



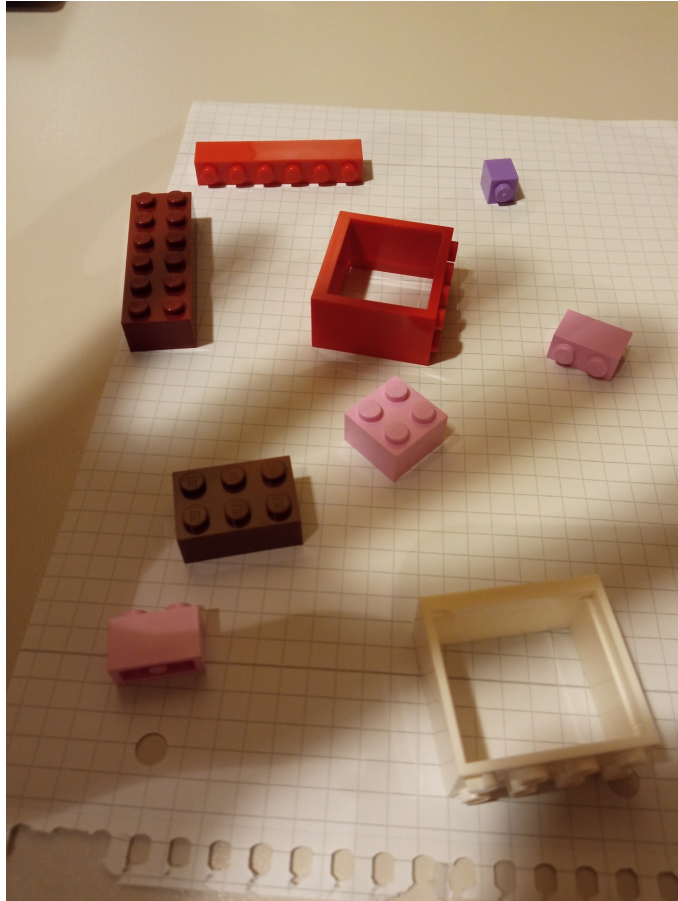
COMPUTER VISION

Project

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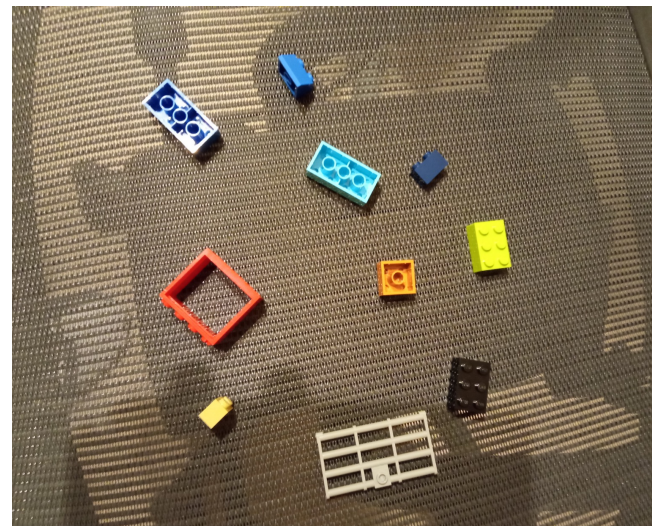
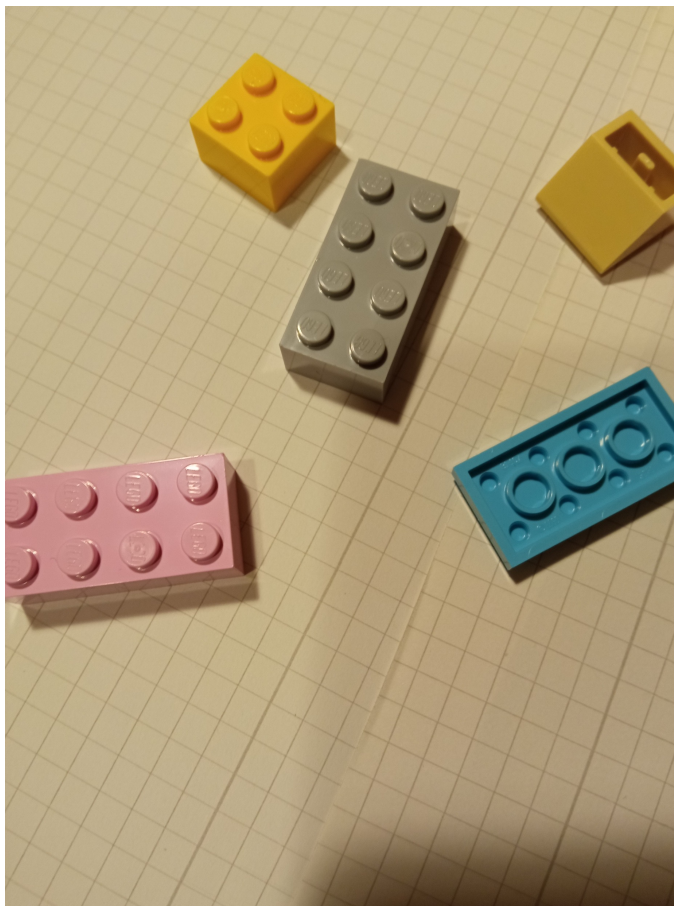


TASK 1



- ▶ Input:
 - ▶ Image containing **one or more** LEGO bricks
- ▶ Output:
 - ▶ Total number of bricks
 - ▶ Position of the bricks (bb)
 - ▶ Number of different colours

TASK 1

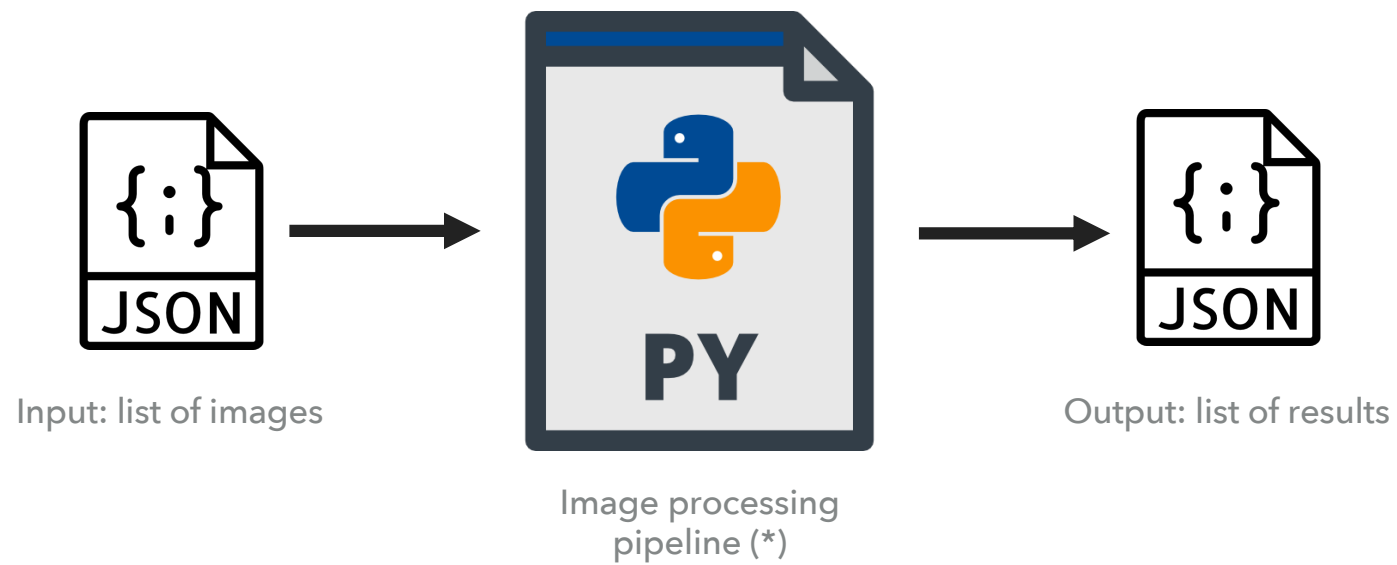


Dataset: <https://mostwiedzy.pl/en/open-research-data/tagged-images-with-lego-bricks,202309140833448152311-0>

TASK 1

- ▶ Dataset:
 - ▶ 50 images randomly chosen from a public dataset
 - ▶ The results will be tested in 10 **undisclosed** images
- ▶ Deliverables:
 - ▶ Short report (2 pages max) presenting the **methodology** and some **results**
 - ▶ Python script (only one file)
- ▶ Deadline: **April, 5** (23:59 AoE)

TASK 1



(*) using only OpenCV and other common libraries, like numpy and matplotlib

TASK 1

- ▶ Grading
 - ▶ Task 1 accounts for **30%** of the overall project grade
 - ▶ Elements being considered: methodology, report and quality of the results

Task 1	Tasks 2 + 3	Presentation
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- ▶ Important remarks
 - ▶ Follow **strictly** the JSON structure for the input and output files
 - ▶ It is **okay** to use AI tools while developing your work, but it is **not okay** to use them without acknowledging it
 - ▶ All members of the group **are expected to understand** the methodology and the submitted code