

Draw charts in android

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People mostly perceive information visually: videos, photos, and charts draw attention and explain things better than plain numbers or words. This is why many applications use bright and clear charts to present information. In this article, we explore how to add charts to your app without spending lots of time (and therefore money) on their development.Why and where should you use charts?Charts have become an extremely popular element of modern UI design in mobile applications. There are lots of ways you can use them in your application, and there are even more ways you can make your charts sleek and beautiful.Charts have benefits that make this way of presenting information one of the best.Visual — According to multiple studies, people perceive visual information much better than any other kind of information. For example, a study by researchers at the University of Minnesota showed that people process visuals 60,000 times faster than text. This means that adding a chart to your mobile app will make information clearer and therefore improve the user experience.Optimize space — A chart can also be a compact way to present information. Instead of using tables, just implement charts and free screen space.You can use charts to display lots of information. For example, Apple uses charts in the Apple Watch to show fitness information.You can also use charts in a banking app or an app for managing personal finances to show spending and income.Charts can be used in apps for mobile analytics and marketing.And there are countless cases where you can use charts in your mobile app. These types of applications often use charts:Banking and personal financeFitness and nutritionAnalyticsLogisticsSocial mediaBattery managementTime managementInternet of ThingsBusiness and managementYou can find lots of creative ways to use charts in other types of mobile applications as well.Now let’s talk about how to implement a chart in your mobile application and not spend lots of development hours on it.A simple solution for your appCreating a chart using graphics can take lots of time, prolonging development and increasing costs. To avoid this, you can use an open source library to create charts. There are already lots of them online, and you can choose any. In this article we’ll look at MPAndroidChart by Phil Jay. It’s new in comparison to other chart libraries, and I like it because it’s stable. Over 3,000 users on GitHub agree with me. With this library, you can create different kinds of customizable charts without much effort. You can also add animations and customize them.Now I’ll show you how to draw charts on Android with this library. In this article we’ll focus on a simple bar chart with animation, but first let’s explore what types of charts are available in this library.MPAndroidChart LibraryAll you need to know about MPAndroidChart is that it’s one of the simplest ways to add charts to your app and that it works on Android API 8 and above. If you want to use animations, you’ll need API 11 or above.Animations are a core element of modern mobile app UIs, which is why it’s such a great thing to have them in this library. You’ll find over 25 built-in animations, but if you want something special you can also add custom ones. So what can you actually build with MPAndroidChart?Simple bar chartHorizontal bar chartSimple line chartLine chart with cubic linesGrouped line chartCombined line and bar chartPie chartScatter chartCandlestick chartRadar chartIn this tutorial, we’ll build a grouped bar chart with animation like the one shown here:How to integrate an animated chart step by stepStep 1To start, first add these lines to your gradle file:Step 2Create a layout for your MPAndroidChart.As you can see in the above layout, I’ve used the com.github.mikephil.charting.charts.BarChart xml tag to create an Android bar chart.Step 3Now have a look at the activity code:This will result in a great-looking bar chart like this:Let me explain how the MPAndroidChart library works. As shown in the class above, first a BarChart is initialized. Then data is generated according to the bar chart with the help of the BarEntry class. This is a subclass of the Entry class, which is the base class for all chart data types in the MPAndroidChart library.Further, this BarEntry is added into BarDataSet. Then all of these values along with X-axis values are set in the bar chart using the chart.setData(data) method. Now to make the bar chart reflect this latest data, we need to call chart.invalidate()method. This will result in the great-looking bar chart shown above.As I’ve mentioned, the MPAndroidChart library is customizable. Let’s have a look at some of its key features.MPAndroidChart animationsTo animate a chart from the MPAndroidChart library, these methods are used:chart.animateX(2000) — For X-axis animationchart.animateY(2000) — For Y-axis animationchart.animateXY(2000, 2000) — For XY-axis animationThe above code will add a standard animation. But if you wish to change the animation style or want to make a custom animation, refer to this page. Note that animations will work only on API 11 and above.MPAndroidChart colorsWhile making charts on Android using the MPAndroidChart library, you can also change the color of bars in the chart using these methods:setColor — Used to set a single color for a full data setsetColors — Used to set entries in different colors within a data setThese methods are used while creating the DataSet object shown above.ConclusionMPAndroidChart is a great library that can help developers create beautiful, customized, and animated charts in just a few steps. In this article I showed you how to build a bar chart, but you can create all kinds of charts for your application — just change the class names. Mostly you won’t have to change anything: the MPAndroidChart library is created in such a way that in all charts you input the information in the same way.If you have any questions on integrating or using charts in your mobile app, don’t hesitate to contact Mobindustry for a free consultation. We’ll be glad to help.Get a Free Consultation! sales@mobindustry.net Within the entry of the era of big data, visualization can display the data in a more intuitive way, making the data more objective and convincing, so as to help users understand and analyze the data. Today we'll take a look at how to draw a line chart using Kotlin.Technical SelectionIn fact, there are few visual chart libraries on iOS. The famous one is Charts, but today I chose F2Native, mainly because of its rich chart types, supporting 7 types of charts, across iOS, MacOS,Android, and Webassembly platforms, and finally, it implements the grammar of graphic theory, that can be combined to form ever-changing charts.Development And ImplementationThe code is submitted on GitHub, you can download it directly at the end. Then Let's start.1. Create a ProjectWe create an empty project with Android Studio.Click Next, enter the project name LineChart-Kotlin in the next interface, and select Language as Kotlin, Minimum SDK selects API 18, and click Finish.2. Import F2NativeF2Native has been uploaded to jetpack, so we need to add it to the project's build.gradleThen go to the module's build.gradle to add dependencies, we use the latest version by default.3. Prepare DataSince the input data format of the engine is an array of Strings, I prepared the following data and saved it as a data.json file. Then put it under the assets directory.4. Create ViewWe add F2CanvasView in res/layout/activity_main.xml and set the width and height. This View is used to display the line chart.5. CodingThe next step is to write the code. We import the relevant packages into MainActivity.ktWriting the code logic. I wrote the comments on each step in the code.If you see this, congratulations, the above is all the code needed to draw a line chart, the chart is as follows:As I mentioned, F2Native implements graphic syntax, which can quickly deal with the rapidity of business iteration through combination. If the demand suddenly changes and a column chart needs to be drawn, then we only need to change mChart!!.line().position(" genre" sold ") where the line in the code is interval.The column chart comes out, very convenient.FinallyThank you for reading, the code has been submitted to GitHub, and welcome to download it.If you interested in iOS visualization, you can read this article. We don't allow questions seeking recommendations for books, tools, software libraries, and more. You can edit the question so it can be answered with facts and citations. I am working on a project which have some charts (graphs), tick chart, candlestick chart and range chart. But the problem is, there is no library for that charts. I have got Google chart API for candlestick chart. But I don't want graph/chart in a webview. Example: Android Candlestick Chart with Google Chart API package com.gtappdevelopers.kotlingprojectimport android.os.Bundleimport androidx.appcompat.app.AppCompatActivityimport com.github.mikephil.charting.charts.ScatterChartimport com.github.mikephil.charting.charts.ScatterChartimport com.github.mikephil.charting.components.Legendimport com.github.mikephil.charting.data.Entryimport com.github.mikephil.charting.data.ScatterDataimport com.github.mikephil.charting.data.ScatterDataSetimport com.github.mikephil.charting.interfaces.datasets.IScatterDataSetimport com.github.mikephil.charting.util.ColorTemplateclass MainActivity : AppCompatActivity() { lateinit var scatteredChart: ScatterChart override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState) setContentView(R.layout.activity_main) scatteredChart = findViewById(R.id.chart) scatteredChart.description.isEnabled = false scatteredChart.setDrawGridBackground(false) scatteredChart.setTouchEnabled(true) scatteredChart.maxHighlightDistance = 50f scatteredChart.isDragEnabled = true scatteredChart.setScaleEnabled(true) scatteredChart.setMaxVisibleValueCount(200) scatteredChart.setPinchZoom(true) val legend = scatteredChart.legend legend.verticalAlignment = Legend.LegendVerticalAlignment.TOP legend.horizontalAlignment = Legend.LegendHorizontalAlignment.RIGHT legend.orientation = Legend.LegendOrientation.VERTICAL legend.setDrawInside(false) legend.xOffset = 5f val y1 = scatteredChart.axisLeft y1.axisMinimum = 0f scatteredChart.axisRight.isEnabled = false val x1 = scatteredChart.xAxis x1.setDrawGridLines(false) val values1: ArrayList = ArrayList() val values2: ArrayList = ArrayList() val values3: ArrayList = ArrayList() for (i in 0..10) { values1.add(Entry(i.toFloat(), ((i * 2).toFloat()))) } for (i in 11..21) { values2.add(Entry(i.toFloat(), ((i * 3).toFloat()))) } for (i in 21..31) { values3.add(Entry(i.toFloat(), ((i * 4).toFloat())))) val set1 = ScatterDataSet(values1, "Point 1") set1.setColor(ColorTemplate.COLORFUL_COLORS[0]) val set2 = ScatterDataSet(values2, "Point 2") set2.setColor(ColorTemplate.COLORFUL_COLORS[1]) val set3 = ScatterDataSet(values3, "Point 3") set3.setColor(ColorTemplate.COLORFUL_COLORS[2]) set1.scatterShapeSize = 8f set2.scatterShapeSize = 8f set3.scatterShapeSize = 8f val dataSet: ArrayList = ArrayList() dataSet.add(set1) dataSet.add(set2) dataSet.add(set3) val data: ScatterData = ScatterData(dataSet) scatteredChart.data = data scatteredChart.invalidate() }}

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