

Recyclapp



Image Classification using Convolutional Neural Network

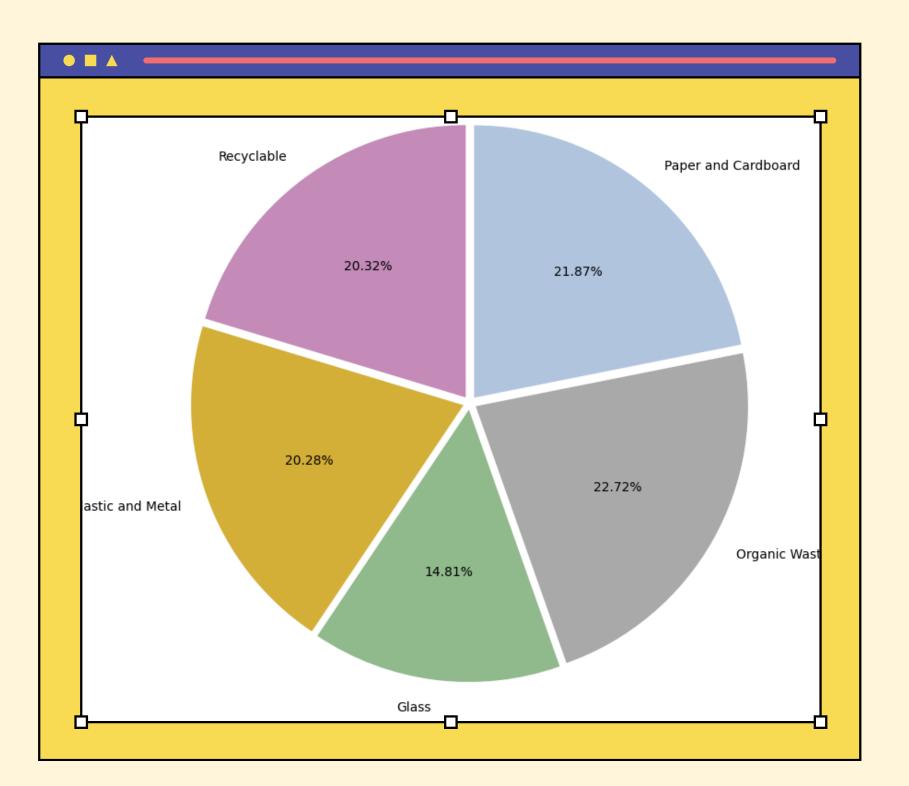
• Data:

- Kaggle (different sources)
- Organised in 5 classes: organic, paper, glass, yellow, recycling point

Model

- 1st custom built models (low accuracy)
- Final: Transfer Learning (accuracy > 90%)
- Webapp: Streamlit

Recyclapp





Images used

- Total: 12400
- Classes:
 - Organic
 - Glass
 - Plastic and Metal
 - Paper and Cardboard
 - Recycling Point: e-waste,
 clothes, shoes, furniture.



Presentation Outline

2

3

Some facts to wake you up and get you thinking

Current recycling situation

Don't panic and don't get ecoanxious!

There are ways we can all contribute

"Recyclapp 1.0"

Ready to help you managing your waste



Did you know that?



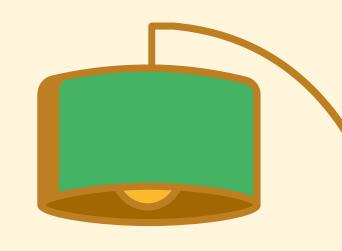
Time taken for 1 plastic bag to fully degrade

44.7 Mt e-waste

Generated world wide.

Only 20% recycled through

appropiate channels



40 % of plastic is generated for packaging

It sounds overwhelming...

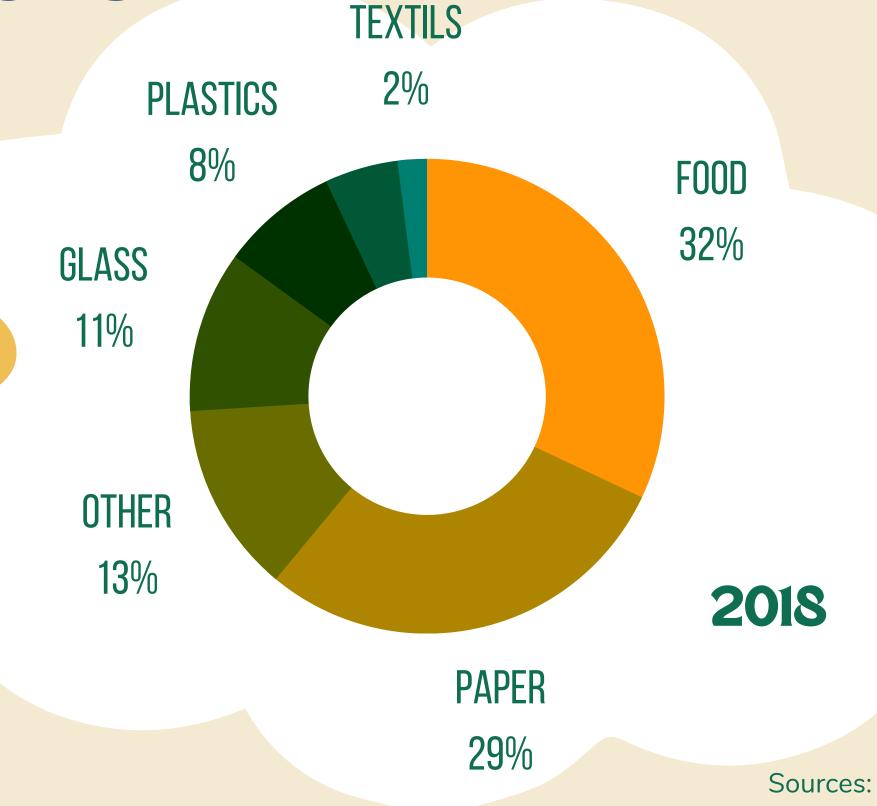
Sources:

Global E-waste monitor 2017

National Geographic - Ocean Pollution 2018

Some numbers

Municipal Waste Europe





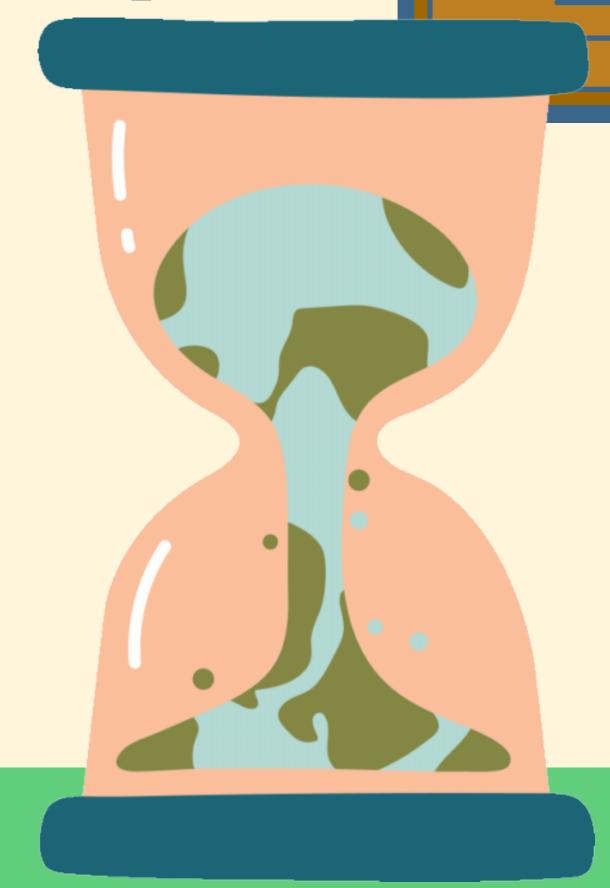


But let's not panic...yet



You cannot get through a single day without having an impact on the world around you. What you do makes a difference, and you have to decide what kind of difference you want to make.

Jane Goodall







- Tips and tricks to lead a more sustainable life
- Get in touch! Personalise advise and planning
- And much more...







Thank you for listening!

Don't hesitate to ask any questions!

Marta Alirangues-Núñez marta.alirangues@gmail.com

