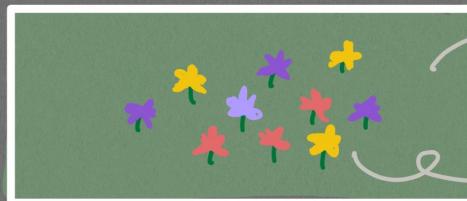
Overview



Specification

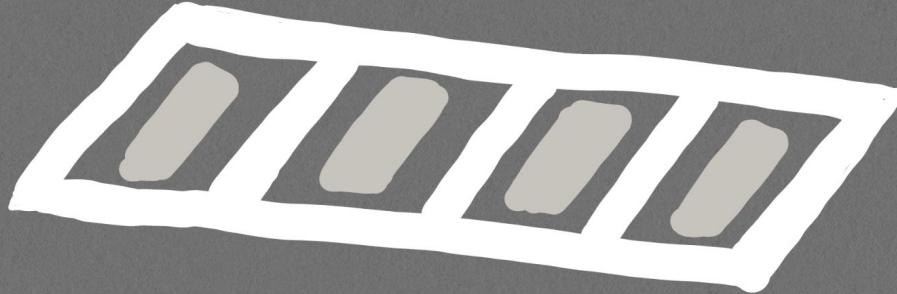


「花園」
選擇更多的地方新聞分析、呈現



草或者
當地代表的
自製
又
雙
花

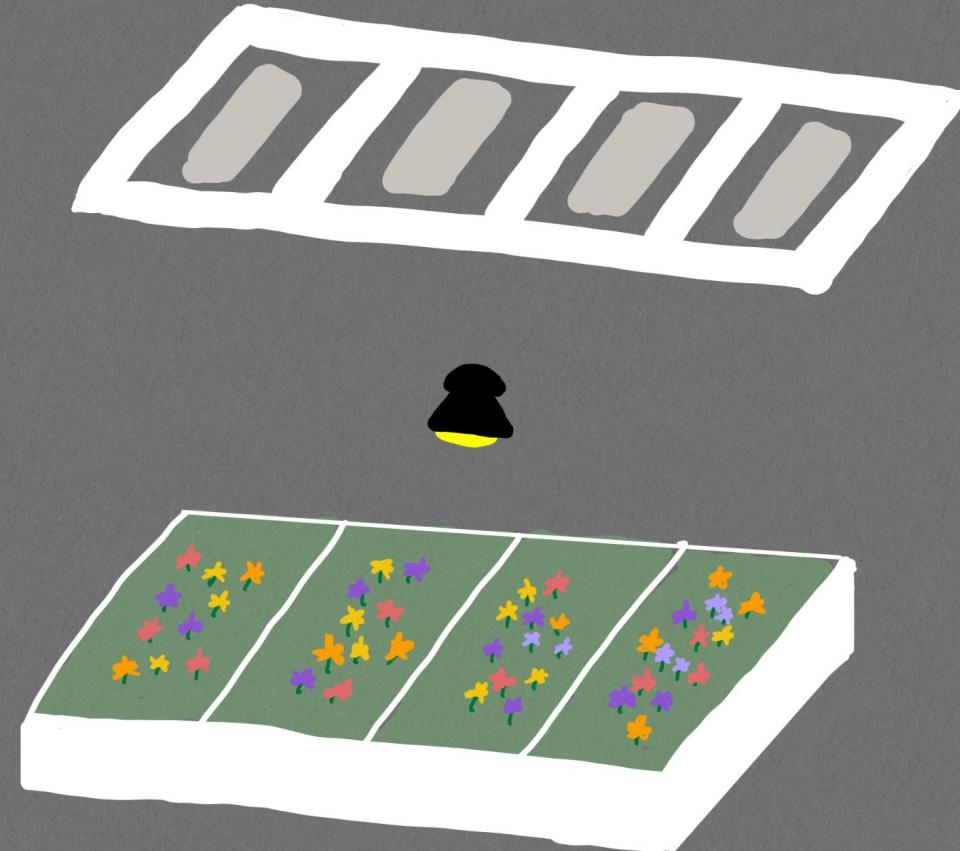
Specification



「燈」
會隨著不同地區的是升日落決定位置



Specification



「灑水系統」
對花和草分別澆灌。
花 -> Real News
草 -> Fake News

Overview



「報紙」
每天產生一份由前一天假新聞所編寫的報紙



Connections



Over 100,000 people
y más de 100,000



Connections

當代館—魚菜共生

策展人—高千惠

藝術家—蔡音璟

MoCA
TAIPEI

2021
05.15 Sat.
08.22 Sun.

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蔡胤勤 Tsai Yin-Chin

藝術家 Artists
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徐薇蕙 Wei-Hui Hsu | 溫馨 Wen Hsin | 曾吳 Wu Tsang | 西亞蝶 Xi Ya Die | 余政達 Yu Cheng-Ta





Connections - Thoughts

命名也是藝術創作中很重要的一環。它不但能夠幫助觀眾了解作品的內涵，更可以賦予作品更深層次的意義和解讀。我們的作品中文名稱從最一開始的「蔓言」到後面的「漫漫·蔓延」再到現在的「慢漫 · 謾莖」，中間經過好幾次的討論和修正。

這其中，「謔」為「謔罵」之意，象徵著假新聞時常具備的攻擊性；「莖」為「言」的破音字，為植物蔓延之意。我們希望藉由命名能夠使作品更加豐富，但就像天下所有的藝術作品一樣，解釋作品的不僅僅是作者，同時也有觀眾。



Reference

Date	PTT	Reddit	Weibo
12.23	0/34	100/0	1/37
12.24	0/34	100/0	1/73
12.25	18/1416	100/0	1/73
12.26	18/1416	100/0	0/48
12.27	13/1238	100/0	0/52
12.28	9/1236	100/0	2/64

Real/Fake



Thank You



#For Public Info about #CoronaVirus

#Good news, Wuhan's corona virus can be cured by one bowl of freshly boiled garlic water.

Old Chinese doctor has proven it's efficacy. Many patients has also proven this to be effective. Eight (8) cloves of chopped garlics add seven (7)cups of water and bring to boil., Eat and drink the boiled garlic water, overnight improvement and healing.

Above all else, PRAY!#share please! #More



...



Fake News

The Onion is a satirical news website and newspaper that parodies mainstream media. This image shows a satirical front page from March 14, 2013, headlined "231 AGENTS DEAD IN CIA'S OVERT OPS PROGRAM". The article discusses the CIA's Overt Ops program, which was allegedly responsible for the deaths of 231 agents during a sensitive operation in Turkmenistan. The page includes various columns like National, Business, and Highlights, along with weather information and a copyright notice.

INSIDE

NATIONAL
Sitcom Character Turns On Bedside Lamp Before Answering Phone Page 47

BUSINESS
Executive Begins, Ends Every Sentence With 'Going Forward' Page 10

HIGHLIGHTS

AMERICA'S FINEST NEWS SOURCE • ONION.COM

WEATHER Page C2

Clouds LOW 30 HIGH 34

Copyright © 2013 Onion, Inc. All Rights Reserved | MN

WASHINGTON—The CIA has announced that 231 agents were killed Wednesday during a sensitive and highly overt operation overseas, the deadliest incident to strike the agency's Overt Ops program in nearly a month.

Speaking in a televised press conference this morning, acting CIA director Michael Morell said the agents were shot dead while attempting to infiltrate the government of Turkmenistan.

End of the slide



Fake News Infographics

Here is where this template begins

Fake news infographics

Venus

Venus is terribly hot, even hotter than Mercury

Mercury

Mercury is the smallest planet in the Solar System

Earth

Earth is the third planet and is where we all live on

Fake news



Fake news infographics

1



Mercury

Mercury is the closest planet to the Sun and the smallest one

2



Saturn

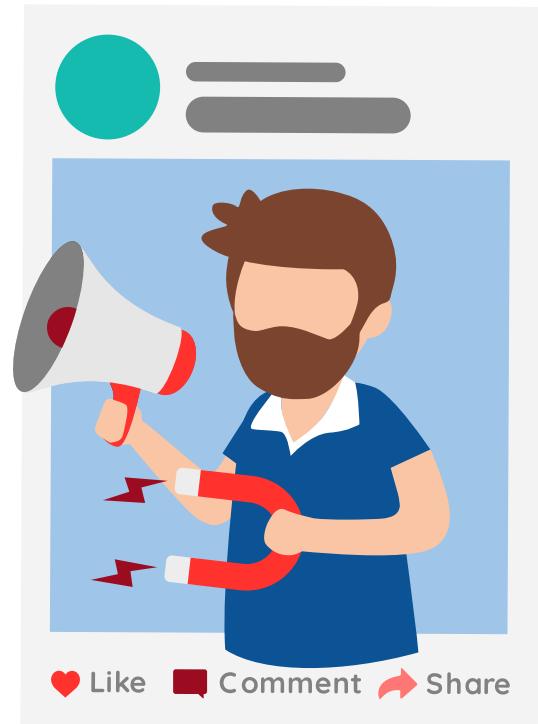
It was named after the Roman god of wealth and agriculture

3



Jupiter

Jupiter is a gas giant and the biggest planet in the Solar System



Fake news infographics



Fake news in tv channels

Channel	Fake news %	Summary
Channel 1	5%	Saturn is a gas giant and has several rings
Channel 2	22%	Venus is terribly hot, even hotter than Mercury
Channel 3	19%	Jupiter is the biggest planet of them all
Channel 4	12%	Earth is the third planet and is where we live on

Fake news infographics

How to spot fake news



Ask the experts

Venus has a beautiful name and is the second planet from the Sun

1



Check the autor

Mercury is the closest planet to the Sun and the smallest one

2



Read beyond

Despite being red, Mars is actually a cold place full of iron oxide dust

3



Check the date

Earth is the third planet from the Sun and the only one that harbors life

4

Fake news infographics

Mercury

Mercury is the smallest planet in the Solar System

Saturn

Saturn is a gas giant and has several rings

Jupiter

Jupiter is the biggest planet in the Solar System

Venus

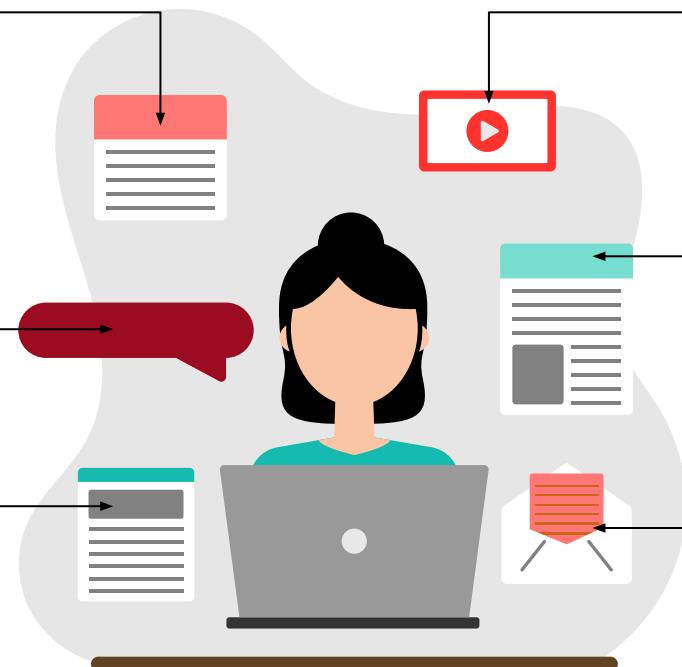
Venus is terribly hot, even hotter than Mercury

Mars

Despite being red, Mars is actually a cold place

Earth

Earth is the third planet and is where we all live on



Fake news infographics

Venus

Venus has a beautiful name and is the second planet from the Sun



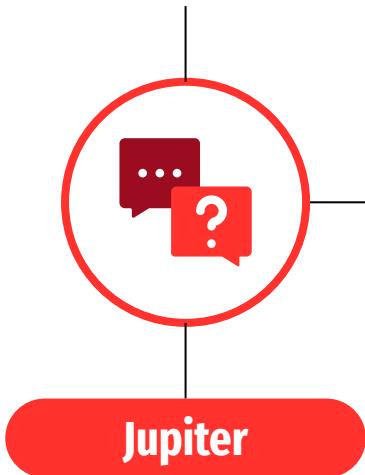
Mars

Despite being red, Mars is actually a cold place full of iron oxide dust

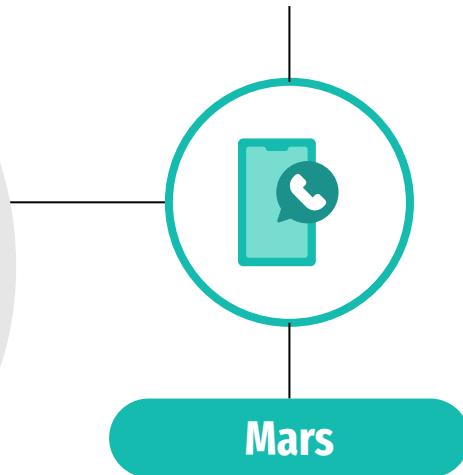


Fake news infographics

Jupiter is a gas giant and the biggest planet in the Solar System



Despite being red, Mars is actually a cold place full of iron oxide dust



Fake news infographics

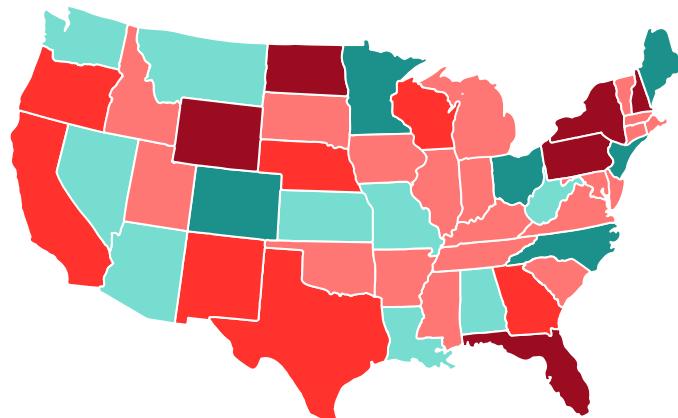
Veracity in US news

0-10%

Mercury is the smallest planet in the Solar System

30-50%

Jupiter is the biggest planet in the Solar System



10-30%

Despite being red, Mars is a very cold place

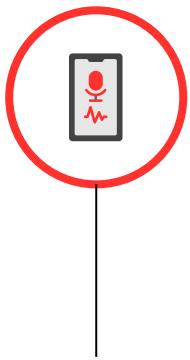
50-70%

Earth is the third planet and is where we all live on

70-90%

Saturn is a gas giant and has several rings

Fake news infographics



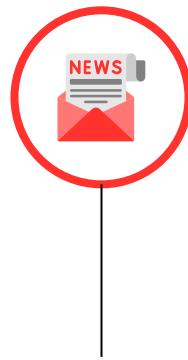
**Via
message**

Saturn has
several rings



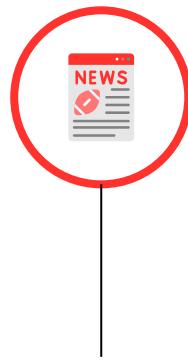
**Via
live TV**

Jupiter is the
biggest planet



**Via
newsletter**

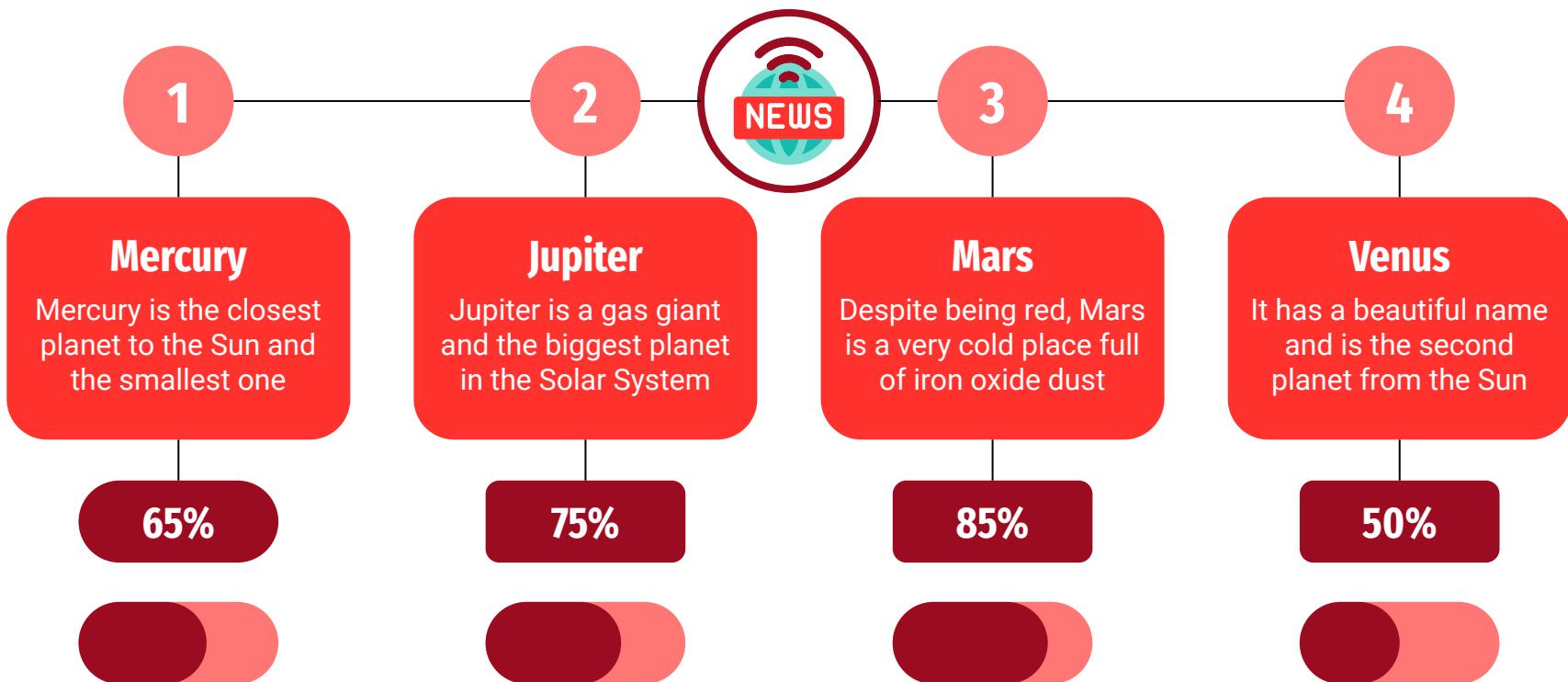
Venus is hotter
than Mercury



**Via
web page**

Mars is actually
a cold place

Fake news infographics



Fake news infographics

Anyone can make up a story and go viral

1

Saturn

Saturn is a gas giant and has several rings



2

Jupiter

Jupiter is the biggest planet in the Solar System



3

Venus

Venus is terribly hot, even hotter than Mercury



Earth is the planet we all live on

Mercury is the smallest planet

Fake news infographics

Earth

Earth is the amazing planet where we all live

Mercury

Mercury is the smallest planet in the Solar System

Mars

Despite being red, Mars is actually a cold place

Venus

Venus is terribly hot, even hotter than Mercury

Jupiter

Jupiter is the biggest planet in the Solar System

Saturn

Saturn is a gas giant and has several rings



Fake news infographics

15%

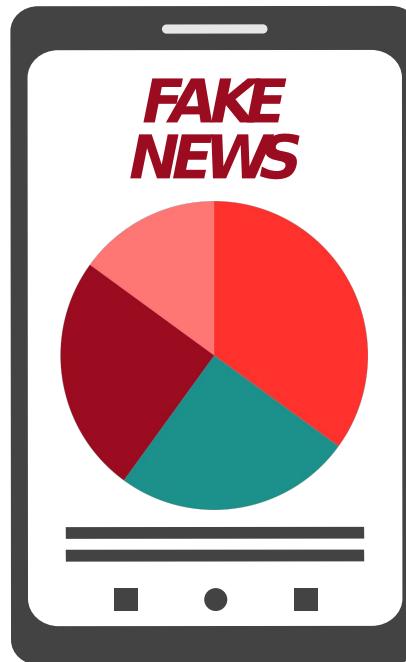
Jupiter

Jupiter is the biggest planet in the Solar System

25%

Earth

Earth is the third planet and is where we all live on



Despite being red, Mars is actually a cold place

Mars

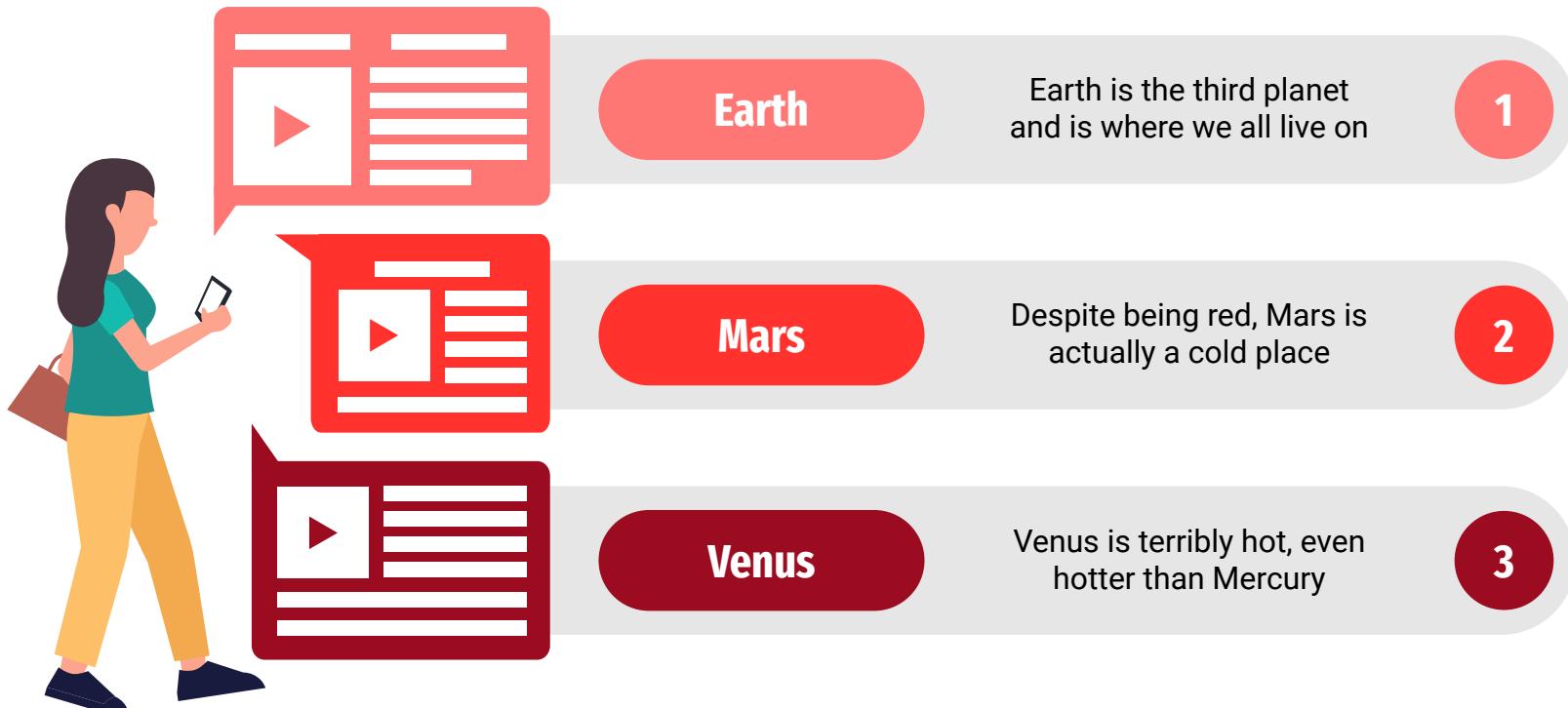
35%

Mercury
Mercury is the smallest planet in the Solar System

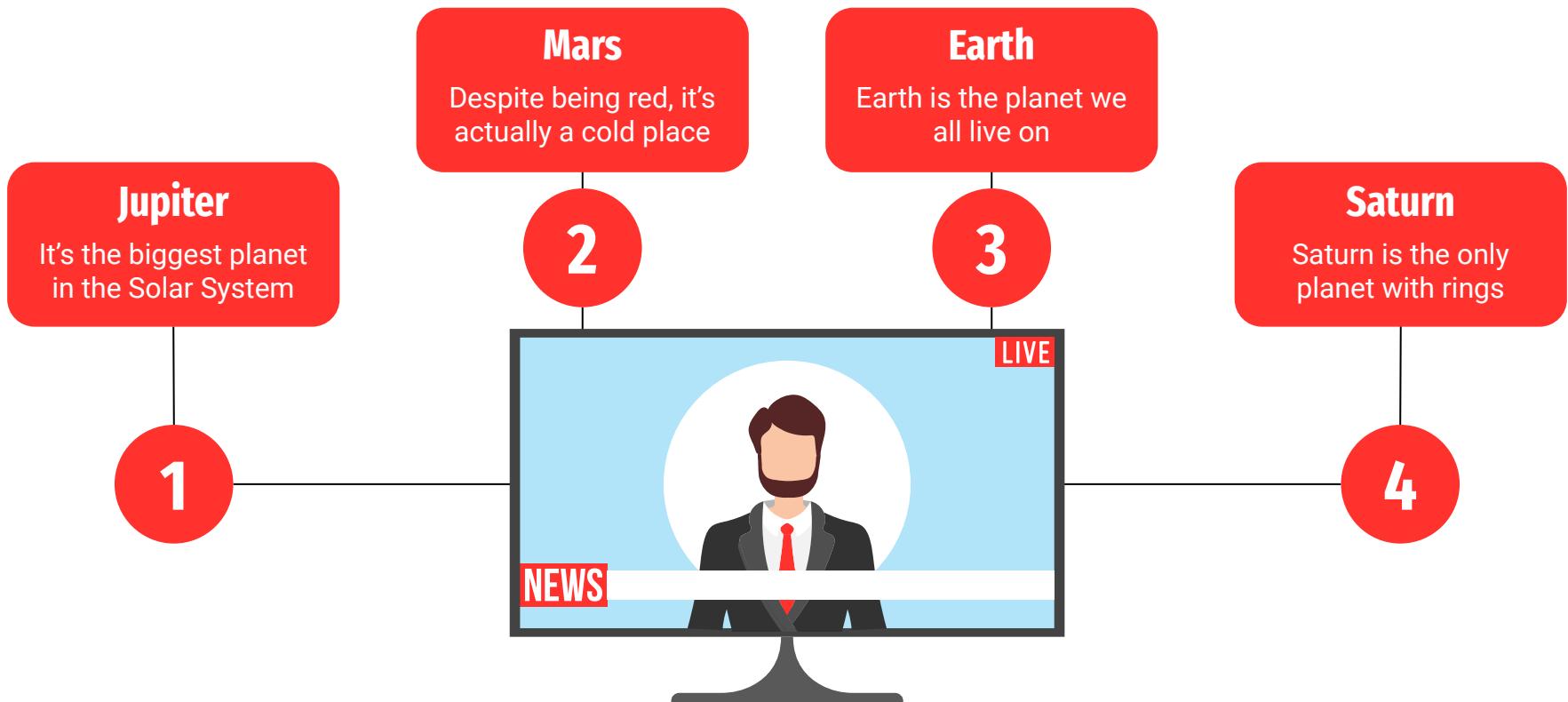
25%

Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

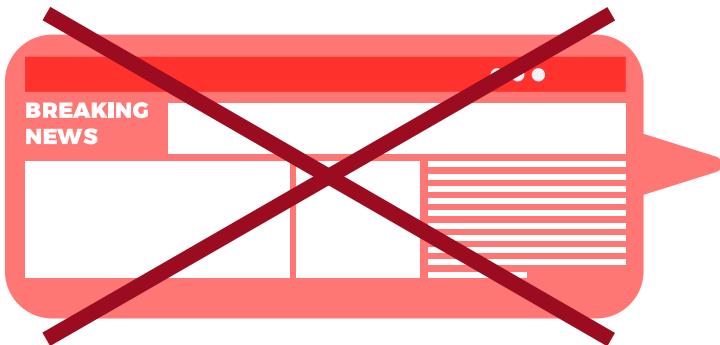
Fake news infographics



Fake news infographics



Fake news infographics



Venus

Venus is terribly hot, even hotter than Mercury

Mercury

It's the closest planet from the Sun and the smallest one

Jupiter

It's a gas giant and the biggest planet in the Solar System

Mars

Despite being red, it's a cold place full of iron oxide dust

Earth

Earth is the only planet that harbors life of them all

Fake news infographics

Fake news via email

Jupiter

Jupiter is the biggest planet

30%

Mercury

Mercury is the smallest planet

20%

Mars

Despite being red, Mars is cold

30%

Earth

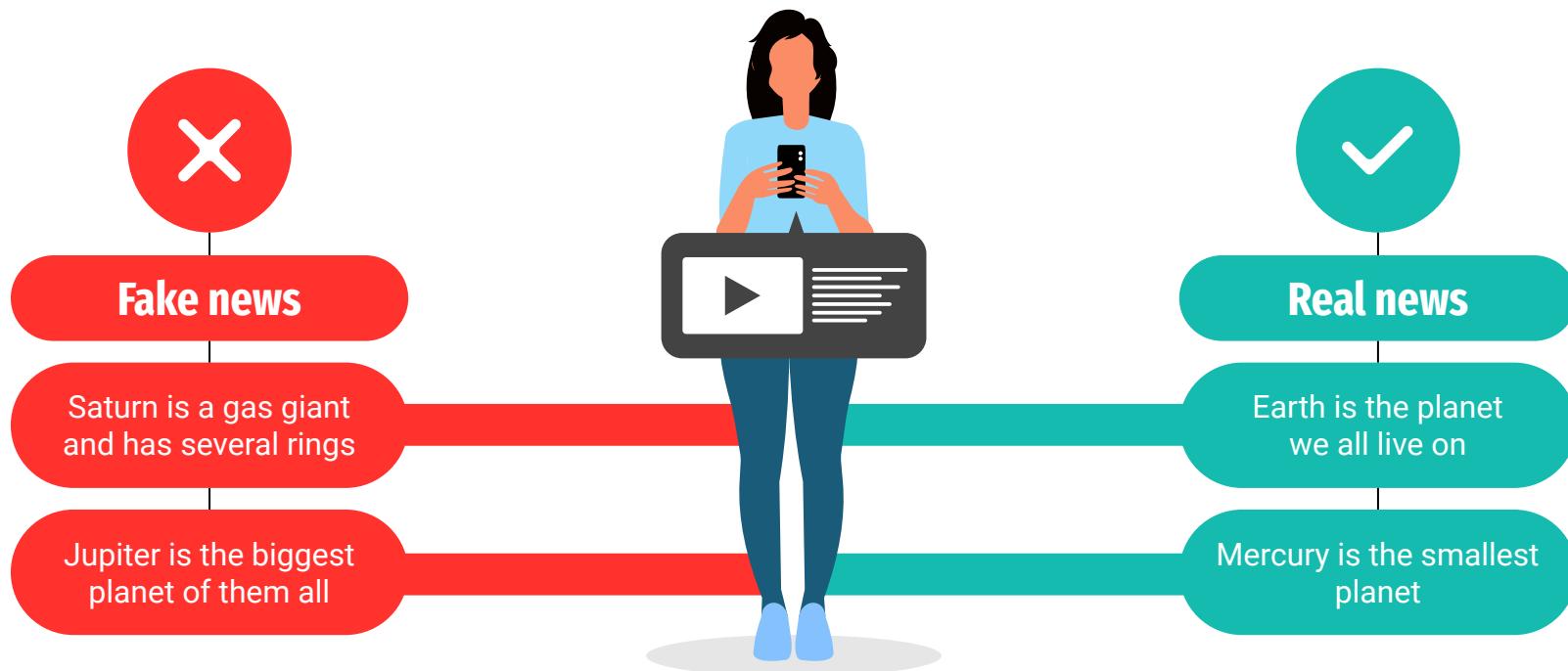
Earth is the planet we live on

20%



Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

Fake news infographics



Fake news infographics

Why people create fake news



1

Earn money

Venus is hotter than Mercury



2

Get influence

Earth is where we all live on



3

Spread fear

Mars is actually a cold place



4

Incite hatred

Jupiter is the biggest planet



Fake news infographics

It's the smallest planet in the Solar System

Despite being red, it's actually a cold place

Mercury

Mars

Earth

Venus

Venus is terribly hot, even hotter than Mercury

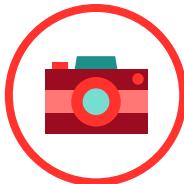
Earth is the planet we all live on



Fake news infographics

Earth

Earth is the planet we all live on



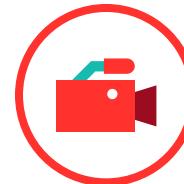
Mars

Despite being red, it's actually a cold place



Jupiter

It's the biggest planet in the Solar System



Saturn

Saturn is a gas giant and has several rings

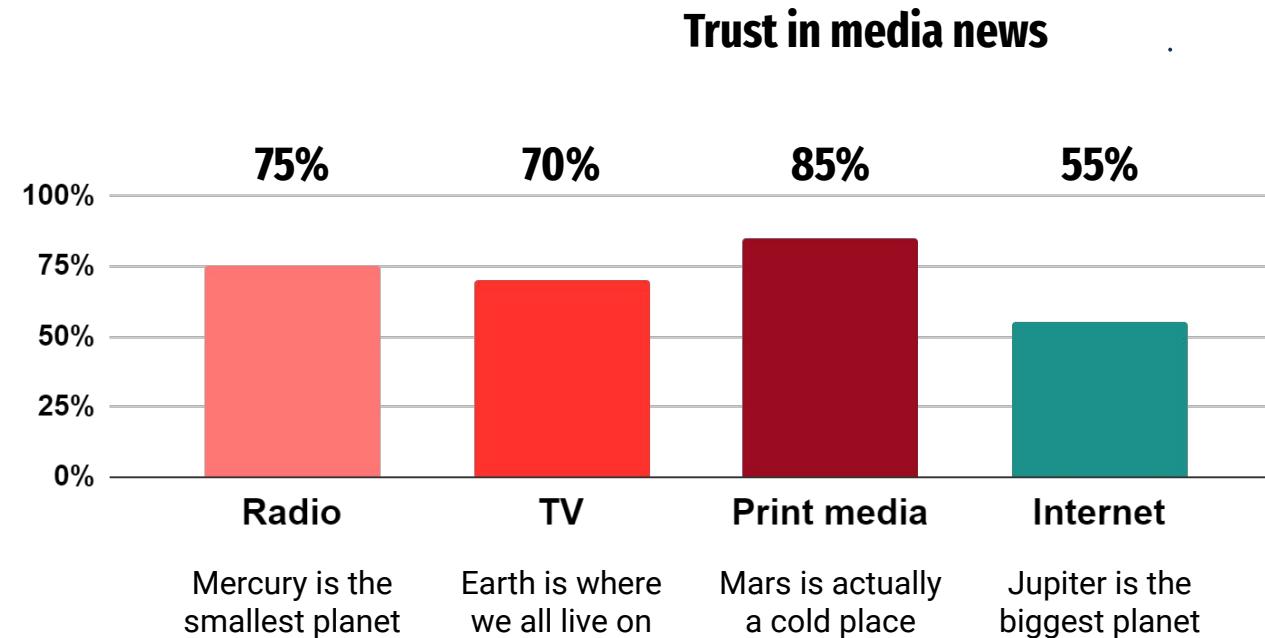


Venus

It's terribly hot, even hotter than Mercury



Fake news infographics



Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

Fake news infographics

Saturn

Saturn has several rings

1

Jupiter

Jupiter is the biggest planet

2



Mars

It's actually a cold place

3



Mercury

Mercury is the smallest planet

4

Venus

Venus is hotter than Mercury

6

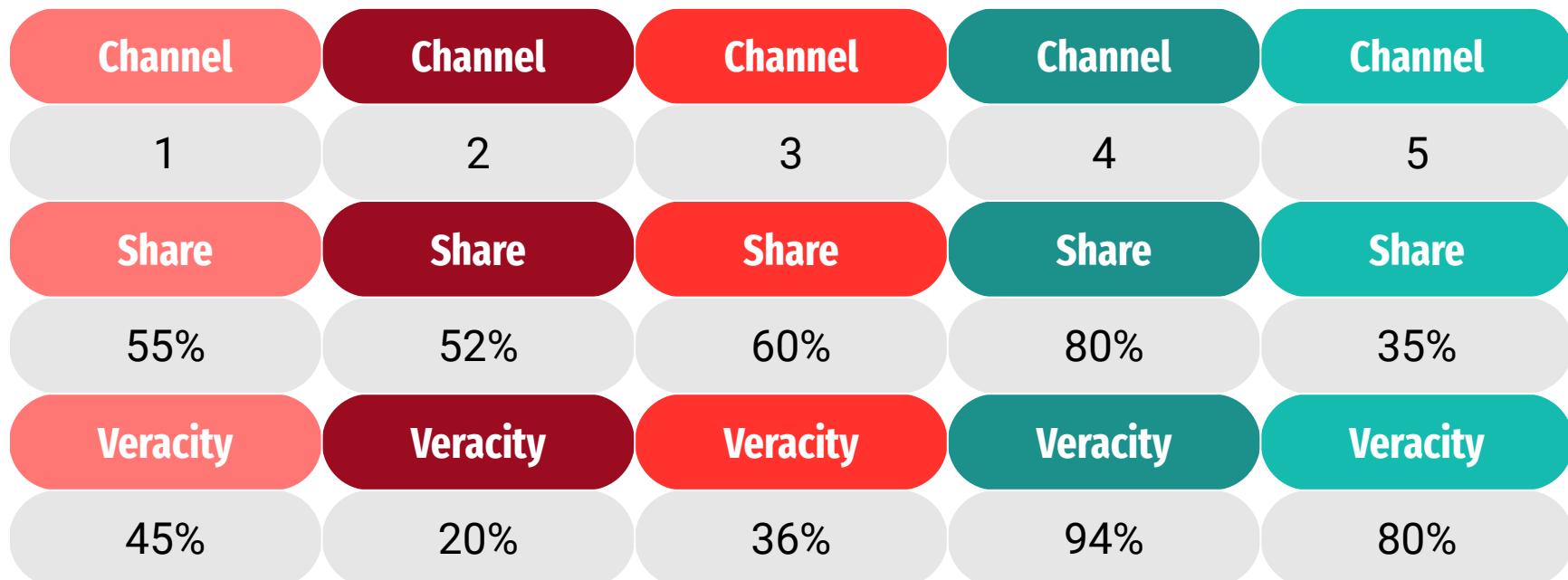
Earth

Earth is where we all live on

5

Fake news infographics

Veracity of TV news



Fake news infographics

Earth is the third planet and
is where we live on

Earth

1

Venus is terribly hot, even
hotter than Mercury

Venus

2

Jupiter is the biggest planet
in the Solar System

Jupiter

3

Mercury is the smallest
planet in the Solar System

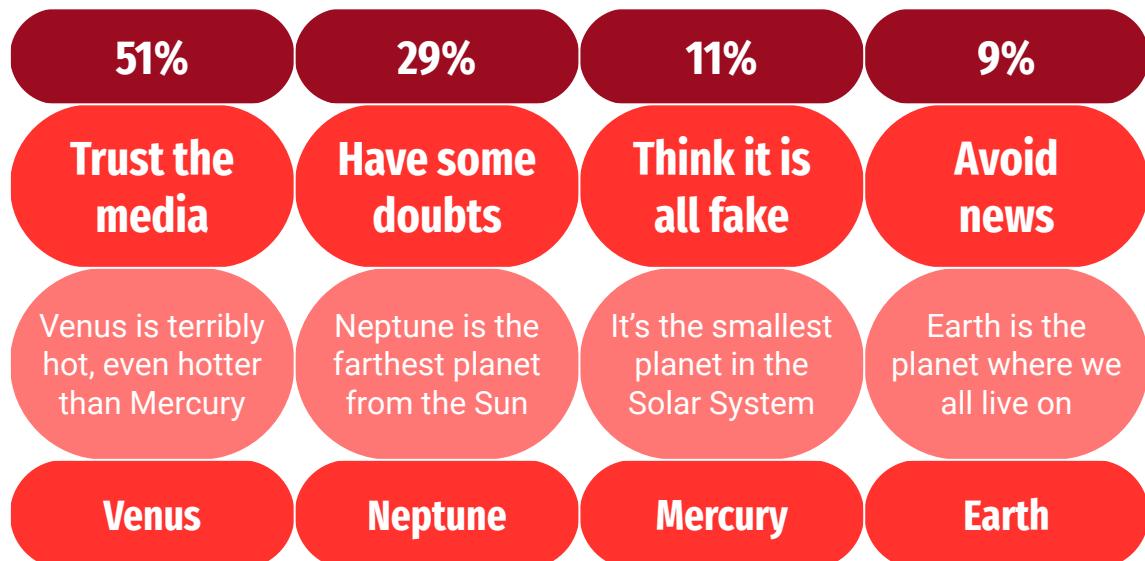
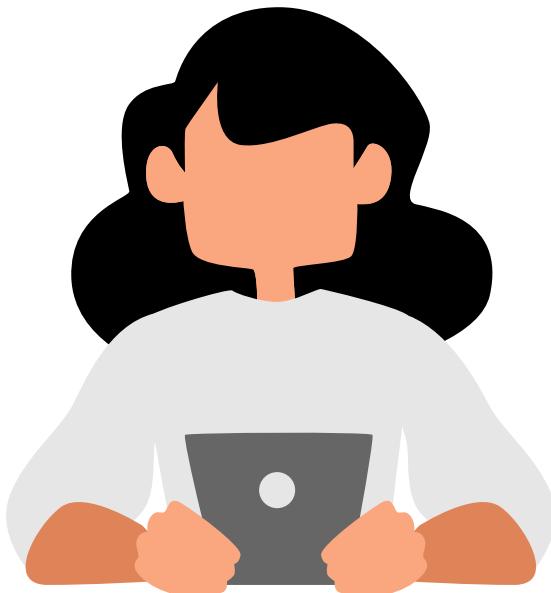
Mercury

4



Fake news infographics

Impact of fake news in the society



Fake news infographics

Mercury

Mercury is the smallest planet in the Solar System

Venus

Venus is terribly hot, even hotter than Mercury

Mars

Despite being red, Mars is actually a cold place

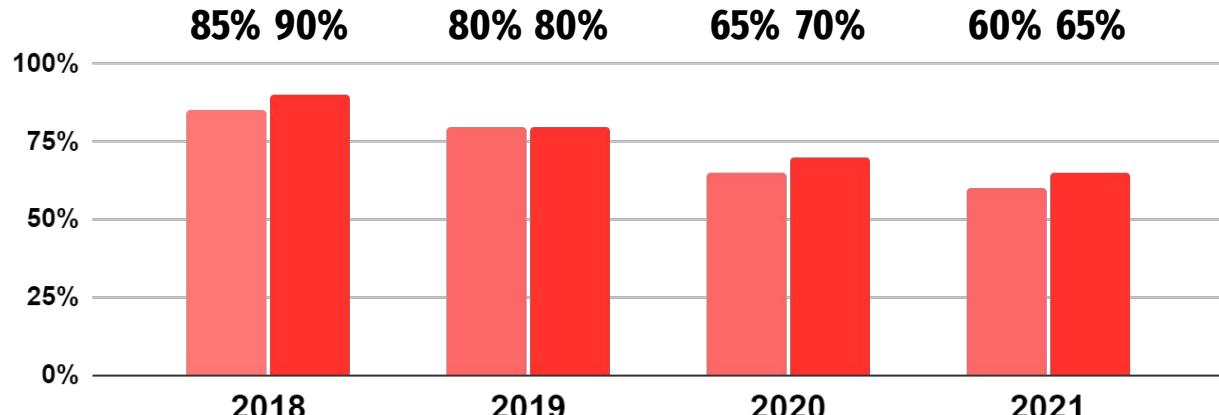
Jupiter

Jupiter is the biggest planet in the Solar System



Fake news infographics

Veracity in media during the last years



Online media

Despite being red, Mars is
actually a cold place

Traditional media

Mercury is the smallest
planet in the Solar System

Fake news infographics



Jupiter

Jupiter is a gas giant and the biggest planet

Earth

Earth is the beautiful planet where we all live

Mercury

Mercury is the closest planet to the Sun

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