Harris Corner Detection

May 25, 2020

1 Harris Corner Detection

1.0.1 Import resources and display image

```
In [1]: import matplotlib.pyplot as plt
    import numpy as np
    import cv2

%matplotlib inline

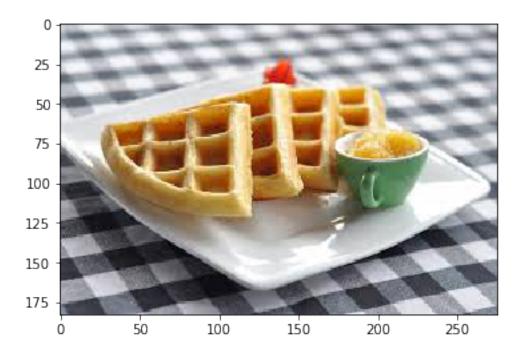
# Read in the image
    image = cv2.imread('images/waffle.jpg')

# Make a copy of the image
    image_copy = np.copy(image)

# Change color to RGB (from BGR)
    image_copy = cv2.cvtColor(image_copy, cv2.COLOR_BGR2RGB)

plt.imshow(image_copy)

Out[1]: <matplotlib.image.AxesImage at Ox7f80860552b0>
```



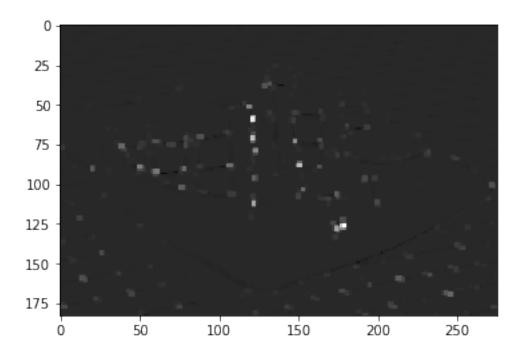
1.0.2 Detect corners

```
In [2]: # Convert to grayscale
    gray = cv2.cvtColor(image_copy, cv2.COLOR_RGB2GRAY)
    gray = np.float32(gray)

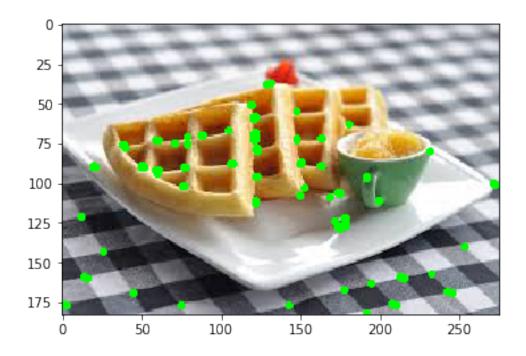
# Detect corners
    dst = cv2.cornerHarris(gray, 2, 3, 0.04)

# Dilate corner image to enhance corner points
    dst = cv2.dilate(dst,None)

plt.imshow(dst, cmap='gray')
Out[2]: <matplotlib.image.AxesImage at 0x7f8085ff7e10>
```



1.0.3 Extract and display strong corners



In []: