

Project By
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DOCUMENTATION

PROBLEM STATEMENT

• Detect a blank screen in 4K video playing in Lenovo player

REQUIREMENT

• Java Runtime Environment

SOLUTION

- A java program to detect a single color in the screen.
- We have used two classes
 - o Screen
 - o Program
- The original image is resolution is reduced to half of its original resolution
- Used diagonal approach to test the blank screen instead of comparing all the pixels which would take 8294400 comparisons.

DESCRIPTION

- Functions
 - static boolean find_color(int color)
 - tries to match the color specified by parameter and the blank_color array
 - Returns true if found else false
 - static BufferedImage resize_image(BufferedImage img,double factor)
 - Resizing the captured image.
 - returns scaled version of argument img with dimensions resized by the argument factor
 - o boolean is_blank()
 - This is the real functions which compares the captured image diagonally with the set of colors in blank_color array
 - Returns true if blank else false

COMPARISON



