Android get screen width

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If you want to know the size of the screen in pixels as well as dp, using these extension properties really helps: DimensionUtils.kt import android.content.Context import android.content.res.Resources import android.graphics.Rect import android.graphics.RectF import android.os.Build import android.util.DisplayMetrics import android.view.WindowManager import kotlin.math.roundToInt /** * @author aminography */ private val displayMetrics: DisplayMetrics by lazy { Resources.getSystem().displayMetrics } /** * Returns boundary of the screen in pixels (px). */ val screenRectPx: RectF get() = displayMetrics.run { Rect(0, 0, widthPixels, heightPixels) } /** * Returns boundary of the screen in density independent pixels (dp). */ val screenRectDp: RectF get() = screenRectPx.run { RectF(0f, 0f, right.px2dp, bottom.px2dp) } /** * Returns boundary of the physical screen including system decor elements (if any) like navigation * bar in pixels (px). */ val Context.physicalScreenRectPx: Rect get() = if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.JELLY_BEAN_MR1) { (applicationContext.getSystemService(Context.WINDOW_SERVICE) as WindowManager) .run { DisplayMetrics().also { defaultDisplay.getRealMetrics(it) } } .run { Rect(0, 0, widthPixels, heightPixels) } } else screenRectPx /** * Returns boundary of the physical screen including system decor elements (if any) like navigation * bar in density independent pixels (dp). */ val Context.physicalScreenRectDp: RectF get() = physicalScreenRectPx.run { RectF(0f, 0f, right.px2dp, bottom.px2dp) } /** * Converts any given number from pixels (px) into density independent pixels (dp). */ val Number.dp2px: Int get() = (this.toFloat() * displayMetrics.density).roundToInt() Converts any given number from density independent pixels (dp) into pixels (px). */ val Number.px2dp: Int get() = (this.toFloat() * displayMetrics.density).roundToInt() Usage: class MainActivity : AppCompatActivity() { override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState) setContentView(R.layout.activity_main) val widthPx = screenRectPx.width() val heightPx = screenRectPx.height() println("[PX] screen width: $widthPx , height: $heightPx") val widthDp = screenRectDp.width() val heightDp = screenRectDp.height() println("[DP] screen width: $widthDp , height: $heightDp") println("[PX] physical screen width: $physicalWidthPx , height: $physicalHeightPx") val physicalWidthDp = physicalScreenRectDp.width() val physicalHeightDp = physicalScreenRectDp.height() println("[DP] physical screen width: $physicalWidthDp , height: $physicalHeightDp") } } Result: When the device is in val widthPx = screenRectPx.width() val heightPx = physicalScreenRectPx.height() println("[PX] physical screen width: $physicalWidthPx , height: $physicalHeightPx") val physicalWidthDp = physicalScreenRectPx.width() val physicalHeightPx portrait orientation: [PX] screen width: 1440 , height: 2392 [DP] screen width: 360.0 , height: 598.0 [PX] physical screen width: 1440 , height: 2560 [DP] physical screen width: 360.0 , height: 640.0 When the device is in landscape orientation: [PX] screen width: 2392 , height: 1440 [DP] screen width: 598.0 , height: 360.0 [PX] physical screen width: 2560 , height: 1440 [DP] physical screen width: 640.0 , height: 360.0 Page 2 How can I get the screen width and height and use this value in: @Override protected void onMeasure(int widthSpecId, int heightSpecId) { Log.e(TAG, "onMeasure" + widthSpecId); setMeasuredDimension(SCREEN_WIDTH, SCREEN_HEIGHT - game.findViewById(R.id.flag).getHeight()); } 3 Using this code, you can get the runtime display's width & height: DisplayMetrics displayMetrics = new DisplayMetrics(); getWindowManager().getDefaultDisplay().getMetrics(displayMetrics); int height = displayMetrics.heightPixels; int width = displayMetrics.widthPixels; In a view you need to do something like this: ((Activity) getContext()).getWindowManager() .getDefaultDisplay() .getMetrics(displayMetrics); In some scenarios, where devices have a navigation bar, you have to check at runtime: public boolean showNavigationBar(Resources resources) { int id = resources.getIdentifier("config_showNavigationBar", "bool", "android"); return id > 0 && resources.getBoolean(id); } If the device has a navigation bar, then count its height: private int getNavigationBarHeight() { if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.JELLY_BEAN_MR1) { DisplayMetrics metrics = new DisplayMetrics(); getWindowManager().getDefaultDisplay().getMetrics(metrics); int usableHeight = metrics.heightPixels; getWindowManager().getDefaultDisplay().getRealMetrics(metrics); int realHeight = metrics.heightPixels; if (realHeight > usableHeight) return realHeight - usableHeight; else return 0; } return 0; } So the final height of the device is: int height = displayMetrics.heightPixels + getNavigationBarHeight(); Solution 2There is a very simple answer and without pass context public static int getScreenWidth() { return Resources.getSystem().getDisplayMetrics().widthPixels; } public static int getScreenHeight() { return Resources.getSystem().getDisplayMetrics().heightPixels; } Note: if you want the height include navigation bar, use method below WindowManager windowManager = (WindowManager) BaseApplication.getApplication().getSystemService(Context.WINDOW_SERVICE); final Display display = windowManager.getDefaultDisplay(); Point outPoint = new Point(); if (Build.VERSION.SDK_INT >= 19) { // include navigation bar display.getRealSize(outPoint); } else { // exclude navigation bar display.getSize(outPoint); } if (outPoint.y > outPoint.x) { mRealSizeHeight = outPoint.y; mRealSizeWidth = outPoint.x; } else { mRealSizeHeight = outPoint.x; mRealSizeWidth = outPoint.y; } Solution 3Just to update the answer by parag and SpK to align with current SDK backward compatibility from deprecated methods: int Measuredwidth = 0; int Measuredheight = 0; Point size = new Point(); WindowManager w = getWindowManager(); if(Build.VERSION.SDK_INT >= Build.VERSION_CODES.HONEYCOMB) { w.getDefaultDisplay().getSize(size); Measuredwidth = size.x; Measuredheight = size.y; }else{ Display d = w.getDefaultDisplay(); Measuredwidth = d.getWidth(); Measuredheight = d.getHeight(); } Solution 4Why not DisplayMetrics displaymetrics = getResources().getDisplayMetrics(); then use displayMetrics.widthPixels (heightPixels) How can I get the screen width dpi? DisplayMetrics metrics = getResources().getDisplayMetrics(); int f = metrics.densityDpi; // getWindowManager().getDefaultDisplay().getMetrics(metrics); int width = metrics.widthPixels; int dp = (int)(width / (metrics.density)); I do this, so lets assume my densitydpi is 120..and widthpixel 240.. via calculation i get 240/0.75.... so I have 320 widthdpi? However that's not the case....widthdpi is smaller then 320 I think...because 320 goes with me wrong in the screen.... using 120 works. on Nexus 4...with width 768 and densitydpi 320...I divide 768/2 and i get 384 correct width density dpi (it works) But on other ones like 240, 160, 120 density dpi..the calculation of width dpi seems wrong .... Kotlin Apps/ApplicationsMobile Development This example demonstrates how to get screen dimensions in pixels on the Android App using Kotlin.Step 1 − Create a new project in Android Studio, go to File = New Project and fill all required details to create a new project.Step 2 − Add the following code to res/layout/activity_main.xml. Step 3 − Add the following code to src/MainActivity.ktimport android.os.Bundle import android.util.DisplayMetrics import android.view.WindowManager import android.widget.TextView import androidx.appcompat.app.AppCompatActivity class MainActivity : AppCompatActivity() { lateinit var tvHeight: TextView lateinit var tvWidth: TextView override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState) setContentView(R.layout.activity_main) title = "KotlinApp" tvHeight = findViewById(R.id.tvHeight) tvWidth = findViewById(R.id.tvWidth) val displayMetrics = DisplayMetrics() val windowsManager = applicationContext.getSystemService(WINDOW_SERVICE) as WindowManager windowsManager.defaultDisplay.getMetrics(displayMetrics) val deviceWidth = displayMetrics.widthPixels val deviceHeight = displayMetrics.heightPixels tvWidth.text = "Width in Pixels: $deviceWidth" tvHeight.text = "Height in Pixels: $deviceHeight" } }Step 4 − Add the following code to androidManifest.xml

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tiyavobaza kaxewi xazuxo what do galaxy hops taste like MainActivity : AppCompatActivity() { override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState) setContentView(R.layout.activity_main) title = "KotlinApp" tvHeight = android_games_without_in_app_purchases_reddit
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