

Android Storage Options

Option 1: SharedPreferences

Storage Options

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Using Shared Preferences

- The SharedPreferences class provides a general framework that allows you to save and retrieve persistent key-value pairs of primitive data types
 - You can use SharedPreferences to save any primitive data: booleans, floats, ints, longs, and strings
 - This data will persist across user sessions (even if your application is killed)
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Get a SharedPreferences object

- `getSharedPreferences()` - Use this if you need multiple preferences files identified by name, which you specify with the first parameter
 - `getPreferences()` - Use this if you need only one preferences file for your Activity. Because this will be the only preferences file for your Activity, you don't supply a name
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Write to a SharedPreferences Object

- Call `edit()` to get a `SharedPreferences.Editor`
 - Add values with methods such as `putBoolean()` and `putString()`
 - Commit the new values with `commit()`
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```
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 a SharedPreferences Object

abstract <code>Map<String, ?></code>	<code>getAll()</code> Retrieve all values from the preferences.
abstract <code>boolean</code>	<code>getBoolean(String key, boolean defValue)</code> Retrieve a boolean value from the preferences.
abstract <code>float</code>	<code>getFloat(String key, float defValue)</code> Retrieve a float value from the preferences.
abstract <code>int</code>	<code>getInt(String key, int defValue)</code> Retrieve an int value from the preferences.
abstract <code>long</code>	<code>getLong(String key, long defValue)</code> Retrieve a long value from the preferences.
abstract <code>String</code>	<code>getString(String key, String defValue)</code> Retrieve a String value from the preferences.
abstract <code>Set<String></code>	<code>getStringSet(String key, Set<String> defValues)</code> Retrieve a set of String values from the preferences.



```
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);
```












