# Vehical's Number Plate no . Detection

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# Library

1. Imutils:  A series of convenience functions to make basic image processing functions like translation, rotation, resizing.
2. EasyOCR   is a python package that allows the image to be converted to text
3. Open cv :
4. Matplotlib
5. Numpy

# step

1. Use opencv to capture the image
2. Convert image into grayscale for  simplifies the algorithm and reduces computational requirements.
3. Use bilateral Filter for noise reduction .
4. For detect a edges use  Canny canny edge detector.
5. Find all Contours and detect number plate  rectangular shape .
6. Using easyocr readtext method read the numberplate's number .

# Thanks

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