
Mobility Toolkit QThemeCreator



User's Manual

Version 0.0.1, 2007/05



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1 Introduction

1.1 Aim of this Document

This document is a guide to **QThemeCreator**, with which you can create and design themes to customize mobile phones from Qisda.

1.2 Overview

Chapter 1 - Introduction

This chapter describes the purpose and structure of this document.

Chapter 2 - System Requirements

This chapter describes minimum hardware and software requirement to use QThemeCreator.

Chapter 3 - Basics

This chapter introduces basic concepts necessary to understand and use QThemeCreator.

Chapter 4 - Creating Themes

This chapter explains how to use QThemeCreator to create themes.

2 System Requirements

QThemeCreator requires only a few megabytes of hard disk space and relatively little processing power to run. However, in order to get better preview quality we suggest that users configure their monitor resolution to at least 800*600 pixels, where 1024*768 is highly recommended.

2.1 Hardware Requirements

The minimum required hardware configurations are:

- ◆ Intel® Pentium® 166MHz or compatible processor
- ◆ 128 MB RAM
- ◆ 10 MB hard disk space

2.2 Software Requirements

- ◆ Windows™ 2000, Windows™ XP

3 Basics

3.1 What is a Theme?

A theme is a collection of resources (images, animations, sounds and ring tones), settings (a selection of one or more options which determine how a mobile phone behaves) and text colors. A theme may be designed around a particular topic such as a soccer team, a pop star, a film or another area of interest.

3.2 What is a Color Scheme?

A theme has a Color Scheme. This is for the set of displayed elements that can be assigned with different colors. For example, soft key text, title text or text backgrounds and so on.

3.3 What is a Unloadable Theme?

A Unloadable Theme is a packed file, containing a theme. Packing makes it easier to distribute and install the theme into a compatible mobile device.

Currently there are two specifications for SDT files (used for different mobile models), but this is seamlessly handled by QThemeCreator.

A special resource found in the Unloadable Theme is the resource description file. This is an XML file which contains resource assignments. The extension of this file is either STC for Theme Concept V1.0 or SPC for Theme Concept V1.1 and Theme Concept V2.0. The resource description file must be named either "config.stc" or "config.spc" respectively, no matter how the configuration file is renamed during the unpacking procedure.

Currently, QThemeCreator supports themes for SF71 (Caesar) and M7 (Flint) phones. The main differences between themes are in the total number of files included in the package and the structure of the resource description file.

3.4 What is QThemeCreator?

QThemeCreator is a GUI software which applies WYSIWYG (What You See Is What You Get) concept to help theme designers efficiently build a correct, usable, and unloadable theme. By configuring images, text colors, animations and ringtones via QThemeCreator user can easily get an overall look of theme and make any changes without actual installation of theme to mobile device. Once when user is satisfied with the theme design, s/he can upload theme to mobile device through QThemeCreator. In a word, QThemeCreator is a combination of design and upload tool for themes of Qisda compatible mobile devices.

4 Creating Themes

4.1 Define your Mobile Phone Target Group

Before creating a new theme, define your target mobile phone model(s):

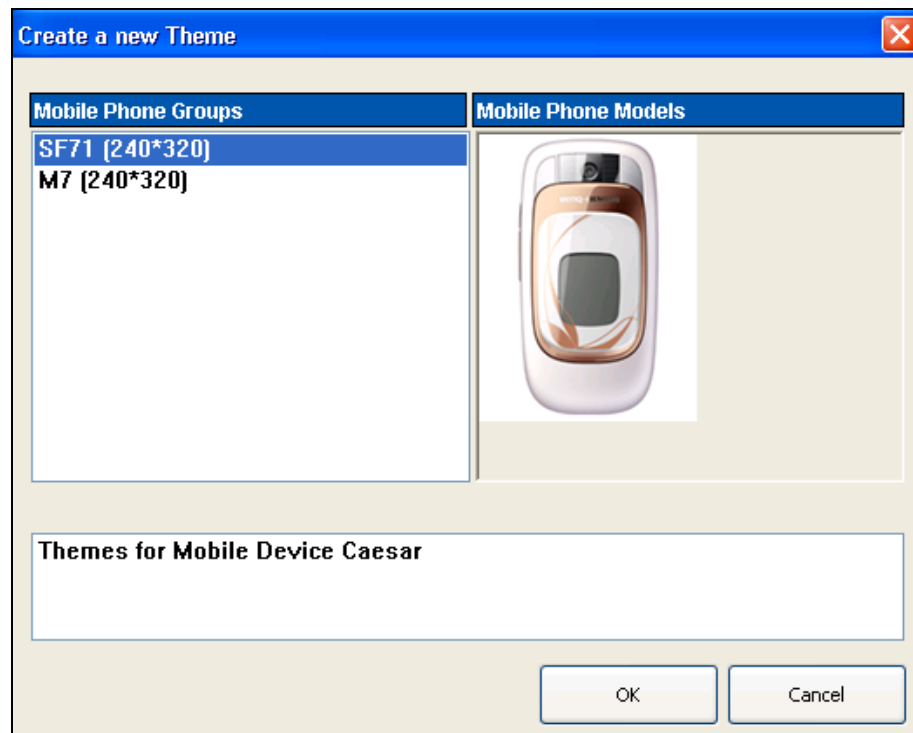


Figure 1 - Create a New Theme

Select a **Mobile Phone Group** and click .

Note:

- All mobiles supported by **QThemeCreator** are displayed. If you are looking for a model and it is not shown, it means this model is not yet supported by **QThemeCreator**.

4.2 Understanding the QThemeCreator User interface

Main Screen

The **QThemeCreator** main screen displays a variety of detailed information. This is described in the sections below.

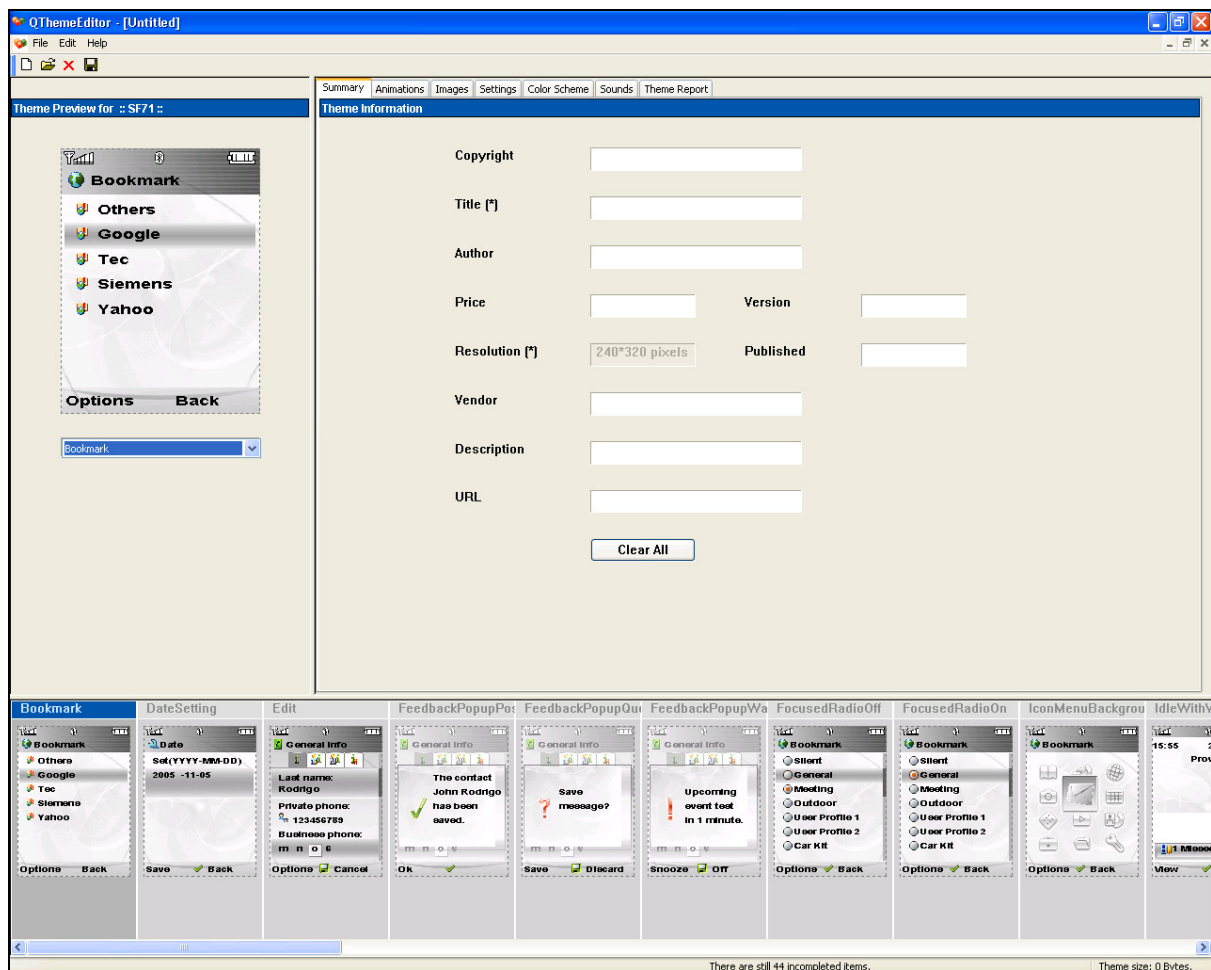
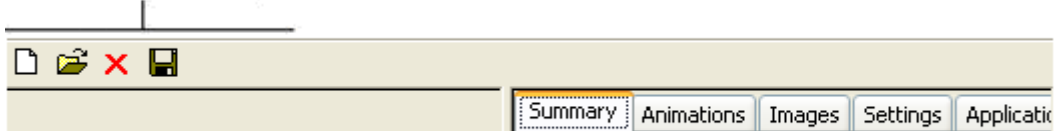


Figure 2 - QThemeCreator Interface

Menu Items and Tabs

The following images show the most important icons and tabs of the **QThemeCreator** interface:

Fast access to the menu options: File and Edit



Tabs for navigating during the creation of the theme

Theme Preview

The theme preview area shows a snapshot of the selected screen:

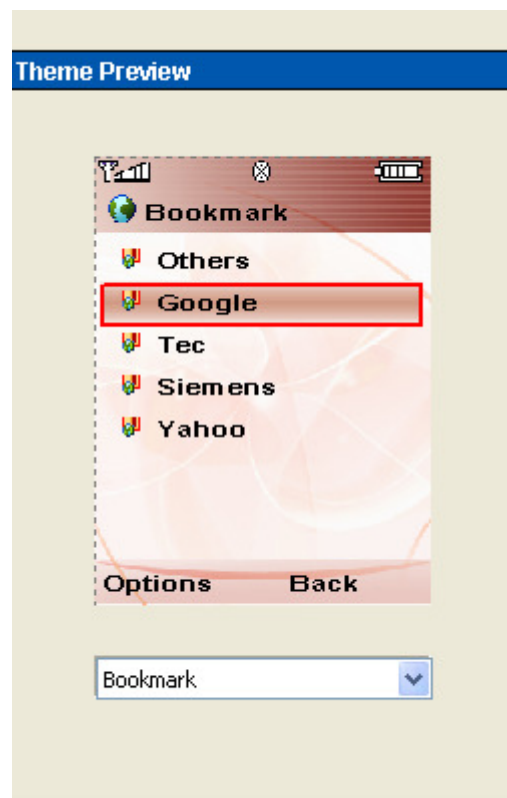



Figure 3 – Preview Theme

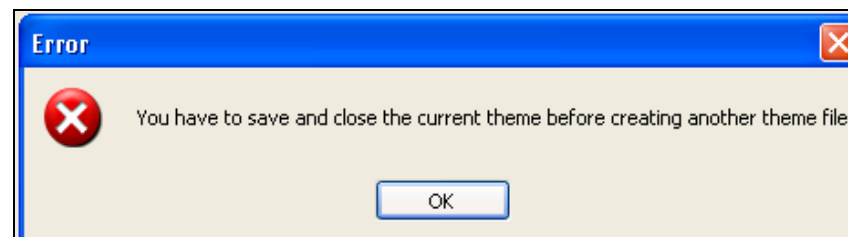
4.3 Understanding the File Menu

Create a New Theme

Use this function to **create a new theme**.

Note:

- If you click the  button, and there is a current editing theme opened, the application displays the following message, to remind you to save and close the current theme:



Open Theme

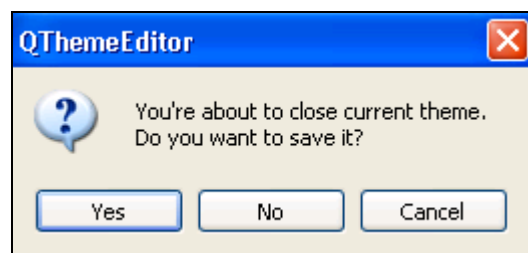
Use this option to open an existing theme for visualization and/or editing.

Note:

- If the size of files (*.sdt) exceeds 4MB, QThemeCreator will not open this theme and display a warning message.

Close Theme

This function closes an opened theme. If changes have been made, **QThemeCreator** displays a message screen for confirmation before discarding any unsaved changes:



If you select , the application displays the **Save dialog**, so that the theme can be saved:

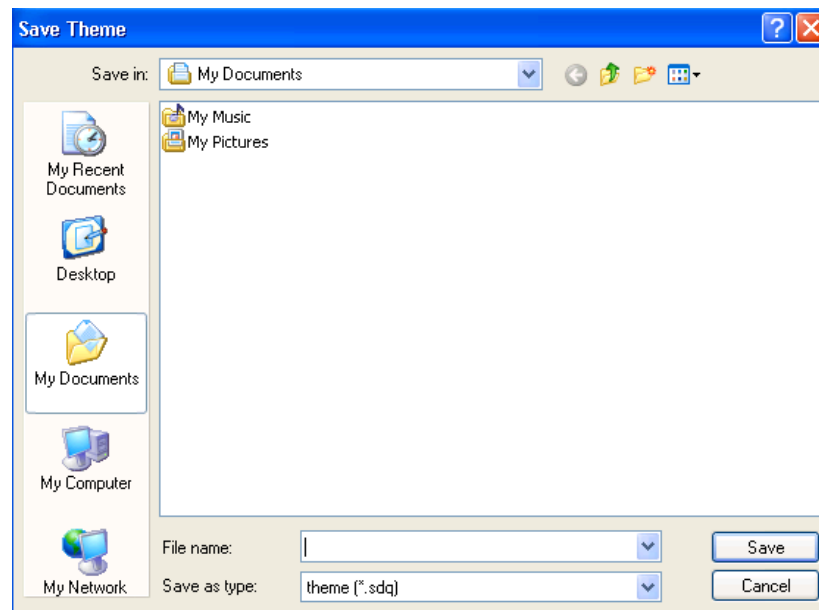
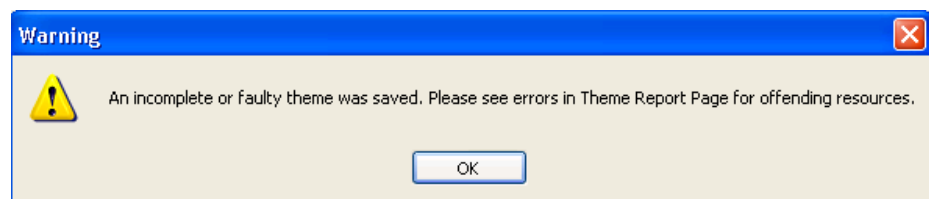


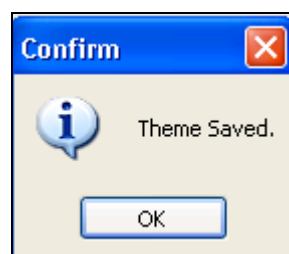
Figure 4 - Save Dialog Box

Enter a name for the theme file and click the button. The application then displays the following message:



Note:

- When all parts of the theme (mandatory and non-mandatory) are not completely filled out, the application displays the previous message, indicating that theme is not complete yet. After clicking the button, the following message is displayed:

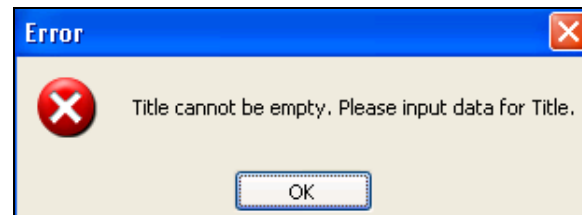


Save Theme

This function saves a theme.

Note:

- Files are saved with the **SDT** extension.
- To save a theme file at least the title field must be filled out. Otherwise user will receive following warning message.



- Please don't save file on the "Desktop".
- The total size of theme should not exceed 4MB; otherwise QThemeCreator won't save this theme.

Save Theme As

This function saves a copy of a theme, leaving the original file intact.

- Please don't save file on the "Desktop".
- The total size of theme should not exceed 4MB; otherwise QThemeCreator won't save this theme.

Import/Export Color Scheme

With these commands, you can export the current **Color Scheme** for use by another theme (export), or reuse an existing **Color Scheme** by importing it into the current theme (import).

Note:

- **Color Schemes** are saved with the **COL** extension.

Export to Brew Format

This function exports a theme to the **Brew** format.

Successful export in **Brew** format is followed by the following message:

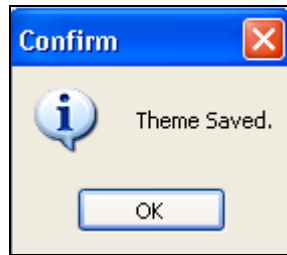


Figure 5 - Export successful

Note:

- The files created have the extension: ***.SDT**, and users need to input the filename by themselves, as shown below:

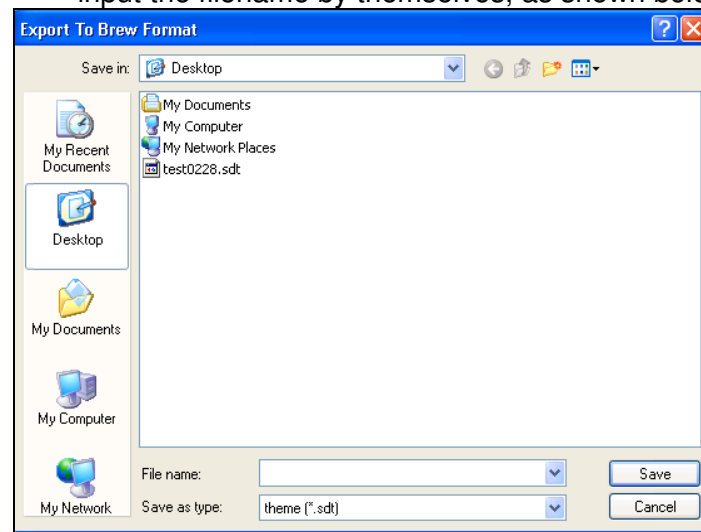


Figure 6 – Export to Brew Format Box

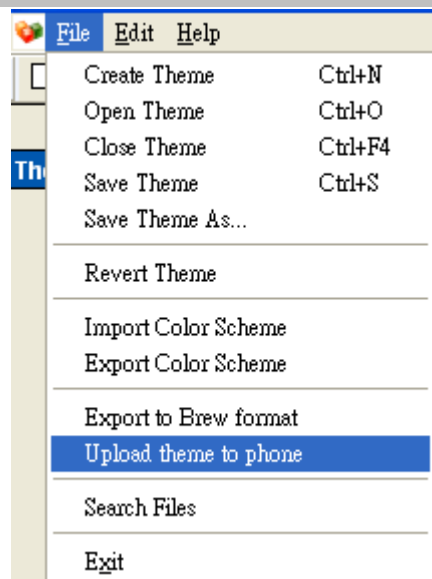
- You can only export to **Brew** format if the theme is complete and free of errors.

Upload theme to phone

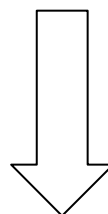
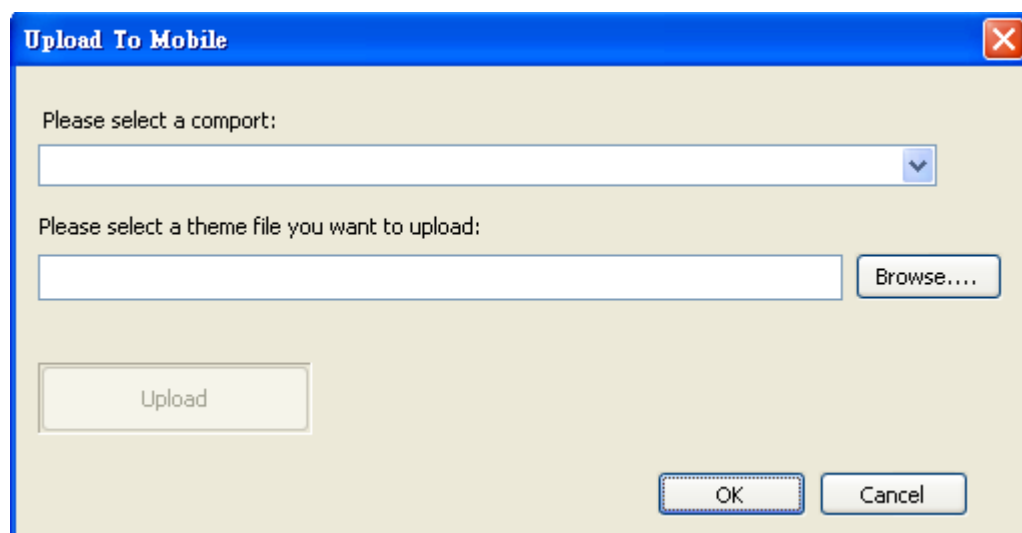
This function can upload finished themes to a corresponding phone. Users can check the themes on the phone directly.

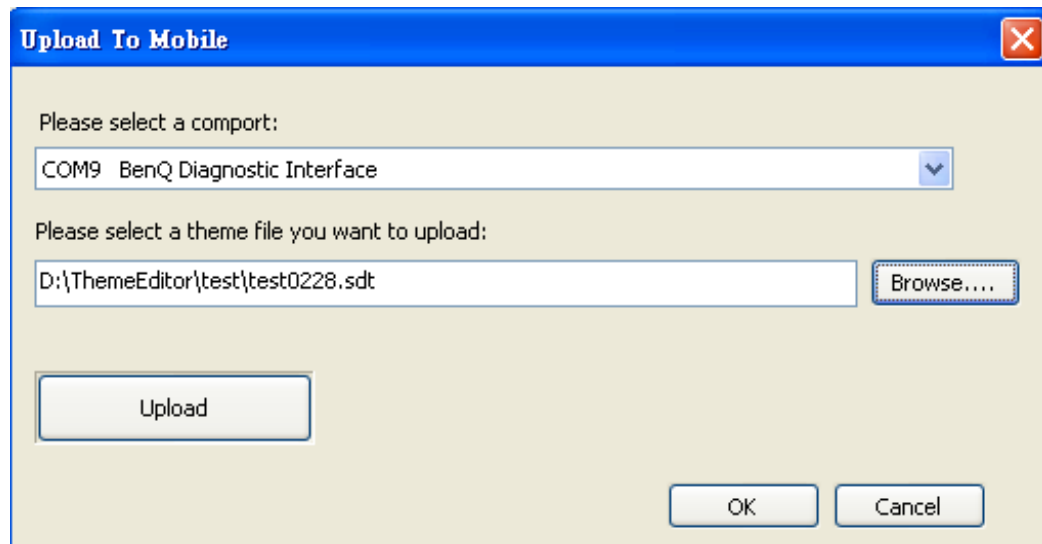
If the function is performed successfully, the following message will prompt one after another:

- After users complete all the themes editing with no errors, the function, Upload theme to phone, will be enabled automatically.

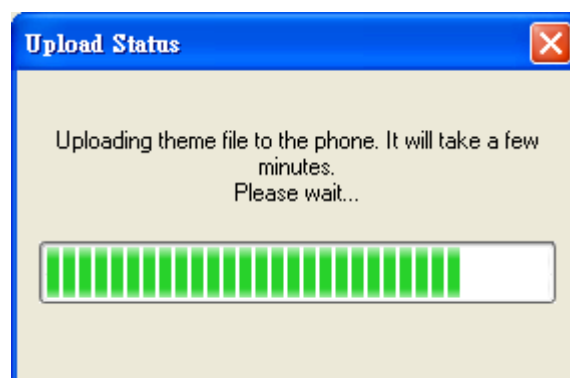


- Fill in the two columns. The first one is to choose the com port which connects to the phone. The second one is to select a theme file to upload to the phone.

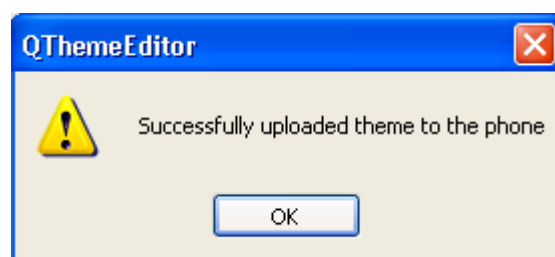


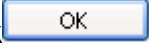
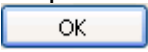


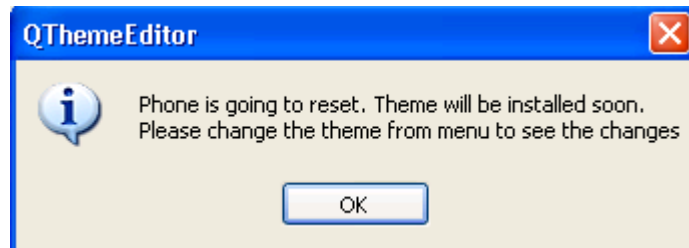
- After finished the two columns, please click to upload theme to the phone.



- There will prompt a message box to inform users about the successful action.



- After users click , QThemeCreator pops up another dialog to remind users that the mobile phone will restart automatically. After users click the  for this dialog, mobile phone will restart and be ready for users to check themes.

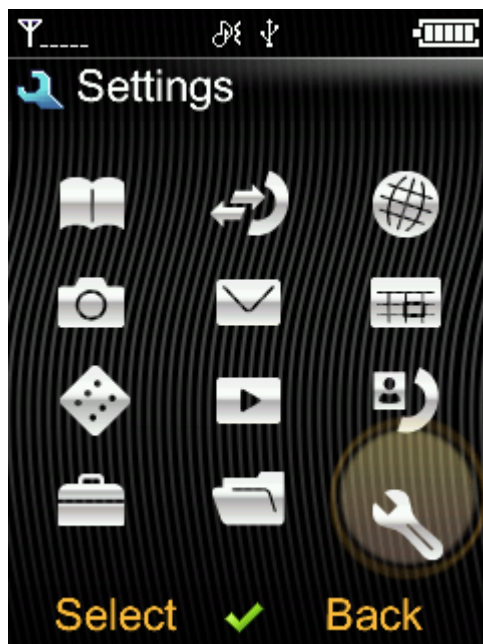


NOTE1: If users modify some settings in the theme by QThemeCreator, users have better to change the title on the Summary tab page before they save the modified themes or upload the modified themes to the phone. Since mobile phones differentiate themes from the themes' titles and an uploaded theme can't be overwritten, users can not modify one theme and upload it with the original title which is already installed on the phone.

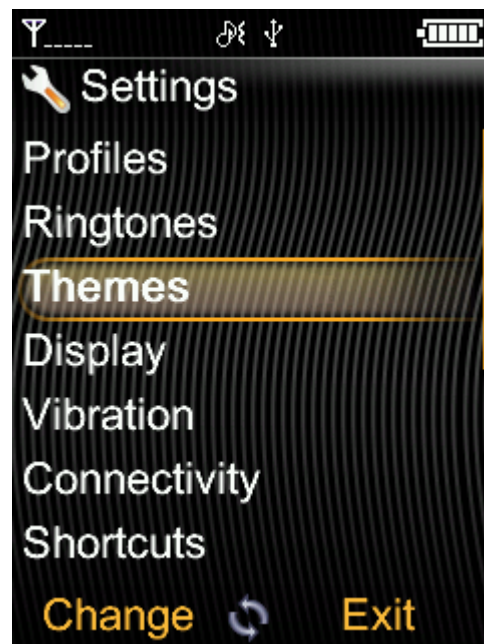
NOTE2: Check the themes on the phone:

Take Caesar for example. Users can go to the "Menu" → "Settings" → "Themes" to check these new uploaded themes.

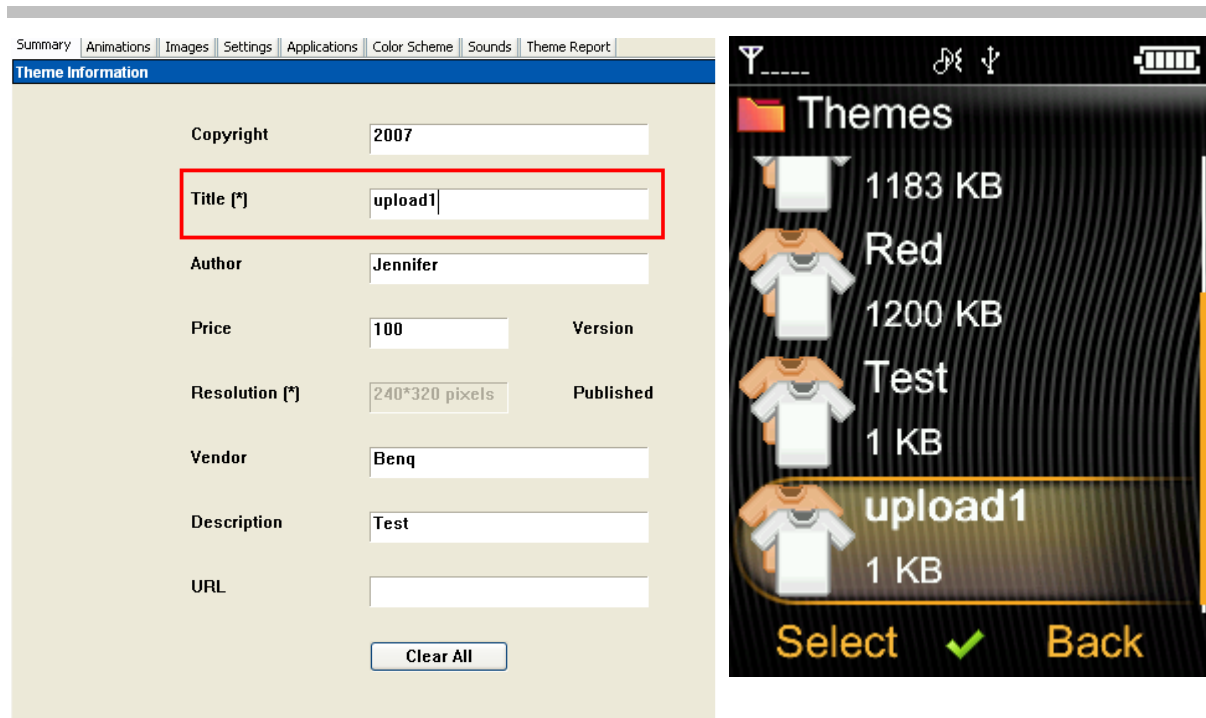
1.



2.



3. Choose the name of the uploaded theme which is the attribute, Title, shown on the Summary TAB of QThemeCreator.

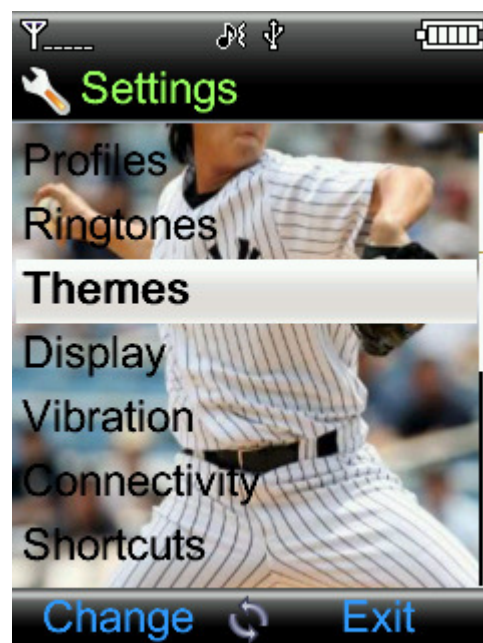


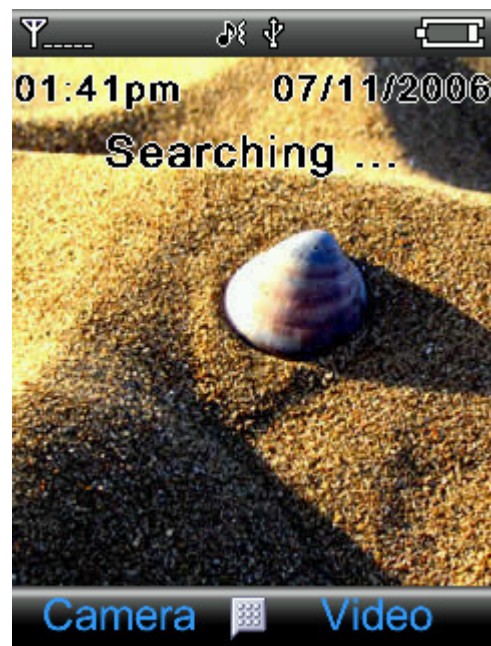
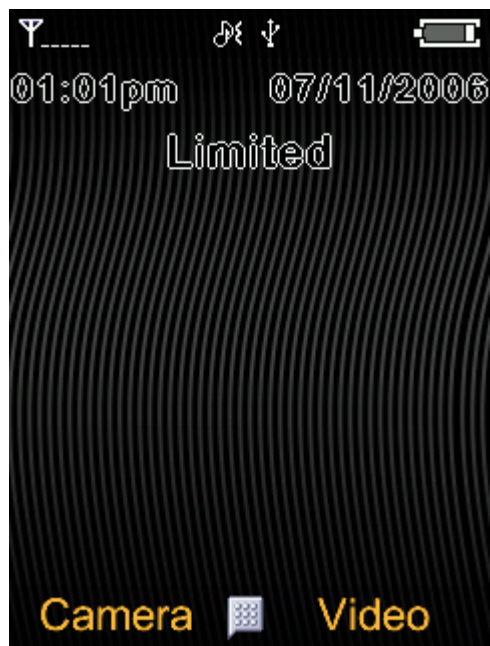
Check themes on the phone:

Original:



After theme is uploaded:





Exit

This function closes **QThemeCreator** and prompts to save any changes.

4.4 Understanding Resource Icons

Each resource is assigned an icon:

When accessing the screen for the first time, two different icons may be displayed:

❌ - it is mandatory to associate a file to a resource

⚠️ - it is not mandatory to associate a file to a resource

Having chosen a file, there are three possible icons that may be displayed:

❌ - shows that no file is associated with a resource although this is mandatory

📄 - the resource is associated with a specific file

⚠️ - the resource is not associated with a file and this is not mandatory

4.5 QThemeCreator Tabs

Note:

- The tabs displayed depend on the **Mobile Phone Group** chosen.
- For all tabs, only files formats supported by the target mobile phone can be selected.

Summary Tab

Theme Information


The screenshot shows the 'Summary' tab selected in the QThemeCreator application. The 'Theme Information' section contains the following fields:

Copyright	<input type="text"/>		
Title (*)	<input type="text"/>		
Author	<input type="text"/>		
Price	<input type="text"/>	Version	<input type="text"/>
Resolution (*)	240*320 pixels	Published	<input type="text"/>
Vendor	<input type="text"/>		
Description	<input type="text"/>		
URL	<input type="text"/>		

Below the fields is a 'Clear All' button.

Figure 7 - Summary: Theme Information

The **Summary** tab contains additional information about the theme, in text format.

You must enter information in all the mandatory fields (marked with *). Click the  button to delete all entered information.

About the limitation for the length of columns, please refer to the following table.

Column	Limit Length(characters)
Copyright	20
Title	20
Author	20
Price	10
Version	10
Published	10
Vendor	20
Description	30
URL	30

NOTE:

- The column, Title, does not support Chinese. Thus, please do not key in Chinese into the column.

Animations Tab

All Animations

Use this option to insert **Animations**.

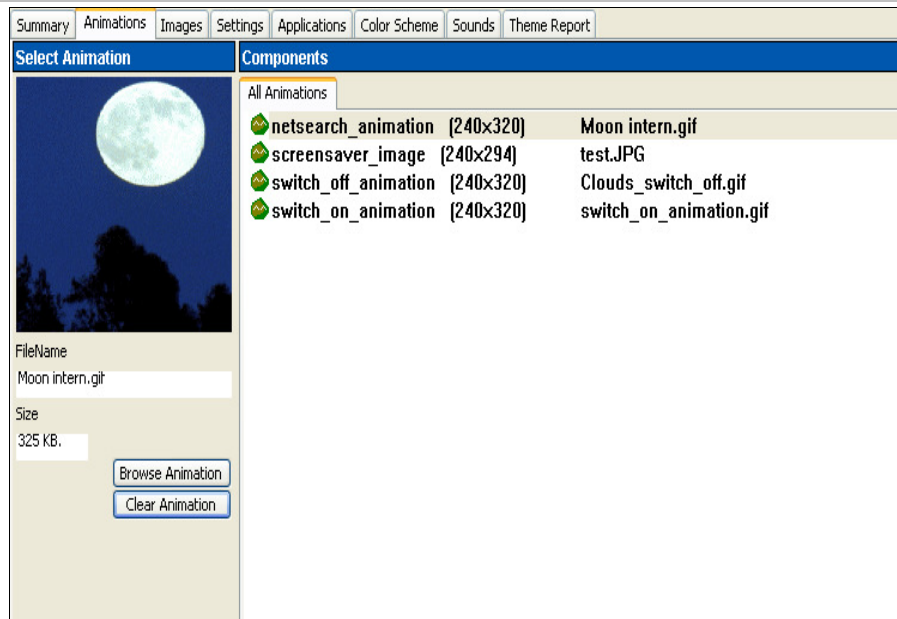


Figure 8 - Animations: All Animations

Click the **Browse Animation** button to locate an animation file to import.

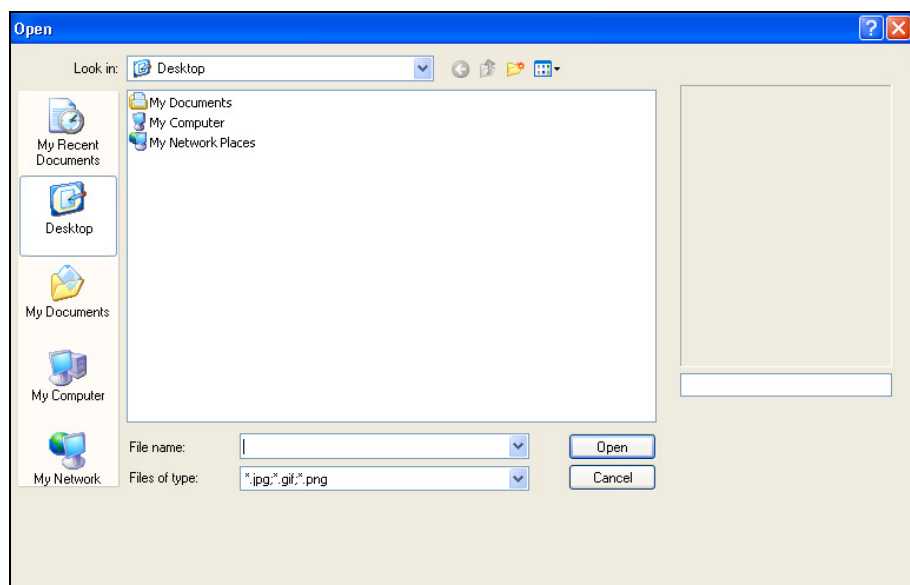


Figure 9 - Animations: Open Dialog Box

Note:

- It is important to use animations of the correct size (width and height).

After selecting an animation, click **Open** to load the animation screen, or click **Cancel** to return to the previous screen. Click **Clear Animation** to delete all typed information.

Images Tab

All Images

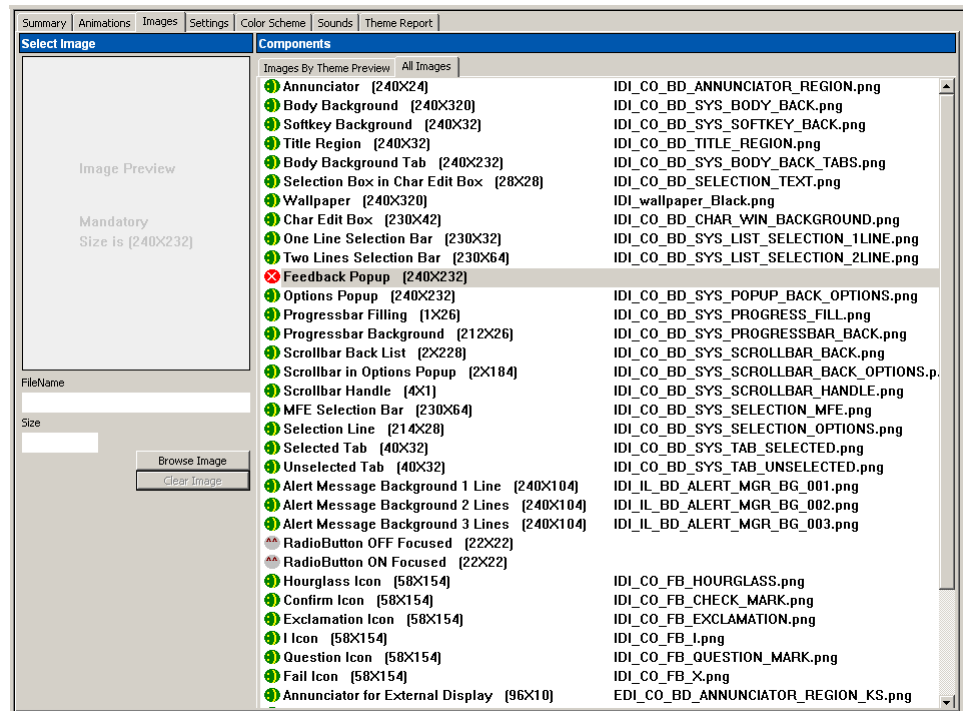


Figure 10 - Images: All Images

Use the **Images** tab to import graphics into the theme.

Click the **Browse Image** button to select a file to import:

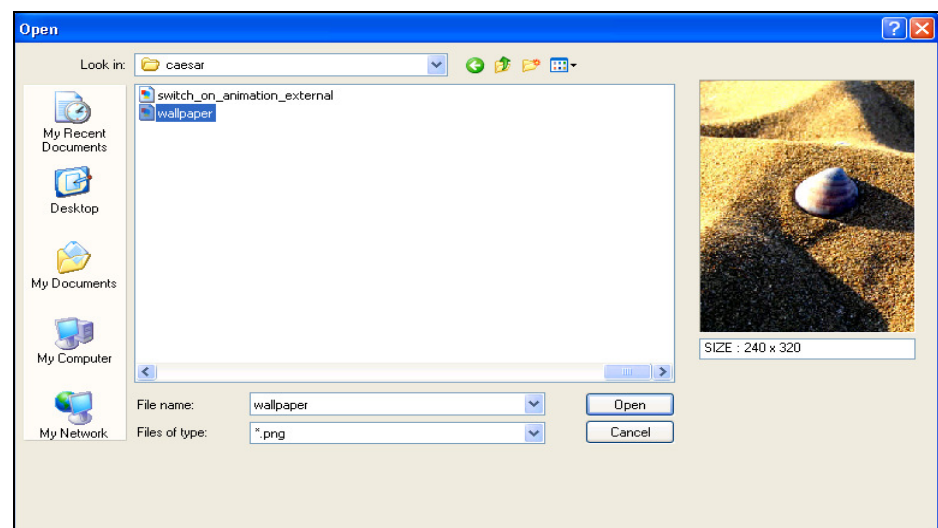


Figure 11 - Images: Open Dialog Box

Note:

- It is important to use images of the correct size (width and height).

Images by Theme Preview

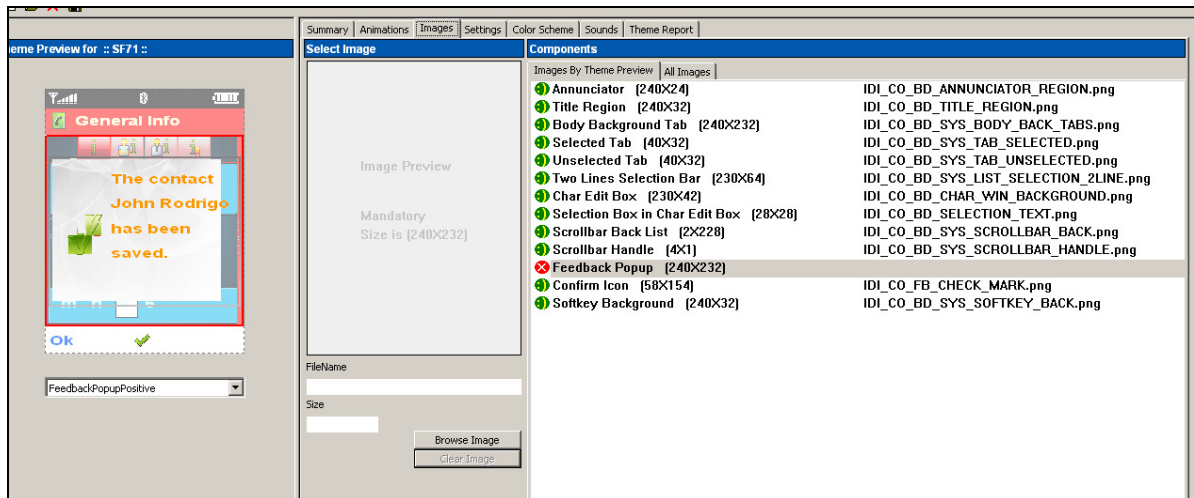


Figure 12 - Images: Images by Theme Preview

This screen displays all image resources associated with a specific **selected screen displayed in Theme Preview area**.

Settings Tab

All Settings

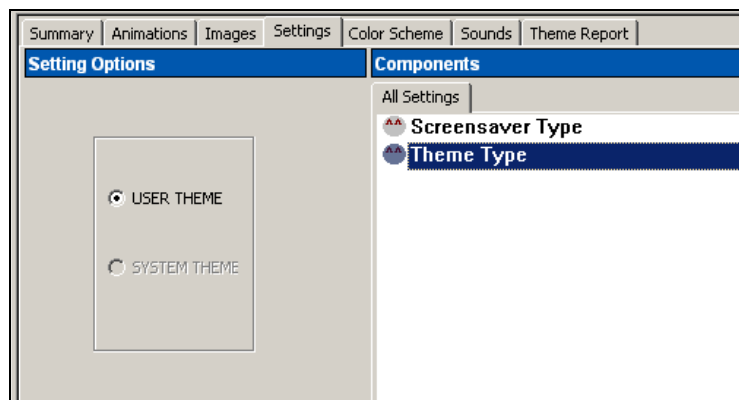


Figure 13 - Settings: All Settings

Use this tab to configure the parameters of the cell phone.

Note:

- The **Settings** tab is displayed in all phone themes.
- For now Theme type is automatically set to USER THEME.

Color Scheme Tab

In the **Colors Scheme** tab, you can edit the colors of the various

elements which make up the **Color Scheme**.

All Color Elements / Palette

There are two different ways to select a color - **Palette**, and **RGB**.

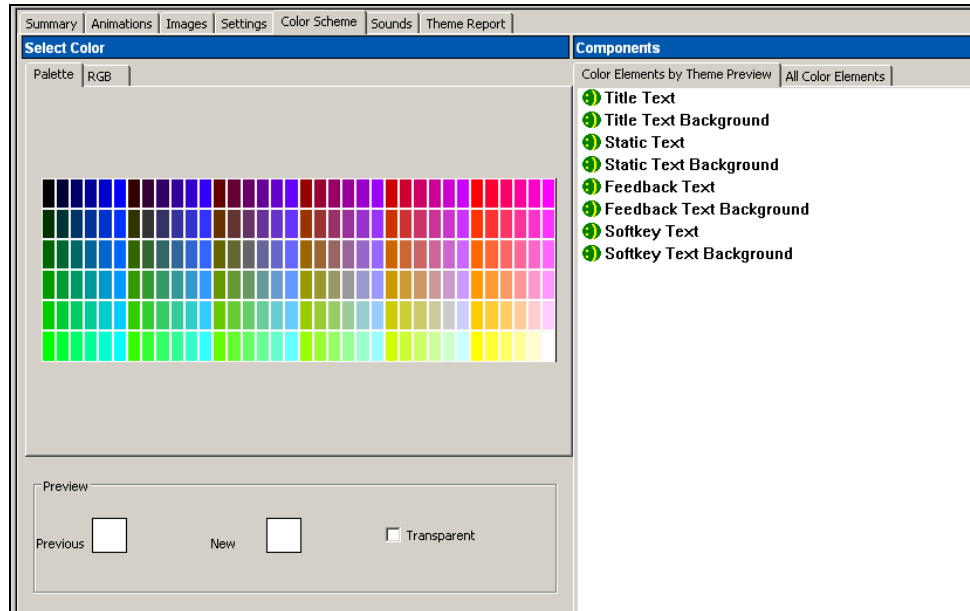


Figure 16 - Color Scheme: **Palette**

Some colors can be in an inactive state. A color is “inactive” when it is not used in the current theme format (although it can be in use in another theme format. Since the **Color Scheme** can be exported/imported between various themes (even if they have different formats) **Color Schemes** are not hidden from the **Content Panel**. An inactive color is shown in *italics*.

Inactive colors are not mapped in the **Theme Preview Panel** and are not included in the **Color Contrast Check**.

Note:

- Some active colors may be hidden by other display elements. For example, the **Body Background** color will never be seen if it is covered by a **Background Picture**.

Defining a Color

A color must be assigned to each type of text. It is possible, however, to set an text element to be invisible by selecting the **Transparent** checkbox.

You can set the color of an element to a previously selected color by clicking the **Previous Color** checkbox. The color shown in the box is assigned to the element.

Use the **Palette** tab to pick a color from a predefined palette, by clicking the desired color.

RGB

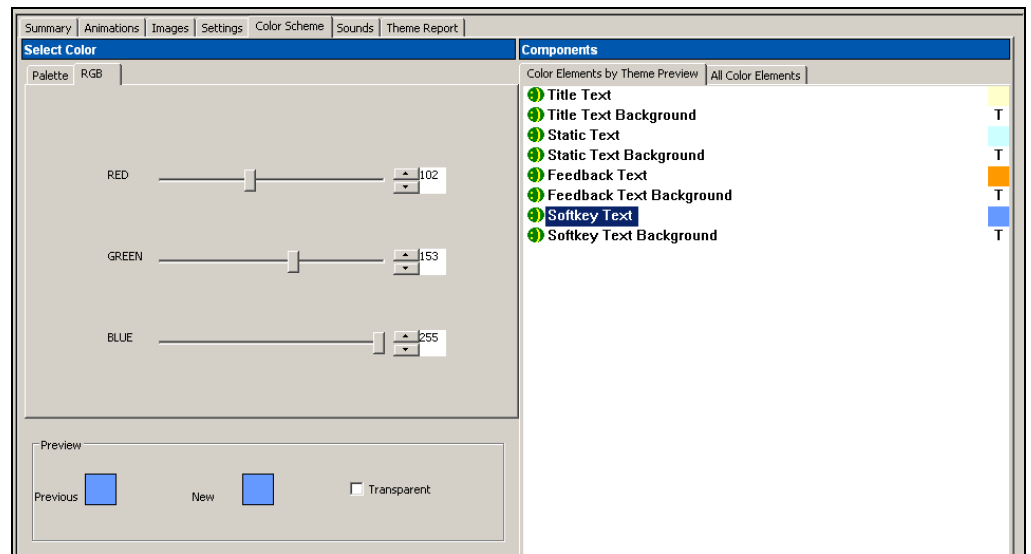


Figure 17 - Color Scheme: RGB

The **RGB** equivalent of the selected color is displayed in the grayed text boxes **R**, **G** and **B**.

Use the **RGB** tab to choose the desired color by selecting the values for the three complementary colors: **Red**, **Green** and **Blue**.

Use the sliding controls, or enter a number (between 0 and 255 inclusive) in the appropriate text box to change color.

Color Elements by Theme Preview

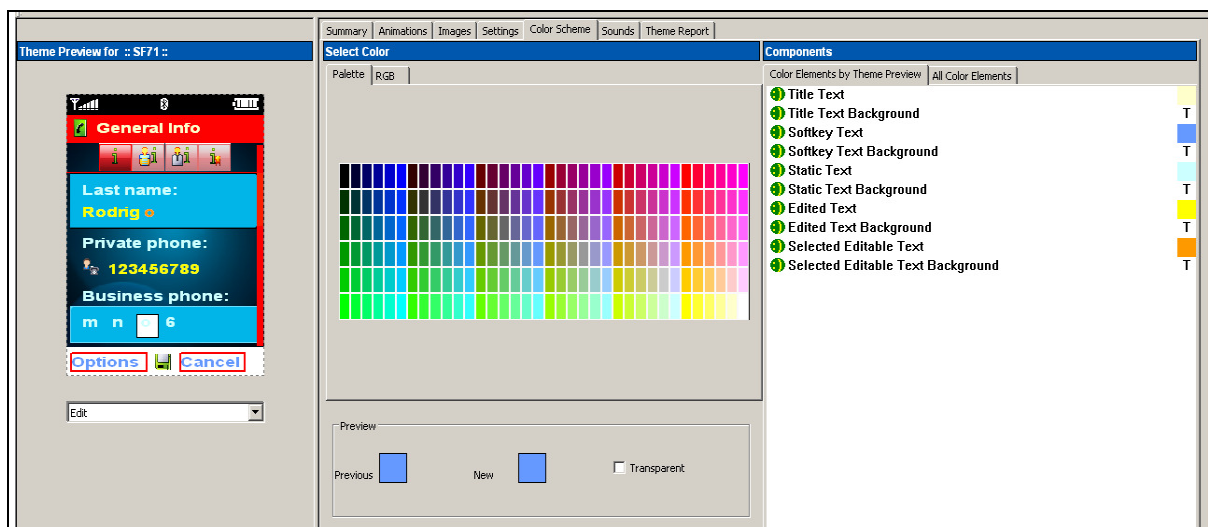


Figure 18 - Color Scheme: Color Elements by Theme Preview

This screen displays the **color** resources of a selected element organized according to **Theme Preview**.

Sounds Tab

All Sounds

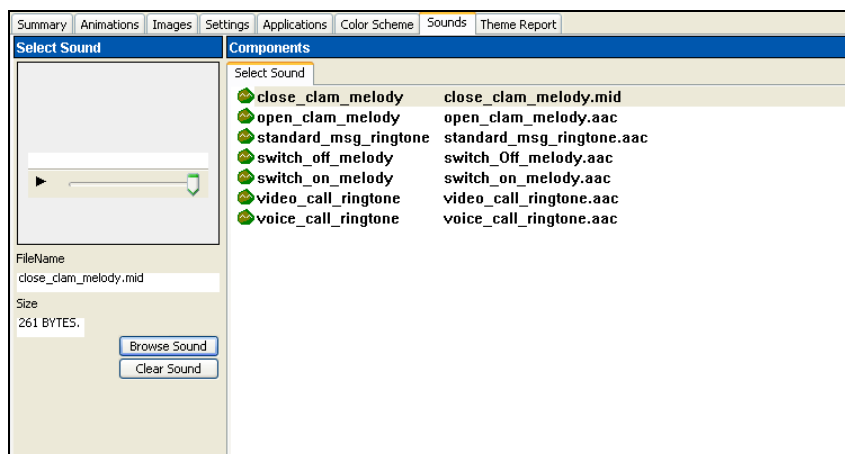




Figure 19 - All Sounds

Use the **Select Sounds** tab to insert **sound files** into the theme.

Having selected a sound file, you can hear it by clicking the  button.

To stop a playing sound click .

Theme Report Tab

Errors Tab

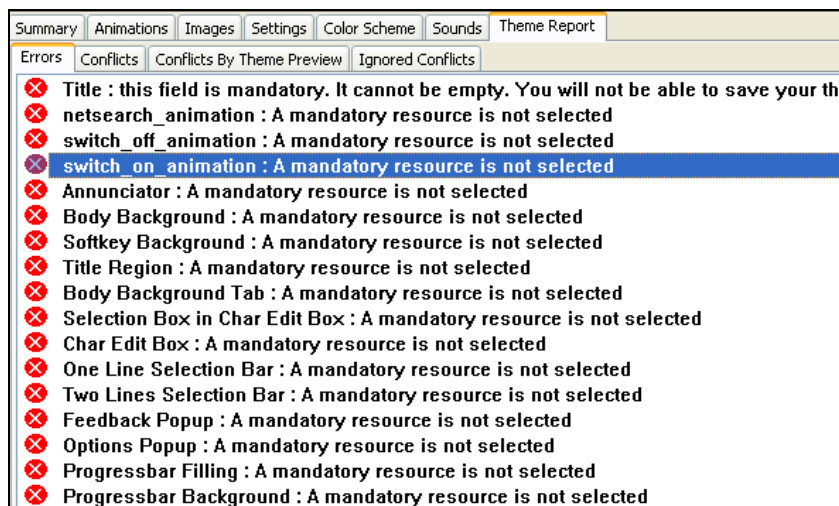
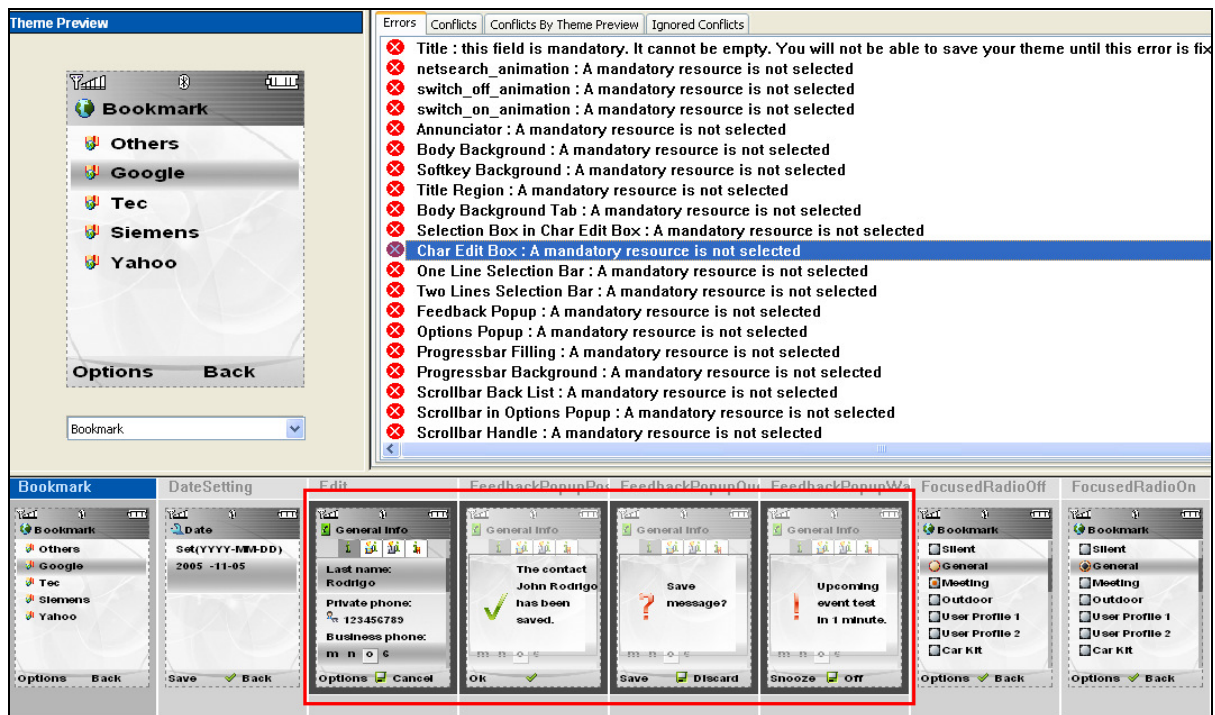


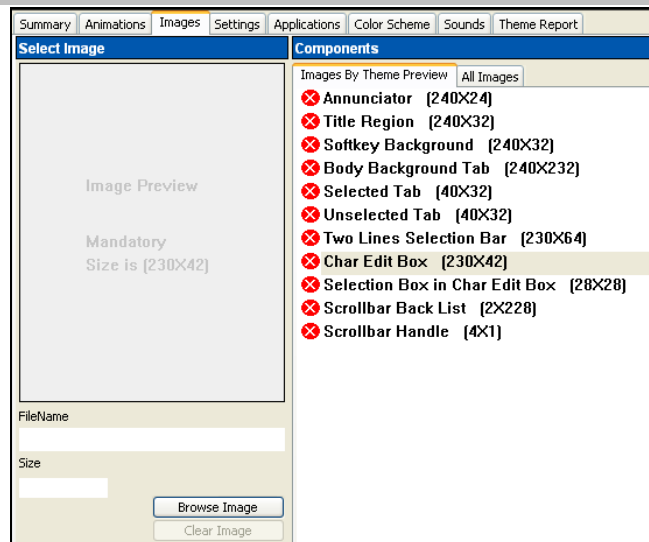
Figure 20 - Theme Report: Errors

The **Errors** tab displays all items of the theme which may contains errors. The ❌ icon shows mandatory fields that are not yet complete.

- If users click the image component once on the errors page, QThemeCreator will show how many screens use this image component at the bottom screens. For example, there are four screens have the image component, Char Edit Box.



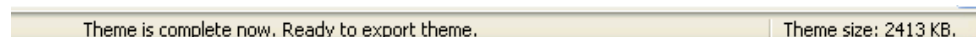
- If users double-clicked any component from the errors page, QThemeCreator will jump to the corresponding tab page with the component. For example, the Char Edit Box belongs to Images Tab page. When users double-click this component on Errors page, QThemeCreator will jump to Images Tab with the component with focus on Char Edit Box item, such that user can easily figure out where to provide necessary information.



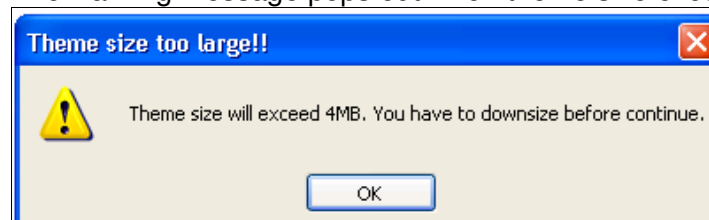
NOTE1: Mind theme size all the time.

During the process of configuring resource files, if at any moment user selects a file which makes total theme size exceeds 4MB, user will receive an error message that prompts user to downsize first, otherwise user cannot proceed to configure or change any other resource files.

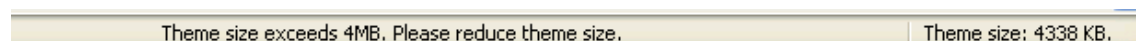
Originally theme size is 2413KB.



The warning message pops out when theme size exceed 4MB.

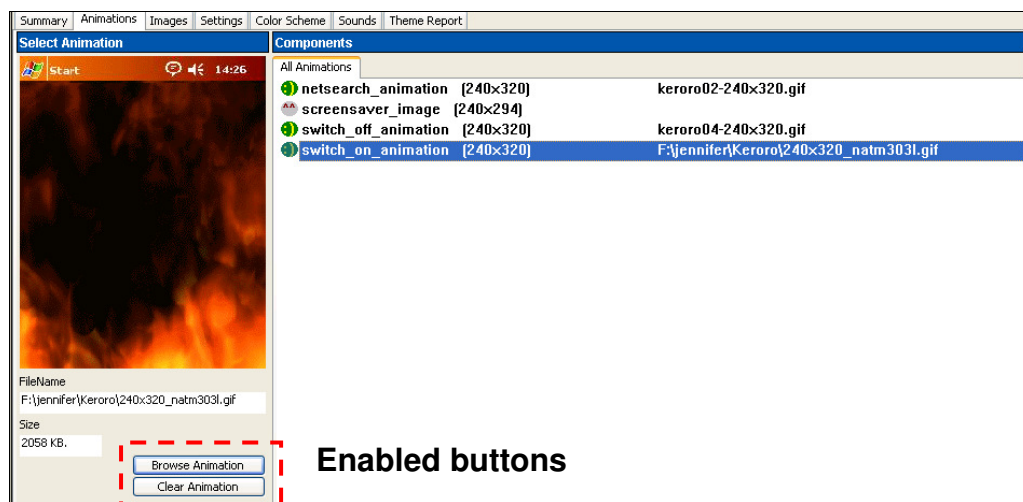
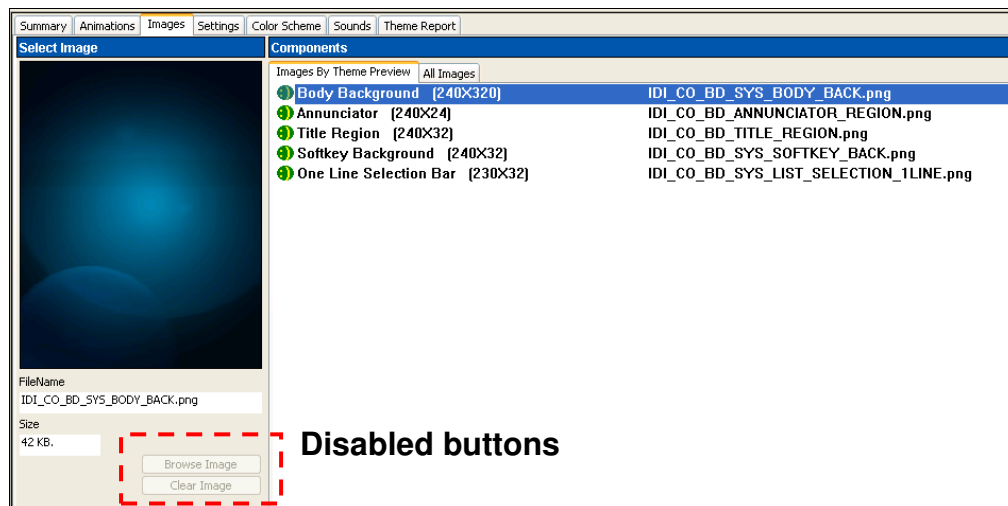
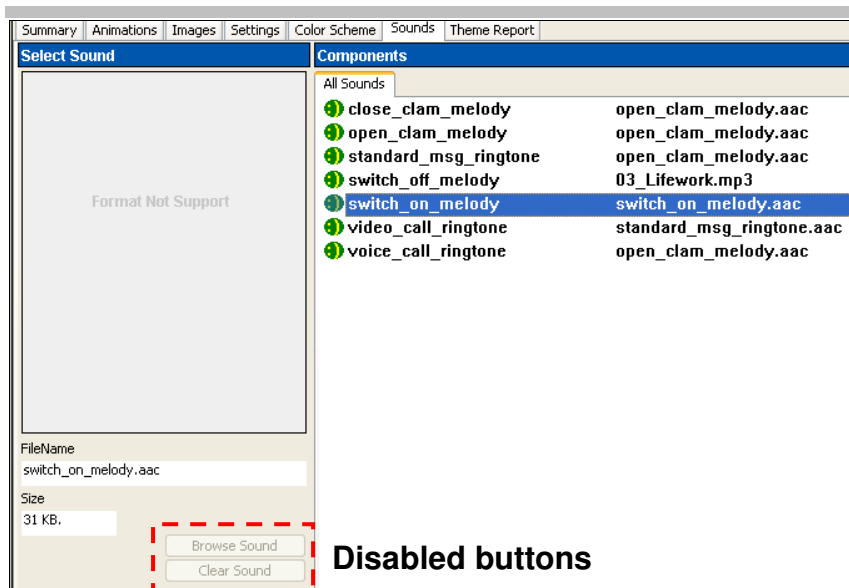


And status bar display warning message as well after user clicks Ok button.



At this moment all other resources cannot be changes. Even when user clicks on an item the Browse and Clear button will be all disabled.

Only when user clicks on the item which cause theme go oversized will Browse and Clear buttons be enabled again.



5 Appendix - Glossary

RGB - A basic color model described in terms of red, green and blue colors.

COL - Color

PNG - Portable Network Graphics

GIF - Graphics Interchange Formats

JPEG - Joint Photographic Experts Group

JPG - Joint Photographic Group

JAD - Java Application Descriptor

AAC - Advanced Audio Codec

IMY - iMelody

MFI - Melody Format for i-mode

MID - Microsoft Document Imaging

MP3 - Music Player 3

WAV - Wave

XMF - extensible Music Format