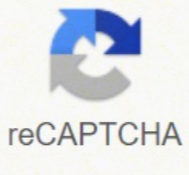




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Next

Android colors guideline



Material Color Palette



Android design guidelines colors.

Unfortunately, the guidelines have not mentioned anything about Illustrations. But while doing that you need to follow a simple rule. This desaturated orange color has a tonal value of 200 as recommended by the Material Guidelines. So how do accessibility and contrast play a role in this? If the text color is a brand color, test for a 4.5:1 ratio. Let us take a look at how this works. The ratio of 15.8:1 being satisfied. In the above image, we are testing for a ratio of 15.8:1 as text color is white. On top of the base layer, there is a white semi-transparent overlay. The lightest shade in light theme becomes the darkest shade in dark theme and vice versa. I am going to show you an example with the dragged state of a component. There are 2 types of components. In this case, it is #272727 which is a mix of #121212 and #FFFFFF (9%). Background and surfaces with a brand color. Some brands like to use their brand color everywhere. I just love it! With Android Q coming out in the 3rd Quarter of 2019, I felt that it was important for everyone to get the Dark Theme ready for their apps. Google has released the Material Guidelines for applying Dark Theme to your apps. And so there is another way to add a little flair to your Dark Theme. In this example, we will choose blue as our Primary color (#4BB2F9). Creation of a custom background color based on the primary color of the brand. Here, I have replaced the White semi-transparent overlay with a Blue semi-transparent overlay. Yeah! Illustrations also need to be tweaked to suit dark theme. As per the Material Guidelines, High Emphasis text needs to have an opacity of 67%. Low Emphasis text needs to have an opacity of 60%. A text which is disabled needs to have an opacity of 38%. Now, of course, these values can definitely be changed to your liking. The only guidance available is the talk given at Google I/O. So let's dive in. Each component has a certain amount of Elevation, as it is one of the fundamentals of Material Design. In light theme, it made sense to give a shadow to a component based on the amount of elevation. In both cases, the text is white with 38% opacity. Illustrations. Wait... what? All the shadow, overlay and stroke settings are available in the UI Kit. In this case, the color of the text is #F796AE and so the overlay also uses the same color. Most of the times, components such as buttons and FAB always use brand colors. Ask the dev to use the code components provided by Google. And here are the elements that play a role in the contrast ratio. 4.5:1 Surface with a primary color (Dark Theme). At 11% opacity, the background color becomes dark enough to satisfy the 15.8:1 contrast ratio. The ratio of 4.5:1 being satisfied. In the above image, we are not going to test a ratio of 15.8:1 as the text color is not white. They are applied to text, icons, and strokes which are placed "on" top of surfaces that use a primary, secondary, surface, background, or error color. In the above image, we have an Extended FAB which has a primary color. This can be either a white or a colored overlay. I will explain more about this in the Accessibility Section. So should all components have a dark-colored surface? And so Google came up with the idea of making the component lighter as the elevation increased. Components such as buttons and FAB will not have a dark background color. I will cover a bit more about this in the next section. Color Palette. Up next, is the colorful part (Fun intended). The treatment is the very same with a slight change. When the text uses the primary color, the color of the overlay is the same as the text color. Here are 3 tools that you can use for quickly checking the color contrast. (All 4 outcomes) 100% white text color. Take a moment to slowly see the differences between the 4 outcomes. 4 possible outcomes. Okay, now let's talk numbers. For those of you who follow me on social media, you might know that I am a hardcore fan of Dark Theme. In this case, the App bar has an elevation of 4dp. So in this case, any color shade other than the 600 tonal value is considered as a primary variant for light theme. The red color (#F00020) is the default error color for the light theme. The text here is in black and not white. Shades with tonal values that range from 50-400 are the most appropriate colors for dark theme. 900 tonal value is most saturated. (Outcome 1 and 3) I know that this is super hard to comprehend if you have never worked with contrast ratios before. Higher the elevation, the higher the opacity of the overlay. The opacity of that overlay has been set to 9%. Do let me know if you use any other tools apart from these. Color Contrast Checker - WebAIM. Sip App Contrast. So based on everything I have explained so far, here are the 4 possible outcomes for your user interface. One that uses the default dark color (#121212) and one that uses a primary color. The 15.8:1 ratio needs to be tested only when the text color is white. One more thing to take note of when testing the contrast ratios is to test them on error state backgrounds. The guidelines specify the exact color to be used for error states. It will then generate a color palette for you. For a dragged state the opacity is 8% as we have seen in the previous examples. For disabled states, there are only 2 variations. 2 variations for buttons. Above is the image shows the only 2 variations for disabled states. Its super simple actually. All colors used in dark theme should display elements with sufficient contrast passing the WCAG's standard for text. The guidelines provide us with 2 contrast ratios, that need to be satisfied for sufficient contrast. This is number 1 is a tonal value. I have set the transparency level such that it meets WCAG's accessibility standards. Here is an example of the FAB (Floating Action Button). The first thing you need to do is to take your Primary and Secondary colors and generate a color palette. Google recommends using the color that has 200 as the tonal value as the primary color for dark theme. Primary Variant. Any shade of the primary color is called a Primary Variant. But for dark theme, the primary color shifts to a desaturated color shade. But the guidelines give us an option to use a more saturated color for these components. These code components will automatically apply the elevation and color. If you are using a custom built component, then give the true color value. All you need to do is to break up your illustration into 2 parts namely, subject and background. For the background element, you need to make it greyscale. The color of the text is black. You do not have to always follow that rule. For subjects, you need to use desaturated colors. For now, I will be showing you the design application in Figma. Let us take the example of an App bar to understand this better. Application in Figma. As you can see the app bar is made up of 2 layers. However, this is the primary color for light theme. The value of 8% is a fixed value as recommended by the guidelines. But do not worry, as I am here to your rescue. Step 1 Decide on whether you are going to go for a background with the default color or your primary color. Step 2 When testing your colors make sure that you test them at the highest elevation level of 24dp. Instead, test for a ratio of 4.5:1. Let us take a look at how this works. The ratio of 4.5:1 being satisfied. As you can see here, the colors pass the contrast ratio of 4.5:1 which is what we desire. Step 4 If you choose to have a background with your primary color, then you only need to test for the 15.8:1 contrast ratio. To generate the color palette you can go to the color section of the Material.io website and input the colors. You will have to create a duplicate of the base layer (#121212) and then change the color of the duplicate to White. They are used only to identify a certain shade of the color palette. Primary Color: When you input the primary color value, the color palette generator will assign a tonal value to your primary color. These can have either white color or a shade of the brand color. Let us take an example assuming that the text and icon color will be white. Different opacity levels for different text emphasis. In the above image, there are 3 different opacity levels for the white-colored text. The illustrations that I will be using are from Undraw.com. Light and Dark Theme Illustrations. Tweaking illustrations for dark theme is quite simple. Why? Then set the opacity of the duplicated layer to 9%. 40% opacity ensures that the contrast ratio is met. Sometimes you might have to play around with the black and white colors to make it look perfect. On every surface, there are 3 types of elements - Icons, Text, and Strokes. It can be either have a stroke or a fill. So as I mentioned there are 2 contrast ratios that need to be satisfied. (Explained below). So it is best not to edit that value. There is another variation where the text uses the primary color. And any color shade other than the 200 tonal value is considered as a primary variant for the dark theme. Why do we need a full-color palette? It's because Dark Theme works well with desaturated colors. If you have an iOS app as well, definitely do consider checking that out! Designing a Dark Mode for your iOS app - The Ultimate Guide. Alright, assuming that you now have a design system ready with colors, type, components, and all the other jazz, let's get started! Elevation. Every app is made up of a lot of components. But do note that in dark theme, the components will continue to have the same shadow settings as in light theme. The guidelines provide 12 levels of elevation for the components. The base always uses a dark grey color with a value of #121212. (Outcome 3 and 4) Text with white color or a non-white color. Nav drawer, app bar, FAB, buttons and so much more. This gives the color of #CF6679. I will be covering only the design aspect and not the development aspect. In this case, it will be covering only the design aspect and not the development aspect. You can also check out my full-fledged Tutorial on YouTube as well! Click on the image to check out my video tutorial! Also released a full-fledged article on designing Dark Mode for iOS. In the below image I am going to show you the design treatment when the component has a default dark color. Semi-transparent white overlay for different states. In the above image, the dragged state has 8dp shadow and a semi-transparent white overlay. And so, in this case, the tab title (Activity) has an opacity of 100% while the other

title has an opacity of 87% and the subtitle has an opacity of 60%. Now let us take an example where the text color is not white, rather a shade of the brand color. A shade of orange color is used instead of pure white color. As you can see, I have used a desaturated orange color for the tabs, tab title, and button. I will explain the usage of both of these. Applying this concept varies depending on the design tool that you are using. (Why Apple? This is based on the saturation of the primary color.)

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