SharedPreferences

android.content.SharedPreferences

Class Overview

Interface for accessing and modifying preference data returned by `getSharedPreferences(String, int)`. For any particular set of preferences, there is a single instance of this class that all clients share. Modifications to the preferences must go through an `SharedPreferences.Editor` object to ensure the preference values remain in a consistent state and control when they are committed to storage.

Note: currently this class does not support use across multiple processes. This will be added later.

Developer Guides

For more information about using SharedPreferences, read the Data Storage developer guide.

See Also

- `getSharedPreferences(String, int)`

Summary

Nested Classes		
interface	SharedPreferences.Editor	Interface used for modifying values in a `SharedPreferences` object.
interface	SharedPreferences.OnSharedPreferenceChangeListener	Interface definition for a callback to be invoked preference is changed.

Public Methods		
abstract boolean	contains(String key)	Checks whether the preferences contains a preference.
abstract SharedPreferences.Editor	edit()	Create a new Editor for these preferences, through which you can make modifica preferences and atomically commit those changes back to the SharedPreference

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abstract Map<String, ?>	getAll() Retrieve all values from the preferences.
abstract boolean	getBoolean(String key, boolean defValue) Retrieve a boolean value from the preferences.
abstract float	getFloat(String key, float defValue) Retrieve a float value from the preferences.
abstract int	getInt(String key, int defValue) Retrieve an int value from the preferences.
abstract long	getLong(String key, long defValue) Retrieve a long value from the preferences.
abstract String	getString(String key, String defValue) Retrieve a String value from the preferences.
abstract Set<String>	getStringSet(String key, Set<String> defValues) Retrieve a set of String values from the preferences.
abstract void	registerOnSharedPreferenceChangeListener(SharedPreferences.OnSharedPrefer Registers a callback to be invoked when a change happens to a preference.
abstract void	unregisterOnSharedPreferenceChangeListener(SharedPreferences.OnSharedPref Unregisters a previous callback.

Public Methods

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*public abstract boolean **contains** (String key)*

Checks whether the preferences contains a preference.

Parameters

    key   The name of the preference to check.

Returns

- Returns true if the preference exists in the preferences, otherwise false.

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*public abstract SharedPreferences.Editor **edit** ()*

Create a new Editor for these preferences, through which you can make modifications to the data in the preferences and atomically commit those changes back to the SharedPreferences object.

Note that you *must* call `commit()` to have any changes you perform in the Editor actually show up in the SharedPreferences.

Returns

- Returns a new instance of the `SharedPreferences.Editor` interface, allowing you to modify the values in this SharedPreferences object.

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*public abstract Map<String, ?> **getAll** ()*

Retrieve all values from the preferences.

Returns

- Returns a map containing a list of pairs key/value representing the preferences.

Throws

    NullPointerException

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*public abstract boolean **getBoolean** (String key, boolean defValue)*

Retrieve a boolean value from the preferences.

Parameters

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key The name of the preference to retrieve.

defValue Value to return if this preference does not exist.

Returns

-   Returns the preference value if it exists, or defValue. Throws ClassCastException if there is a preference with this name that is not a boolean.

Throws

 ClassCastException

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public abstract float **getFloat** *(String key, float defValue)*

Since: API Level 1

Retrieve a float value from the preferences.

Parameters

key The name of the preference to retrieve.

defValue Value to return if this preference does not exist.

Returns

-   Returns the preference value if it exists, or defValue. Throws ClassCastException if there is a preference with this name that is not a float.

Throws

 ClassCastException

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public abstract int **getInt** *(String key, int defValue)*

Since: API Level 1

Retrieve an int value from the preferences.

Parameters

key The name of the preference to retrieve.

defValue Value to return if this preference does not exist.

Returns

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- Returns the preference value if it exists, or defValue. Throws ClassCastException if there is a preference with this name that is not an int.

Throws

ClassCastException

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public abstract long **getLong** *(String key, long defValue)*

Since: API Level 1

Retrieve a long value from the preferences.

Parameters

key　　　The name of the preference to retrieve.

defValue　Value to return if this preference does not exist.

Returns

- Returns the preference value if it exists, or defValue. Throws ClassCastException if there is a preference with this name that is not a long.

Throws

ClassCastException

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public abstract String **getString** *(String key, String defValue)*

Since: API Level 1

Retrieve a String value from the preferences.

Parameters

key　　　The name of the preference to retrieve.

defValue　Value to return if this preference does not exist.

Returns

- Returns the preference value if it exists, or defValue. Throws ClassCastException if there is a preference with this name that is not a String.

Throws

ClassCastException

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*public abstract Set<String> **getStringSet** (String key, Set<String> defValues)*

Since: API Level 11

Retrieve a set of String values from the preferences.

Parameters

> key   The name of the preference to retrieve.

> defValues   Values to return if this preference does not exist.

Returns

* Returns the preference values if they exist, or defValues. Throws ClassCastException if there is a preference with this name that is not a Set.

Throws

> ClassCastException

*public abstract
void **registerOnSharedPreferenceChangeListener** (SharedPreferences.OnSharedPreferenceChangeListener listener)*

Since: API Level 1

Registers a callback to be invoked when a change happens to a preference.

Parameters

> listener   The callback that will run.

See Also

* unregisterOnSharedPreferenceChangeListener(SharedPreferences.OnSharedPreferenceChangeListener)

*public abstract
void **unregisterOnSharedPreferenceChangeListener** (SharedPreferences.OnSharedPreferenceChangeListener listener)*

Since: API Level 1

Unregisters a previous callback.

Parameters

> listener   The callback that should be unregistered.

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