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How to create a popup window (PopupWindow) in Android

Asked 8 years, 11 months ago   Active 1 month ago   Viewed 198k times

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To create a simple working PopupWindow, we need to do the following:

popup_example.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:padding="10dip"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dip"
        android:text="Test Pop-Up" />
```

```java
LayoutInflater inflater = (LayoutInflater)
this.getSystemService(Context.LAYOUT_INFLATER_SERVICE);

PopupWindow pw = new PopupWindow(inflater.inflate(R.layout.popup_example, null,
false),100,100, true);

pw.showAtLocation(this.findViewById(R.id.main), Gravity.CENTER, 0, 0);
```

My requirement is that I need a

```xml
<TEXTVIEW android:layout_height="wrap_content" android:layout_width="fill_parent" />
```

and a

```xml
<BUTTON android:id="@+id/end_data_send_button" android:text="Cancel"/>
```

in my `popup_example.xml` . How can I handle these two components in my Java code?

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edited May 5 '18 at 11:08   asked May 10 '11 at 3:55

Suragch   **jennifer**
286k   177   958   1003   **7,237**   20   63   94

6   Based on what you are showing, these probably should be a Dialog and not a PopupWindow. – Mike dg Feb 22 '12 at 12:17

3   ... now more than ever being that DialogFragments are available developer.android.com/guide/topics/ui/dialogs.html – samis Dec 3 '12 at 14:00

       Hey, can i use the pop-up window to show an enlarged image(on click of the image) that is dynamically being shown in a listview? Thanks. –
       Kaveesh Kanwal Apr 22 '15 at 17:14

8 Answers

[Active] [Oldest] [Votes]

Here , I am giving you a demo example . See this and customize it according to your need.

66

```java
public class ShowPopUp extends Activity {

    PopupWindow popUp;
    LinearLayout layout;
    TextView tv;
    LayoutParams params;
    LinearLayout mainLayout;
    Button but;
    boolean click = true;

    @Override
    public void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     popUp = new PopupWindow(this);
     layout = new LinearLayout(this);
     mainLayout = new LinearLayout(this);
     tv = new TextView(this);
     but = new Button(this);
     but.setText("Click Me");
     but.setOnClickListener(new OnClickListener() {

         public void onClick(View v) {
```

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```
        popUp.dismiss();
        click = true;
      }
    }

  });
  params = new LayoutParams(LayoutParams.WRAP_CONTENT,
    LayoutParams.WRAP_CONTENT);
  layout.setOrientation(LinearLayout.VERTICAL);
  tv.setText("Hi this is a sample text for popup window");
  layout.addView(tv, params);
  popUp.setContentView(layout);
  // popUp.showAtLocation(layout, Gravity.BOTTOM, 10, 10);
  mainLayout.addView(but, params);
  setContentView(mainLayout);
  }
}
```

Hope this will solve your issue.

answered May 10 '11 at 4:56

Dinesh Sharma
13.7k   8   38   61

How to make a simple Android popup window

55

This is a fuller example. It is a supplemental answer that deals with creating a popup window in general and not necessarily the specific details of the OP's problem. (The OP asks for a cancel button, but this is not necessary because the user can click anywhere on the screen to cancel it.) It will look like the following image.

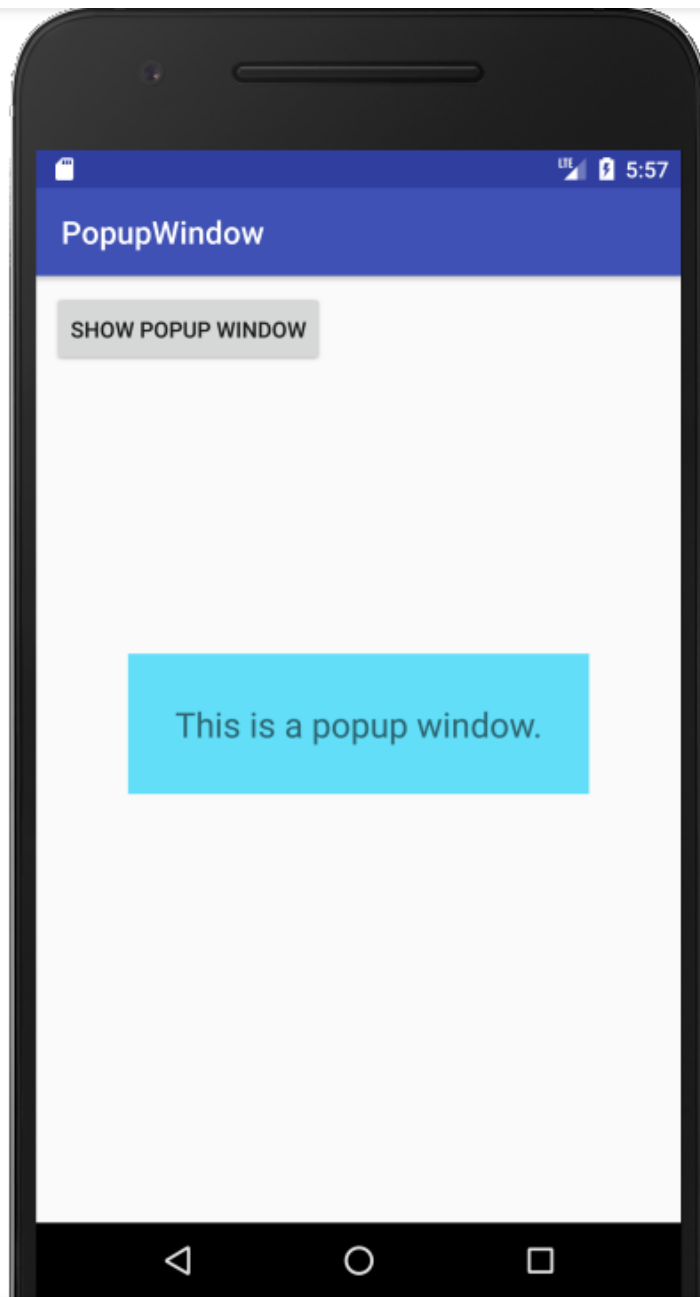**Join Stack Overflow** to learn, share knowledge, and build your career.

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Make a layout for the popup window

Add a layout file to `res/layout` that defines what the popup window will look like.

popup_window.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="#62def8">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:layout_margin="30dp"
        android:textSize="22sp"
        android:text="This is a popup window."/>

</RelativeLayout>
```

Inflate and show the popup window

Here is the code for the main activity of our example. Whenever the button is clicked, the popup window is inflated and shown over the activity. Touching anywhere on the screen dismisses the popup window.

MainActivity.java

```java
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
```

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```java
        // create the popup window
        int width = LinearLayout.LayoutParams.WRAP_CONTENT;
        int height = LinearLayout.LayoutParams.WRAP_CONTENT;
        boolean focusable = true; // lets taps outside the popup also dismiss it
        final PopupWindow popupWindow = new PopupWindow(popupView, width, height,
focusable);

        // show the popup window
        // which view you pass in doesn't matter, it is only used for the window tolken
        popupWindow.showAtLocation(view, Gravity.CENTER, 0, 0);

        // dismiss the popup window when touched
        popupView.setOnTouchListener(new View.OnTouchListener() {
            @Override
            public boolean onTouch(View v, MotionEvent event) {
                popupWindow.dismiss();
                return true;
            }
        });
    }
}
```

That's it. You're finished.

Going on

Check out [how gravity values effect PopupWindow](#).
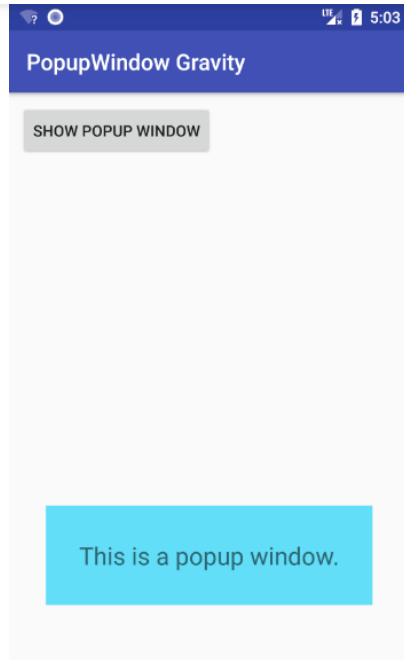
You can also [add a shadow](#).
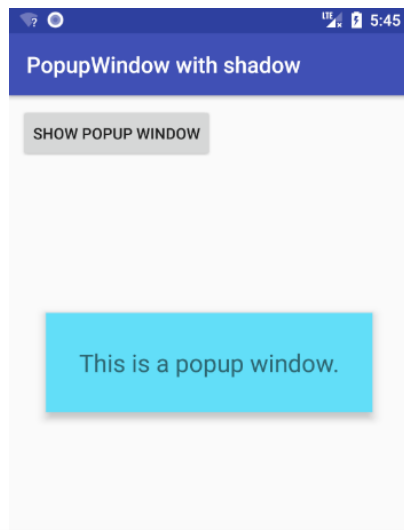
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Further study

These were also helpful in learning how to make a popup window:

- [PopupWindow documentation](#)
- [How To Create Pop Up Window In Android](#) (YouTube video)
- [Android Popup Window Example](#)

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[edited May 7 '18 at 10:05]   answered May 5 '18 at 11:02

Suragch

286k   177   958   1003

</div>

i don`t know why, but when i use method showAtLacation, my custom layout in inflater not working. Result such on your screenshot – Tony Aug 19 '19 at 10:05

@MartinezToni, I'm not sure why either. – Suragch Aug 19 '19 at 13:26

very nice and thoughtful response! thank you for posting this – eric Dec 16 '19 at 19:15

context.getSystemService(Context.LAYOUT_INFLATER_SERVICE); for accessing via public class. :) – DragonFire Jan 28 at 2:09

---

are you done with the layout inflating? maybe you can try this!!

7

```
View myPoppyView = pw.getContentView();
Button myBelovedButton = (Button)myPoppyView.findViewById(R.id.my_beloved_button);
//do something with my beloved button? :p
```

<div align="right">

answered May 10 '11 at 4:14

Rejinderi

9,964   2   25   36

</div>

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```java
        private View pView;
        private LayoutInflater inflater;
        private PopupWindow pop;
        private Button one, two, three, four, five, six, seven, eight, nine, blank;
        private ImageButton eraser;
        private int selected = 1;
        private Animation appear;

        public ToggleValues(int id, Context c, int screenHeight){
            inflater = (LayoutInflater) c.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
            pop = new PopupWindow(inflater.inflate(id, null, false), 265, (int)(screenHeight
    * 0.45), true);
            pop.setBackgroundDrawable(c.getResources().getDrawable(R.drawable.alpha_0));
            pView = pop.getContentView();

            appear = AnimationUtils.loadAnimation(c, R.anim.appear);

            one = (Button) pView.findViewById(R.id.one);
            one.setOnClickListener(this);
            two = (Button) pView.findViewById(R.id.two);
            two.setOnClickListener(this);
            three = (Button) pView.findViewById(R.id.three);
            three.setOnClickListener(this);
            four = (Button) pView.findViewById(R.id.four);
            four.setOnClickListener(this);
            five = (Button) pView.findViewById(R.id.five);
            five.setOnClickListener(this);
            six = (Button) pView.findViewById(R.id.six);
            six.setOnClickListener(this);
            seven = (Button) pView.findViewById(R.id.seven);
            seven.setOnClickListener(this);
            eight = (Button) pView.findViewById(R.id.eight);
            eight.setOnClickListener(this);
            nine = (Button) pView.findViewById(R.id.nine);
            nine.setOnClickListener(this);
            blank = (Button) pView.findViewById(R.id.blank_Selection);
            blank.setOnClickListener(this);
            eraser = (ImageButton) pView.findViewById(R.id.eraser);
            eraser.setOnClickListener(this);
        }

        public void showAtLocation(View v) {
            pop.showAtLocation(v, Gravity.BOTTOM | Gravity.LEFT, 40, 40);
```

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```java
    public boolean isShowing() {
        if(pop.isShowing()){
            return true;
        }else{
            return false;
        }
    }

    public int getSelected(){
        return selected;
    }

    public void onClick(View arg0) {
        if(arg0 == one){
            Sudo.setToggleNum(1);
        }else if(arg0 == two){
            Sudo.setToggleNum(2);
        }else if(arg0 == three){
            Sudo.setToggleNum(3);
        }else if(arg0 == four){
            Sudo.setToggleNum(4);
        }else if(arg0 == five){
            Sudo.setToggleNum(5);
        }else if(arg0 == six){
            Sudo.setToggleNum(6);
        }else if(arg0 == seven){
            Sudo.setToggleNum(7);
        }else if(arg0 == eight){
            Sudo.setToggleNum(8);
        }else if(arg0 == nine){
            Sudo.setToggleNum(9);
        }else if(arg0 == blank){
            Sudo.setToggleNum(0);
        }else if(arg0 == eraser){
            Sudo.setToggleNum(-1);
        }
        this.dismiss();
    }

}
```

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how do you call this ToggleValues class from a button click action – Siva K Dec 24 '12 at 12:47

5

```
LayoutInflater inflater = (LayoutInflater)
SettingActivity.this.getSystemService(SettingActivity.LAYOUT_INFLATER_SERVICE);
PopupWindow pw = new
PopupWindow(inflater.inflate(R.layout.gd_quick_action_slide_fontsize,
null),LayoutParams.MATCH_PARENT,LayoutParams.MATCH_PARENT, true);
pw.showAtLocation(SettingActivity.this.findViewById(R.id.setting_fontsize),
Gravity.CENTER, 0, 0);
View v= pw.getContentView();
TextView tv=v.findViewById(R.id.....);
```

edited Jul 13 '17 at 7:45	answered Aug 21 '13 at 2:32
Suragch	SharpCx
286k 177 958 1003	**51** 1 2

4

```
Button endDataSendButton = (Button)findViewById(R.id.end_data_send_button);
```

Similarly you can get the text view by adding a id to it.

edited Oct 18 '11 at 11:53	answered May 10 '11 at 4:02
Jason Plank	blessenm
2,282 4 28 39	**29k** 12 60 72

@user746108 pw.showAtLocation(this.findViewById(R.id.text_view), Gravity.CENTER, 0, 0); TextView is only shown in the pop up..How can i fix the location of the button – jennifer May 10 '11 at 4:04 ✏

This an example from my code how to address a widget(button) in popupwindow

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```java
                pw.showAtLocation(rootView.findViewById(R.id.constraintLayout),
     Gravity.CENTER, 0, 0);


                }
            });
            final Button popup_btn=v.findViewById(R.id.popupbutton);

            popup_btn.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    popup_btn.setBackgroundColor(Color.RED);
                }
            });
```

Hope this help you

answered Nov 6 '18 at 10:35

Mohamed Ben
Romdhane
68　9

Edit your `style.xml` with:

-2

```xml
<style name="AppTheme" parent="Base.V21.Theme.AppCompat.Light.Dialog">
```

`Base.V21.Theme.AppCompat.Light.Dialog` provides a android *poup-up theme*

edited Apr 9 '19 at 16:42   answered Apr 9 '19 at 16:24

Pavel Smirnov   F   Fernando Lopes
4,052　3　11　22   **1**

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