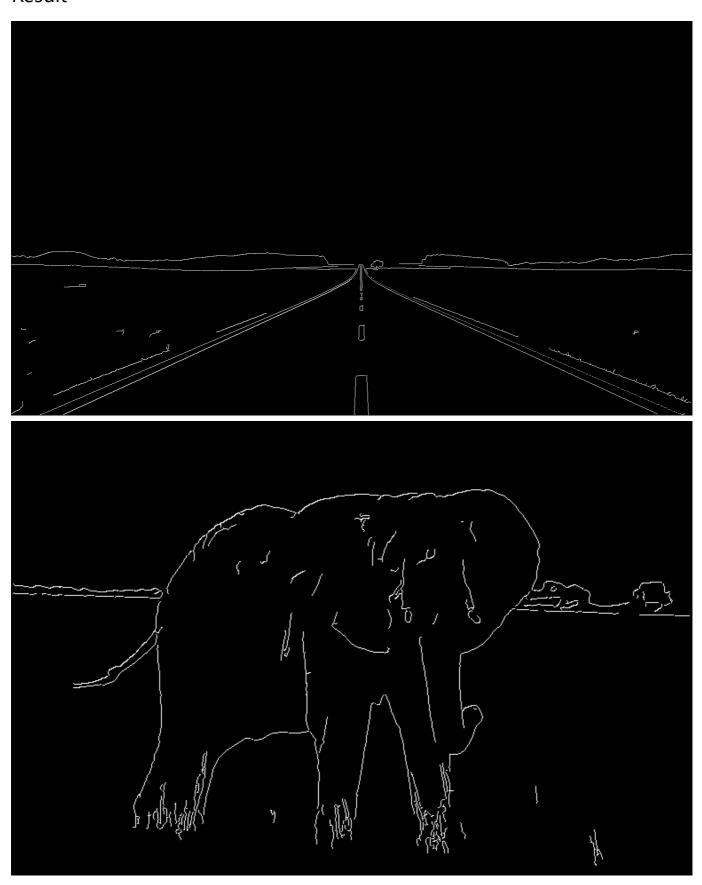
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# Report 110590018 劉承翰

## Result



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### Step

#### Step 1:

Convert to gray scale

#### Step 2:

Apply Gaussian filter with sigma=1.1 and filter size=5\*5

#### Step 3:

Calculate the gradient and angle for each pixel

#### Step 4:

Round the angles to 0, 45, 90, or 135 degrees

#### Step 5:

Suppress non-maximum values for angles 0, 45, 90, and 135 degrees

#### Step 6:

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Use double thresholding with 50 and 140 to find weak edges and strong edges

#### Step 7:

Use DFS to connect weak edges to nearby strong edges

#### Step 8:

Obtain the final edges