**Features:**

* In-app camera
* Identifies colors in a range
* Perhap a way to shift colors to help user

**Development Steps:**

1. Take picture in the app
2. Determine how to read the photo into the program
3. Write program to identify the value of center pixel; determine what RGB ranges classify as what colors
4. Inform the user of the color

**Further Development**

1. Camera overlay to specify what pixel is used for color
2. Recursive method; identify colors in the entire image

**Issues**

1. Camera overlay looks hard
2. What if the object is not one defined color (i.e. Rubik’s cube)
3. What about different types of colorblindness

Uri uriSavedImage=Uri.fromFile(new File("/sdcard/flashCropped.png")); camera.putExtra(MediaStore.EXTRA\_OUTPUT, uriSavedImage); startActivityForResult(camera, 1);

**From another thread:**

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| up vote1down voteaccepted | File imagesFolder = new File(Environment.getExternalStorageDirectory(), "MyImages"); imagesFolder.mkdirs(); File image = new File(imagesFolder, "image.jpg"); Uri uriSavedImage = Uri.fromFile(image); imageIntent.putExtra(MediaStore.EXTRA\_OUTPUT, uriSavedImage);  https://stackoverflow.com/questions/15432592/get-file-path-of-image-on-android |