

Shared Preferences

Preferences

- **SharedPreferences** object can store permanent settings and data for your app.
 - stores key/value pairs similar to a **Bundle** or **Intent**
 - pairs added to SharedPreferences persist after shutdown/reboot (unlike savedInstanceState bundles)
- Two ways to use it:
 - per-activity (getPreferences)
 - per-app (getSharedPreferences)



SharedPreferences example

- Saving preferences for the activity (in onPause, onStop):

```
1 SharedPreferences prefs = getPreferences(MODE_PRIVATE);
2 SharedPreferences.Editor prefsEditor = prefs.edit();
3 prefsEditor.putInt("name", value);
4 prefsEditor.putString("name", value);
5 ...
6 prefsEditor.apply();    // or commit();
```

- Loading preferences later (e.g. in onCreate):

```
1 SharedPreferences prefs = getPreferences(MODE_PRIVATE);
2 int i = prefs.getInt("name", defaultValue);
3 String s = prefs.getString("name", "defaultValue");
4 ...
```

Multiple pref files

- You can call `getSharedPreferences` and supply a file name if you want to have multiple pref. files for the same activity:
 - (Note: Usually you don't want this form. It is rare that one activity needs multiple preference files. The existing `getPreferences` can store many different preferences in it.)

```
1 SharedPreferences prefs = getPreferences(MODE_PRIVATE);  
2 SharedPreferences prefs = getSharedPreferences(  
3     "filename", MODE_PRIVATE);  
4 SharedPreferences.Editor prefsEditor = prefs.edit();  
5 prefsEditor.putInt("name", value);  
6 prefsEditor.putString("name", value);  
7 ...  
8 prefsEditor.commit();
```

Lib: SimplePreferences

Method	Description
<code>with(<i>activity</i>)</code>	returns a <code>SimplePreferences</code> instance
<code>set("name", <i>value</i>);</code>	sets an app preference
<code>getBoolean("name")</code>	returns an app preference
<code>getDouble("name")</code>	returns an app preference
<code>getInt("name")</code>	returns an app preference
<code>getLong("name")</code>	returns an app preference
<code>getString("name")</code>	returns an app preference
<code>contains("name")</code>	true if given preference is set
<code>has("name")</code>	

```
1 // easier version of SharedPreferences object
2 SimplePreferences.with(this)
3     .set("username", "stepp");
4 ...
5 String username = SimplePreferences.with(this)
6     .getString("username");
```

Lib: Shared preferences

Method	Description
<code>setShared("filename", "name", value);</code>	sets a shared preference
<code>getSharedBoolean("filename", "name")</code>	returns a preference
<code>getSharedDouble("filename", "name")</code>	returns a preference
<code>getSharedInt("filename", "name")</code>	returns a preference
<code>getSharedLong("filename", "name")</code>	returns a preference
<code>getSharedString("filename", "name")</code>	returns a preference
<code>containsShared("name")</code>	true if given shared preference is set
<code>hasShared("name")</code>	

```
1 // easier version of SharedPreferences object
2 SimplePreferences.with(this)
3     .setShared("myfile", "username", "stepp");
4 ...
5 String username = SimplePreferences.with(this)
6     .getSharedString("myfile", "username");
```