

Color recognition

Artificial Intelligence Project



Introduction

Color plays an important role in human daily life for recognition. Color plays a crucial role in how we perceive and analyze things around us. Based on primary colors (Red, Green, Blue), a lot of color models were established to quantitatively measure color. There are many important real-world applications in which color detection can be applied, such as skin color detection, traffic light detection, vehicle color recognition, image segmentation, biometric identification, video surveillance etc.



To provide color information for object detection and tracking

Objectives



Our Second Goal

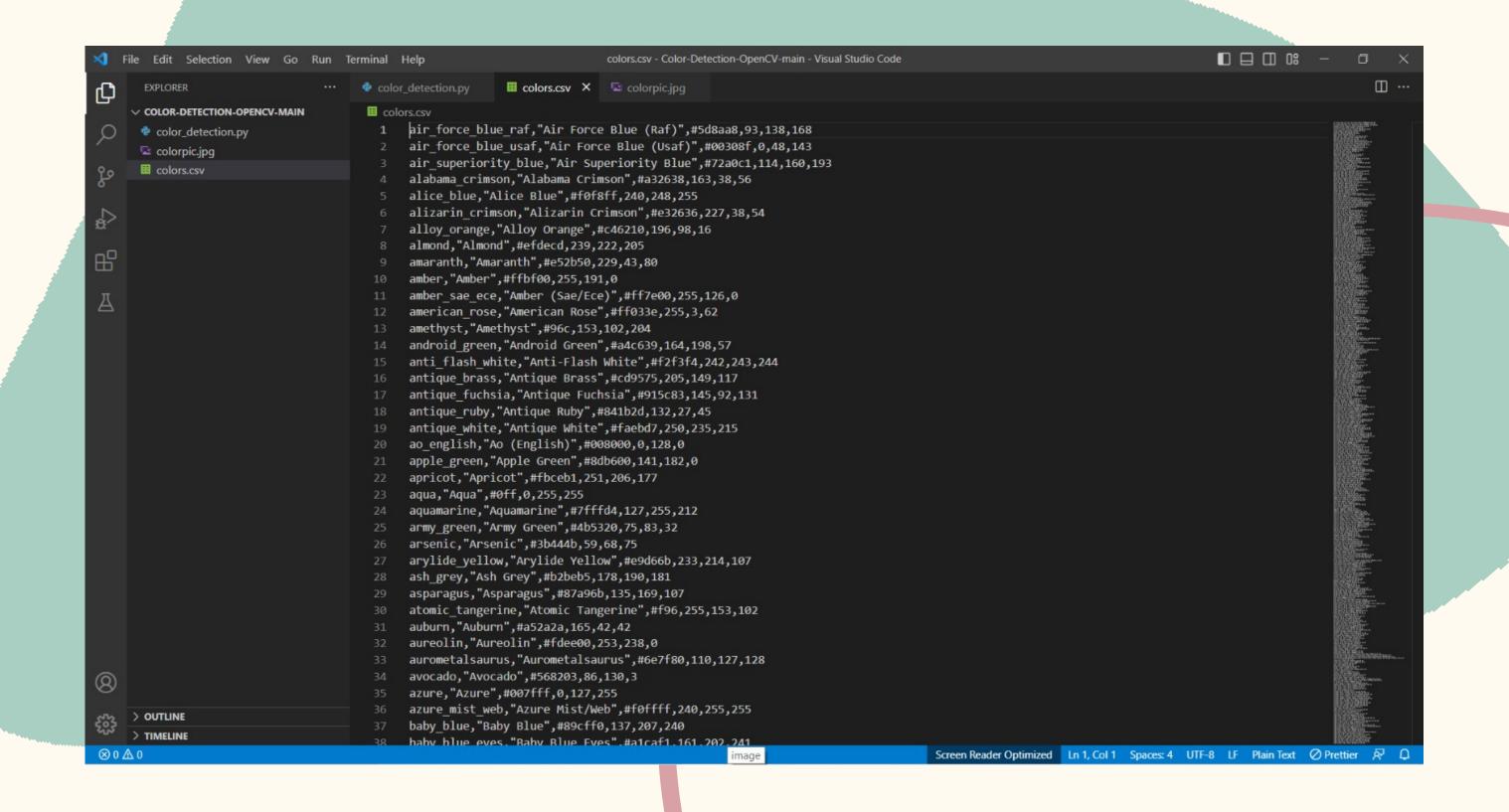
To assist in quality control and inspection



Our Third Goal

To enhance accessibility for colorblind individuals:

Dataset used



Flowchart

Taking image from the user

We read the CSV file with Pandas

Set a mouse callback event on windows

Display image on window

Calculate distance to get color name (KNN)

Create the draw_function



Thank you!

Group Members

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