



## Flash Card Maker Pro - File Specification

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## Document History

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## Introduction

### Purpose

The purpose of this document is to provide an explanation of the file format used to transfer flash card decks between separate instances of Flash Card Maker Pro on Android enabled phones.

### Background

Flash Card Maker Pro is an Android application that allows users to create digital flash cards and organize them into categories or decks. Users of Flash Card Maker Pro can share decks of cards with each other via email. Flash Card Maker Pro decks are saved as text files and can also be downloaded to the SD Card and loaded using a 3<sup>rd</sup> party file manager program like 'Astro File Manager' available for free on the Android Market. The new Mozilla web client called 'Fennec' allows for direct download of Flash Card Maker Pro decks from the web making it easy to share flash card decks via the online repository.

## Applicable Documents

### Mandatory

M1

### Reference

R1

# File Specification

## Supported Mime Types

On the Android operating system files are associated with applications using the mime type rather than the file extension. When a file is launched or activated on an Android phone either from an email attachment or from the SD card the operating system will display a list of pre-installed Android applications that are capable of opening the file. (Note: Mime types are sometimes dynamically updated based on the source of the file. For example a file downloaded from the web will most often be associated with text/html or application/xhtml+xml depending on the web server configuration. Files saved onto the SD card will often be associated with text/plain mime type.) Flash Card Maker Pro can open files with the following mime types:

1. text/html
2. text/plain
3. application/xhtml+xml
4. application/vnd.wap.xhtml+xml

## File Delineators

Three text delineators are used to store information about a flash card deck within the file. A string parsing routine will search through the file and separate the sections based on the location of these delineators:

1. `##` - Separates the file into three major sections.
  - I. File Version
  - II. Flash Card Deck Description
  - III. Flash Cards and Properties
2. `^^` - Separates the individual flash cards from one another.
3. `|` - Separates the properties (or fields) within each section.

## File Structure

Lets examine the structure of the data within the three major sections in order to gain a full understanding of the file format. Files are saved as text using 'txt' extension (i.e. FlashCardDeck\_PrimaryColors.txt) Each major section within the file is separated by `##`.

### File Version

**Specification:** ProgramName\_Property\_Number

**Format:** String

**Example:** FlashCardMaker\_Version\_1

**Recommendation:** Leave as is.

## Flash Card Deck Description

**Specification:** DeckID|Title|Description|CreatedDate|LastModifiedDate

**Format:** Integer|String|String|Integer|Integer

**Example:** 1|Days of the week.|Flash Card Deck containing days of the week in English.|1284300346735|1285517160999

**Recommendation:** Always make sure to have four '|' in this section. Leave DeckID as 1. The dates are represented as Java formatted integers. Copy a pre-existing value for temporary placeholders. The dates will be updated upon import.

## Flash Cards and Properties

**Specification:** FlashCardID|Question|Answer|Enabled|FontSize|BackgroundColor|SortOrder|CreatedDate|LastModifiedDate

**Format:** Integer|String|String|String|String|NegativeInteger|Integer|Integer|Integer

Enabled = OFF or ON (OFF is visible, ON is hidden)

FontSize = Small, Medium, or Large

BackgroundColor = Java Color Integer (i.e -58112 is red)

**Example 1:** 1|Monday|First Day of the Work Week|OFF|Small|-58112|0|1284300704048|1284300735707

**Example 2:** 2|Tuesday|Second Day of the Work Week|OFF|Medium||1|1284300704048|1284300735707

**Recommendation:** Always make sure to have eight '|' per flash card. Separate flash cards with '^'. Increment FlashCardID and SortOrder by 1. The background color is represented by java color integer and either needs to be looked-up on the web or configured within the application. If you leave background color blank like in example 2 it will default to white. The dates are represented as Java formatted integers. Copy a pre-existing value for temporary placeholders. The dates will be updated upon import.

## Example File with Deck of Flash Cards Containing Primary Colors

```
FlashCardMaker_Version_1##3|Primary Colors.|Flash Card Deck with primary
colors.|1284301048555|1285517160999##18|Red|apples are often red in
color.|OFF|Large|-58112|0|1284301098542|1285104978511^^19|Green|the grass
outside is green.|OFF|Large|-16711816|1|1284301170068|1284930730243
^^20|Blue|this is the color of the sky.|OFF|Small|-16645889|2|1284301179984
|1284943685676^^
```

# Appendix A

## Notes