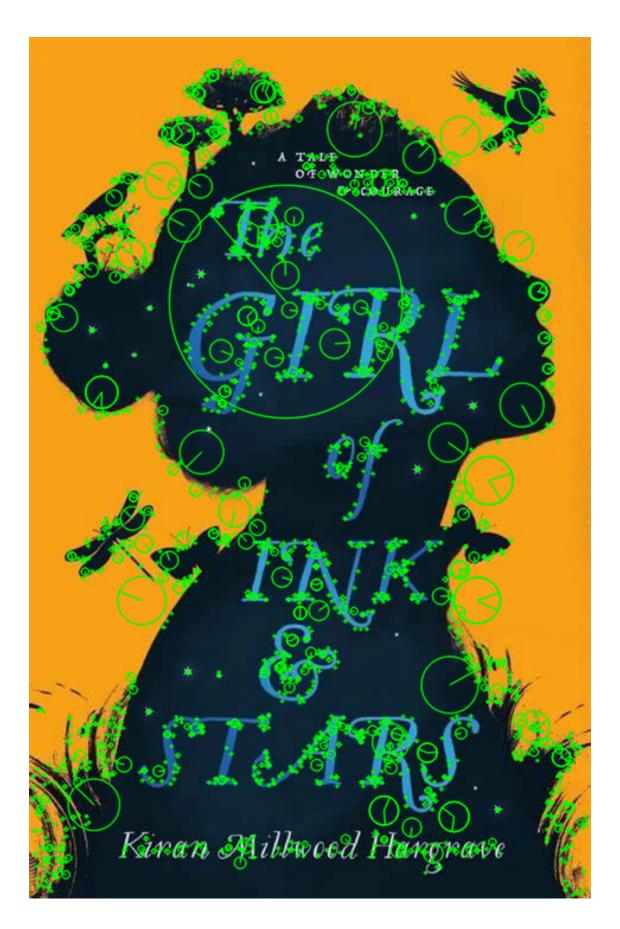
3-feature-detection-and-matching

November 28, 2024

0.1 Lab Exercise 3: Feature Detection and Matching

- Objective: Implement feature detection algorithms and matching between images.
- Task: Use SIFT or SURF to detect features in two images and apply feature matching techniques like brute-force matching or FLANN.



[3]: -1

```
[2]: # Importing the libraries
import cv2
from google.colab.patches import cv2_imshow # Import cv2_imshow

# Reading the image and converting into B/W
image = cv2.imread('/content/Book Cover.jpg')
gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

# Applying the function
fast = cv2.FastFeatureDetector_create()
fast.setNonmaxSuppression(False)

# Drawing the keypoints
kp = fast.detect(gray_image, None)
kp_image = cv2.drawKeypoints(image, kp, None, color=(0, 255, 0))

# Use cv2_imshow instead of cv2.imshow
cv2_imshow(kp_image)
cv2.waitKey()
```



[2]: -1

[2]: