Output Report

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Based on the requirement document, I developed a data stream and color detection algorithm. I did not host in Azure Cloud. That's why I did not apply any parallel streaming or serverless Azure Function data stream approach.

Color detection selects an area on the image and runs the k-average algorithm to create the palette of the most used colors.

After running the application, you can send a “Get” request through the Postman:

* <https://localhost:44386/api/ImageProcess?imageurl=https://pwintyimages.blob.core.windows.net/samples/stars/test-sample-teal.png>
* <https://localhost:44386/api/ImageProcess?imageurl=https://pwintyimages.blob.core.windows.net/samples/stars/test-sample-black.png>
* <https://localhost:44386/api/ImageProcess?imageurl=https://pwintyimages.blob.core.windows.net/samples/stars/test-sample-navy.png>
* <https://localhost:44386/api/ImageProcess?imageurl=https://pwintyimages.blob.core.windows.net/samples/stars/test-sample-grey.png>

I attached 4 output for 4 images. Black image is Unknown image.