SharedPreferences

Saving Key-Value Sets

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Using Shared Preferences

If you have a relatively small collection of key-values that you'd like to save, you should use the `SharedPreferences` APIs. A `SharedPreferences` object points to a file containing key-value pairs and provides simple methods to read and write them. Each `SharedPreferences` file is managed by the framework and can be private or shared.

Get a Handle to a SharedPreferences

create a new shared preference file or access an existing one by calling one of two methods:

- `getSharedPreferences()` — Use this if you need multiple shared preference files identified by name, which you specify with the first parameter. You can call this from any `Context` in your app.
- `getPreferences()` — Use this from an `Activity` if you need to use only one shared preference file for the activity. Because this retrieves a default shared preference file that belongs to the activity, you don't need to supply a name.

For example, the following code is executed inside a `Fragment`. It accesses the shared preferences file that's identified by the resource string `R.string.preference_file_key` and opens it using the private mode so the file is accessible by only your app.

```
Context context = getActivity();
SharedPreferences sharedPref = context.getSharedPreferences(
        getString(R.string.preference_file_key),
Context.MODE_PRIVATE);
```

When naming your shared preference files, you should use a name that's uniquely identifiable to your app, such as `"com.example.myapp.PREFERENCE_FILE_KEY"`

Write to Shared Preferences

To write to a shared preferences file, create a `SharedPreferences.Editor` by calling `edit()` on your `SharedPreferences`.

Pass the keys and values you want to write with methods such as `putInt()` and `putString()`. Then call `commit()` to save the changes. For example:

```
SharedPreferences sharedPref =
getActivity().getPreferences(Context.MODE_PRIVATE);
SharedPreferences.Editor editor = sharedPref.edit();
editor.putInt(getString(R.string.saved_high_score),
newHighScore);
editor.commit();
```

Read from Shared Preferences

To retrieve values from a shared preferences file, call methods such as `getInt()` and `getString()`, providing the key for the value you want, and optionally a default value to return if the key isn't present. For example:

```
SharedPreferences sharedPref =
getActivity().getPreferences(Context.MODE_PRIVATE);
int defaultValue =
getResources().getInteger(R.string.saved_high_score_default);
long highScore =
sharedPref.getInt(getString(R.string.saved_high_score),
defaultValue);
```