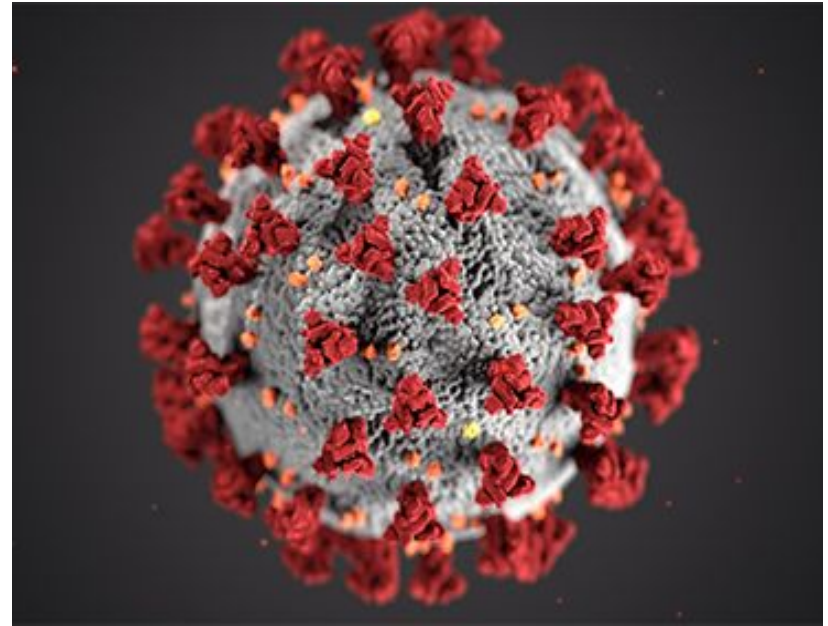
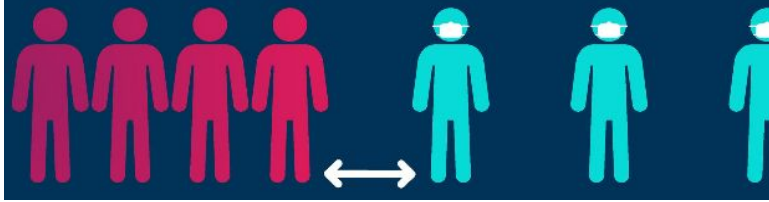




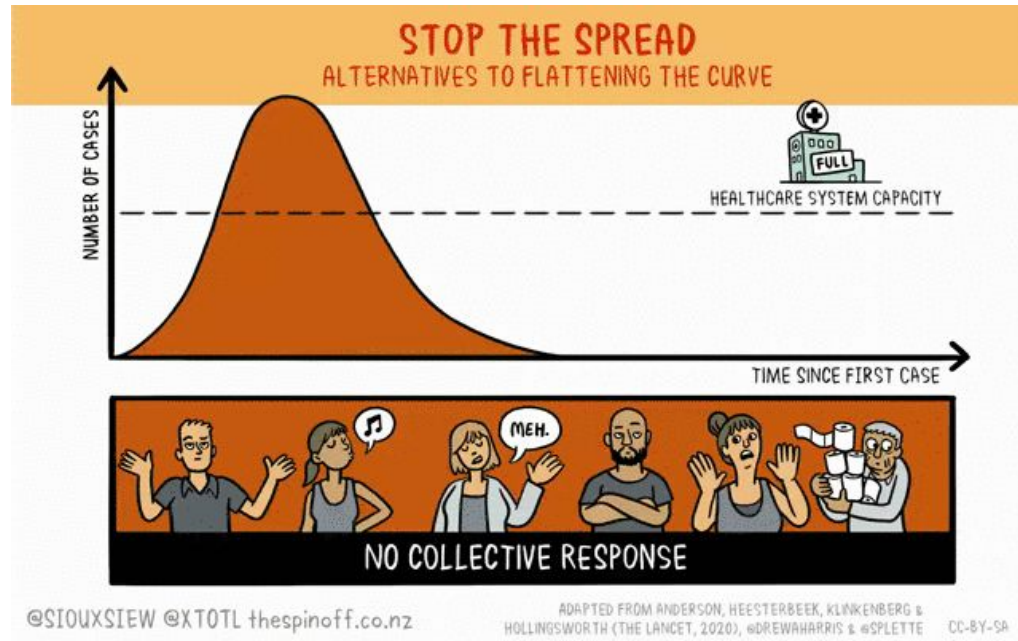
Biometric Technologies and Behavioural Security

Tutorial 9 - Small Crowds Analysis and Blob Detection



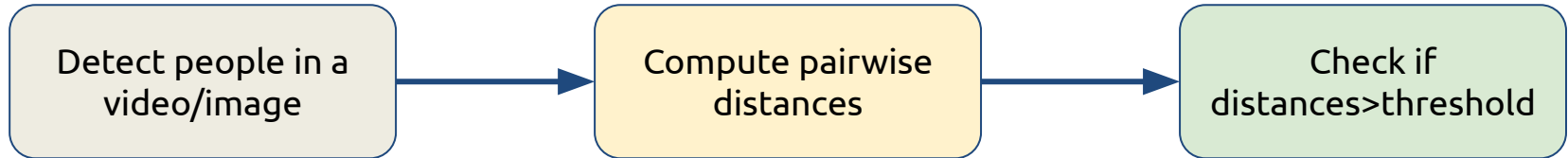
Life in COVID-19 Times

The importance of social distancing

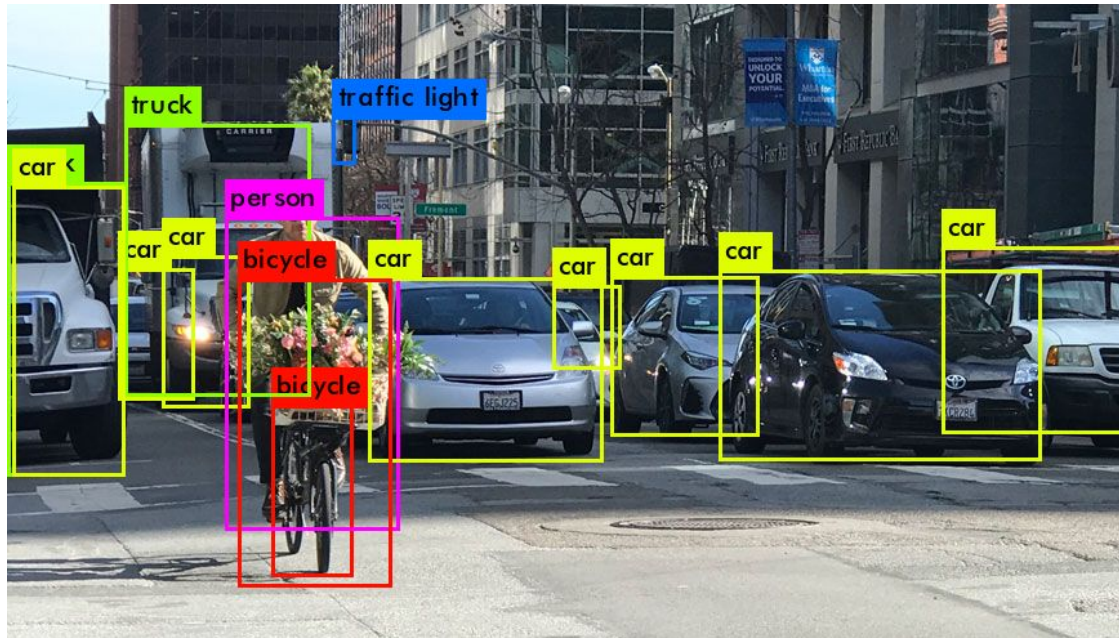




Social distancing detector: workflow chart



Social distancing detector: YOLO



You
Only
Look
Once



Let's move to colab!

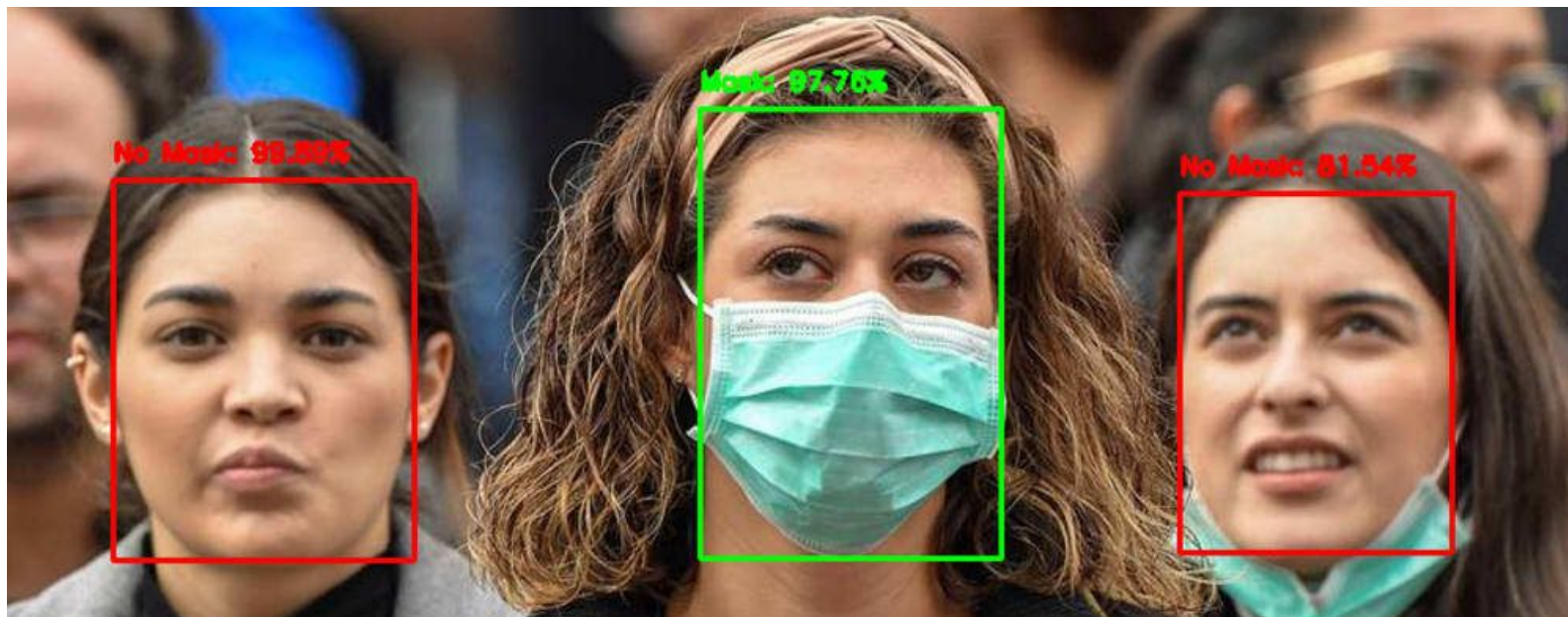
Social Distancing: [https://bit.ly/Tutorial9 SD](https://bit.ly/Tutorial9_SD)



Other examples of social distancing detectors

[Example 1](#)

[Example 2](#)



Face Mask Detector

Face Mask Detector: workflow chart

Load Face Mask dataset

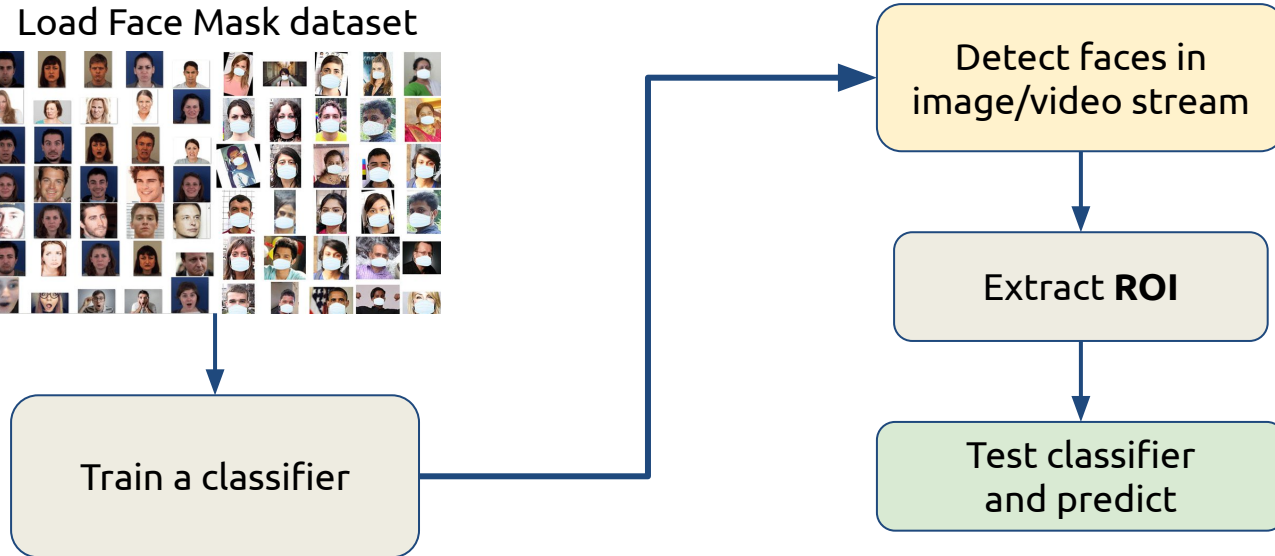


Train a classifier

Detect faces in
image/video stream

Extract **ROI**

Test classifier
and predict



Face Mask Detector: dataset

Mask

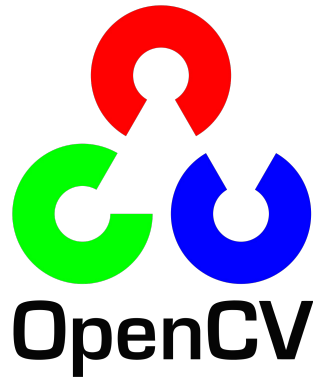


No Mask





Face Mask Detector: face detector





Let's move to colab!

Face Mask: https://bit.ly/Tutorial9_FM

[Solution 2](#)



Credits

To deepen:

- *Social distancing*
- *Face Mask*