

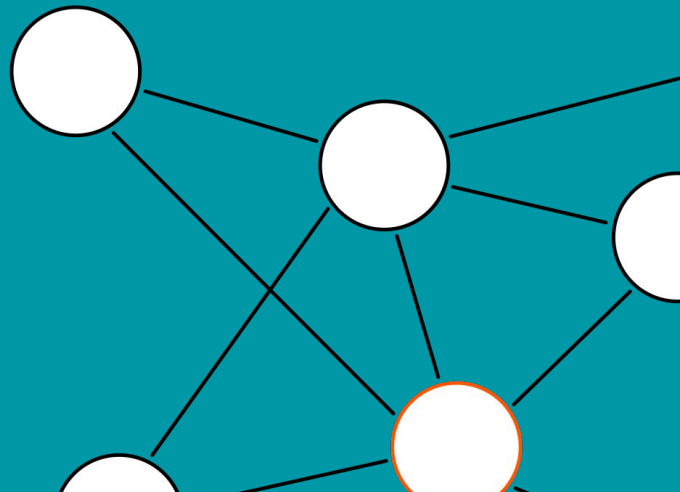
3rd Sprint Review - data

Spencer Rhoden & Jacob Sampley



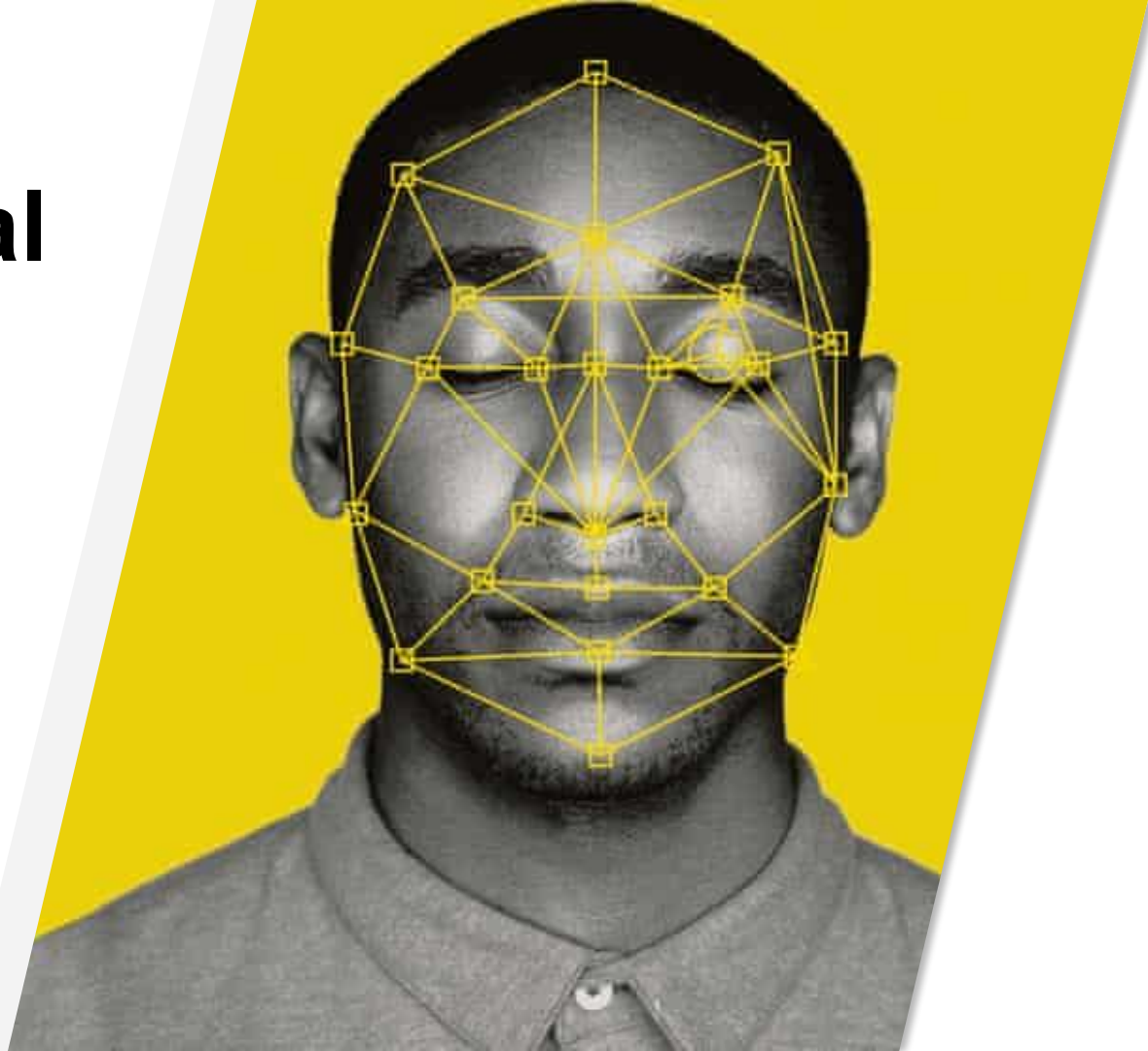
Goals for this Sprint Review

- Set regular meeting times
- Dive into the literature and resources available
- Develop a way to read in data sets, test our code, and generate results
- Conduct our tests and present the data



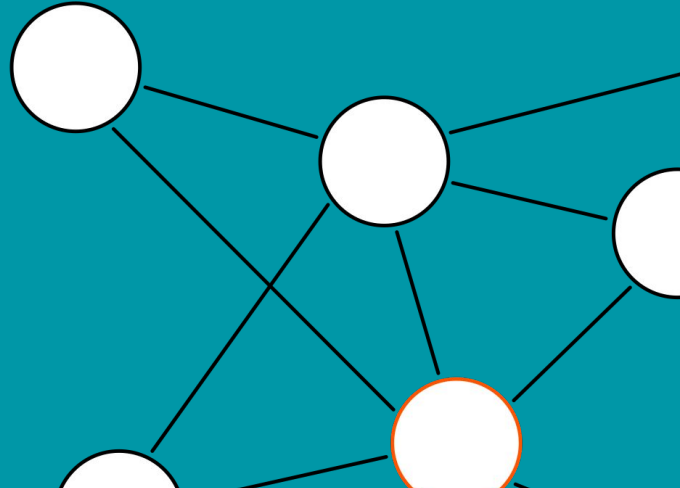
Research Goal

Understand the processes, software, and hardware needed to implement facial recognition, as well as the potential benefits and challenges it poses to society

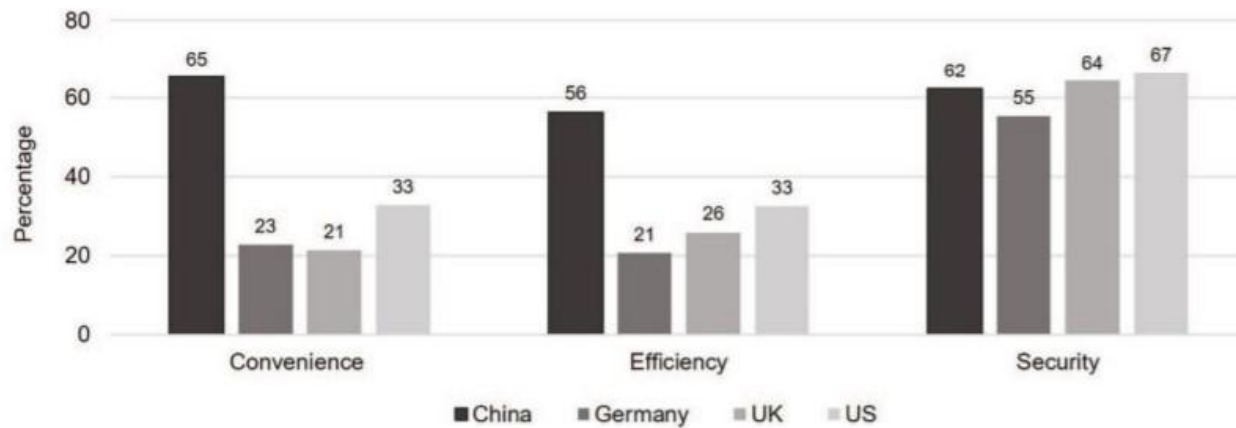


What we found

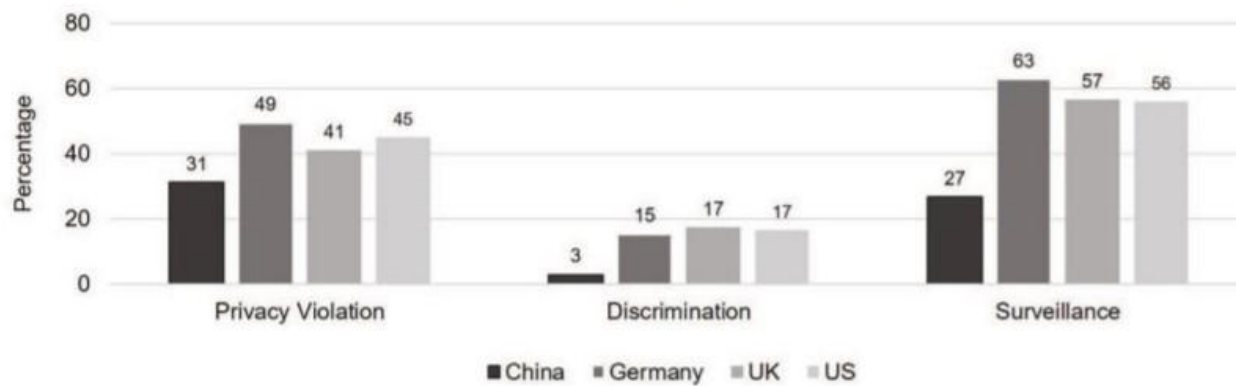
- Facial Recognition is difficult to implement
- Privacy Issues
- Acceptance
- Prevalence



Perceived Benefits



Perceived Risks

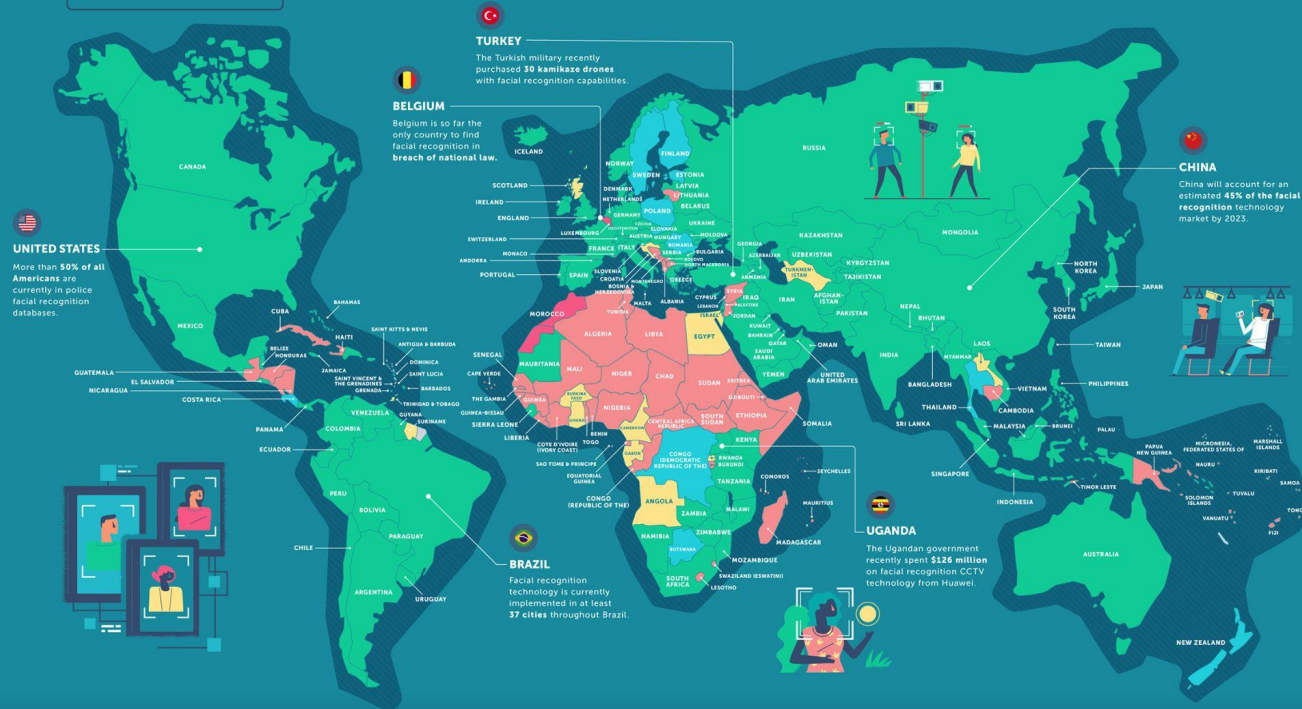


SMILE, YOU'RE ON CAMERA

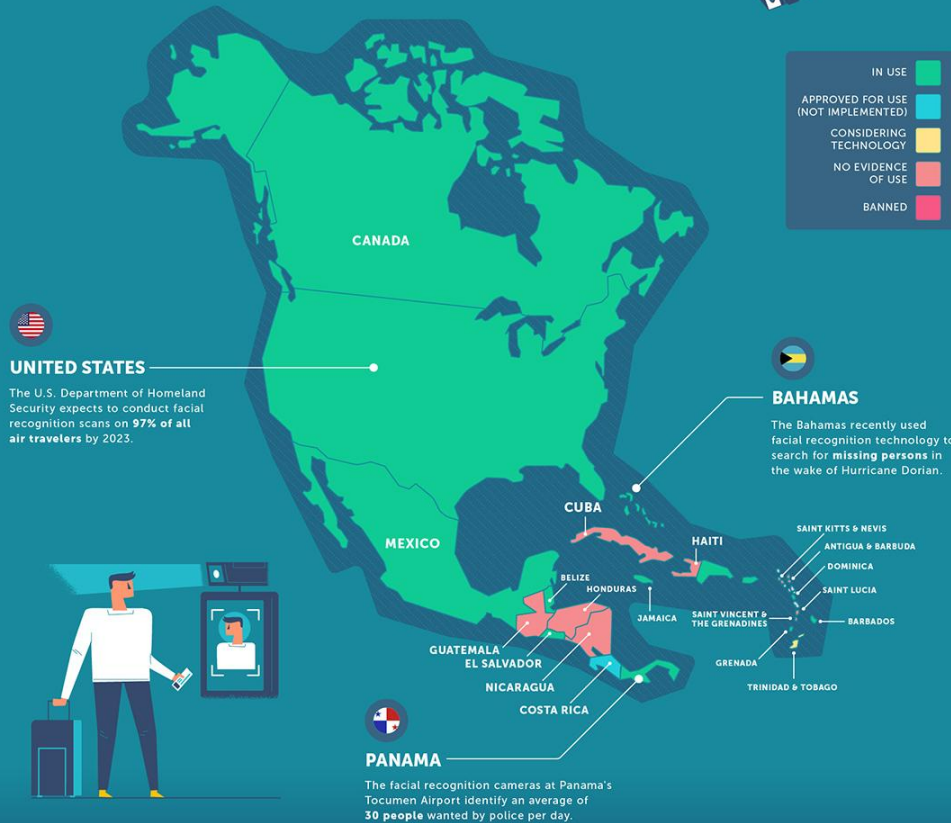
THE FACIAL RECOGNITION WORLD MAP



IN USE
APPROVED FOR USE
(NOT IMPLEMENTED)
CONSIDERING
TECHNOLOGY
NO EVIDENCE
OF USE
BANNED

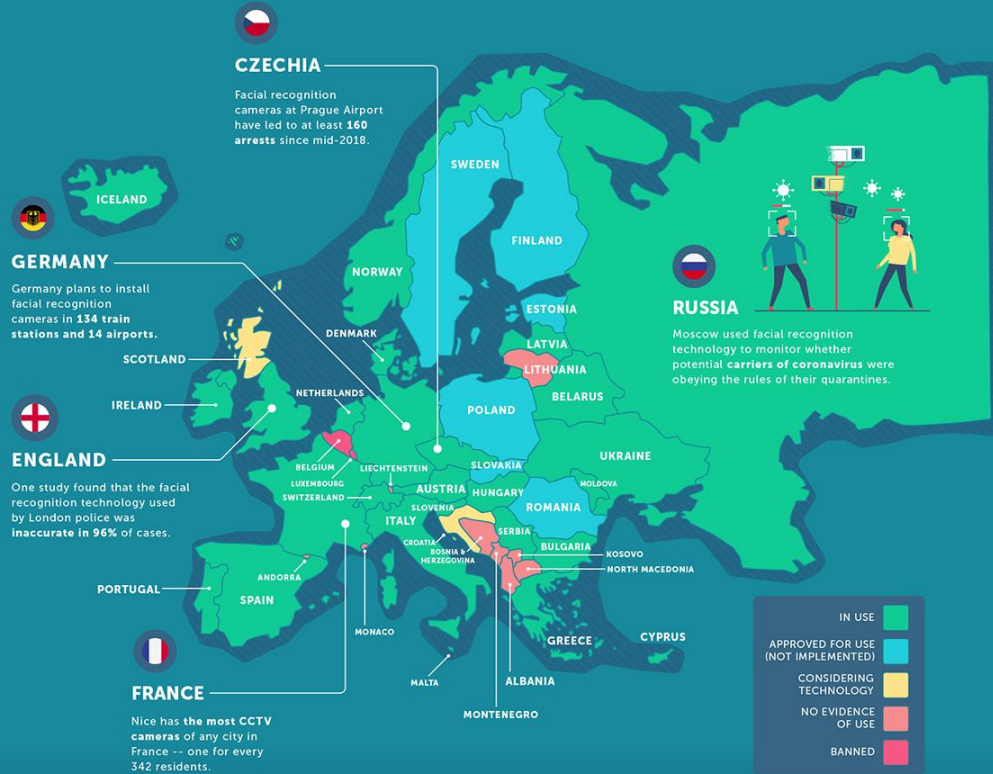


THE FACIAL RECOGNITION MAP OF NORTH AMERICA



THE FACIAL RECOGNITION

MAP OF EUROPE



THE FACIAL RECOGNITION

MAP OF EAST ASIA & OCEANIA



CHINA

China has about **170 million CCTV surveillance cameras** installed throughout the country -- approximately one for every 12 citizens.



MACAU

Approximately **2 in every 3 casino operators** in Macau are currently using or testing facial recognition technology.



AUSTRALIA

Australia has proposed using facial recognition technology to verify the ages of people seeking to watch pornography online.



IN USE	Green
APPROVED FOR USE (NOT IMPLEMENTED)	Light Blue
CONSIDERING TECHNOLOGY	Yellow
NO EVIDENCE OF USE	Light Orange
BANNED	Red



JAPAN

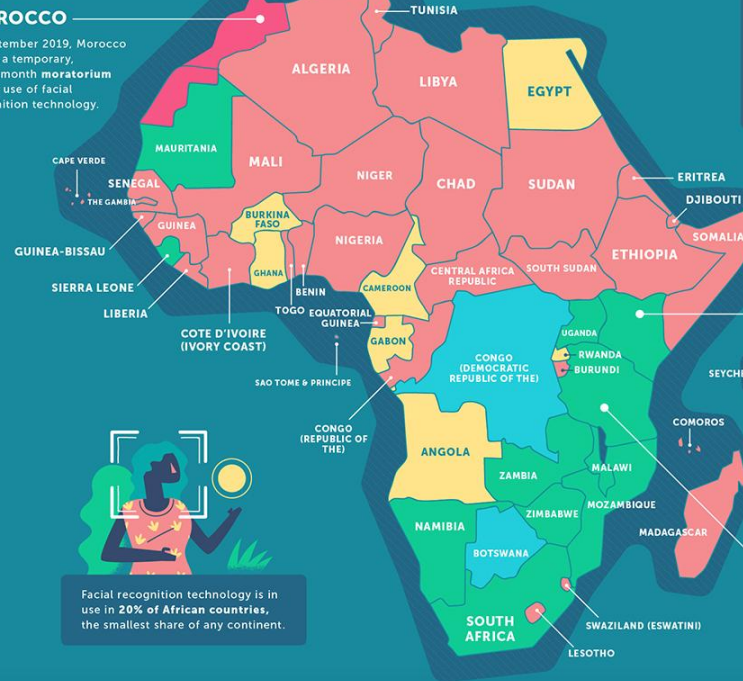
Stores using facial recognition cameras in Japan experienced a **40% decrease** in shoplifting incidents compared to stores without the technology.

THE FACIAL RECOGNITION MAP OF AFRICA



MOROCCO

In September 2019, Morocco issued a temporary, seven-month moratorium on the use of facial recognition technology.



KENYA

According to Huawei, surveillance cameras installed in Nairobi, Kenya led to a 46% decrease in crime in 2015.



MAURITIUS

According to Huawei, surveillance cameras installed in Nairobi, Kenya led to a 46% decrease in crime in 2015.



TANZANIA

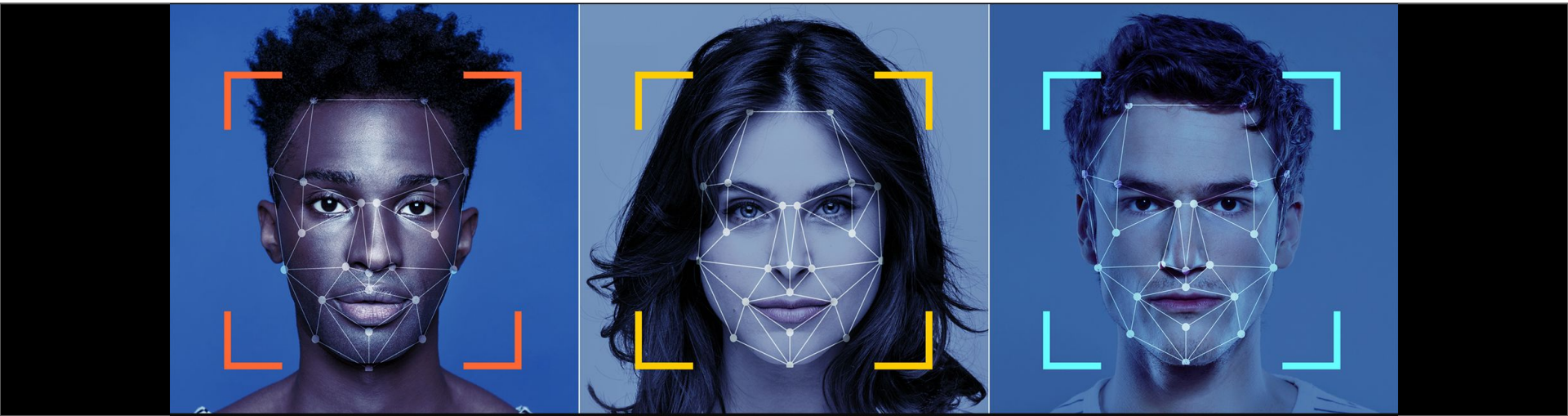
Tanzania is currently testing a facial recognition app that can help identify dogs that have been vaccinated for rabies.



Facial recognition technology is in use in 20% of African countries, the smallest share of any continent.

Goals for next Sprint Review

- Finish data collection
- Keep trying at the implementation of facial recognition
- Analyse data and discuss interpretation of data



Citations

Ghosh, Iman. “Mapped: The State of Facial Recognition Around the World.” *Visual Capitalist*, 23 May 2020, <https://www.visualcapitalist.com/facial-recognition-world-map/>.

Kostka, Genia, et al. “Between Security and Convenience: Facial Recognition Technology in the Eyes of Citizens in China, Germany, the United Kingdom, and the United States.” *Public Understanding of Science*, vol. 30, no. 6, Aug. 2021, pp. 671–690, doi:[10.1177/09636625211001555](https://doi.org/10.1177/09636625211001555).

Geitgey, Adam. “Face_recognition.” *GitHub*, 13 Feb. 2021, https://github.com/ageitgey/face_recognition/blob/master/README.md.