

# toSharedPreferences Format Standardized

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## Example ID:

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**KRONOS\_20191121\_113347\_331213432313791461.jpg**

## Contents

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Please follow the exact same string, lowercase and uppercase

Key	Value	Value Type
title	{ title of the event }	String
location	{ location of event }	String
description	{ description of event }	String
fromDate	TUESDAY 23/11/2019	String
fromTime	01:27	String
toDate	TUESDAY 23/11/2019	String
toTime	01:27	String
reminder	true	boolean
imgPath	storage/emulated/0/android/data/com.example.kronos/files/pictures/KRONOS_20191121_113347_331213432313791461.jpg	String

## Image Storage File Path & SharedPreferences ID

**This is an example of the image file name after taking a photo**

storage/emulated/0/android/data/com.example.kronos/files/pictures/KRONOS\_20191121\_113347\_331213432313791461.jpg

**The image file name will conveniently be set the same as the corresponding SP ID as shown above**

## Method to generate correct ID / Image Filename format

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```
String timeStamp = new SimpleDateFormat("yyyyMMdd_HH:mm:ss",
Locale.ENGLISH).format(new Date());
String imageFileName = "KRONOS_" + timeStamp + "_";

File storageDir =
context.getExternalFilesDir(Environment.DIRECTORY_PICTURES);
File image = File.createTempFile(
    imageFileName, /* prefix */
    ".jpg",        /* suffix */
    storageDir     /* directory */
);
```

## Save SharedPreferences Utility

Use this function to save a shared preferences in the format we standardize

**prefName:** the **ID** of the SP, followed the format stated above)

```
void savePref(String prefName, String title, String location, String
description, String fromDate, String fromTime, String toDate, String toTime,
Boolean reminder, String imagePath){
    SharedPreferences sharedPref =
this.context.getSharedPreferences(prefName, Context.MODE_PRIVATE);
    SharedPreferences.Editor editor = sharedPref.edit();
    editor.putString("title", title);
    editor.putString("location", location);
    editor.putString("description", description);
    editor.putString("fromDate", fromDate);
    editor.putString("fromTime", fromTime);
    editor.putString("toDate", toDate);
    editor.putString("toTime", toTime);
    editor.putBoolean("reminder", reminder);
    editor.putString("imgPath", imagePath);
    editor.apply();
    Toast.makeText(this.context, "Entry saved with ID: " + prefName,
Toast.LENGTH_SHORT).show();
}
```

## Retrieve SharedPreferences Utility

Use this function to retrieve the SP and access its contents

**prefName:** the **ID** of the SP, followed the format stated above)

*! for getting values from SP, you need to put in a default value as the second argument*

```
SharedPreferences retrievePref(String prefName){
    return this.context.getSharedPreferences(prefName,
Context.MODE_PRIVATE);
} // this part retrieve the SP

// this is to get the current calendar date and time
```

```
// it is used as default value for get SP below
final Calendar cldr = Calendar.getInstance();
    final int year = cldr.get(Calendar.YEAR);
    final int month = cldr.get(Calendar.MONTH);
    final int dayNum = cldr.get(Calendar.DAY_OF_MONTH);
    final int day = cldr.get(Calendar.DAY_OF_WEEK);
    final int hour = cldr.get(Calendar.HOUR_OF_DAY);
    final int min = cldr.get(Calendar.MINUTE);
    final GalleryUtils galleryUtils = new
GalleryUtils(MainActivity.this);

        String dayStr = galleryUtils.convertDay(day); // this method
converts day in integer to day as String -> see below for the code

// this part calls the retrieveSP method and get relevant contents out
SharedPreferences pref = retrievePref(sharedPref);
    String title = pref.getString("title", "");
    String location = pref.getString("location", "");
    String description = pref.getString("description", "");
    String fromDate = pref.getString("fromDate", String.format("%s
%d/%d/%d", dayStr, dayNum, month+1, year));
    String fromTime = pref.getString("fromTime",
String.format("%d:%d", hour, min));
    String toDate = pref.getString("toDate", String.format("%s
%d/%d/%d", dayStr, dayNum, month+1, year));
    String toTime = pref.getString("toTime", String.format("%d:%d",
hour, min));

    Boolean reminder = pref.getBoolean("reminder", false);
    String imgPath = pref.getString("imgPath", "");
```

## Sub utility to convert day-of-week in Integer to String

```
String convertDay(int day) {
    String dayStr;

    switch (day) {
        case Calendar.MONDAY:
            dayStr = "Monday";
            break;
        case Calendar.TUESDAY:
            dayStr = "Tuesday";
            break;
        case Calendar.WEDNESDAY:
            dayStr = "Wednesday";
            break;
        case Calendar.THURSDAY:
            dayStr = "Thursday";
            break;
        case Calendar.FRIDAY:
            dayStr = "Friday";
            break;
        case Calendar.SATURDAY:
            dayStr = "Saturday";
            break;
        case Calendar.SUNDAY:
            dayStr = "Sunday";
            break;
    }
}
```

```
        default:
            dayStr = "";
            break;
    }
    return dayStr;
}
```