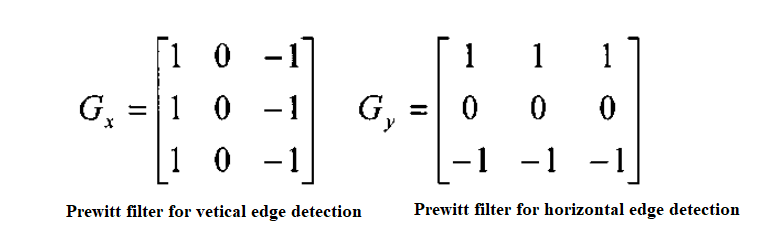
DATE HERE - info, figures, whatever afterwards, DATE EVERYTHING

DO NOT USE IMAGES DEPENDENT ON QUALITY FROM THIS DOCUMENT, WORD COMPRESSES HEAVILY

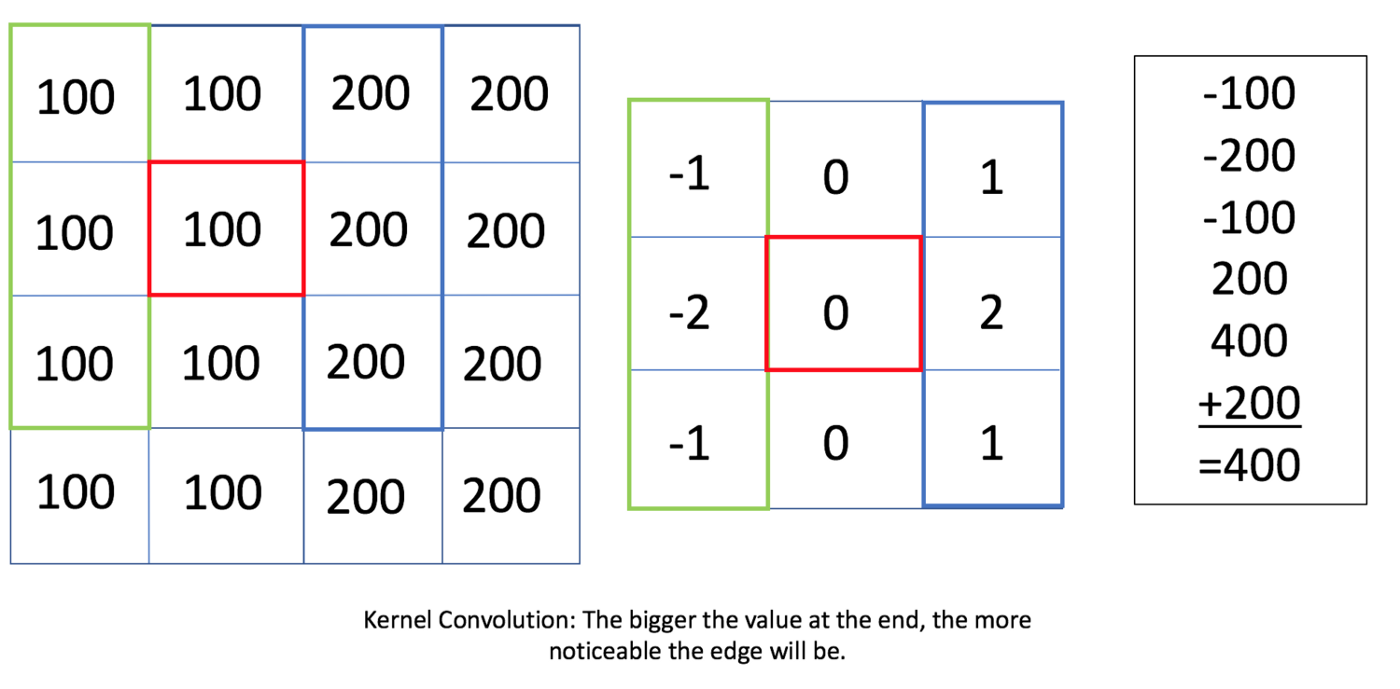
09/10/2022 – Image detection literature study

<https://www.mygreatlearning.com/blog/introduction-to-edge-detection/>

Edge detection described as: “a technique of image processing used to identify points in a digital image with discontinuities, simply to say, sharp changes in the image brightness”

There are several methods, all involving applying a filter matrix to the image at all possible points.

For all given pixels that the matrix will fit for, apply these coefficients for a given pixel, then sum the values and take this as the new value to be later normalized for the image:



This method results in the output being shrunk in dimensions, for an n\*n image and a r\*r filter the output image will be ( (n-r)+1)\*( (n-r)+1).

Canny edge detection is the most common. The process involves:

* Convert the image to grayscale
* Reduce noise – as the edge detection that using derivatives is sensitive to noise, we reduce it.
* Calculate the gradient – helps identify the edge intensity and direction.
* Non-maximum suppression – to thin the edges of the image.
* Double threshold –  to identify the strong, weak and irrelevant pixels in the images.
* Hysteresis edge tracking – helps convert the weak pixels into strong ones only if they have a strong pixel around them.

Attempt to implement a Sobel filter in MATLAB:

<https://www.geeksforgeeks.org/matlab-image-edge-detection-using-sobel-operator-from-scratch/>

**Advantages:**

1. Simple and time efficient computation *(for small images, cannot go above 720p at least for Arduino)*
2. Very easy at searching for smooth edges *(good for searching for edges of license plates)*

**Limitations:**

1. Diagonal direction points are not preserved always
2. Sensitive to noise
3. Not very accurate in edge detection
4. Detect with thick and rough edges does not give appropriate results

Overall quality detection if the threshold values are set correctly:



Main concern here is the potential overhead and memory requirements needed for this level of image processing, alongside all the extra processing surrounding finding the bounding box of the plate.

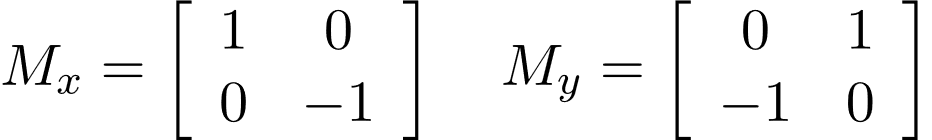
10/10/2022 – Attempts at bounding edged image

Attempted to use code found online to create bounding boxes for the edge filtered image

<https://uk.mathworks.com/matlabcentral/answers/35243-detecting-rectangle-shape-in-an-image>

Not great, will need some tinkering with algorithm to detect correct bounding box.

Need to think of extra info that could help detect corners of plate. The corners themselves seem fairly distinct, perhaps a similar filter to the edge detection could be used to find the corners of the plate. A filter for this use may have been found by using the **Robert Operator**.



This could be utilized to filter out diagonal edges, which the licence plate has at its corners, take the highest intensity spots and use these to find the approximate location for the edges of the licence plate.

12/10/2022 – Checking image processing requirements

Looking at an image size calculator, the stated value of a 1280x720p image in 8bit monochrome would be around 0.85MB which is significantly more than most microcontroller SRAM.

<https://toolstud.io/photo/filesize.php?imagewidth=1280&imageheight=720>

Given that working with the actual pixels of the image itself will be necessary, it doesn’t seem feasible to save the image in a compressed format (unless some Realtime decompression can be performed). The image could potentially be streamed from the onboard storage if necessary, taking the data and reducing it to a very low-level form (4bit mono-chrome) for processing. Although the maximum level of SRAM I have found on an affordable board is 256KB of SRAM. I could find an external module to assist in storing images, but I am uncertain, even 4 bits per pixel on 480p leaves very little room for processing. I should probably work on getting the system working at a higher level before attempting to design anything though.

12/10/2022 – diagonal edge detection



The Robert filter doesn’t work well. I might need to design my own filter to get the corners I want or find another method.

15/10/2022 – Background reading

Some of the methods that *‘Computer vision for security applications’* talks about is the motion detection aspect. In early systems there where a large amount of false positives due to the system being unable to differ between camera shake and actual motion, along with rain and sunlight changes. The methods used to combat this were using low pass filtering to counter rain and a high pass filter to remove sunlight gradient effects and to make the image appear flatter. These filters could be used to get a range of motion frequency for a range of vehicle speeds to clean up the wake-up detection image.

*‘An Automated Vehicle License Plate Recognition System’* uses a method of weighting the pixels of a RGB image differently to produce different styles of greyscale conversion. Looking at the MATLAB documentation for im2grey it also appears to use a weighted conversion to greyscale.

15/10/2022 – new idea for detecting bounds

The standard for the UK licence plate is such that, for any given plate, there will be 7 letters enclosed within a bounded box. An idea could be to find all areas that are bounded, such as with the code seen earlier in doc, and try to find a bounded area containing 7 bounded areas within it.

16/10/2022 – testing above idea

Tried to use far and angled image for testing a worse case scenario.

![A person holding a sign

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TDKRXhpZgAATU0AKgAAAAgABAExAAIAAAALAAAQSodpAAQAAAABAAAQVoglAAQAAAABAAAgouocAAcAABAMAAAAPgAAAAAc6gAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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5dV5J5K3pWej0ZMnyh5nz0ySTy6PMqN6itSvLmREVGW7IHn8uPfRHJ5klEkkfl+XVeOT95S9tLlvYmVoyuSSfu5KgkkqR6p+ZRTklLmloFlPrqEkmySmSSeXR/HUE/meZ/sU23Lc5oxlGVhPtFQT0/y6ZcT/wDLOuuMYy3Rvb3bRIJJP+/dV5JPkqxJVSSSulwUo3RhJ2jd6hUEnmUj0zfSXu7GfMl5BJJsqOT/AFYpk8nmUn8Naxh7vNJWZq7yjZBJJ+7qvSySUzzKObnh7zI05b2PKetG3NFFcsYqW57o2lWiiuaBQNQGxRRRKTjPQBaWiiu4kloooraEVLcgWloorqUVHYklX7tTq3zUUVtKCZjIn3eZT1izRRXJ9rl6HNLTYJl+SsqTqaKKUfh5upvR2HRtimt1oopS+I36jVoaiitPsFB0ooool7uwBRRRVypRjsItxfLWrat8tFFa4X3qPM9zhrbGt4Vf/irNJ/6+Er6OguqKKxrfYMvsmla30kda0F9JJHRRVzhHnKnFWNK1n8+rEcFFFcP/AC+5eh0UYqVHme4eX5dW4I/Lk8yiisIHJzPn5ehpQfvI6n/1dFFclSTO+MVKjzPcEfzKkjjjoorI82VWUY8yepbjqxRRWlSnE9Fe7sRUzy/MkooqKcUcvMyTyPLqOf8Adx0UUVoqNXlWx3Ufe3CD/V1PHRRUQ+Dm6mfM+fl6FuCPy6s0UVwczuTzMSOSjzP3dFFerTiva8vQr7ZJ5lPSiisanxjJackdFFZQ+Ll6Fy92ehYqePzKKK1NCeOeSrEE/mUUVf8AOZF+OSp/LjooqORdzSPvbkccH7yo3Ty6KK560nHYiPvbknnUR3UdFFaU4oRJHfU/7V5lFFH2uXodEPe3Dz6kjkoorCfu7DpknmU+Sfy6KKI+9uZzIJLqo5J5JJKKK7acFyGJbgj/AHdWI6KK5TYrz3VZt1qUkf8Aq6KK6OVHOVI5PtU/7ytKC1joorOfxcvQZJJH5dRxyUUVnTLn/F5ehYjjqeGiio5mOUnHYk8zy6jkupKKK2o+9uXMI7qjzKKKmBcPe3Dy/Mo8uiis60nHYjlQR1Yoorq5UaUy1H89WNlFFcFT4uXobcqD/V1Unu/LoorWj725yld555/9XRHpUk8kckkn/bOiiorScYaAacFqkf8Ayzq3HHsoopQ97c3pj6ZRRW4wjjokkooq5xQpe7sVJ56qbPOkoorMzJ0gqT7D/wAtKKKmPvbmo+iOOiijlQBJJUEkn7yiitpxUdjOmJS+X5lFFYz+AI+9PlexJHHT6KKUoqOxdSKGU+iis6hpCKsMk/eU+iioOXmYUUUVHMzcKKKKtSftuXoc8JOW4ySOs27ooro+1y9DSZiX1cT4q/eWM9FFbr3amhnD3tz4U+NkH2W+8z/npPXk1xLRRXv0ZOVXlexwzivaFO4bKV9MeFZvM8P6bJ/yzkgjoorzcyqSjsbQdrWOssZ/Ljr2PwHP5mlWD/8ATOiivHmegju45/Lo+0UUVgVL3diOSSvhD9tHXhrHxoaBE2R6Xp1vZoPf55H/APH5Goor3cmivrM/7uxnU+BHhaXBoaVm6miivv4SfLzdTj5UQs1CrRRXJH3p6lD6mibZRRXdQiuXm6kMHfdUVFFZ1AiKIy1Wkt/loorGhJyqamM5MS4+7VZeWFFFejyq5UdiaSodtFFXVgkOOwlCmiiuSr7uxp0JI/nqzt3UUV6eHipU9TCejJQ26q0lFFRvAmO5WkU01aKK4q1NUp+6dK2BZQalT5qKK5MPXnUh7wSVhrcc07duWiiumEnLnuIhZaZtoorgrRXOWhSvepP4aKKuh9oGOVitRtRRXRiJOMBRG7TS7hRRXHL92vdK3G5LUu2iissP+8jzS3BkqUUUV6MvdjzLcgncbY8VGoXvRRXW4rkM47FtYkqdfvJRRXRThE5pFlv++KiaTdRRXVH3o6mMV1Kk09V/MO7iiisZwXPy9DtjFWJmfbTGbfRRRUhESXUrMtTW6/NRRXBCKNJPQvMvy01aKK9KhL3DkWw2Zd9V5gYTiiiipBcvN1NIPVIg3bloSM5zRRXkOTlUhc6XotCyqVLtoor2KfxcvQ5pEM0xaq7ZNFFZVvely9DeOiIzzTDxRRXzlb4ebqbIXrSN8tFFc8JOVLme4yN2pgGaKK8mp709TRCtTGoorlrFIFqQUUUqM2Ji5zX0V+z2p/4RO42dftTfyFFFZYmTk9TKW6PVaKKK5eZ8hlzDZJP3lV5JKKK55/Hy9C4+9R5nuQSSVHJJ+8oorurRUYaGfTl6EEk/l0eZRRXLKKjS5luRh/eI5JJJKqf6uiirl7uw4yco8z3JPMjkqCSiivWhFS3NpxRXkj8ulkoorCXuz5VsckvdnoU56gk+/RRVyioy5ehhP4w86oPPoorSFKEt0bzK8k3z0T+Z/wB+6KKzlFRq8q2MFJ8hUkk/5Z1B5nmf6uiitOVex5uopyftuXoR0ySSiiuWnVlz8t9DrqRViv5lQTyeXRRV4mbjsePGrKW5U31J5lFFb1pONPQ2pyZXkk2Ux5I5I/koorTBxVWfvmkvd2P/2Q==)

A black and white photo of a city at night

Description automatically generated with low confidence

Still effective, checking and all letters appear to be creating bounded zones. Interesting effect is the fisheye lens that can be seen slightly on the image above. Given that I’m using relative pixel heights for this it could be an issue.

Checking the bounding data, some interesting effects on 1080p:

Text

Description automatically generated

Both plates have clearly detectable bounded lettering, which creates 7 bounded areas. Tests at 720p also conducted:

Graphical user interface

Description automatically generated with medium confidence

Not great, pixel density is too great in some areas for plate letters to be counted as bounding areas. Seems like reducing the resolution reduces the number of pixels a fixed object size has to be represented in the image. Will try 480p with plate at closer range.



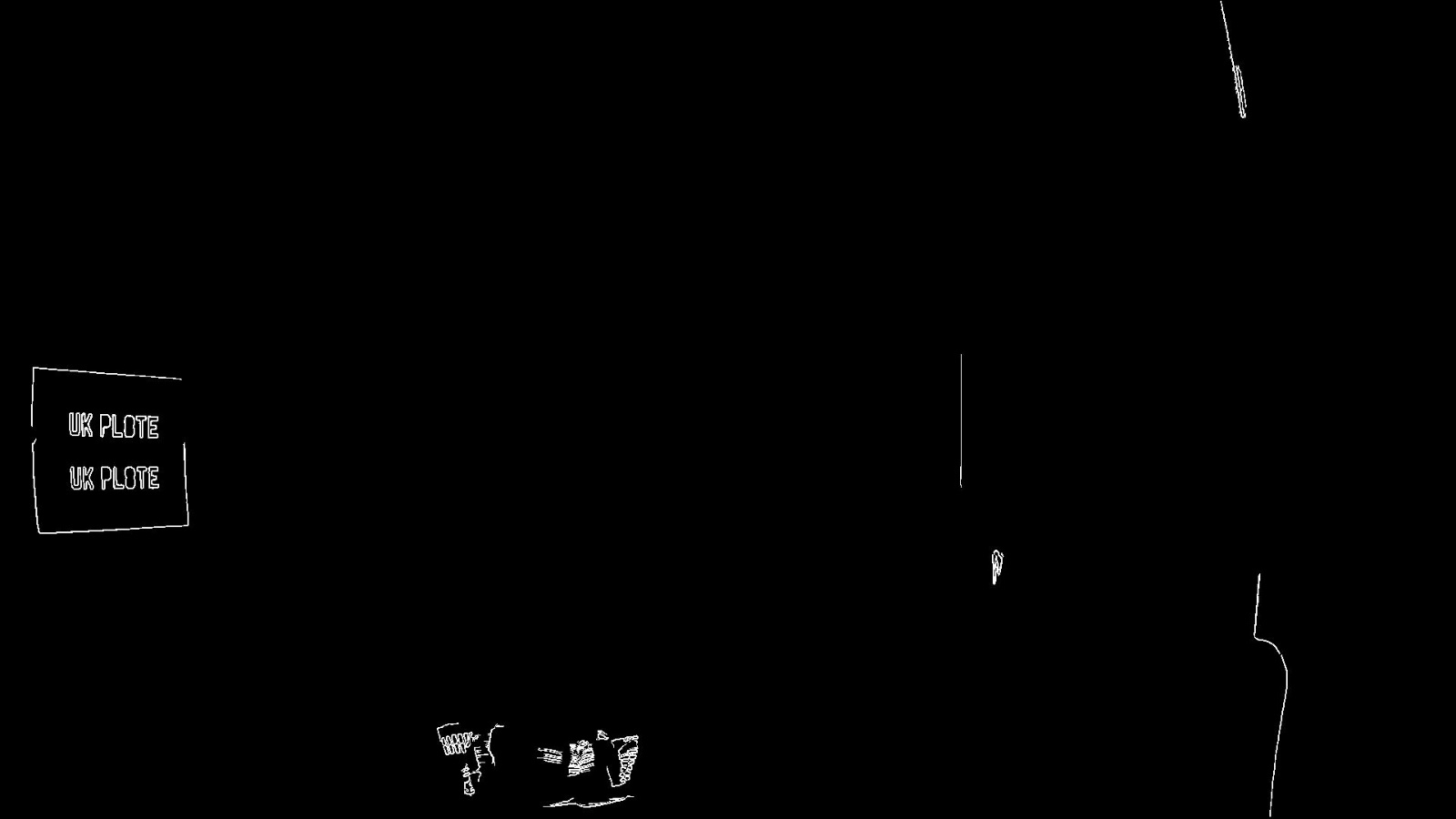
This 480p image is a closer range, hopefully better detectable.

Graphical user interface, diagram

Description automatically generated

Not much better, lettering still too pixel poor to create properly enclosed letter spaces. Notably the bounding box for the licence plate is still moderately accurate. In general I think I should aim for the highest resolution feasible when working with hardware.

Possibility of using the bwareafilt function to get all white pixel shapes that have a size within a given range:



The above is a 1080p image with filters set to take all shapes within 100-1000 pixels, not working for detection by itself but could be useful elsewhere. Problems would probably emerge as tracked plate will change pixel size across image sequence.

17/10/2022 – Video testing

Might get some more useful data if I try to work on tacking the plate across a video. Created some short footage of me walking across a room.

Found a way to split video into single frames and process those. Working on 1080p video now.

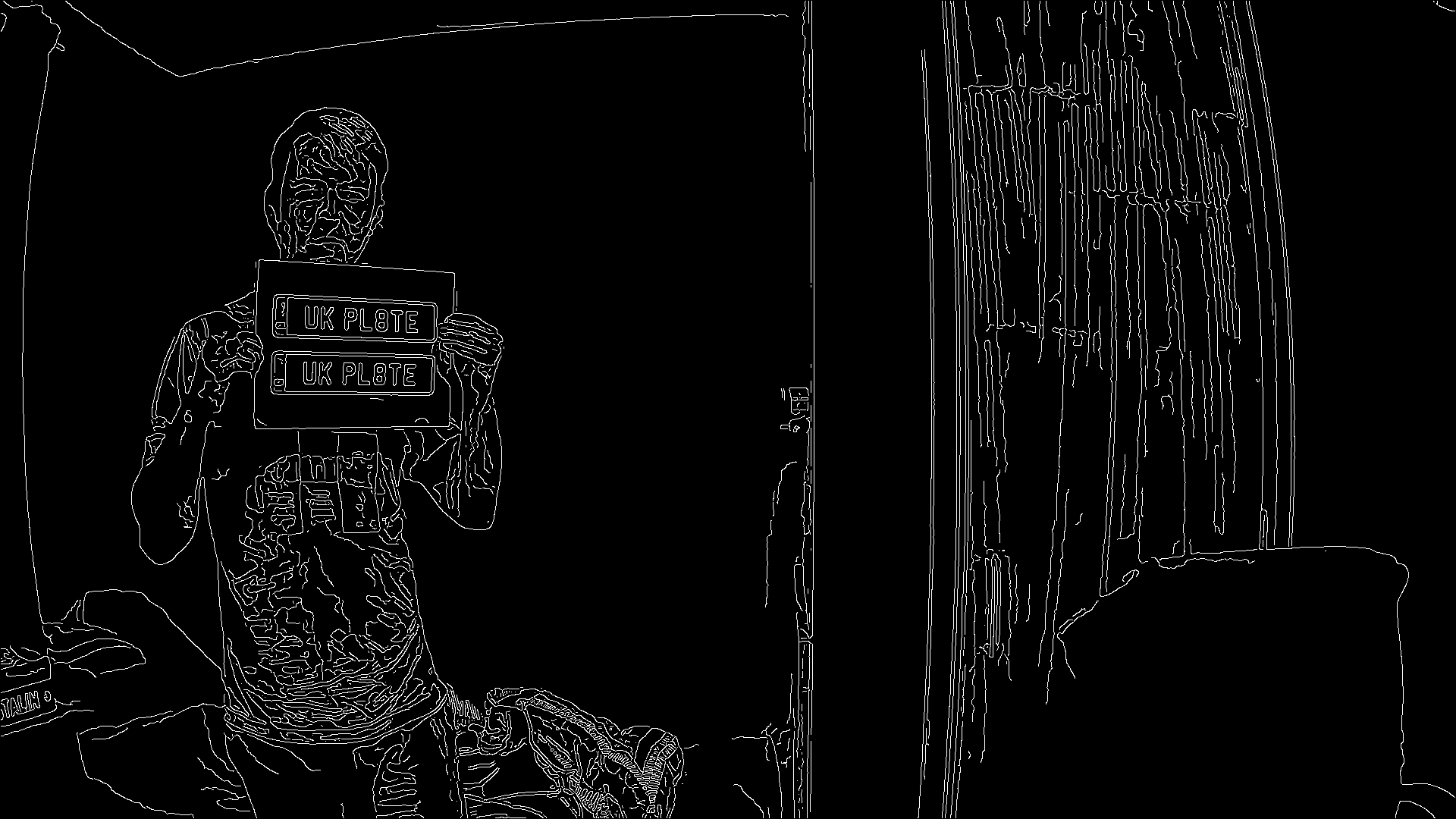


Not great, motion blur ends up being a severe problem for the system, also the angle may be too steep for the entire 

Not much better in the other direction. Maybe angle is too steep, will try to create a video simply advancing straight towards camera. Notably the processing takes a concerning long time even on desktop, hoping that most of that is MATLAB overhead and not core functionality to the algorithm.



Issue with motion can be seen quite clearly above, two images are from 10 frames apart. Motion appears to immediately destroy the edge information in the sobel filter. Could try the canny edge detection to see if any improvement is made.



Major improvement, in both image clarity while stationary as well as in motion. Some warping observed but I think understanding how the canny edge filter works is now a high priority.

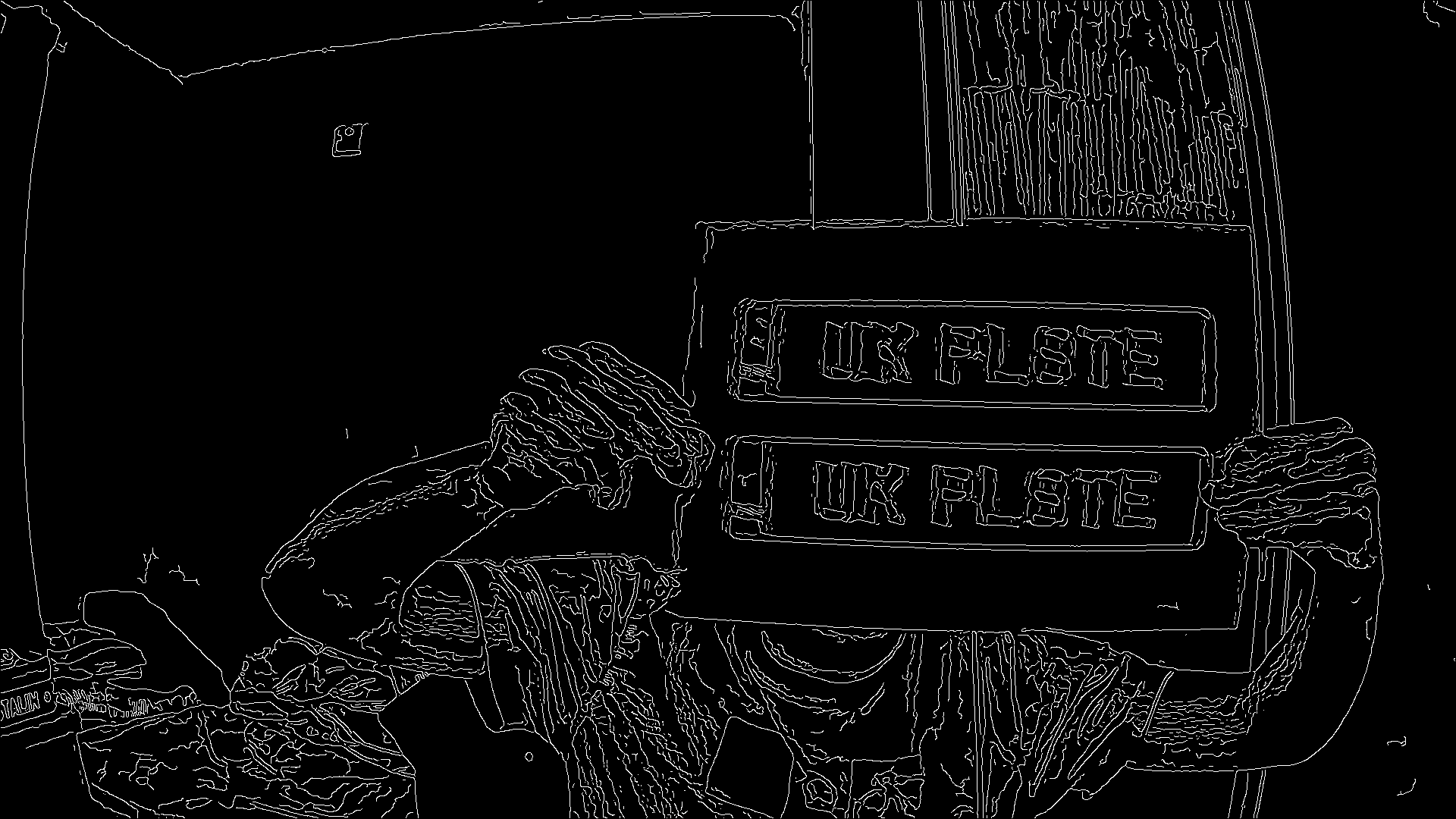


Observing the bounding data, it appears that there will still be an issue with noise from the edged image creating a mess of bounded zones. However, within the range that a plate is even detectable, there will likely be a large retention of the original shape of the plate (assuming a horizontal orientation). This could allow for looking for a specific ratio of bounded area height to width to be viable.



This image above demonstrates the effect of motion blur on my images. Having viewed images taken of speeding vehicles before, this effect is not observed. I will have to see if it is possible to correct or turn off this effect. One suggestion I have seen is to use a more robust video capture software than the windows default, such as OBS.

The above image is from OBS captured footage with MJPEG for video format, while not complete. The motion blur seems reduced.



The same image after canny edge detection seems much clearer as well. I will need to see what the result of a picture run would be for motion blur.

18/10/22 – understanding canny edge detection

Canny edge detection supposedly operates with the following steps:

1. Reducing Noise By Applying Blur.
2. Calculating (sobel) Gradient.
3. Non-Maximum Suppression.
4. Double Threshold.
5. Edge Linking.

A gaussian blur is applied in a similar way that the Sobel filter is, with a kernel creating a new pixel matrix out of the old.

19/10/2022 – cont.

A gaussian filter is used to create a kernel to apply to each pixel a weighting, similar to the graph below.Chart, surface chart

Description automatically generated

This weighting is then used to sum the pixels enclosed inside the kernel, which is then normalized and placed back at the origin pixel. This results in blurring or smoothing seen in the final image.



This would be a difficult task to carry out in image processing, as a complete Sobel filter task would need to be performed alongside another kernel filter. A property of the gaussian filter, however, is that the two elements are separable:



These 2 gaussian filters can then be ran over their respective directions and the result on the kernel will be the same as the combined equation. While this still requires polling each element within the kernel, this requires far less memory to hold 2 N tap pixel weights arrays than 1 N\*N matrix.

The storage of these values becomes even simpler by using a binomial coefficient list, which only contains positive integers, and a scaling factor applied that is the inverse of the sum of the list. I will attempt to use this information to create a gaussian filter custom to my needs.

I have made the filter, with some promising results when given to a Sobel operator.

A picture containing text, person, indoor, hand

Description automatically generated

While this image may appear to be only mildly altered, the results in Sobel when compared to an unsmoothed image are clear.

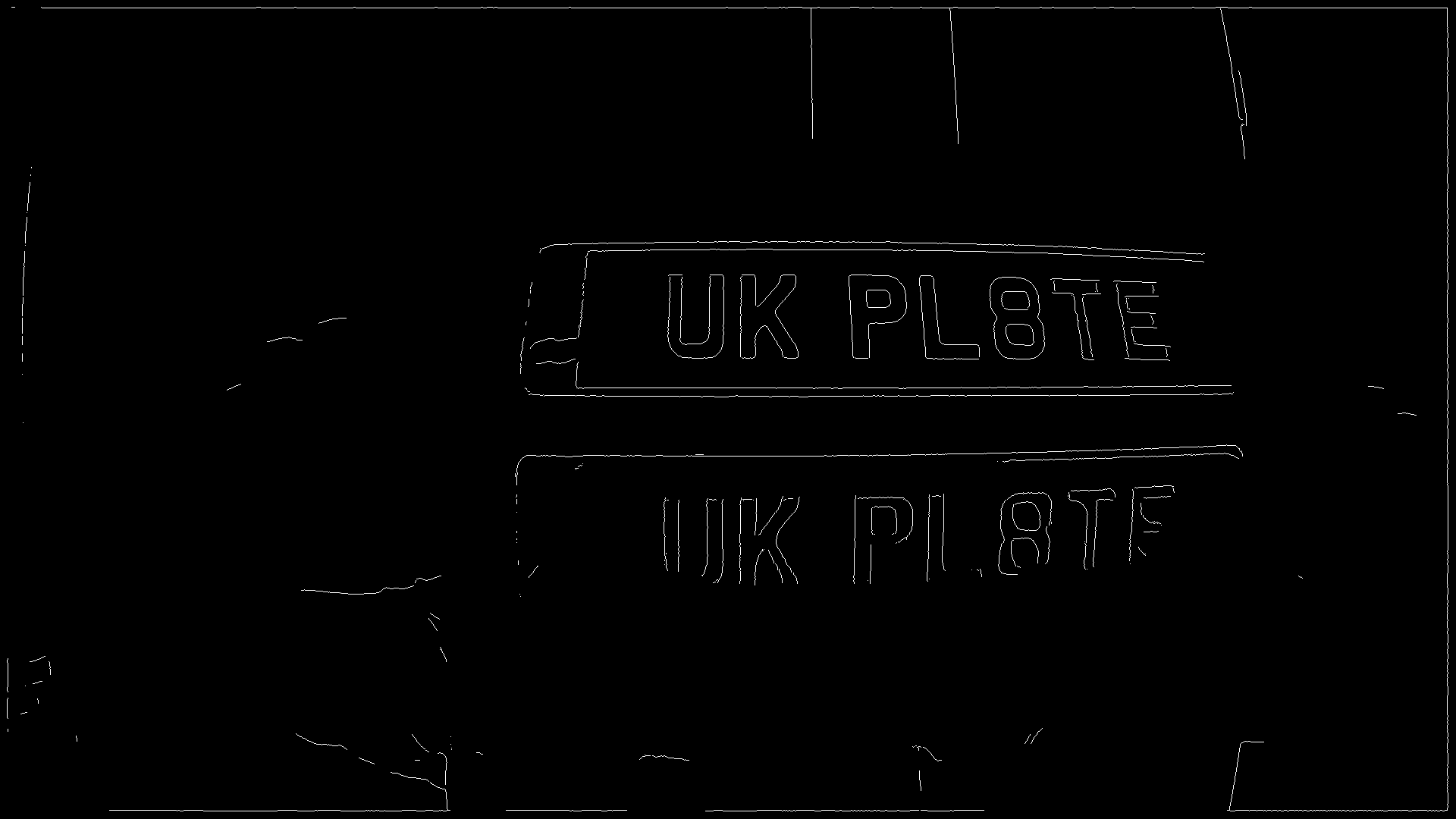
A picture containing text

Description automatically generatedA picture containing text

Description automatically generated

The bottom image compared to the top has far less noise and the letters can be read clearly in the edge detection. Testing shows that a larger kernel results in a heavier blur, the algorithm could theoretically also be run several times in order to repeatedly blur the image. But as this would require multiple image buffers and blurring seems suitable at this level, I think controlling with the kernel size is best here.

Images in with a degree of motion blur are also improved.



This however has raised an important point surrounding the use of the whole licence plate for tracking the vehicle. The lettering is perhaps even more standardized that the size of the plate, perhaps a bounding box looking for the letters could be gathered and averaged for all letters found to get an average location per image that can be the basis of tracking.

20/10/2022 – letter tracking idea

Looking further into my idea of letter tracking, I used my algorithm to find the edges of a real photo, and the results seem encouraging when using the bounding boxes:

A picture containing text

Description automatically generated

This seems quite promising; all the letters seem to be bounded with a consistent size between them. The licence plate lines are also nonvisible after filtering, confirming a suspicion that they are less useful and consistent than the lettering. The lettering also appears to be more strictly defined in the INF104 document that the actual size of the licence plate.

The full specification for the letters is:

* 1. characters must be 79mm tall
  2. characters (except the number 1 or letter I) must be 50mm wide
  3. the character stroke (the thickness of the black print) must be 14mm
  4. the space between characters must be 11mm
  5. the space between the age identifier and the random letters must be 33mm
  6. the margins at the top, bottom and side of the plate must be 11mm
  7. vertical space between the age identifier and the random letters must be 19mm

Points 1 and 2 seem the most relevant here. Taking the ratio of letter width to height (50:79 -> 1:1.58) gives me a tool to look for bounded areas fitting this size ratio (W:H - > x:y distance). By taking y/x for a given bounding box and checking its closeness to 1.58 I could potentially extract the bounding boxes for all the letters.

Having attempted to use my own custom Sobel filter code and comparing it to the MATLAB provided Sobel, I can see some clear differences:

Text

Description automatically generated

Text

Description automatically generated

My code on the bottom clearly generates thicker boarders and occasionally leaves holes in the letters, meaning the bounding box fails to detect them. I suspect some degree of linking and line thinning is going on behind the MATLAB code. I will use the MATLAB Sobel code for now as it seems more consistent.

Text

Description automatically generated

This was captured with 5% tolerance on the size of the letters. Not a great capture, will try a higher tolerance.A screenshot of a computer

Description automatically generated with medium confidence

A lot of these captures are outright incorrect, something is likely wrong with my code.

Graphical user interface

Description automatically generated

Turns out I was misinterpreting the return from the region finder incorrectly, at 10% tolerance the letters appear to be very easy to extract, nothing else was caught in this region filter.

Graphical user interface

Description automatically generated

Performing this filter on the noisy motion blur image had less accurate results. Increasing the tolerance had some positive effect but created a large number of false positives. Perhaps a maximum/minimum region size should be implemented for positives, perhaps a region should be within 1-15% of an images total size to be valid.

Graphical user interface

Description automatically generated

At 20% outside range tolerance in the above. My plan is to then take a cumulative average of these bounding boxes to get an average position to track the vehicle with.

Graphical user interface

Description automatically generated

The ‘average’ bounding box is shown in blue. While its location is somewhat accurate, some filtering of false positives is needed to prevent skewing.

24/10/2022 – filtering of false positives

I have a set of ideas that could be used together to filter the false positives. First perhaps a crude filter should be used to remove obvious fails, a 5-20% of image size bounding box limit should filter out the tiny areas that were picked up.

Realized something, area scales quickly with image size, and any small section of area will be much smaller than the total area of an image. This is probably why my algorithm has 0 hits for valid boxes as 5% of this size is still immense compared to any bounding box. Might want to try width or height bounding as this scales linearly with the image size, something percentages work well with.

Graphical user interface

Description automatically generated

Width bounding within 5-20% of image size appears to work very well, average box is well centered.

A screenshot of a computer screen

Description automatically generated with low confidence

This technique seems to need some refining based on image size (above is 4608x3456).

A picture containing outdoor object, web

Description automatically generated

Even with threshold adjustments (1-10% for above), it seems that further detail will need to be given to the bounding boxes I select.

Another idea I had was to take the biggest set of cords that were within a certain range of each other. The symbols on a number plate are relatively well grouped together. What could be done is some minor statistics on the coordinates of the bounding boxes to find the largest set grouped within a certain x and y range of each other. This should work as, if other filtering has worked properly, the system should be detecting the highest density of boxes at the licence plate.

Background pattern

Description automatically generated

The boxes that pass the ratio test are in red, passes for the size limit are in yellow and the closely grouped set is in green with the average of the set in blue. As can be seen there was a previously unknown group of areas in the windows. This is technically my algorithm working correctly, as this appears to be the most consistent and lined up set of bounding boxes in the image.

I think a further amount of selection will be needed, one idea I thought of previously was originally a method of saving processing time. Image subtraction could be used to find the area of activity, and a bounding box drawn to create a sub image to only work on areas where motion was detected. With this method I could exclude all stationary elements and only have my algorithms ‘observe’ the moving vehicle, ignoring anything that would be otherwise hard to filter out.

25/10/2022 – Ordering parts

Ordered a Pi Pico. Ordered a small greyscale SPI camera module: <https://thepihut.com/products/qvga-spi-camera-module-for-raspberry-pi-pico-hm01b0>

Ordered a 5MP SPI camera module from university requisitions: <https://www.amazon.co.uk/Arducam-Module-Megapixels-Arduino-Mega2560/dp/B013JUKZ48>

27/10/22 – motion masking

My aim today is to create a system that can take video and create a bounding box based on where it thinks motion has occurred. It will then use this system to mask the frame and output.



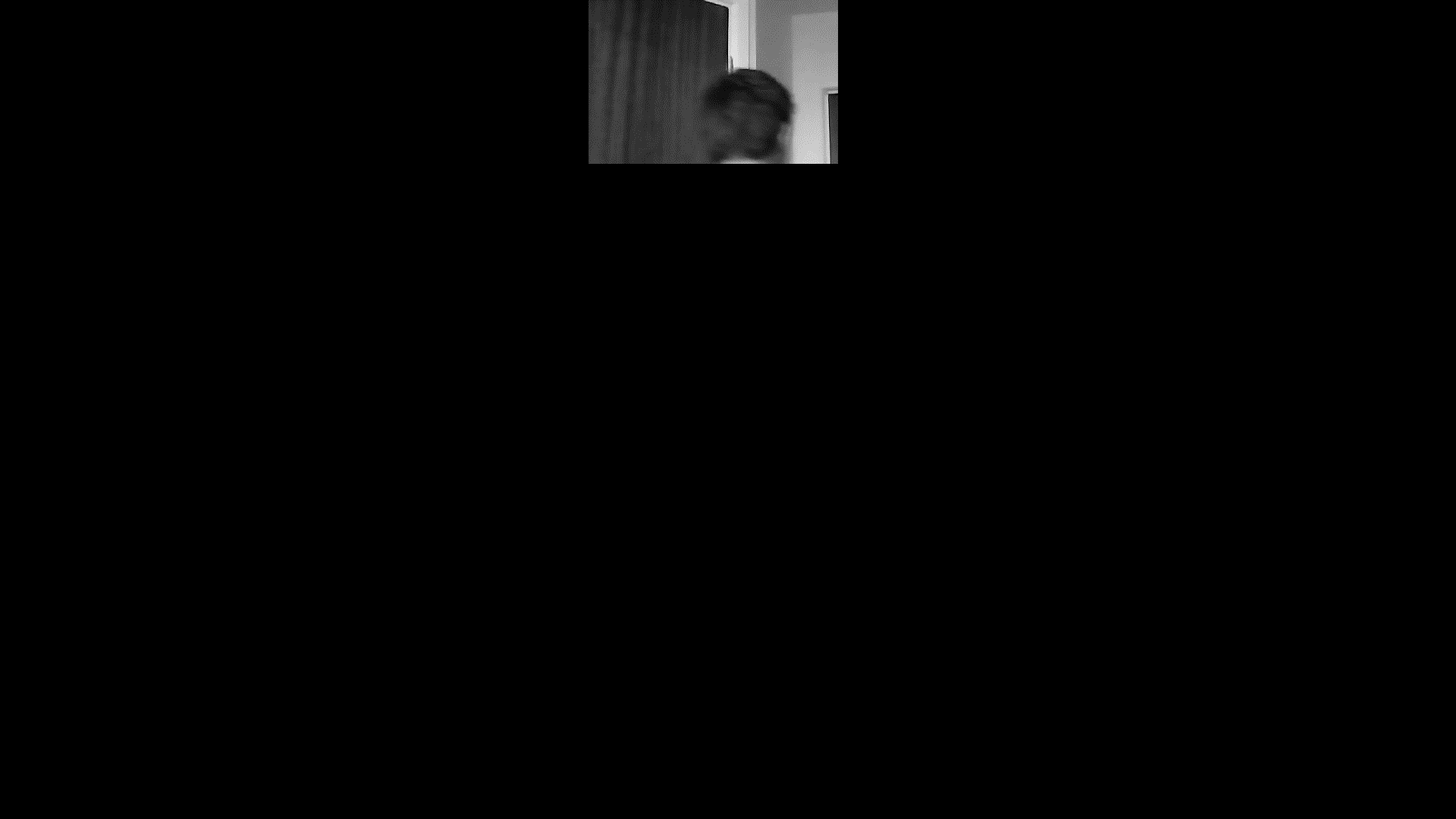
Using a simple image subtraction function, the current frame has been subtracted from the baseline. Some noise cleaning will need to occur, but otherwise this seems suitable for creating a bounding box algorithm for.



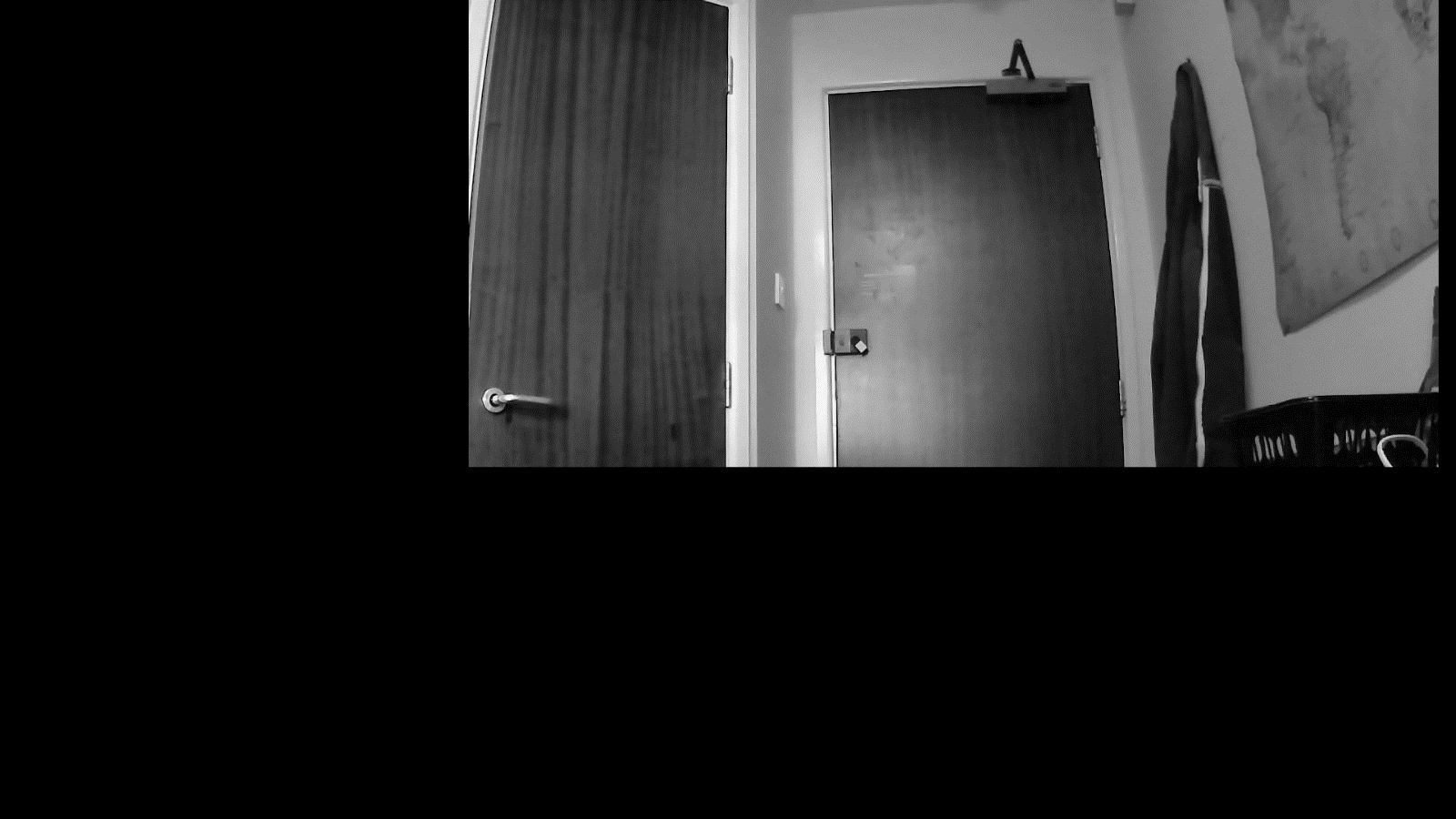
This seems to be less overall noisy, although this does in turn introduce the need to perform blurring on the entire image. Perhaps the bounding box can be constructed without the blurring.

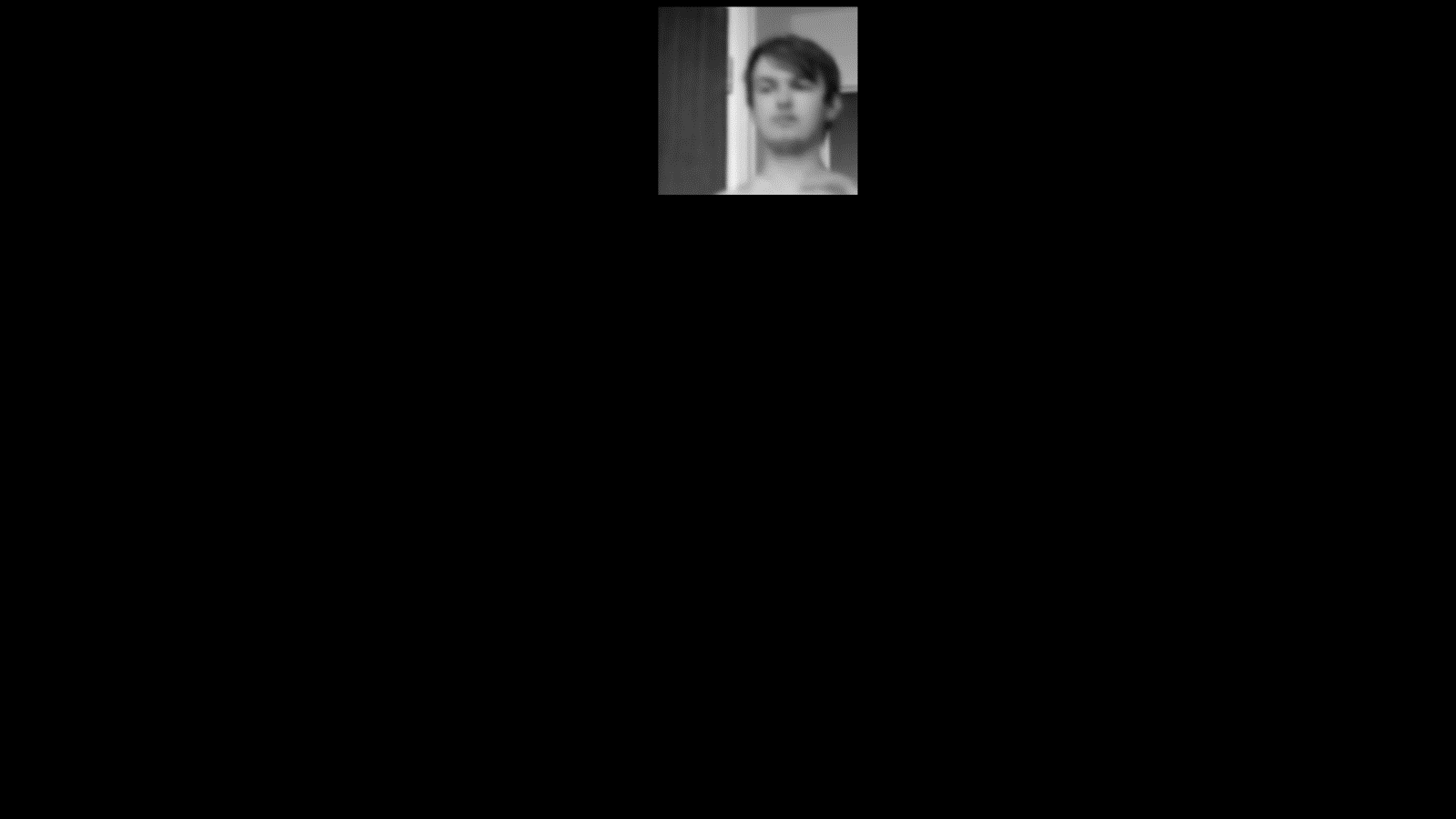


This was done without the blurring, it seems to work, despite the result being inverted to what I would want. My logic appears sound.



The primary issue here appears to be that the algorithm isn’t sensitive enough, this is fine and controllable, but I was hoping that the motion would be more prominent.

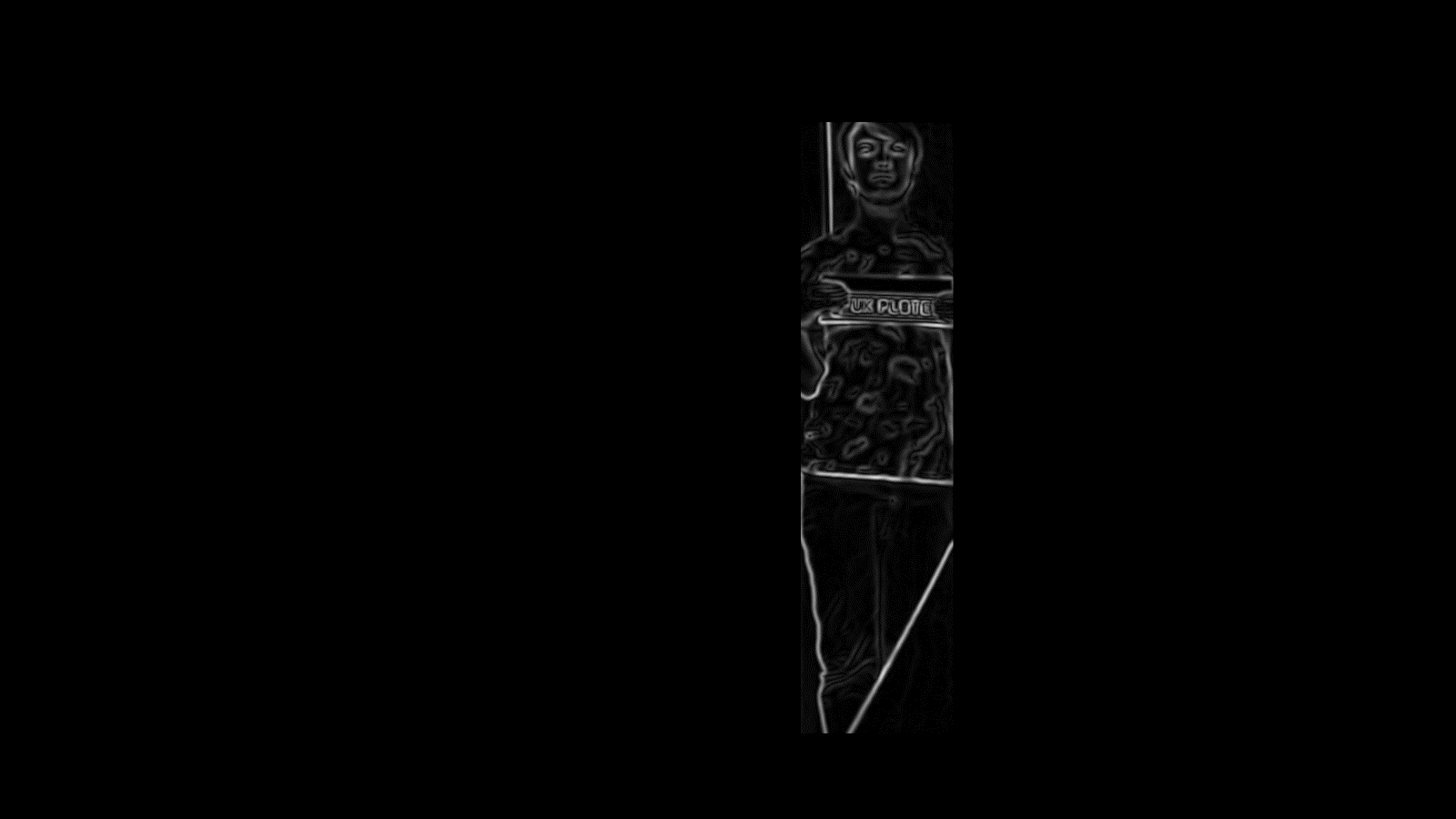


Taking the sensitivity down hasn’t fixed the problem, I think the gaussian blur will be necessary.

This does not seem much of an improvement. Even controlling the threshold for motion lower seems to not solve this problem. I will need to figure out if my footage is bad or my algorithm is.

29/10/2022 – application of sobel

New idea, since noise appears to be the issue here, what if both the background and new frame had sobel applied to them. This could allow for a greater level of differentiation of the useful information.



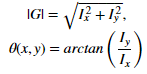
This appears to be far more effective. The unfortunate part is that this means that the 2 more intensive edge detection steps, gaussian blur and Sobel filter, need to be performed on the entire image before the reduced image can be used.



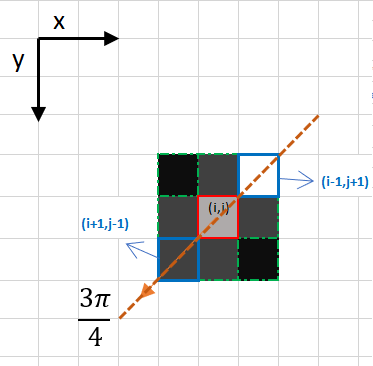
Still, with some controlling for the threshold where motion is detected. This seems to be a very effective way to bound the search area for the licence plate numbers.

29/10/2022 – Theta and non-maximum suppression

Apparently in the Sobel filter there is a second value produced for each pixel besides intensity, edge direction or angle.



This angle is then used to perform non-maximum suppression.



For a given pixels direction, the two adjacent pixels in that direction are compared. The pixel with the highest value is preserved, and the centre pixel is set to 0, unless the centre pixel itself is the highest, in which case it is preserved.

Preserving angles is definitely a problem for storage, as doubles would be far to costly in this amount. The fact that there are only 4 unique directions could help me here (up->down and down->up result in identical operations). If I can find a way to skip the arctan function and calculate the result directly, then I could save a large amount of time and memory.

Finding these angles, and converting them out of radians, we can see some pattern to their values.

Table

Description automatically generated

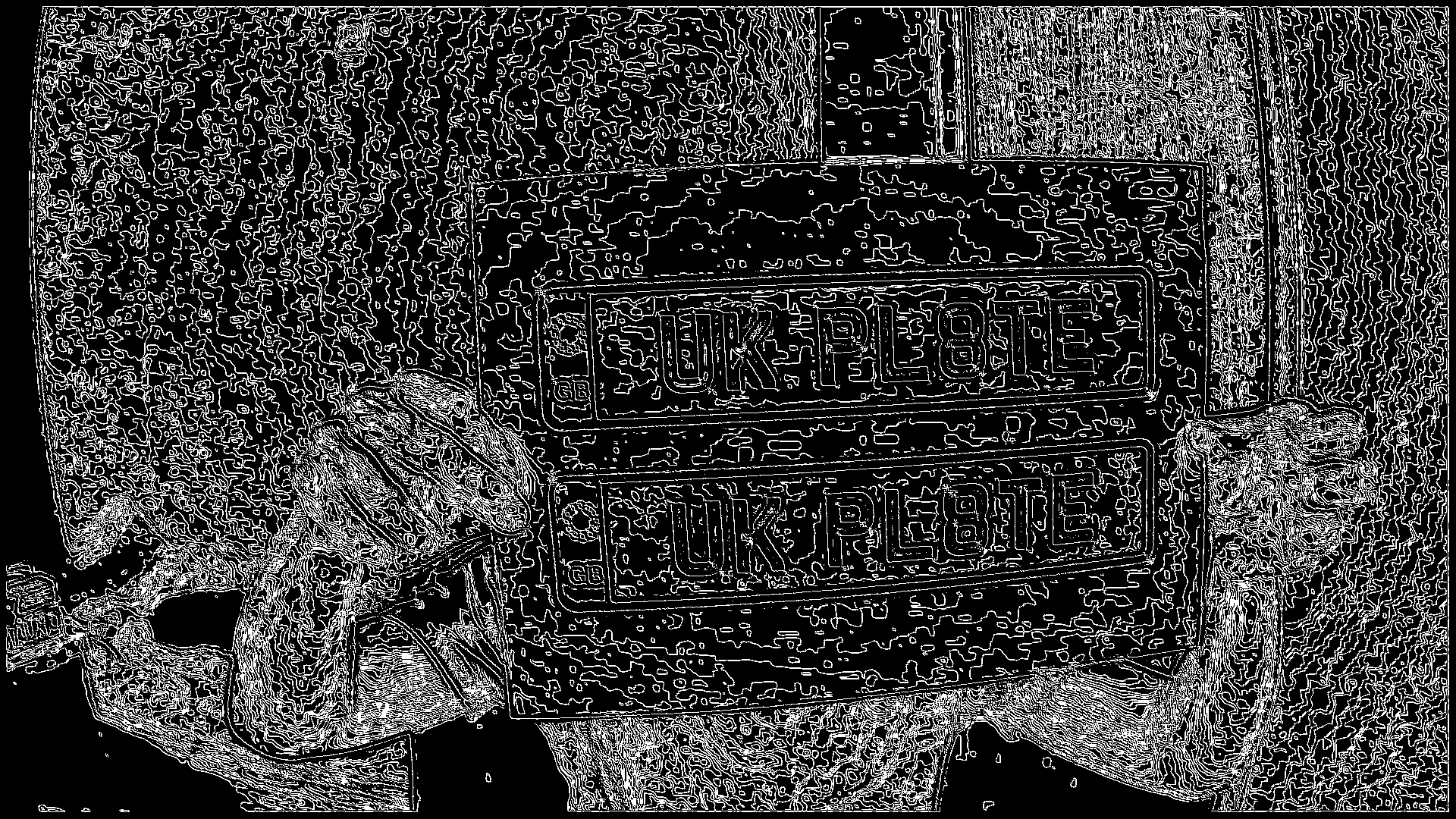
From this we can already identify 3 of the 4 possible states: If Gy = 0 -> Ang = 0 (up-down). If Gx = 0 -> Ang = 90 (left-right). If Gx and Gy are both have same sign -> Ang = 45 (bottomLeft-UpperRight).

The fourth state can be identified as being when Gx xor Gy are negative, creating Ang = -45 (UpperLeft-BottomRight).

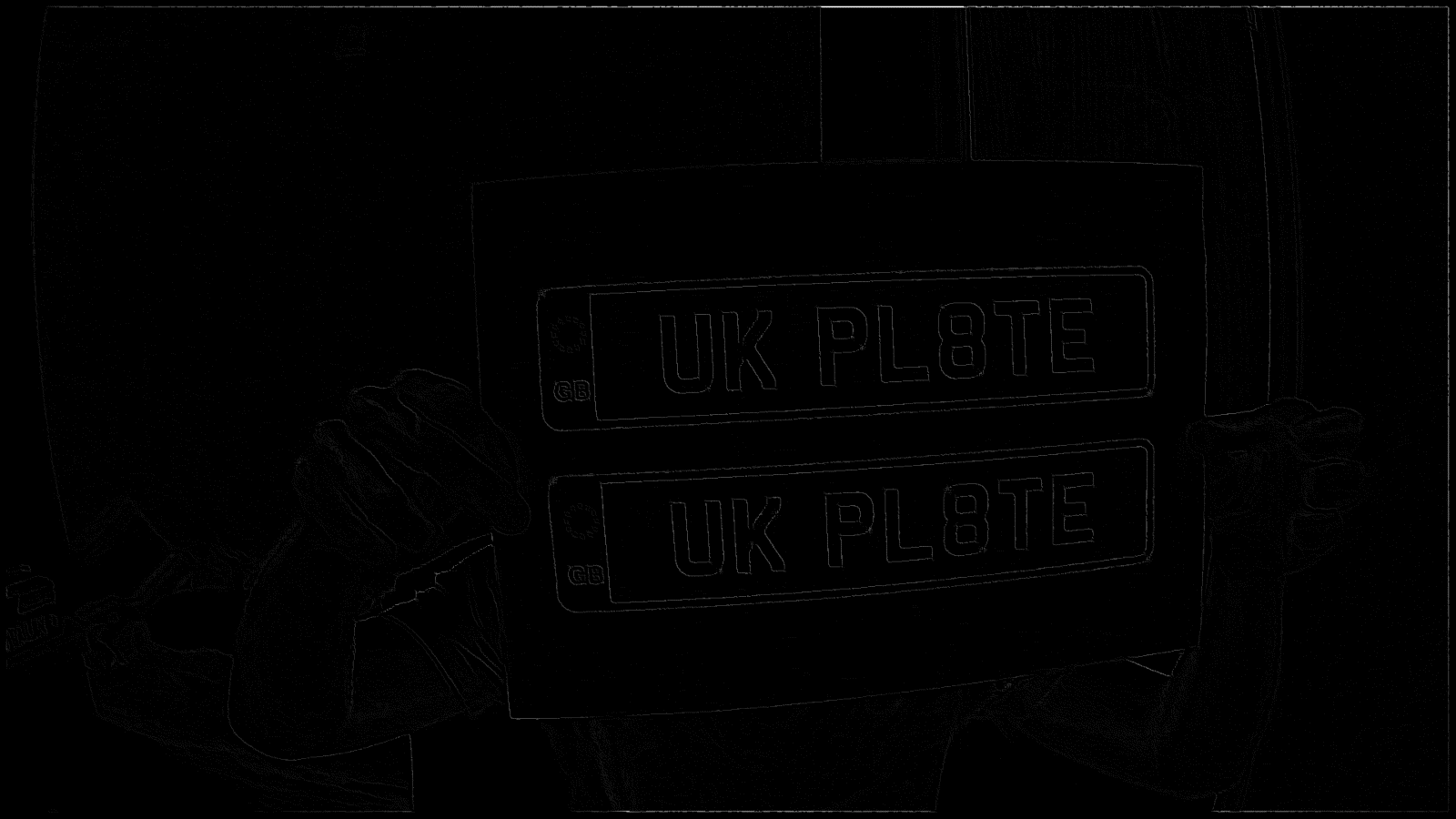
This covers all the possible directions. Testing will need to be conducted to see the results of a system that applies this principle to remove non-maximums.

01/11/2022 – Implementing directionality

Using the above idea, I will now try to create a function that can perform the suppression.



While visually interesting, this is not correct.



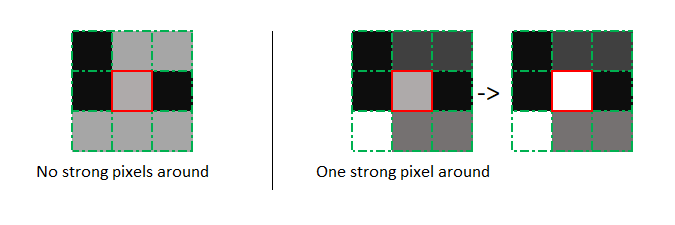
This seems to be working better, converting back to uint8 array seems to correct this. The algorithm seems to work well to at least set all background noise to a very low level. Setting a threshold for a filtering system my be able to extract the stronger pixels.



This seems to work well, but there are several breaks in the lines enclosing the letters, also something will have to be done about the border pixels resulting from the kernel of the gauss and Sobel filters. Some kind of edge linking will have to be performed to double bound the pixels on the image.

02/11/2022 – Pixel hysteresis

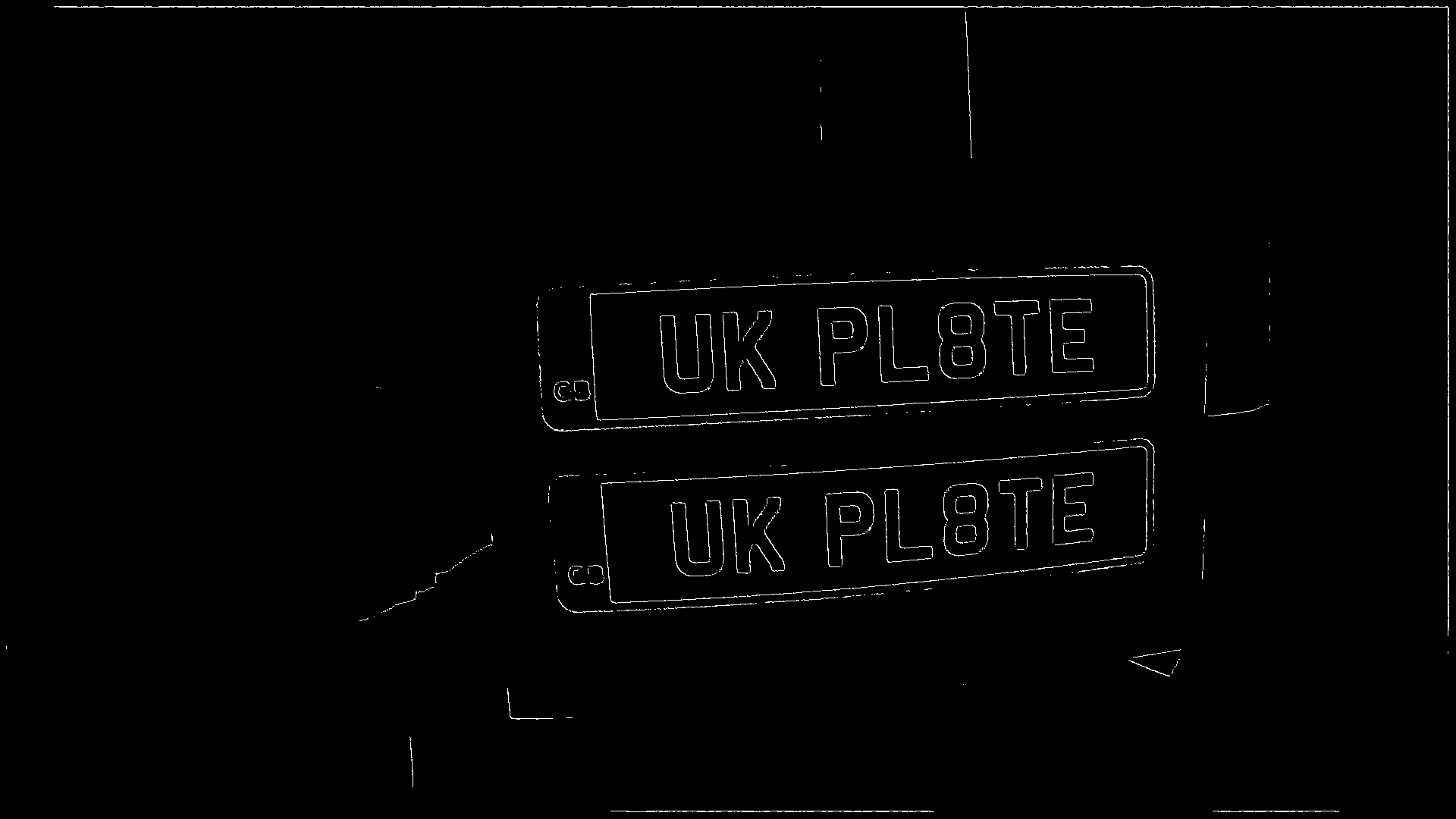
A suggested mode of hysteresis was proposed by the same website that gave the non-max suppression technique. The idea is that a pixel should be set to a ‘strong’ or true value only if it or at least 1 pixel surrounding it were above a certain threshold, else it should be set to a false value.



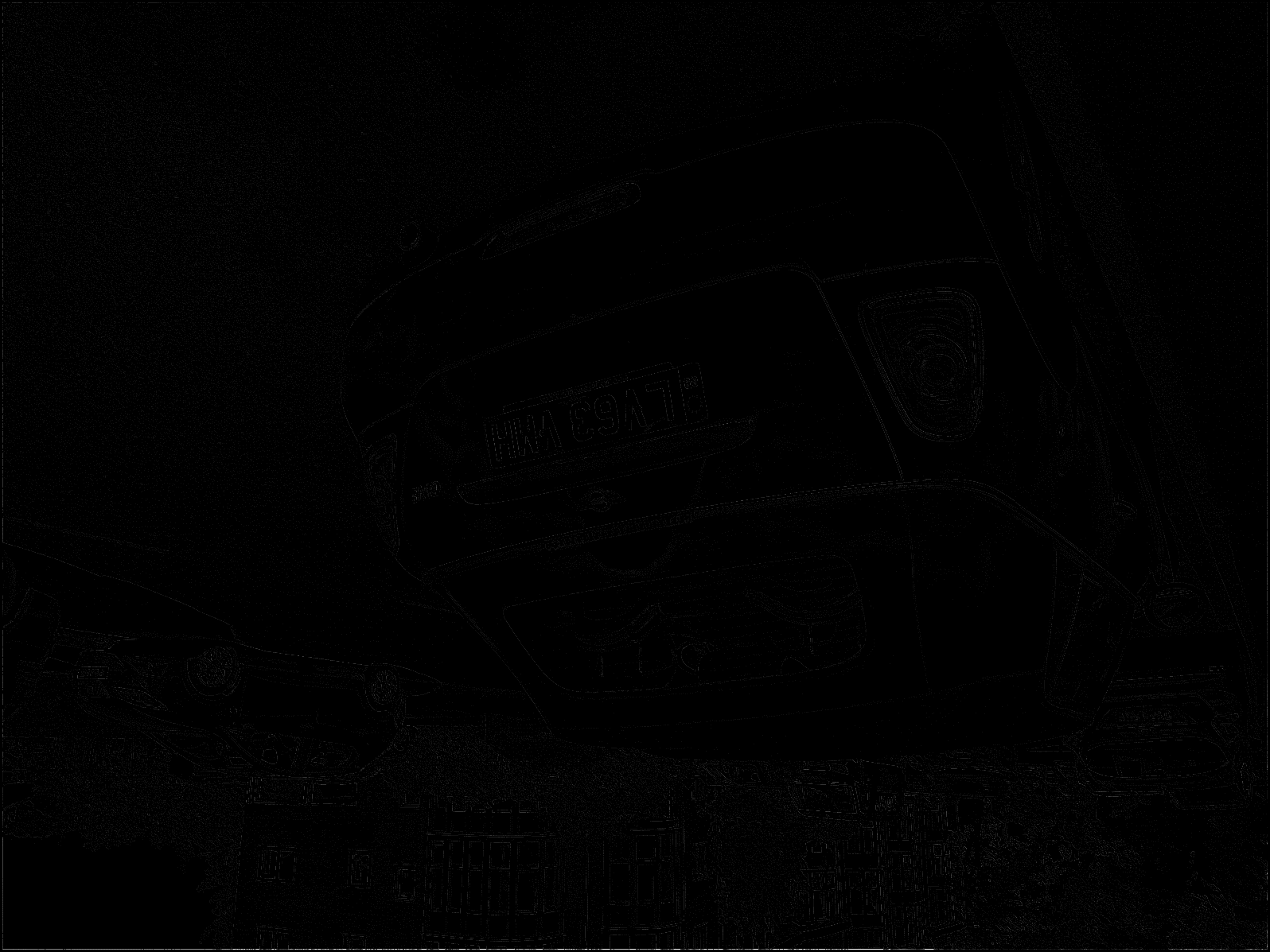
This should perform edge linking, where edges that have pixels that fall below the threshold don’t get broken.



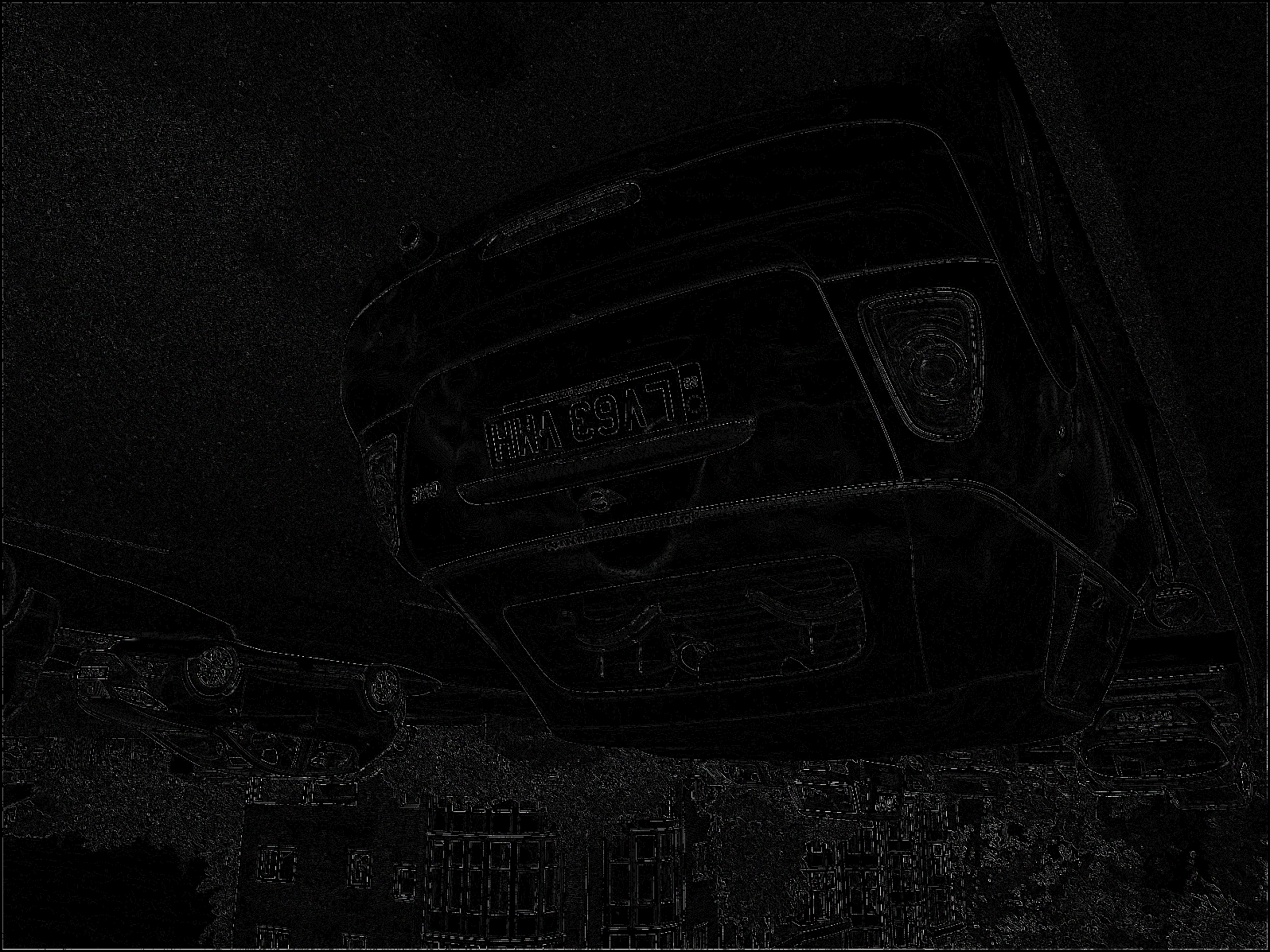
This seems to have worked fairly well, a minor issue is that the threshold had to be set low in order to capture the full bounded area. Additionally, this line is fairly thick. Maybe setting the requirement to 2 adjacent strong pixels will result in a thinner edge line.



The above was edge linked with a requirement of 6 adjacent pixels. Testing several values for pixel requirements, there seems to be a drop-off in what is filtered after 5 pixels, so this could be set as the filter level.



One issue is that after the suppression algorithm the image becomes extremely dim. This is likely the cumulative effects of so many filters on the image, what could be done is a simple doubling of every pixel after the suppression stage. This could be beneficial, as it would increase pixels with higher edge coefficients than lower pixels.



Scaling by a factor of 4 appears to work well.

Text

Description automatically generated

A further problem appears to be that there are small gaps in many edges despite the linking, this could be fixed by expanding the range of adjacency to 2 or 3 pixels away.

Text

Description automatically generated

While having an odd appearance, there appears to be far less gaps in the edges when the radius of adjacency is increased to 3 pixels. This seems to be a mostly effective method for edge linking for noisy images.



On the use of the existing bounding tools, the problems revealed themselves. It will be necessary to simply allow bounded areas to have gaps of a few pixels to allow for this sort of noise in the image. This will likely have to be resolved in the creation of my own bespoke bounding box algorithm.

04/11/2022 – Review of computational needs

I briefly wanted to review what the actual computational needs of processing the expected 1280x720p image would be, to establish whether or not a microcontroller would suffice to perform these calculations in good time.

I will take the Sobel filter and Gaussian blurring stages as the basis of the calculations, as they by far are the most computationally intense, being the only stage involving calculations instead of simple comparison.

Gaussian blur:

Given the kernel size being variable I will select a size of 11 to be a centred size. Taking the convolution output size algorithm to be: (X – ceiling(kernelLen))x(Y - ceiling(kernelLen)) we are left with (1280 - 6)x(720 - 6) = 909636 pixels.

A Gaussian filter involves multiplying and summing all values inside the kernel by a set of integer constants, then dividing by a constant. 11x11 = 144 multiplications + 144 sums + 144 divisions. If we assume that each of these actions will take on average 5 cycles of a CPU, then for each calculated pixel: (144+144+144)\*5 = 2160 cycles per pixel.

Taking the total number of pixels needing calculation and the calculations per pixel: 909636 \* 3456 = 1.965e9 cycles needed to calculate the whole image.

Taking the clock speed of the Raspberry PI Pico to be 133MHz, this means processing an entire image with a gaussian filter alone would take around 15 seconds. This is discounting the necessity of writing and reading to memory and camera interfacing.

Clearly, something will need to be done to reduce the overall image size, otherwise even more powerful devices such as a full PI will struggle.

A solution I have considered is to use another camera in conjunction to the full resolution camera. This camera is a smaller monochrome device (320x320p) that should be easier to process. The reason I am not using this camera is that the resolution may be too low to get any useful data from when capturing images (this will have to be further tested). What this camera could be used for is as a motion monitor, the motion detection could be done with this camera, and the area of motion upscaled and sent to the larger resolution camera to only process that specific area.

Taking a 5 length kernel for the Gauss filter: (320-3)\*(320-3) = 100489 pixels. 5^2\*5 = 125 calculations per pixel. 100489 \* 125 = 12.561e6. This would require a processing time of 0.1 seconds to compute.

For the Sobel filter, a necessary part of motion detection: (kernel size = 3)

(320 - 2)\*(320 - 2) \* (3^2 \* 5) = 4.55e6. The Sobel filter would require 0.035 seconds to be calculated.

Assuming basic image subtraction and threshold testing would take around 0.02 seconds, this totals 0.155 seconds to create a basic coordinate set for the detected motion. These coordinates could then be saved alongside the image from the full resolution camera to be scaled up and used to reduce the resolution of the image.

Assuming an extra 0.25 seconds will be needed to fully transfer the full resolution image from the camera buffer to a storage medium. I get a time per (motion detected) image of 0.405 seconds. This results in ~2.47 images per second as the sheer maximum my likely system could handle. Assuming my system could reasonably expect to detect a vehicle at a 20m distance, if a vehicle was moving 40mph (17.88 m/s) then my system would acquire (20/17.88)\*2.47 = 2.76 -> floor -> 2 images of it. This is likely too low to make an accurate assessment of velocity.

Unless some way to cheapen the motion detection process, then it appears that the idea of using a cheap microcontroller is unfeasible. This is leaving aside the memory issues which would only further plague the system with is 264kB SRAM memory. While this could be upgraded with an external chip, this could only slow the system down further when performing reads.

Despite this, the basic idea of using the lower resolution camera is likely to be useful in general. A full PI model 3B+ has a clock speed of 1.4GHz, which would allow it to process the motion detection in 0.0122 seconds for filtering and likely a very short period of time for all other steps. The storage would be quicker as well with threading potentially able to transfer the old full resolution image to storage while the new low-resolution image is being processed.

Additionally, very few microcontrollers are built to natively include handling of doubles, instead using several int variables behind the scenes. This slows calculation and increases memory usage further; a PI and other micro-computers can handle doubles along with many other types natively so may be a better choice for this type of processing.

A review of devices will have to take place, with some though given to specially developed microcontrollers, but I do not think it will be likely that any specialist device would be cost effective for the specification of a cheap speed tracking device. The PI and other microcomputers seem distinctly levelled to meet the mid-cost high memory application I am going for.

05/11/2022 – Bounding box creation code

I will need to develop code that can dynamically find the bounding coordinates of each joined set of high pixels in the output binarized image from the edge detection process. The current method I am using utilizes the ‘regionprops’ function from MATLAB, so this seems to be a good place to start.

Looking at the code, I can see that it produces a vector output structured as so: [Xorigin, Yorigin, width, length]. This doesn’t directly tell me how the bounding box was created, but it has led me to think about how to ‘grab’ the upper and lower bounds for a section of pixels.

What I need to do, for any given collection of high pixels that are considered ‘adjacent’ to each other, is to find the lowest and highest x and y cords (all of these cords could be from different pixels) from this collection. This should result in the coordinates needed to bound the given collection and thus the shape they make up.

Perhaps after this the collection of adjacent pixels could be set low so to not interfere with any further shape detection. When all pixels have been examined, the collection of bounding boxes could be mapped back onto the original image to show detected shapes. This method of shape detection also bypasses the problem with single pixel breaks in the shapes of many letters.

An algorithm will be needed to gather the coordinates for every pixel within a shape. Perhaps what could be done is this:

1. Search the image line by line for a positive pixel
2. Once found create two lists for checked and unchecked pixels.
3. Add the current pixel to the checked list
4. Check all adjacent pixels surrounding the current pixel, if positive, check if the positive pixel is contained within the checked pixels list (or the unchecked list).
5. If the pixel is not in the either list, add the pixel to the unchecked list.
6. Once all pixels surrounding the current pixel have been checked, pop the next pixel in the unchecked list to be the current pixel and repeat from step 3.
7. If the unchecked list is empty, then the checked list will be the complete set of all adjacent positive pixels in the shape.
8. Take the lowest/highest x and y values from this list to get the bounding box edges.
9. Add these coordinates to a list and set all pixels inside the checked list to negative. Then repeat from step 1.

Implementing this will be mildly difficult but far from impossible.

06/11/2022 – Implementation continues

One issue I ran into with my algorithm is that it loops forever if the unchecked list is not also checked for containing a copy of the current pixel. A correction has been amended to the algorithm above.

Testing the algorithm for the first time, it takes a long time (<30mins) to complete 1 image. It seems unlikely this will improve, so some kind of optimization must be found. I think a good place to start would be the ‘check both lists for containing found pixel’ step. As the size of the checked pixel list expands, this could very rapidly become a geometric calculation as each pixel needs to be checked inside both lists.

A potential solution could be to keep the two lists, but the moment a pixel is logged in the unchecked list, set it to false. This would mean that it could never be ‘discovered’ as an adjacent pixel again. Having tried this method, this dramatically speeds up the algorithm, with shapes of less than 1000 pixels being completed nearly instantly and over 2500 taking around half a second. In MATLAB all code is interpreted and heavily object based, so there is a large potential for heavy optimizing when working in C++ by using pointers and other quicker methods of switching, along with the general speed improvements of using complied code.

Graphical user interface

Description automatically generated

Regardless of other optimization concerns, I have now created an algorithm that can return a set of bounding boxes for all continuous shapes in a binary image.

Additional optimizations could include the ability to not even need to collect the set of checked pixels, just compare the max/min x and y values at the point of pixel discovery and then black the pixel out. Implementing this appears to save me around 3.5 seconds in the processing of the whole image, a great time saving.

Additionally, I have found the new tic; toc function in MATLAB, which is very convenient for showing the elapsed time between the tic and toc commands. I will use this to find the respective weight of all the steps in my filtering process.

I can now get the processing time needed for each of my steps:

* Gaussian blur: 5.135774 sec
* Sobel filter: 4.750566 sec
* Non-max suppression: 0.464676 sec
* Scaling: 0.002188 sec
* Edge linking: 1.658468 sec
* Bounding: 0.618417 sec

Summing this time I get 12.63017 seconds for a full 1080p image to be processed, not including initial reading of image into memory. Assuming that processing time scales linearly with pixel count in an image, a 720p image should be at least a quarter faster to process.

I have made a collection of test images at 720p at various distances from a vehicles licence plate to test the sizes of the found bounding boxes.

A hand holding a yellow object in front of a car

Description automatically generated with medium confidence

The above image was taken at 1m from the plate. Using this image to test the speed of my algorithm should be suitable.

Text

Description automatically generated with low confidence

It seems to have performed quite well.

The timing for the steps for this 720p image is:

* Gaussian blur: 2.274873 sec
* Sobel filter: 1.989078 sec
* Non-max suppression: 0.248518 sec
* Scaling: 0.001233 sec
* Edge linking: 0.701243 sec
* Bounding: 0.715391 sec

These results sum to 5.93 seconds, a promising result, but not as much a reduction from 1080p as I had hoped. Noticeably the gaussian blur and the Sobel filter diverge when it comes to decrease, and the bounding step appeared to take longer. This was before any filter settings from 1080p were changed, changing the gauss kernel size and adjacency requirements should result in a better optimized filter.

Changing the major settings to:

* gauss\_kernel\_len = 9
* adj\_strongs\_req = 4
* adjacency = 3 (adjacency is the middle-edge length of the square that surrounds the current pixel where adjacent pixels are inside)

I got the result:

* Gaussian blur: 1.606259 sec
* Sobel filter: 1.993386 sec
* Non-max suppression: 0.245612sec
* Scaling: 0.001041 sec
* Edge linking: 0.745828 sec
* Bounding: 1.517400 sec

The gaussian time save is significant, but it is wiped out by the increase in the linking and bounding time, pushing the total to 6.1 seconds. The raise in the linking is obvious due to the large number of checks per pixel but the bounding is stranger, especially as it is larger. The explanation I can think of is that the bounder is having to handle a larger number of positive pixels created by the linker and thus has to bound larger shapes. This could be resolved by reducing the linker adjacency but increasing the bounder adjacency.

Changing the major settings to:

* gauss\_kernel\_len = 9
* adj\_strongs\_req = 3
* linker\_adjacency = 1
* bounder\_ adjacency = 3

I got the result:

* Gaussian blur: 1.598152 sec
* Sobel filter: 1.987469 sec
* Non-max suppression: 0.243727 sec
* Scaling: 0.001062 sec
* Edge linking: 0.697193 sec
* Bounding: 1.030380 sec

These adjustments have significantly decreased the overall time to process, 5.5 seconds. This is despite the increased kernel for the bounding frame, likely due to a lower positive pixel count being overall preferable for the function than a small search radius.

Text

Description automatically generated

In addition, the increased bounding adjacnency allows the detection of shapes even with single pixel breaks in their structure, meaning lower quality edge detections can be used to detect the letters despite any pixel loss.