

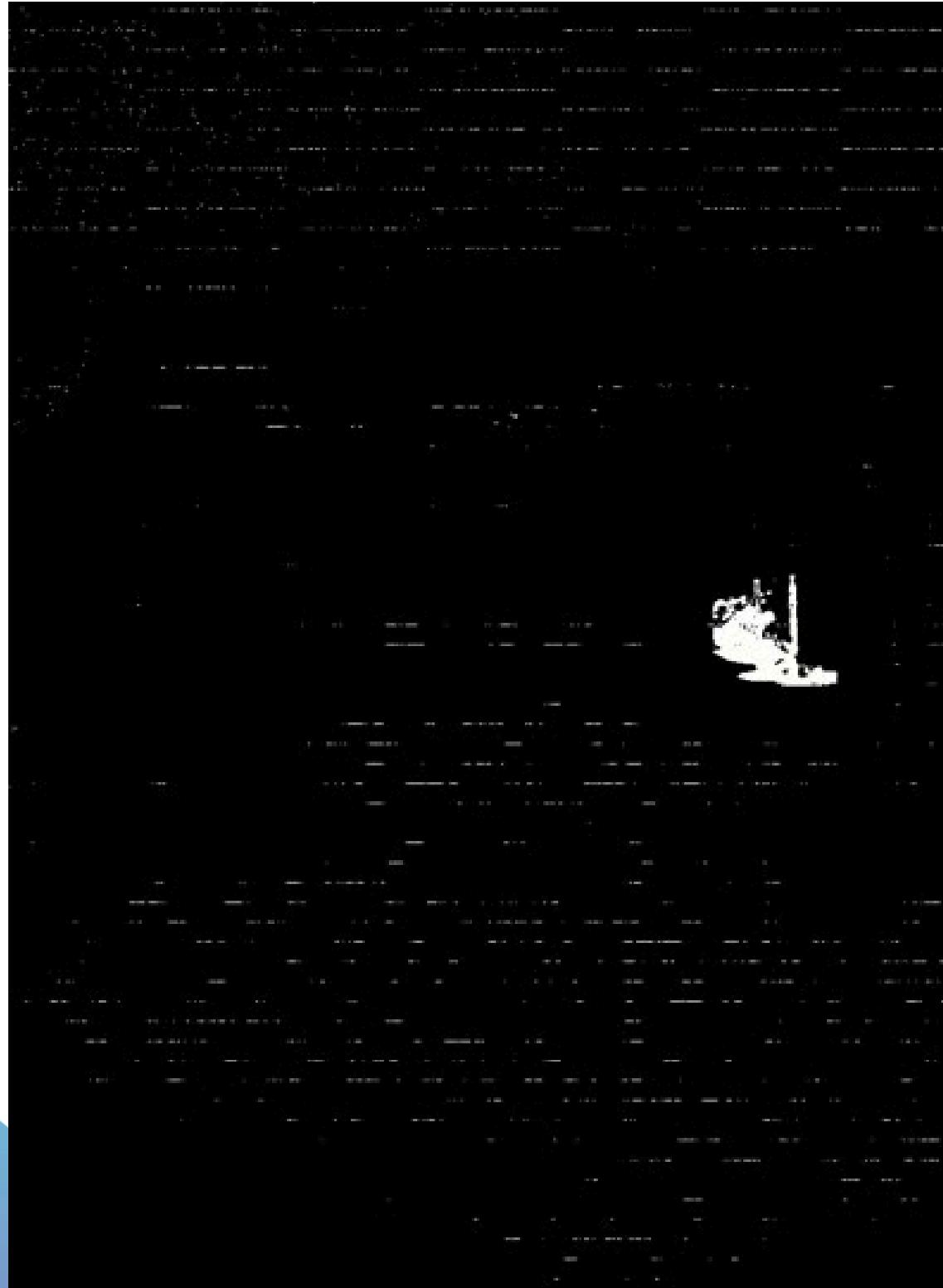
# Projet GPGPU

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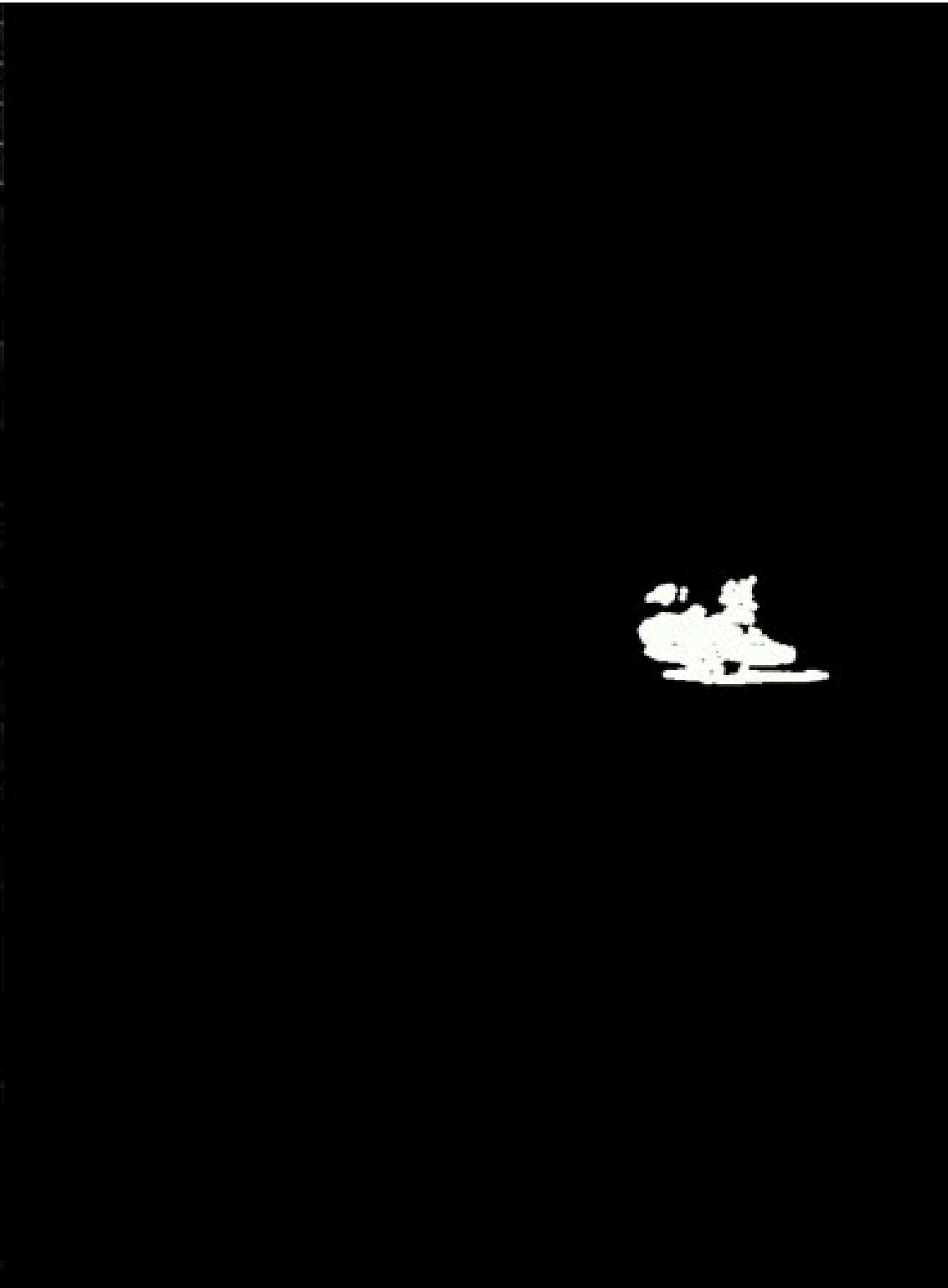
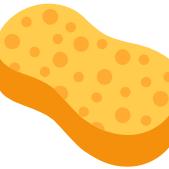
# **Présentation du projet**

# **Estimation du fond**

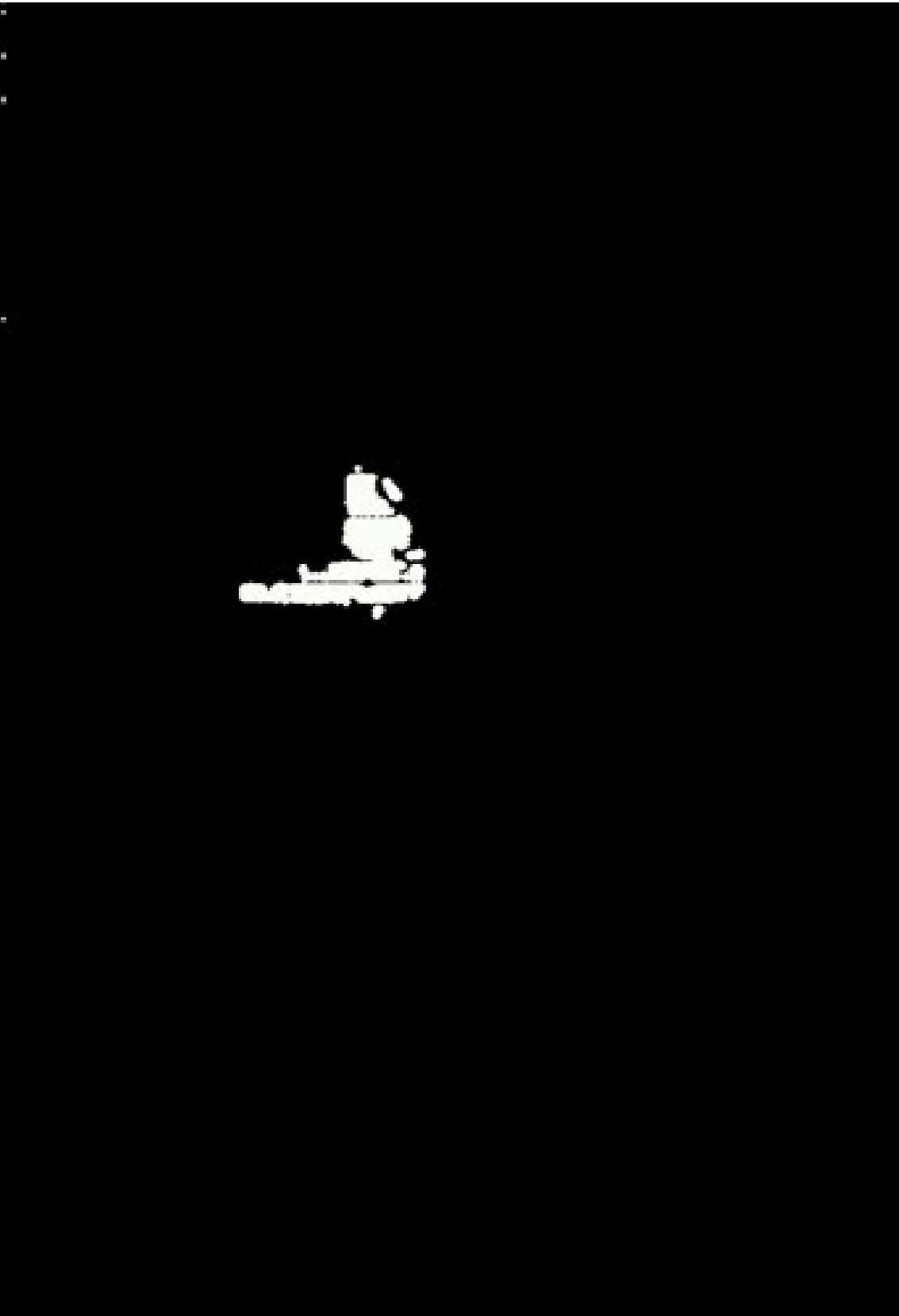
# Masque de Mouvement



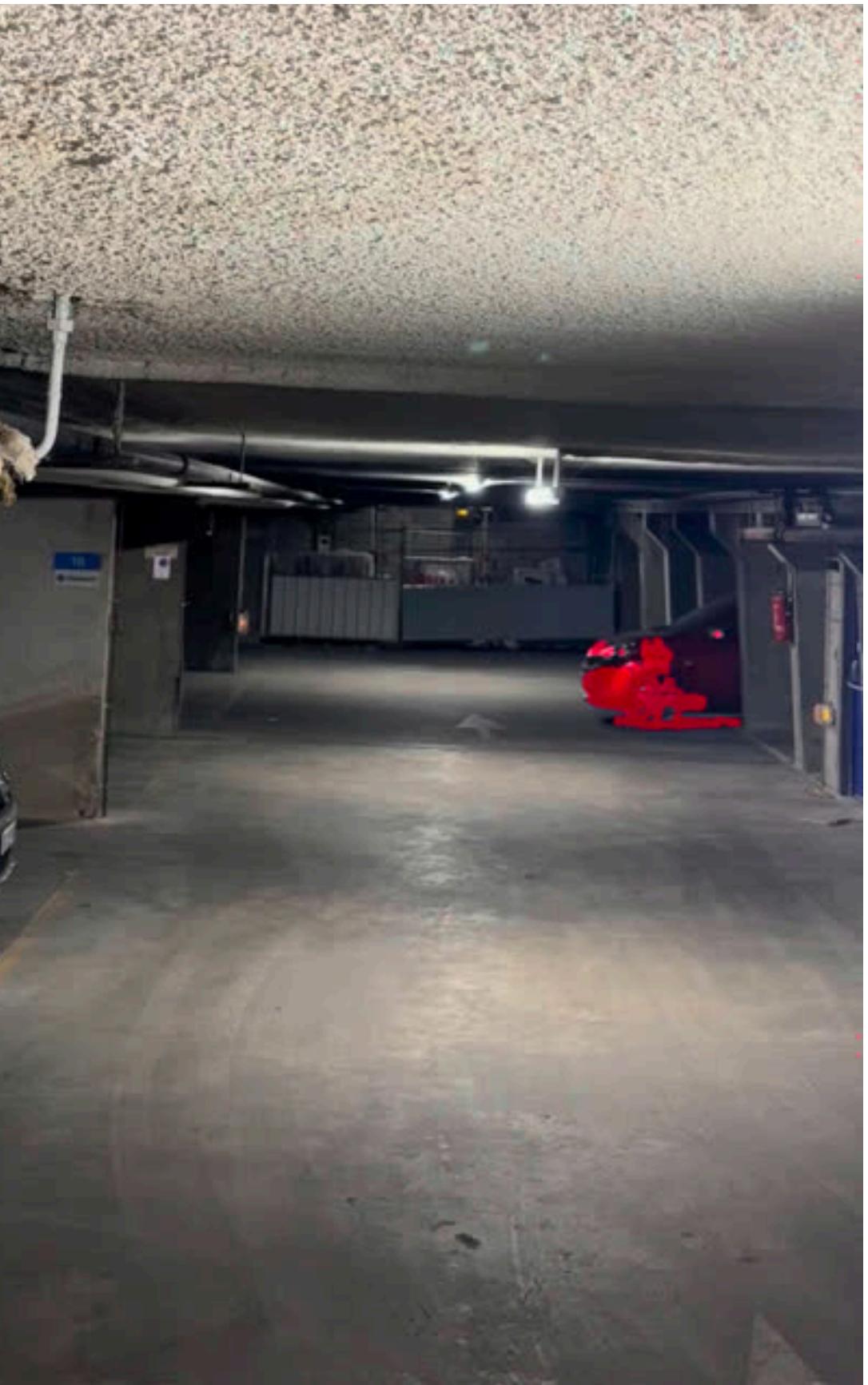
# Nettoyage du Masque



# Seuil d'hystérésis



# Masquage



**CUDA** ⚡

# Benchmark

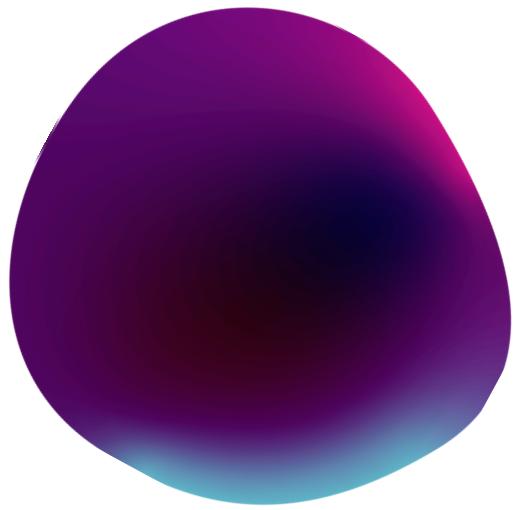
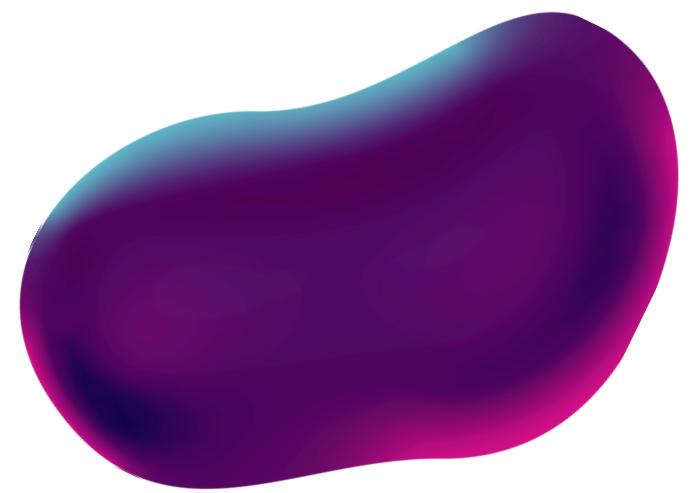
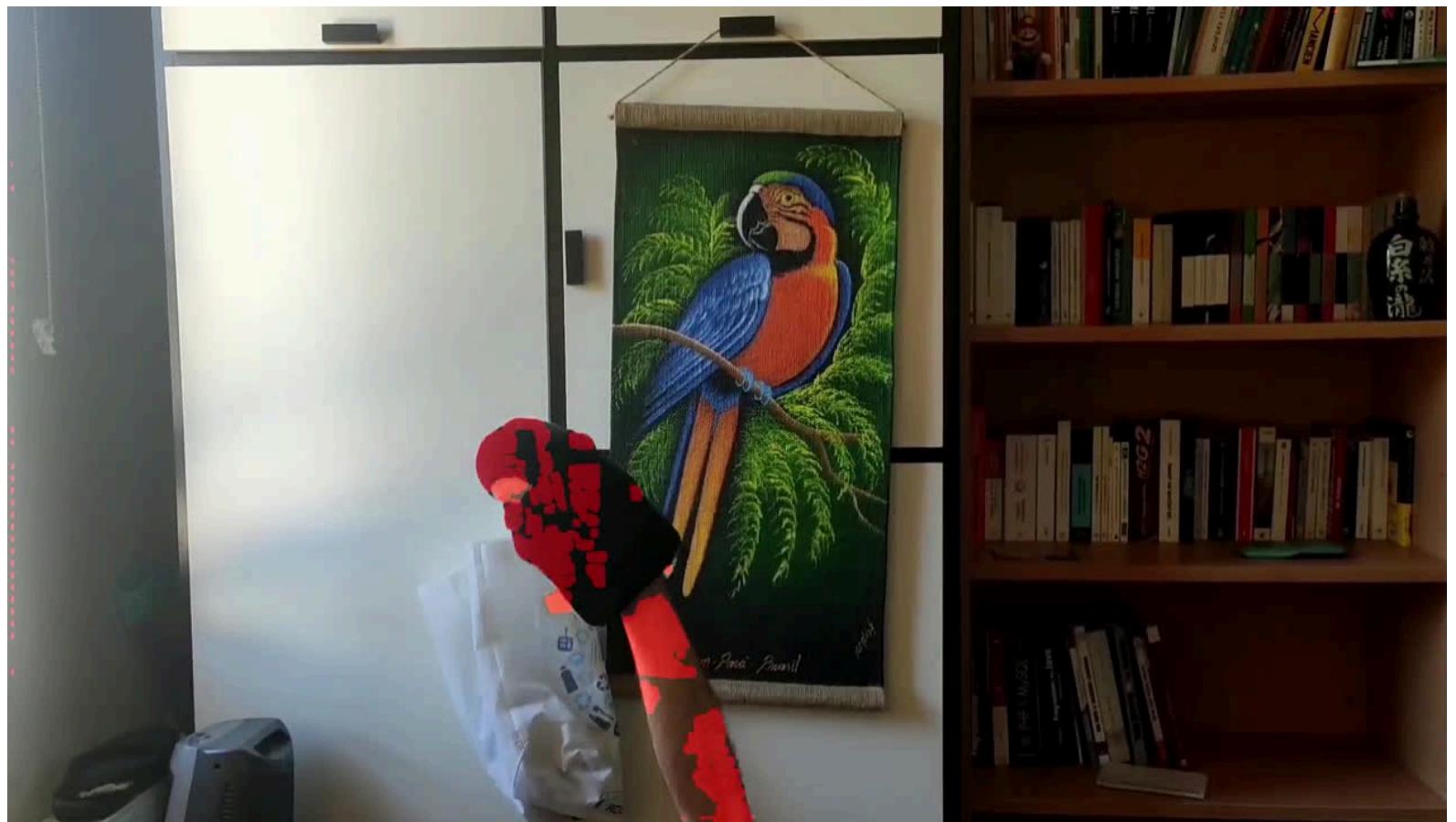
<b>Video</b>	<b>Durée(s)</b>	<b>Résolution</b>	<b>TEMPS CPU (s)</b>	<b>TEMPS GPU (s)</b>	<b>Acceleration</b>
ACET	8	776x1380	277.735	5.857	x47.44
Lil Clown	14	1920x1080	818.374	11.217	x72.95
Nuit Blanches	19	1920x1080	847.374	11.309	x74.94

# Profiler

Fonction	Temps (%)	Temps total (s)	Appels	Moy (ms)
background_estimation_process	82.63	4.88889	268	18.242
CUDA memcpy HtoD	7.91	0.46812	807	0.58008
CUDA memcpy DtoH	5.25	0.31077	804	0.38653
morphologicalOpening	3.16	0.18718	536	0.34921
applyRedMask cuda	0.47	0.027653	268	0.10318
hysteresis	0.43	0.025254	268	0.09423

Demo







# Conclusion