# Assignment - Grizzly Colors

## Description

Create an Android app with an appearance as shown in the screen capture below. A sample app will also be demonstrated in class.

## Requirements (includes grade weight)

You must provide all aspects of each item described below for credit. For example, if you provide the grizzly.jpg as described in item #2 but neglect to alter the alpha value as defined, you will earn 0 of the possible 12.5 points for that item.

1. (12.5) Provide seekbar components for red, green, blue and alpha. Items should be accompanied by a label (R,G,B,A) which is aligned to the seekbar.
2. (12.5) Provide included grizzly.jpg image as background for the entire screen. (File in D2L dropbox.) Background must use transparency value of 120.
3. (12.5) Convert the alpha, red, green, and blue (ARGB) to hex value and display within the screen as a *swatch* with #hhhhhhhh format. For example, if ARGB was 124, 255, 0, 7 then text #7cff0007 would be displayed in the app
4. (12.5) the app must display the ARGB value as a color within the swatch, based on the ARGB seekbar positions. You may update the swatch with a button or dynamically as the seekbars are dragged.
5. (12.5) The hex-encoded text must always be visible. For example, if the swatch is black, the hex string must be in a contrasting color so that it is visible and not black.
6. (12.5) the app must include an *about* button. The button must trigger either an activity, a *toast* or a *snackbar* with the author’s name and the date the app was created.
7. (12.5) The app must not contain the floating action button provided by Android Studio’s default project.
8. (12.5) Follows good coding standards
9. (-----) Provide public project page following course assignment template, including demonstration video. Be sure to lead the reader, demonstrating your implementation for all of the functions you have implemented. NOTE: A grade of zero will be awarded if this item is missing.
10. (-----) Provide a zip archive of your android project and submit it to the D2L dropbox for this assignment. Do not place your source or archived project on your public project page. NOTE: A grade of zero will be awarded if this item is missing.

# Sample Screen Image



## Hints

Android treats a color definition as a primitive int, by assembling the RGBA values into a single int value. You may want to review the materials at <http://developer.android.com/reference/android/graphics/Color.html> for more background on how to create and manipulate colors.

SnackBar ands Toast are standard android components. More at <http://developer.android.com/guide/topics/ui/notifiers/toasts.html> and <http://developer.android.com/reference/android/support/design/widget/Snackbar.html>

Don’t worry about responsive design on this assignment.