



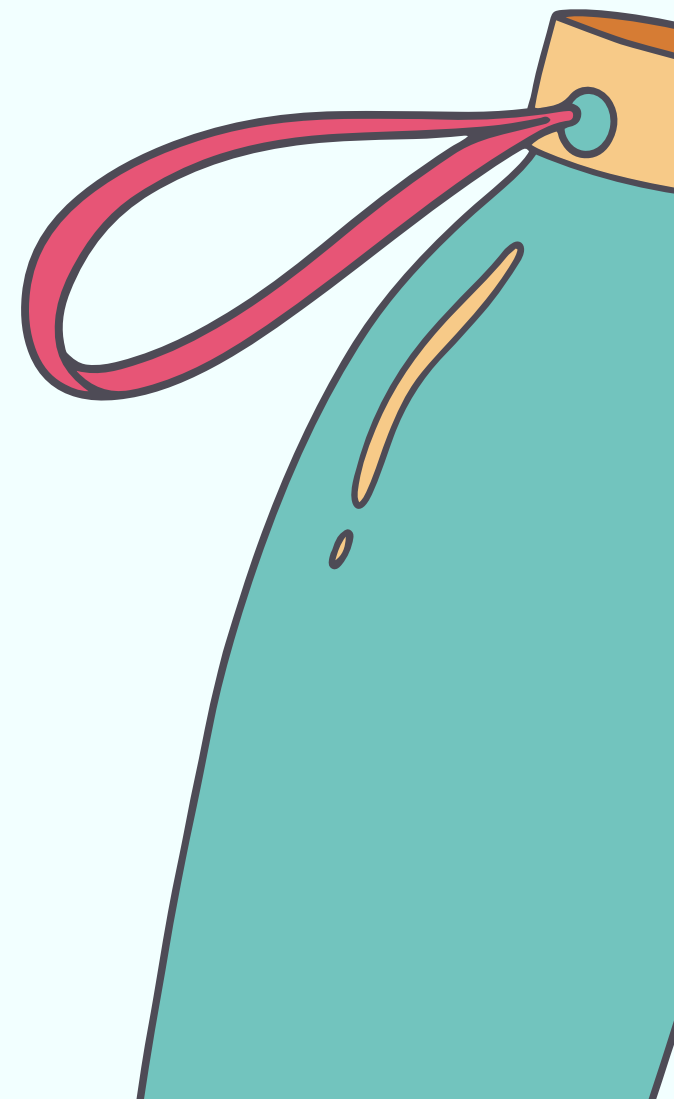
LET'S LEARN ABOUT
GARBO

OUR OBJECTIVE

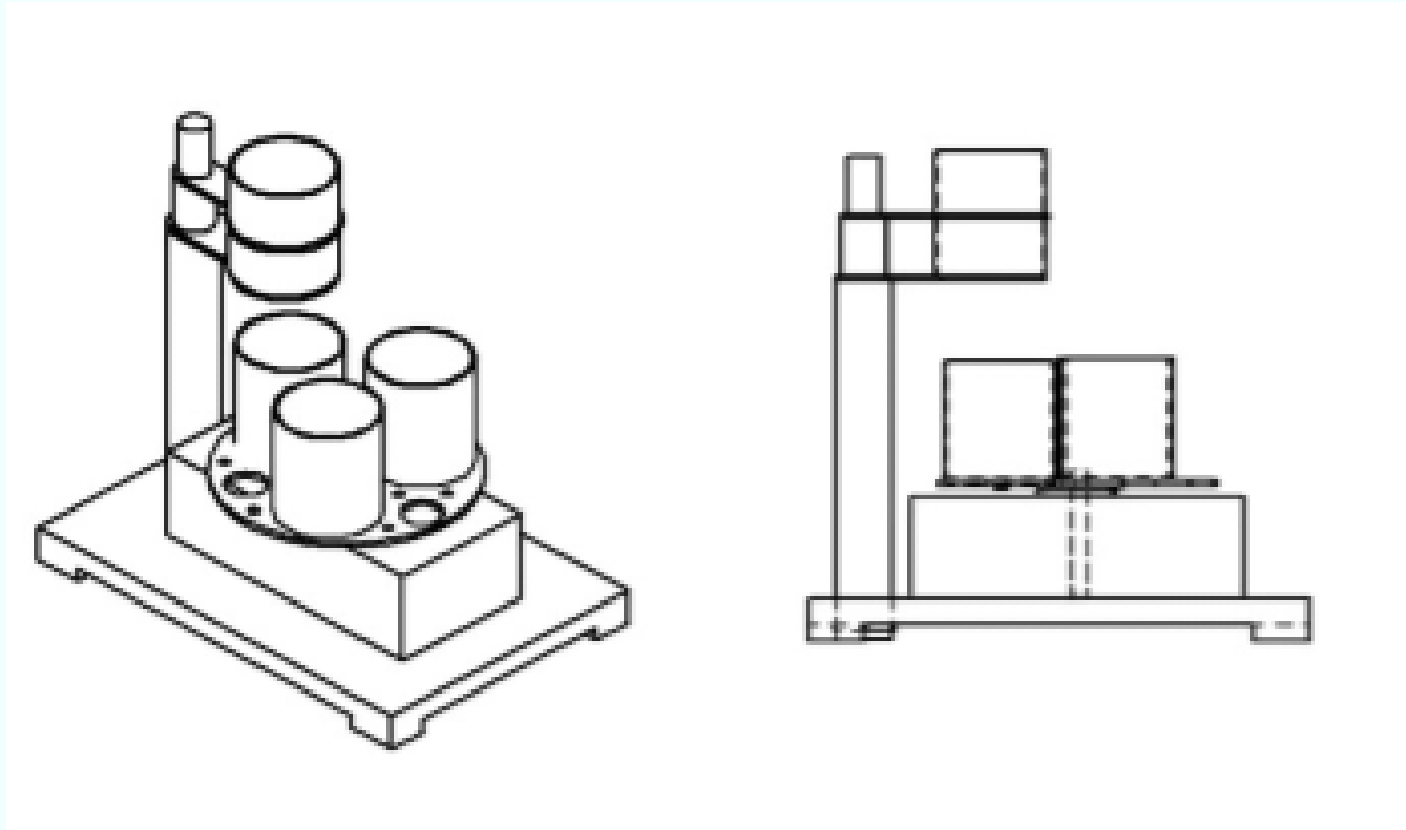


- Intelligent recycling solution
- Solve problems with house waste management

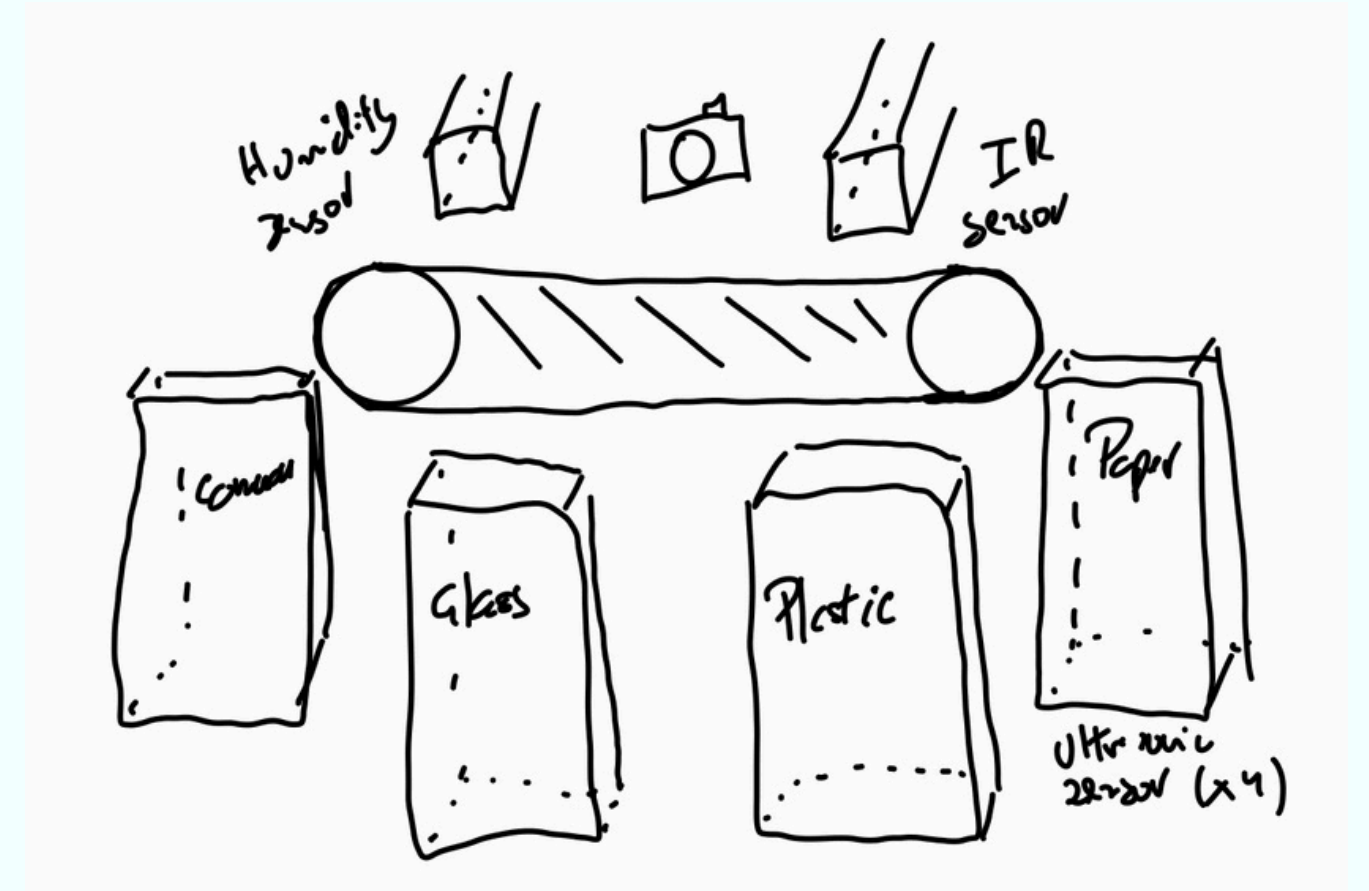
CONCEPTUAL DESIGNS



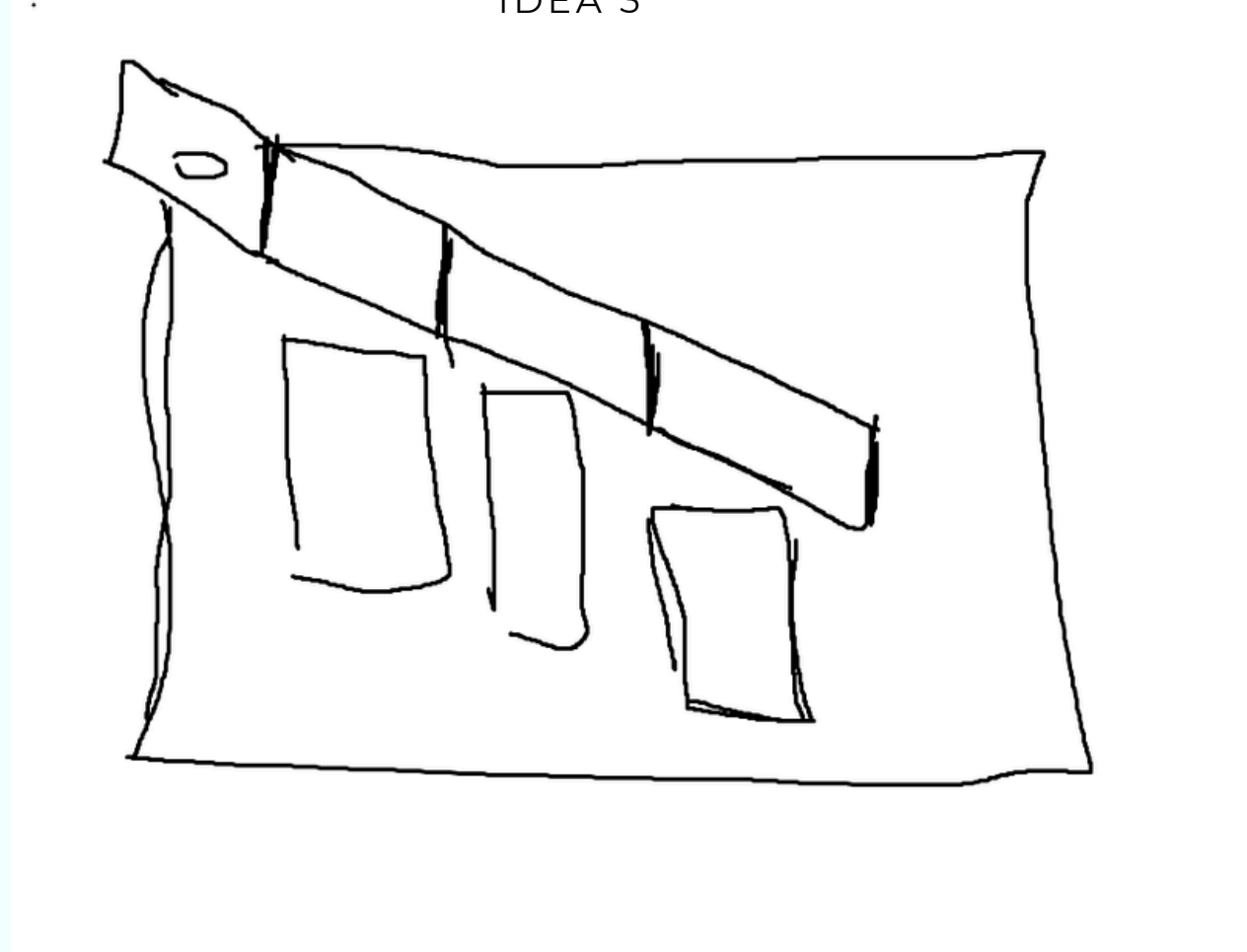
IDEA 1



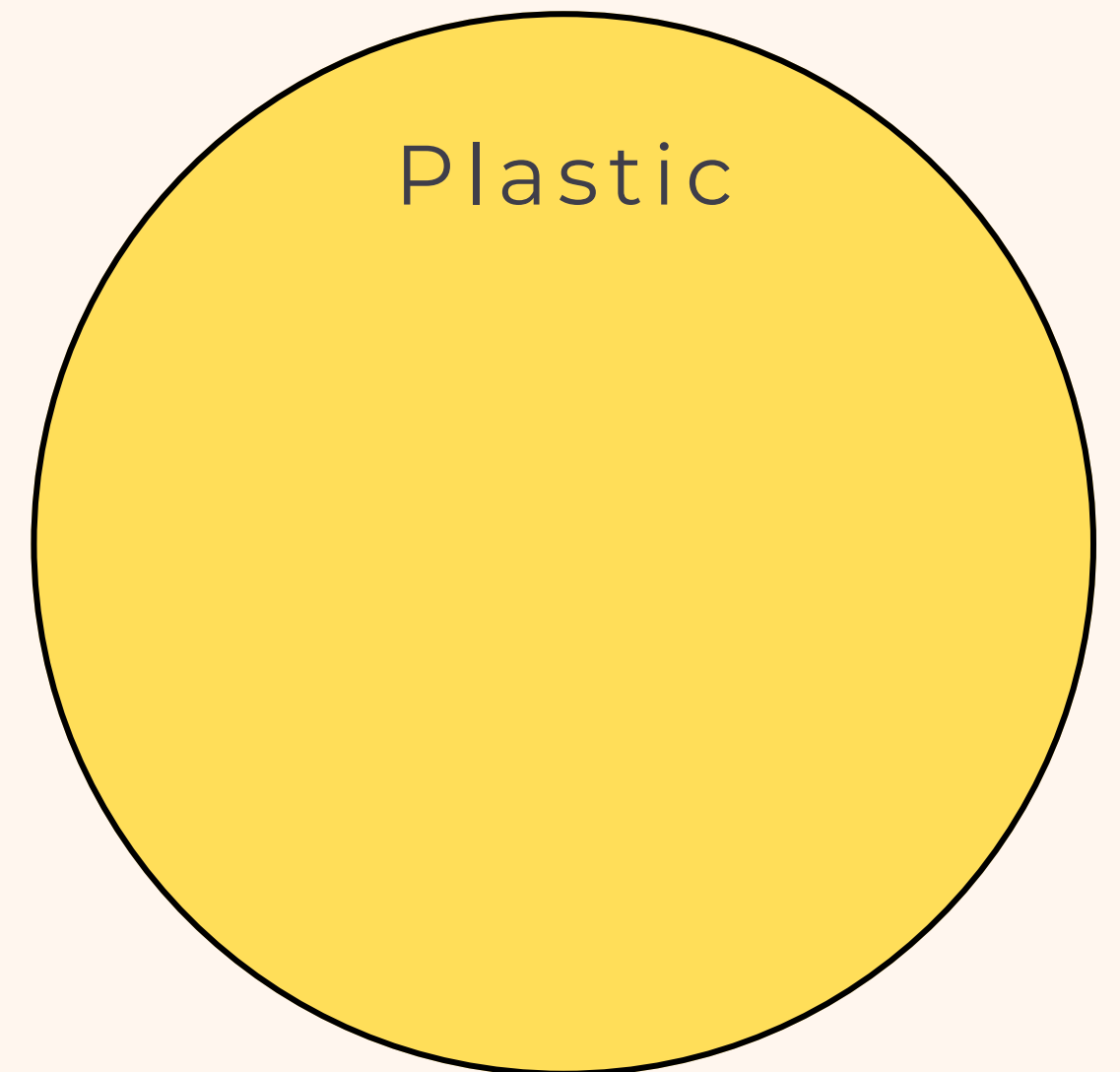
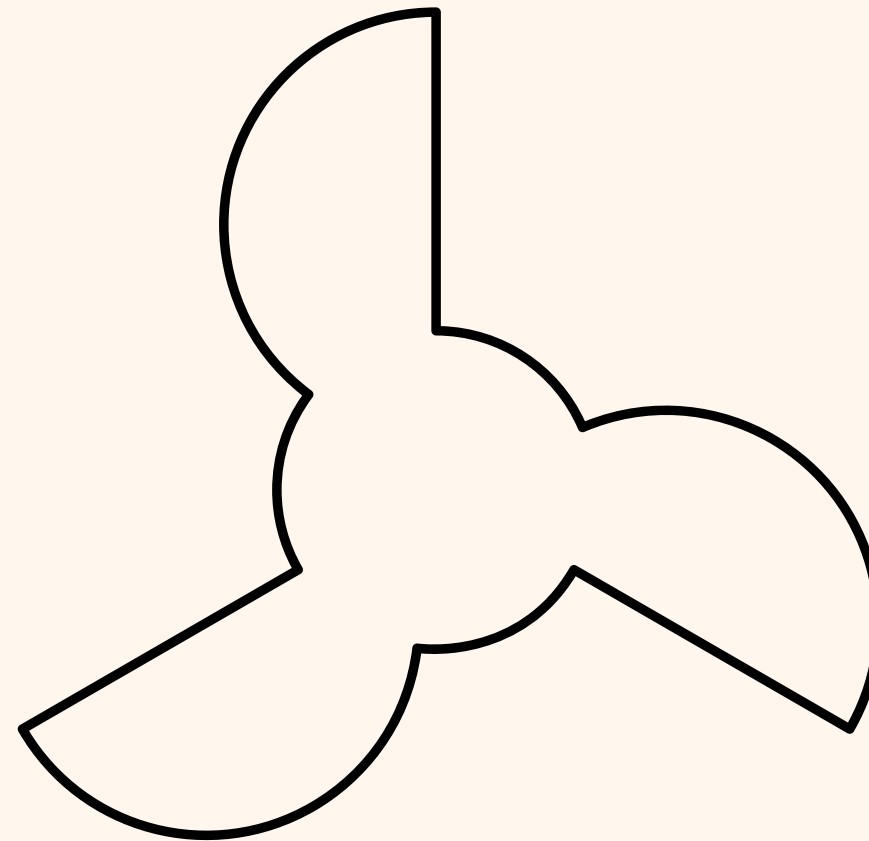
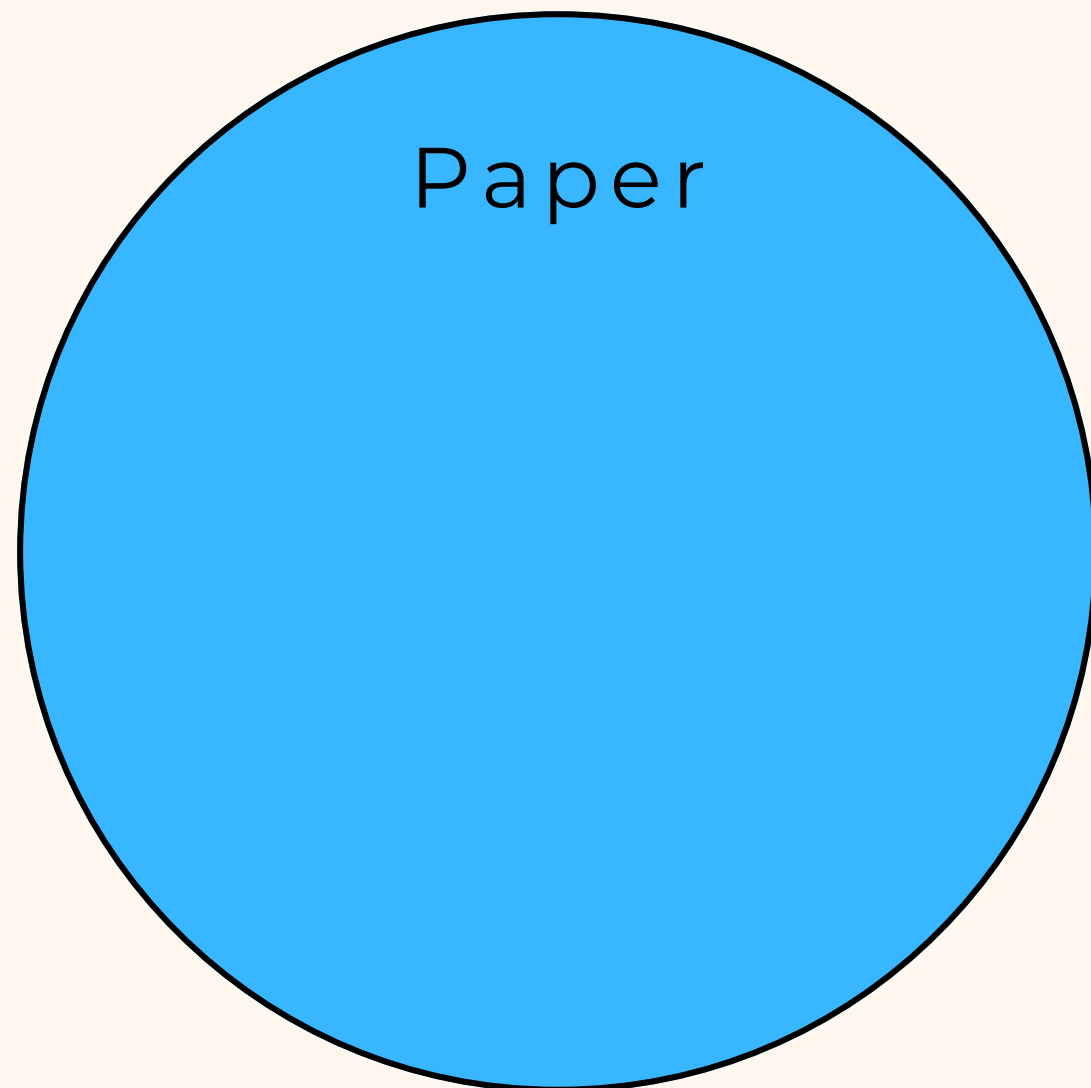
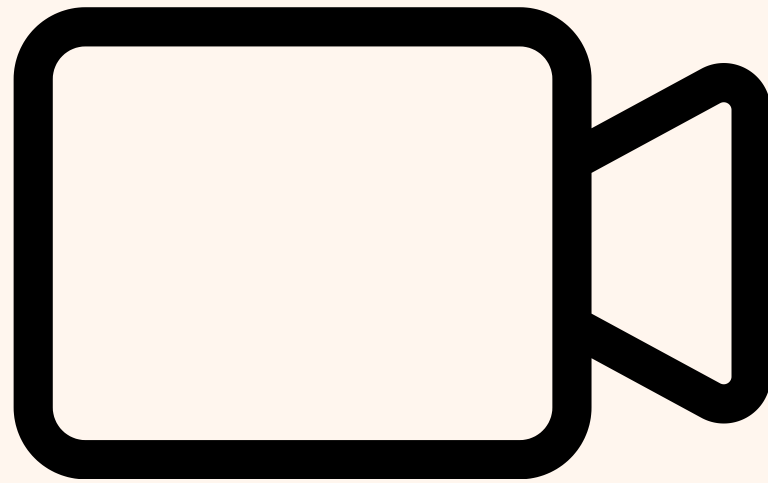
IDEA 2



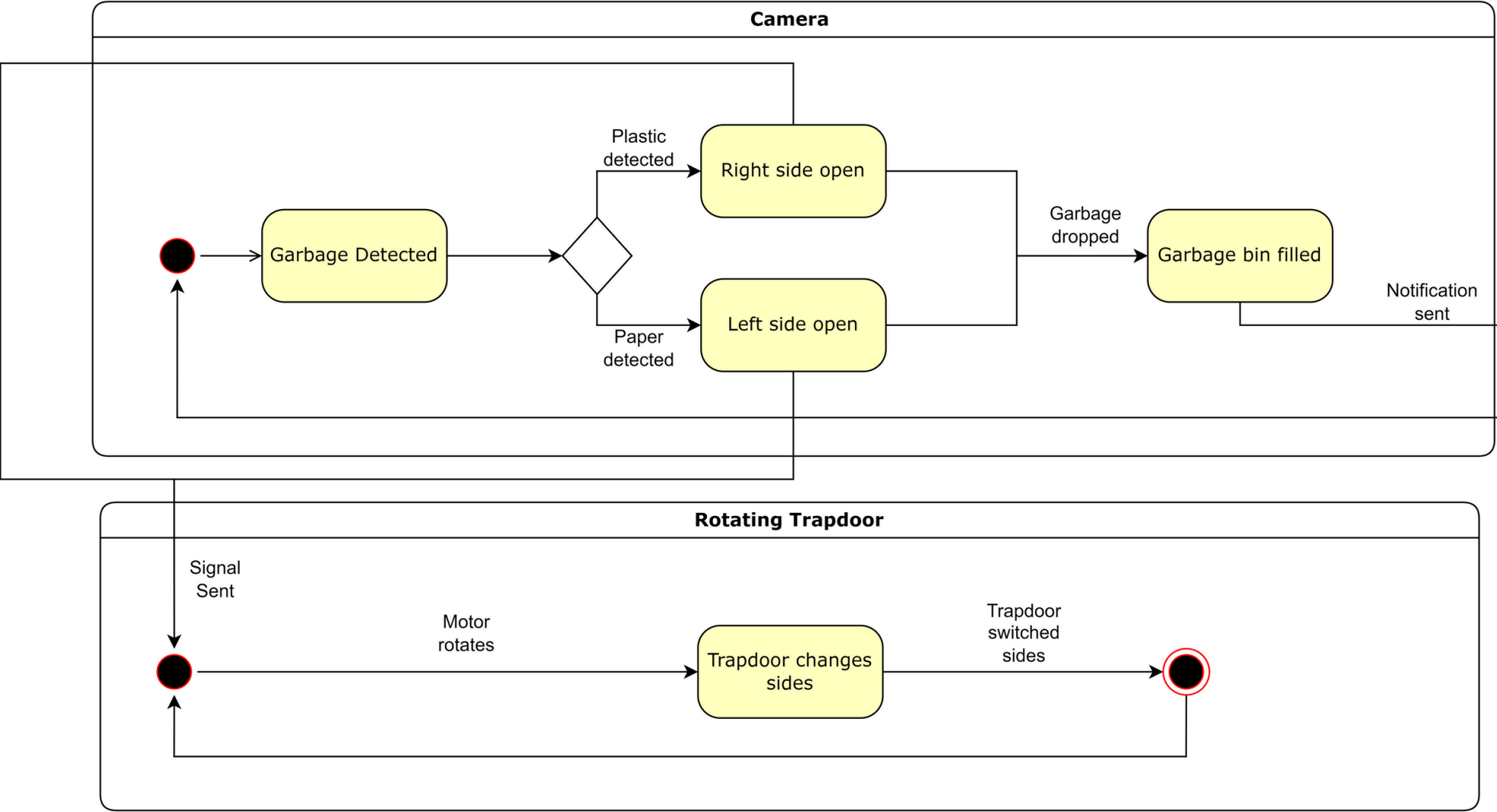
IDEA 3



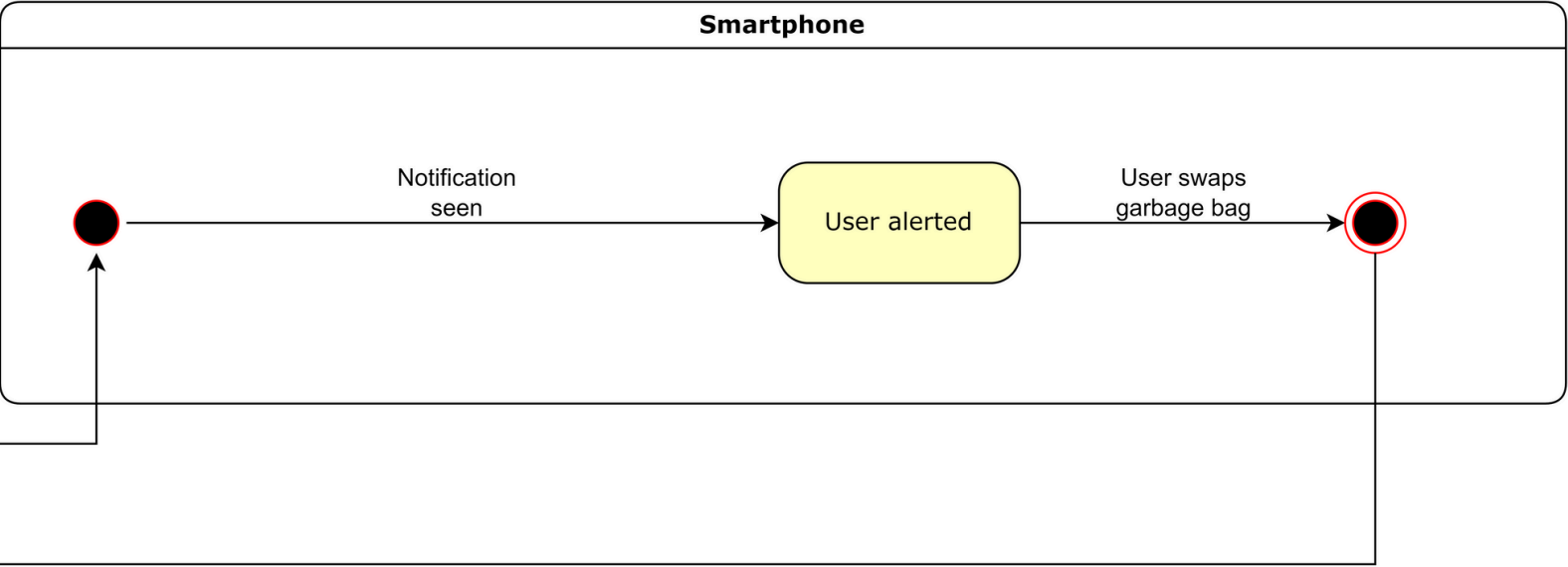
HOW IT WORKS



Garbo

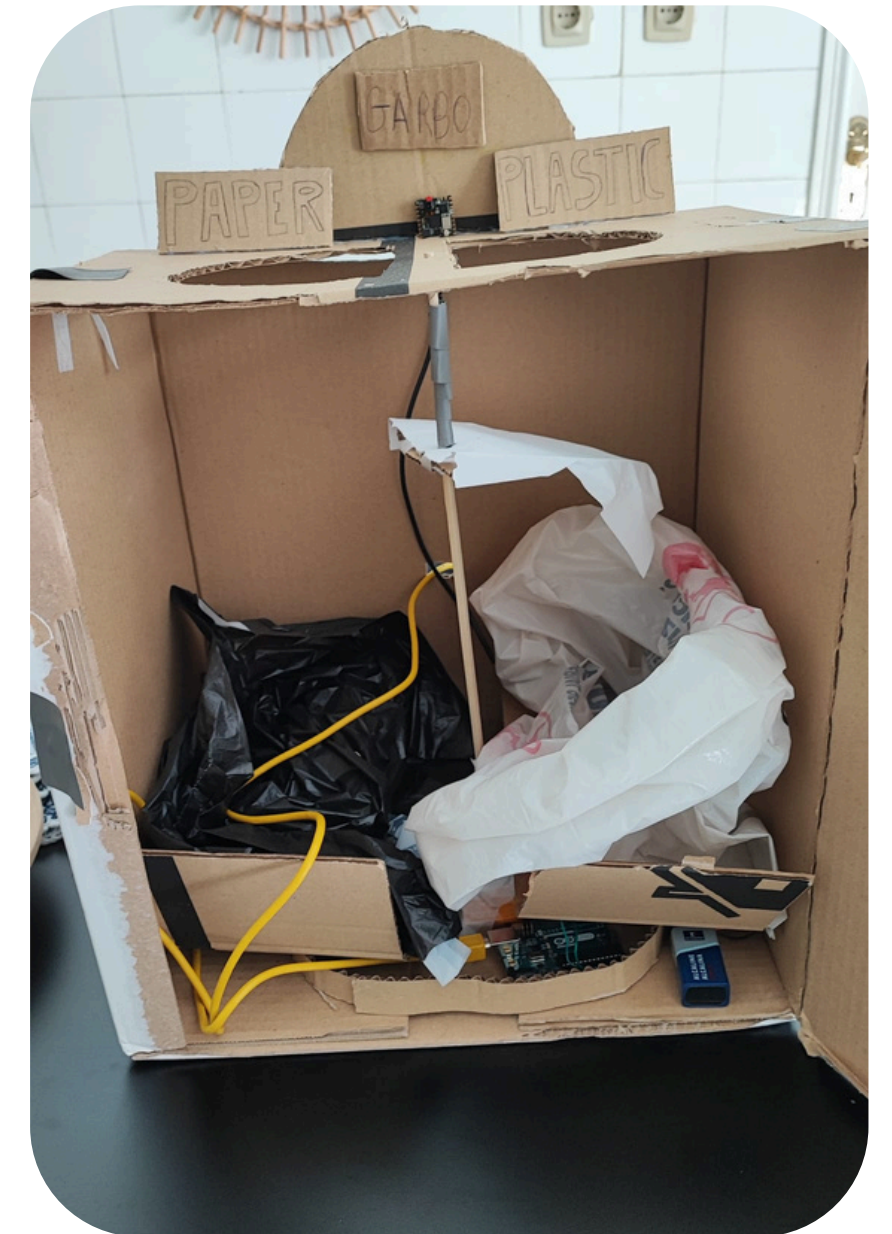


Smartphone



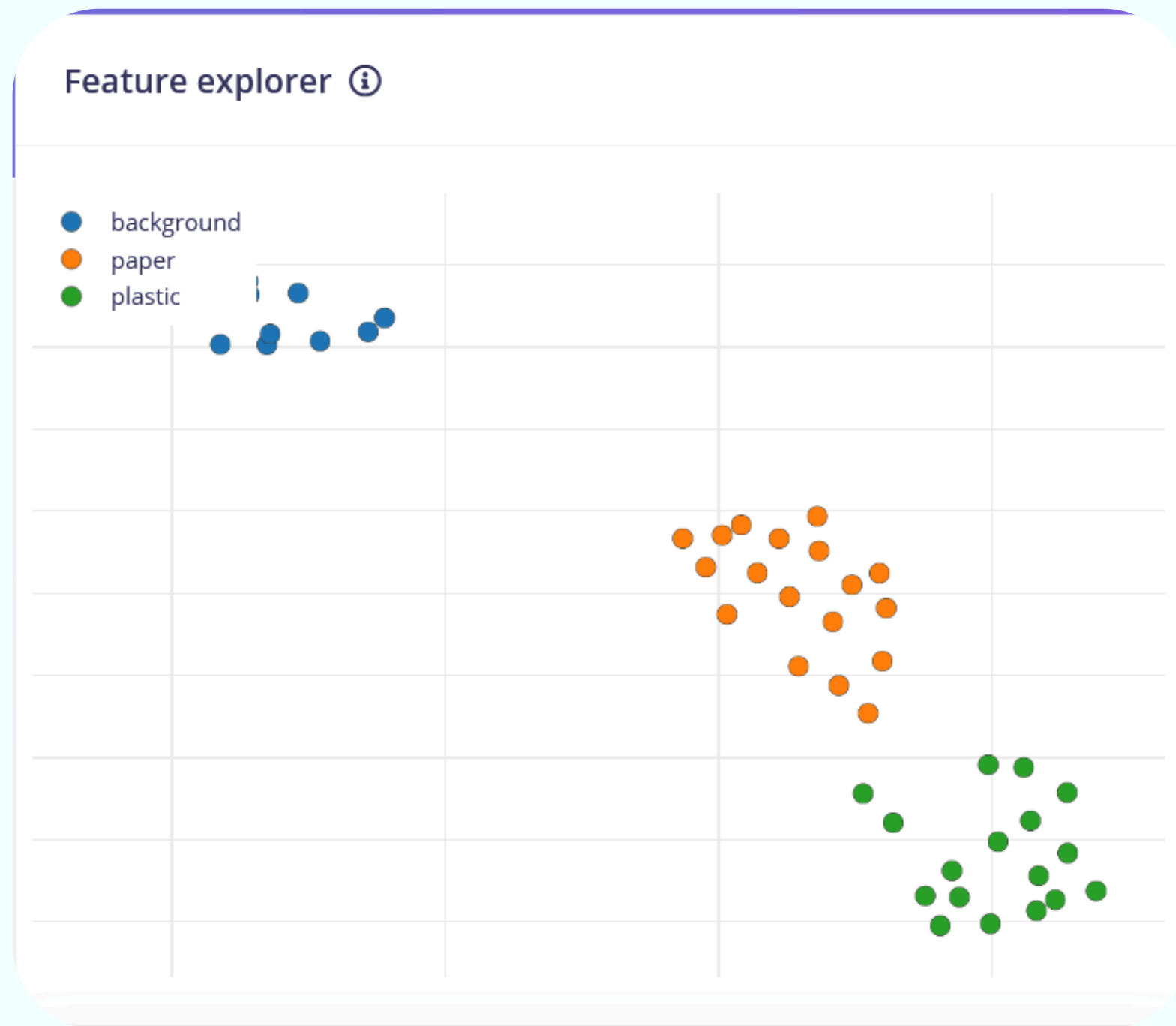
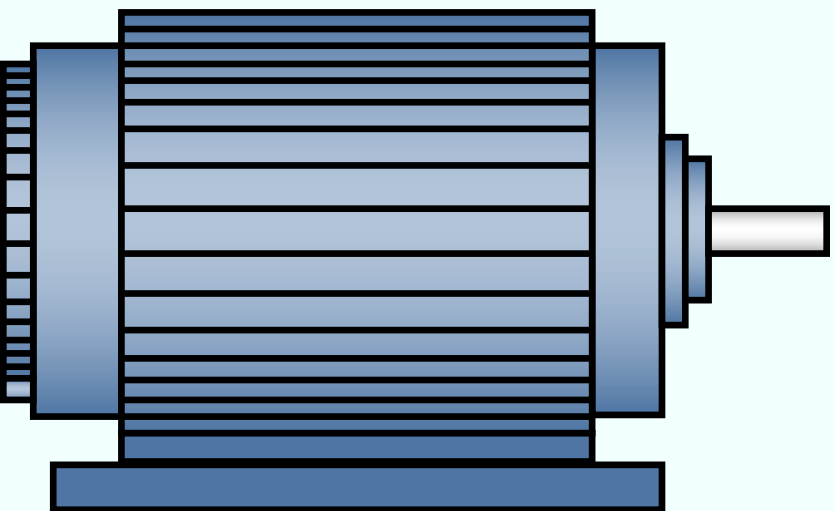
Garbage
bin can be
filled

FINAL DESIGN



DIFFICULTIES





Model

Model version: ⓘ Quantized (int8) ▾

Last training performance (validation set)

% F1 SCORE ⓘ **95.7%**

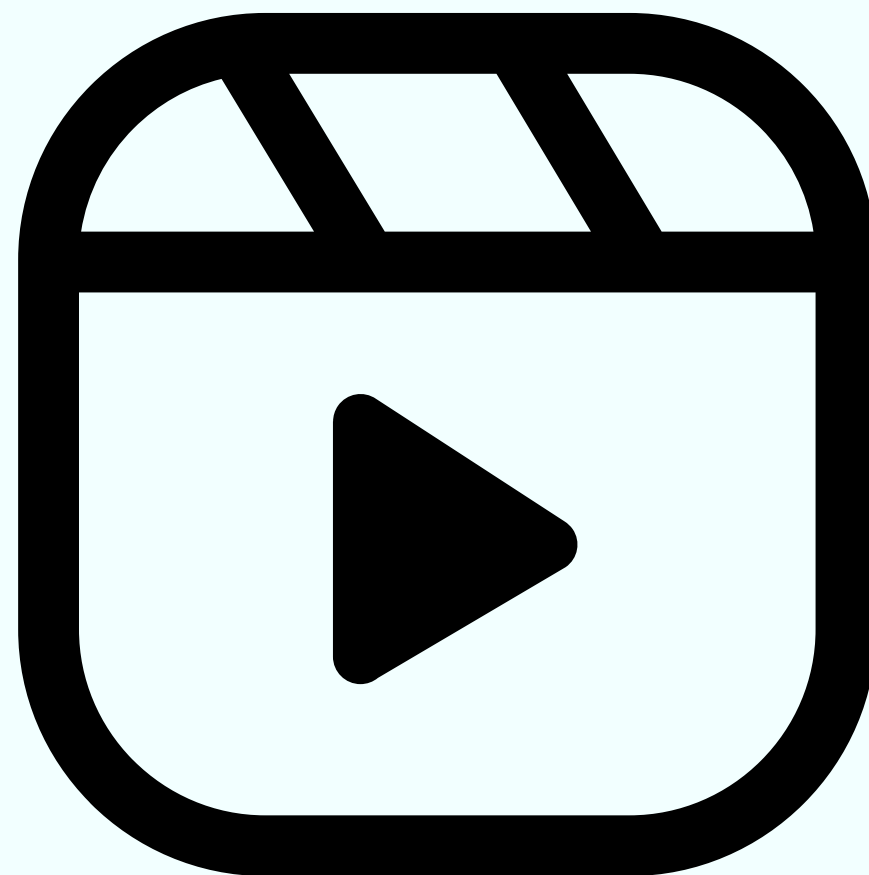
Confusion matrix (validation set)

	BACKGROUND	BACKGROUND	PAPER	PLASTIC
BACKGROUND	100.0%	100.0%	0%	0%
BACKGROUND	100.0%	100.0%	0%	0%
PAPER	0%	0%	100%	0%
PLASTIC	0%	0%	0%	100%
F1 SCORE	1.00	1.00	1.00	1.00

Metrics (validation set) ⬇

METRIC	VALUE
Precision (non-background) ⓘ	0.92
Recall (non-background) ⓘ	1.00
F1 Score (non-background) ⓘ	0.96

VIDEOS







CONCLUSION



QUESTIONS?