

A seagull is shown in flight, wings spread wide, against a dramatic sky with orange and blue clouds. The seagull is white with dark wingtips and a yellow beak. The sky is a mix of deep blue and vibrant orange, with scattered white clouds.

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Shared Preferences For Persistence



| Topic to be covered in this session

- ♣ Shared Preferences for persistence

Shared Preferences for Persistence

- | Android applications can store data in application preferences.
- | In this tutorial, you learn how to store persistent application data with **shared preferences**.

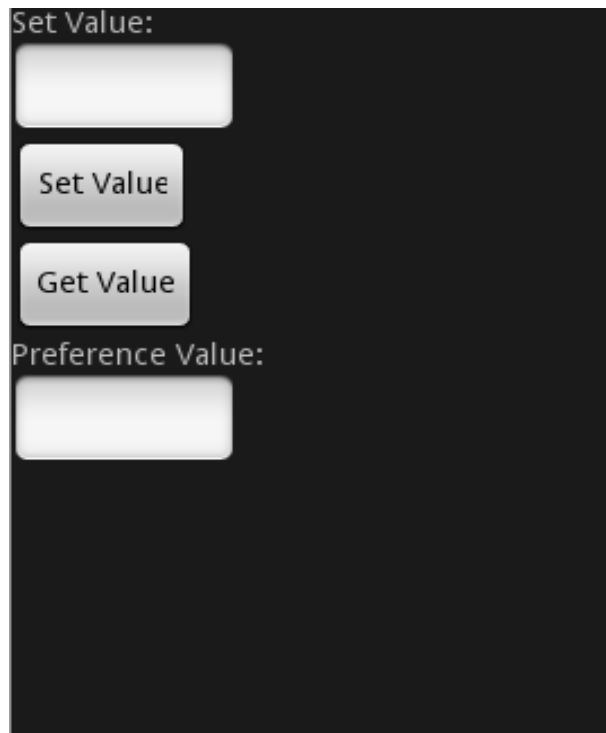
Shared Preferences for Persistence

- | Preferences in Android are used to keep track of application and user preferences.
- | In any application, there are default preferences that can be accessed through the
 - ♣ **PreferenceManager** instance and its related method
 - ♣ **getDefaultSharedPreferences(Context)**
- | With the **SharedPreferences** instance one can retrieve the int value of any preference
 - ♣ with the **getInt(String key, int defVal)**.
- | In our case, we can modify the **SharedPreferences** instance in our case using the
 - ♣ **edit()** and use the **putInt(String key, int newVal)**

Shared Preferences for Persistence

We see an example of this:

- ♣ We create a project
- ♣ We also create a layout



New Android Project

Creates a new Android Project resource.



Project name: SharedPreferenceDemo

Contents

- ☒ Create new project in workspace
- ☐ Create project from existing source
- ☒ Use default location

Location: D:/android workspace/SharedPreferenceDemo

Browse...

- ☐ Create project from existing sample

Samples: ApiDemos

Build Target

Target Name	Vendor	Platform	API ...
<input type="checkbox"/> Android 1.5	Android Open Source Project	1.5	3
<input type="checkbox"/> Google APIs	Google Inc.	1.5	3
<input checked="" type="checkbox"/> Android 1.6	Android Open Source Project	1.6	4

Standard Android platform 1.6

Properties

Application name: SharedPreferenceDemo

Package name: com.basistraining.sharedprefdemo

☒ Create Activity: SharedPreferenceDemoActivity

Min SDK Version: 4

Shared Preferences for Persistence

Here is our activity

```
public class SharedPreferenceDemoActivity extends Activity {
    EditText currentValue, setValue;
    Button btnSet, btnGet;
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        currentValue = (EditText) findViewById(R.id.currentValue);
        setValue = (EditText) findViewById(R.id.setValue);
        btnSet = (Button) findViewById(R.id.btnSet);
        btnGet = (Button) findViewById(R.id.btnGet);

        btnSet.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                // save persistent value
            }
        });
        btnGet.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                // get persistent value
            }
        });
    }
}
```

Shared Preferences for Persistence

We read and write now

```
app_preferences = PreferenceManager.getDefaultSharedPreferences(this);  
btnSet.setOnClickListener(new View.OnClickListener() {
```

```
    @Override  
    public void onClick(View v) {  
        // save persistent value  
        SharedPreferences.Editor editor = app_preferences.edit();  
        editor.putString("myvalue", setValue.getText().toString()  
            .trim());  
        Log.d("Preference", setValue.getText().toString().trim());  
        editor.commit();  
    }  
});
```

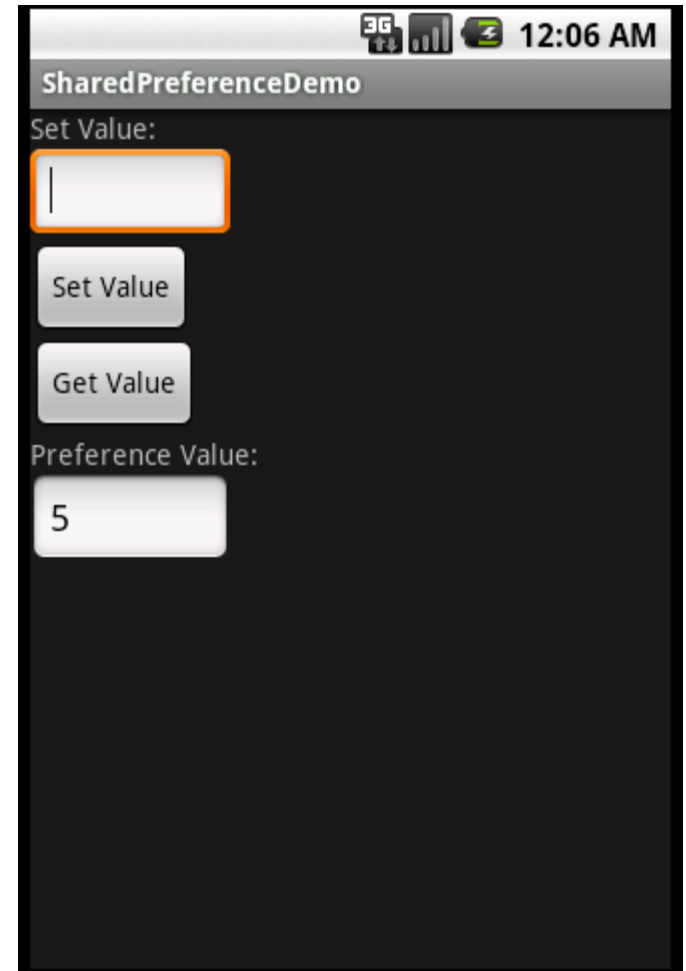
```
btnGet.setOnClickListener(new View.OnClickListener() {
```


```
    @Override  
    public void onClick(View v) {  
        // get persistent value  
        String myPreferenceValue = app_preferences.getString("myvalue",  
            "");  
        currentValue.setText(myPreferenceValue);  
        Log.d("Preference", myPreferenceValue);  
    }  
});
```

Shared Preferences for Persistence

Now we run the app:

- | For testing we set a value
- | Exit application
- | Launch the app again
- | Retrieve the value





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