



8. Android – UI – Using Menus

## **Using Menus**

Menus expose apps functionality without consuming 'much' view space.

Android provides two types of menu known as: **options menu** and **context menu**.

- 1. The *options menu* is triggered by pressing the hardware **Menu** button on the device, while
- 2. the *context menu* is raised by a *tap-and-hold* on the widget associated to the menu.

























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Example 1: Using Option and Context Menu	
<pre>private boolean applyMenuOption(MenuItem item){     int menuItemId = item.getItemId(); // 1, 2, 3,11     String strMsg2 = etMessage2.getText().toString();</pre>	
<pre>if (menuItemId &lt;= 5) {     // first five option are for setting text size     int newPointSize = arrayPointSize[menuItemId - 1];     etMessage1.setTextSize(newPointSize);     etMessage2.setTextSize(newPointSize);</pre>	
<pre>} else {     // either change color on text1 or style on text2</pre>	
<pre>if (menuItemId == 6)     etMessage1.setTextColor(0xfff0000); // red else if (menuItemId == 7)     etMessage1.setTextColor(0xff00ff00); // green</pre>	
<pre>else if (menuItemId == 8)     etMessage1.setTextColor(0xff0000ff); // blue else if (menuItemId == 9)</pre>	
<pre>etMessage2.setText(beautify(strMsg2, "BOLD")); //bold else if (menuItemId == 10)         etMessage2.setText(beautify(strMsg2, "ITALIC")); //italic else if (menuItemId == 11)</pre>	
<pre>etMessage2.setText(beautify(strMsg2, "NORMAL")); //normal } return false;</pre>	45
} //applyMenuOption	15













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Example 2: Enhancing Opti	on/Context Menu
This extension of the previous example adds icons and links to the Option Menu entries, as well as a sub-menu list tied to one the option menu buttons.	Image: Sector of the sector
Munudens2       Hello world       Hola mundo       Pres The MENA key of Long prest ket bases       10 points       20 points       30 points	<ul> <li>dos.png</li> <li>icon.png</li> <li>icon</li></ul>



















<pre>Stample 2: Creating an Option &amp; Context Menu  <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> </pre> </pre> </pre> </pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> </pre> </pre> </pre> </pre> </pre> </pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> </pre> </pre> </pre> </pre> </pre> </pre> <pre> &lt;</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	8. Android – U – Using Menus	Using Menus	Very similar to Example1 You may want to skip it
<pre><linearlayout android:background="#eeeeee" android:id="@+id/selection" android:layout_height="wrap_content" android:layout_width="fill_parent" android:orientation="vertical" xmlns:android="http://schemas.android.com/apk/res/android"></linearlayout> <listview android:id="@android:id/list" android:l<="" android:layout_height="fill_parent" android:layout_midth="fill_parent" android:layout_width="fill_parent" th=""><th>Example 2: Creating</th><th>an Option &amp; Context Menu encoding="utf-8"?&gt;</th><th></th></listview></pre>	Example 2: Creating	an Option & Context Menu encoding="utf-8"?>	
	<linearlayout xmlns:android="http: android:orientat android:layout_w android:layout_h <textview android:layo android:layo android:back <listview android:id=' android:id=' android:layo android:layo android:layo android:layo android:layo android:layo </listview </textview </linearlayout 	<pre>//schemas.android.com/apk/res/d ion="vertical" width="fill_parent" height="fill_parent" &gt; '@+id/selection" but_width="fill_parent" but_height="wrap_content" ground="#eeeeee"/&gt; '@android:id/list" but_width="fill_parent" but_height="fill_parent" selectorOnTop="false"</pre>	android"



8. Android – UI – Using Menus	Using	Menus	Very similar to Example1. You may want to skip it
Example 2: Creating a	an Option & Co	ontext Menu	
<pre>public class AndDemoUI of TextView selection; // data to be displaye String[] items = { "th "re public static final in public static final in</pre>	extends ListActiv ed in the ListView his", "is", "a", " eally3", "really4" ht EIGHT_ID ht SIXTEEN_ID ht TWENTY_FOUR_ID ht TWO_ID ht THIRTY_TWO_ID ht FORTY_ID ht ONE_ID	ity { "really", "really2", ", "really5", "silly = Menu.FIRST + 1; = Menu.FIRST + 2; = Menu.FIRST + 3; = Menu.FIRST + 4; = Menu.FIRST + 5; = Menu.FIRST + 6; = Menu.FIRST + 7;	", "list" };
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COSCO	Using Menu	S	Very similar to Example. You may want to skip it
Example 2: Creating a	an Option & Context Menu	ı	
private void populateMe	nu(Menu menu) {		
menu.add (Menu. <i>NONE</i> , menu.add (Menu. <i>NONE</i> , menu.add (Menu. <i>NONE</i> , menu.add (Menu. <i>NONE</i> , menu.add (Menu. <i>NONE</i> ,	ONE_ID, Menu.NONE, "1 Pixel"), TWO_ID, Menu.NONE, "2 Pixels", EIGHT_ID, Menu.NONE, "8 Pixels SIXTEEN_ID, Menu.NONE, "16 Pix TWENTY_FOUR_ID, Menu.NONE, "24	; ;; s"); xels"); 4 Pixels	");
<pre>menu.add (Menu.NONE, menu.add (Menu.NONE, }</pre>	THIRTY_TWO_ID, Menu.NONE, "32 FORTY_ID, Menu.NONE, "40 Pixe.	Pixels" ls");	);
	1 Pixel	2 Pixels	
		2 TIACIS	8 Pixels

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Example 2: Creating	an Option & Context Menu	
private boolean <b>ap</b>	olyMenuChoice(MenuItem item) {	
switch (item.g case ONE_1 getListVie return (tr	etItemId()) { TD: ww().setDividerHeight(1); rue);	
case <i>EIGHT</i> getListVie <b>return (tr</b>	<b>ID:</b> ww().setDividerHeight(8); rue);	
case <i>SIXTE</i> getListVie <b>return (tr</b>	<pre>ZEN_ID: ww().setDividerHeight(16); rue);</pre>	
case <i>TWENT</i> getListVie return (tr	<pre>YY_FOUR_ID: ww().setDividerHeight(24); rue);</pre>	
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8. Android – UI – Using Men	Using	Menus	Very similar to Example1. You may want to skip it
Example 3: Anothe	r App Using Mer	nus that include I	cons & Text
Application's Layout		AndroTe Menu: Op radi01: tr 7 Text: 11	tion CUATRO ue 15 15
Row1: TextView		Rad	io1
Row2: RelativeLayout holding			111 io2
RadioGroup Radio1 Radio2	EditText Box	Optic Optic	n UNO n DOS
Row3: ListView (acting as a Scrolli	ng Container)	Optic Optic Optic Optic Optic Optic	n TRES n CUATRO n UNO n DOS n TRES
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xamp	<b>e 3.</b> Menu Using Icons	& Tex	kt 🖉	STA	4
@Overri	de	<i>/</i>			
public	boolean onCreateOptionsMent	u (Menu	menu) {		
sui	er.onCreateOptionsMenu(men	u);			
Mei	uItem item1 = menu.add(0,	PICK1	Menu.NONE,	"Option UNO"	);
Mei	uItem item2 = menu.add(0,	PICK2.	Menu. NONE.	"Option DOS"	);
Mei	uItem item3 = menu.add(0,	PTCK3.	Menu. NONE.	"Option TRES	");
Mei	uItem item4 = menu.add(1,	PICK4,	Menu.NONE,	"Option CUAT.	RO");
11	set icons				
ite	m1.setIcon(R.drawable.uno)	;			
ite	m2.setIcon(R.drawable.dos)	;			
ite	m3.setIcon(R.drawable.tres	);		Make O	ption Menu
ite	m4.setIcon(R.drawable.cuat	ro);		Create items	icons shortcu
				create items,	
//:	shortcuts using device's ke	yboard	-keypad		
ite	<pre>m1.setShortcut('1', 'u');</pre>				
ite	<pre>m2.setShortcut('2', 'd');</pre>				
ite	<pre>m3.setShortcut('3', 't');</pre>				
ite	<pre>m4.setShortcut('4', 'c');</pre>				
ret	urn true;				
}//onCr	eateOptionsMenu				



Android - UI - Using Menus Using Menus	
Example 3. Menu Using Icons & Text	
//clicks down for a while (about 2 sec) on the textbox or lis	t
<pre>@Override public void onCreateContextMenu(ContextMenu menu, View v,</pre>	
<pre>super.onCreateContextMenu(menu, v, menuInfo);</pre>	😳 🅅 🚭 9:06
<pre>//add a couple of options to the context menu menu.setHeaderTitle("Select Special Action"); menu add(0, PICK1, Menu NONE, "Option-1 UNO special");</pre>	Select Special Action
<pre>menu.add(0, PICK2, Menu.NONE, "Option-2 DOS special");</pre>	Copy all
}//onCreateContextMenu	Input Method
}	Add "111" to dictionary
	Option-1 UNO special
context menu	Option-2 DOS special
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