PSP™ (PlayStation®Portable) Custom Theme Creation Guidelines

Version 5.00

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1 About This Document

Overview

This document contains information and guidelines for creating custom themes and customized icons for the XMB^{TM} that is part of PSP^{TM} system software.

Specifically, the following topics are covered.

- Types of icons that can be customized
- Image size and format
- Additional data besides icons that are needed
- Other information

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2 Data That Can be Customized

The following data can be customized using the custom theme function.

Category Icons (Horizontal List)

Category icons indicate categories that are arranged horizontally in a row.

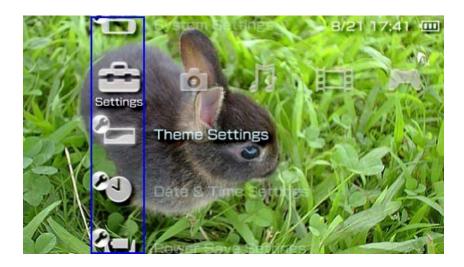


The following eight types of category icons can be specified.

Category Type	Notes
Network	
Game	
TV	Only for systems sold in Japan/Korea and PSP-2000/PSP-3000 systems
Video	
Music	
Photo	
Settings	
Default	Default icons are prepared in advance to support additional icons that may be added in a future system update. When only a default icon is specified, all icons can be displayed to be the same.

First Level Icons (First Level Vertical List)

The first level icons are displayed vertically in a column when a category icon is selected.



The following first level icons can be set.

he following first level icon Category	First Level		
PlayStation®Network	Account Management		
Network	Online Instruction Manuals		
	Remote Play		
	Internet Radio		
	RSS Channel		
	Internet Browser		
	Internet Search		
Game	Game Sharing		
	Saved Data Management		
	UMD TM (*)		
	PSP™ Update		
	Memory Stick TM (*)		
Video	UMD TM (*)		
	Memory Stick TM (*)		
Music	UMD TM (*)		
	Memory Stick TM (*)		
Photo	Camera		
	Memory Stick TM (*)		
Settings	Network Update		
	USB Connection		
	Video Settings		
	Photo Settings		
	System Settings		
	Theme Settings		
	Date & Time Settings		
	Power Save Settings		
	External Display Settings		
	(PSP-2000/3000 only)		
Sound Settings			

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Category	First Level	
	Security Settings	
	RSS Channel Settings	
	Network Settings	
Other	Default	

^(*) UMDTM and Memory StickTM icons are customized one at a time regardless of the category.

Second Level Icons (Second Level Vertical List)

The second level icons are displayed vertically in a column and to the right of the first level icons when a first level icon is selected. You can use a custom theme to customize the second level icons of the Settings category (wrench icons in the figure below).



Wallpaper

You can specify wallpaper that is to be affixed to the background.

Theme Color

One of twelve theme colors can be specified by selecting [Settings] > [Theme Settings] > [Theme], enabling you to set a specific background color that is best suited for a particular custom theme.

You can also specify no theme color.

Preview

This is used to specify icons and images that will be displayed when the custom theme is selected.

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List of Customizable Icons

The following icons can be customized.

Category	First Level	Second Level	Display Name
PlayStation®Network	<u> </u>		Account Management
(1)	?		Online Instruction Manuals
Network	Ė		Remote Play
	\$		Internet Radio
	@		RSS Channel
	www		Internet Browser
	Q,		Internet Search
M	6		Game Sharing
Game			Saved Data Management
	•		UMD TM
	(1)		PSP™ Update
			Memory Stick TM
TV			
Ħ	•		UMD TM
Video			Memory Stick TM
Π	•		UMD TM
Music			Memory Stick TM
Ô	•		Camera
Photo			Memory Stick TM
&	43	0	Network Update
Settings	÷		USB Connection
	911		Video Settings
	₽ o		Photo Settings
	a		System Settings
	-		Theme Settings
	OD.		Date & Time Settings
	9	7	Power Save Settings
	90	1	External Display Settings
	O ₄₃)		Sound Settings
	9		Security Settings

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Category	First Level	Second Level	Display Name
	@		RSS Channel Settings
	**		Network Settings

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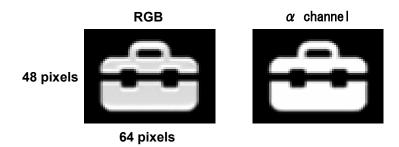
3 Image Sizes and Formats

This section presents detailed information concerning the image sizes and formats that are used in a custom theme.

Category Icons (Horizontal List)

The image size and format for category icons are as follows.

Image size	64 x 48 pixels
Image format	256-color 32-bit CLUT (α
	channel enabled)
	PNG/TGA/GIM file



First Level Icons (First Level Vertical List)

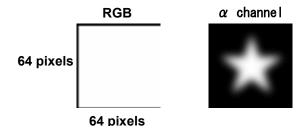
The image size and format for first level icons are as follows.

Image size	Icon body	48 x 48 pixels
	Icon focus	64 x 64 pixels
Image format	256-color 32-bit CLUT (α channel enabled) PNG/TGA/GIM file	

Icon body



Icon focus



Second Level Icons (Second Level Vertical List)

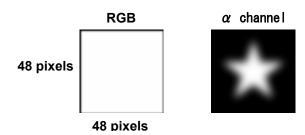
The image size and format for second level icons are as follows.

Image size	Icon body	Icon body 32 x 32 pixels	
	Icon focus	48 x 48 pixels	
Image format	256-color 32-bit C	256-color 32-bit CLUT (α channel	
	enabled) PNG/TGA/GIM file		

Icon body



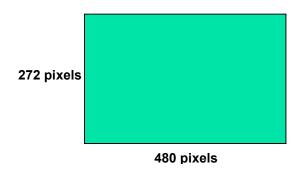
Icon focus



Wallpaper

The image size and format for the wallpaper are as follows.

Image size	480 x 272 pixels
Image format	24-bit color RLE uncompressed
	bitmap file



Theme Color

The theme colors that can be selected are shown below.

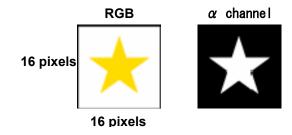
Theme Color	Number
Change monthly	0
80	1
	2
	3
7	4
	5
	6
	7
	8
	9
	10
	11
	12

Preview

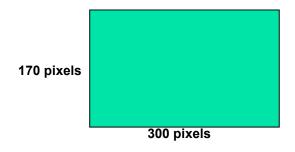
The image size and format for the preview are as follows.

Image size	Preview icon	16 x 16 pixels
	Preview image	300 x 170 pixels
Image format	Preview icon	PNG/TGA/GIM file
		256-color 32-bit CLUT (α channel enabled)
	Preview image	24-bit color RLE uncompressed
	_	bitmap file

Preview icon



Preview image



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4 Notes on Icon Design

This section contains notes on icon design.

Icon Data

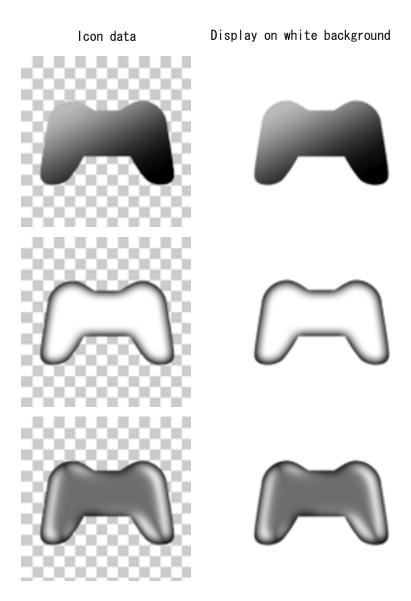
When creating an icon, avoid painting the icon with a single color. This is because the user can set any arbitrary background color using the wallpaper setting function. Icons should be designed with gradations or borders so they can be easily distinguished from arbitrary background images.

For example, with the following single-color icon data, the icon will not be visible if the background is set to white.



Display on white background

In this case, you can make the display easier to see by using gradations and borders as shown below.

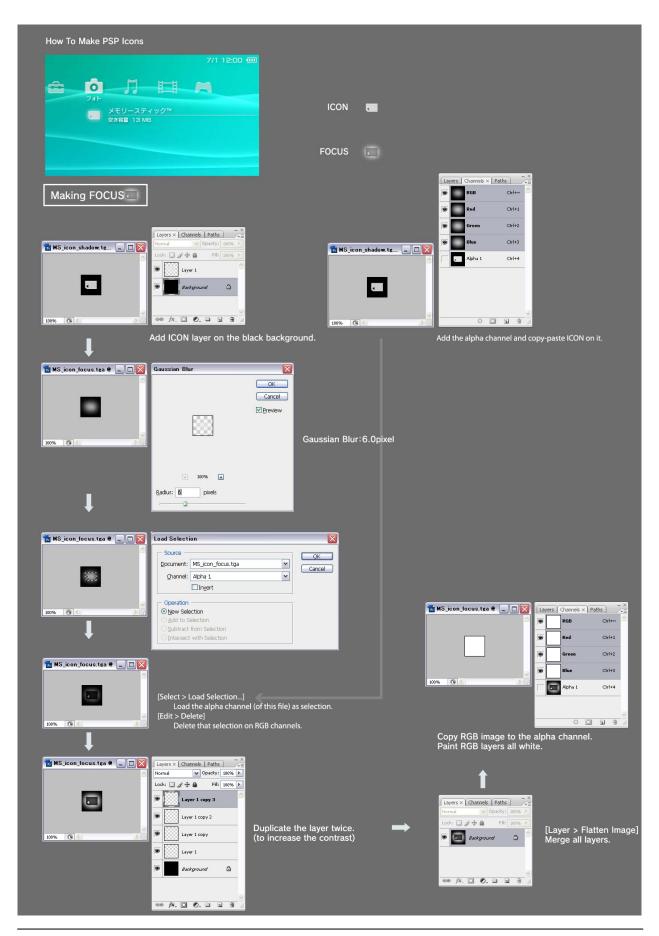


Note that when using icon data provided by the system software for your design, you cannot change its original shape or meaning.

Focus Data

When you create icon data, you also need to create focus data which is used when the icon receives focus. In the standard theme that is part of system software, focus has been designed in a consistent manner so that the item receiving the focus will appear to light up in white. If you create focus data with a similar appearance, it will be easier for the user to recognize that the focus is on that icon.

The following example shows how Photoshop can be used to create illuminated focus data.



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5 Setting Custom Themes

This section explains how to set a custom theme on the PSP^{TM} system.

Select Theme Settings under the Settings category to set a custom theme.



Select Theme under Theme Settings.



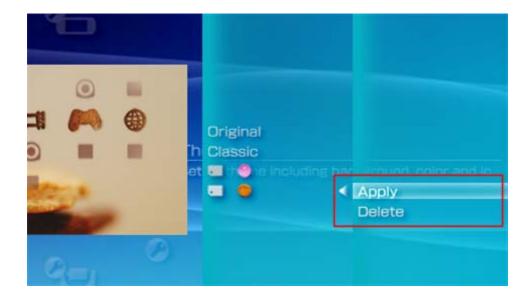
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The words "Original" and "Classic" are displayed on the right side of the screen as well as preview icons of theme files that are saved in the /PSP/THEME directory on the Memory StickTM. "Original" means that the icons displayed are standard icons used in the PSPTM system. "Classic" means that the icons are what was considered to be standard on the PSPTM system for system software Ver5.00 and before.

A preview image of the selected custom theme is displayed in the center of the screen.



You can change the custom theme by selecting a custom theme from the list and then selecting "Apply". If you select "Delete", the selected theme file will be deleted from the Memory $Stick^{TM}$.



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6 Custom Theme Creation Tool

This section describes the Custom Theme Converter (themeconv.exe), which is a tool for creating custom themes.

Information Tab

The following items can be entered on the Information tab.



Item	Description	
Title	Title information (max. 128 byte UTF-8 string)	
Product ID	Product ID number (max. 48 bytes)	
	Usable characters: half-width alphanumerics, hyphen ("-"), and	
	underscore ("_")	
Version	Theme version (max. 8 bytes)	
	A combination of at most 3 numbers from 0 to 99 separated by	
	periods (".")	

For details about how to use the Information tab, see Chapter 7, "Using the PSP^{TM} to Download Custom Theme Data."

Wallpaper Tab

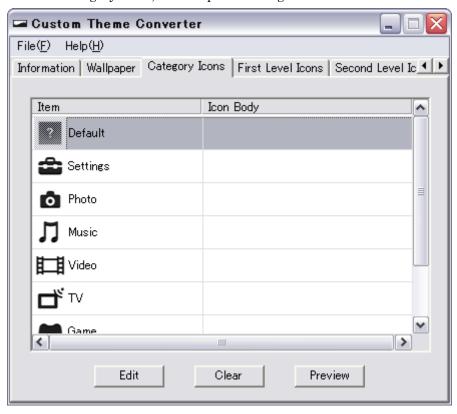
This tab is used to set the image file that will be used for wallpaper. By clicking on the preview button, the wallpaper setting can be previewed. For information about files that can be set as wallpaper, see Chapter 3, "Image Sizes and Formats."



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Category Icons Tab

This tab is used to set the image files that will be used for the category icons. By clicking on the Preview button, the category icons can be previewed. For information about files that can be set as category icons, see Chapter 3 "Image Sizes and Formats."

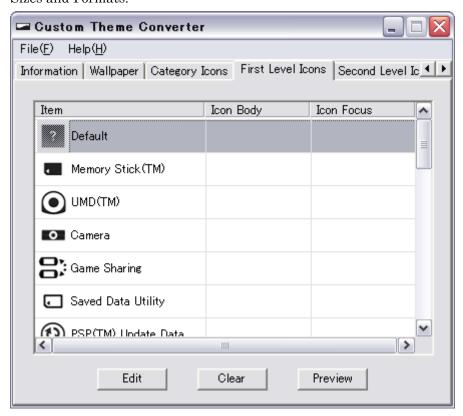


The default icon is used for category icons that have not been set. If the default icon itself has not been set, the original icon is used instead. This also applies to new category icons that will be added in future updates.

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First Level Icons Tab

This tab is used to set the image files that will be used for the first level icons and focus. The Edit button will switch to the file selection screen and the Clear button will clear the selected file. By clicking on the Preview button, the first level icons and focus can be previewed. For information about files that can be set for the first level icons and focus, see Chapter 3 "Image Sizes and Formats."



The default icon is used for first level icons that have not been set. If the default icon itself has not been set, the original icon is used instead. This also applies to new first level icons that will be added in future updates.

Second Level Icons Tab

This tab is used to set the image files that will be used for the second level icons and focus. The Edit button will switch to the file selection screen and the Clear button will clear the selected file. By clicking on the Preview button, the second level icons and focus can be previewed. For information about files that can be set for the second level icons and focus, see Chapter 3 "Image Sizes and Formats."

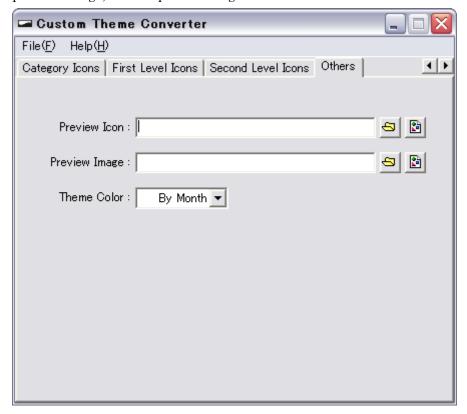


The default icon is used for second level icons that have not been set. If the default icon itself has not been set, the original icon is used instead. This also applies to new second level icons that will be added in future updates.

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Others Tab

This tab is used to set the image files that will be used for the preview icon and preview image, and also to select the theme color. By clicking on the preview buttons, the preview icon and image can be previewed. For information about files that can be set for the preview icon and preview image, see Chapter 3 "Image Sizes and Formats."



File Menu

The File menu enables you to perform "New", "Open" and "Save" operations on files that save custom theme settings. You can also select "Write" to write the current settings to a custom theme file.

Help Menu

The Help menu enables you to change settings for themeconv.exe.

You can set the display language to Japanese, English, or Korean from the Settings menu.

7 Using the PSP™ to Download Custom Theme Data

This section describes how the PSPTM Internet browser can be used to download custom theme

Meta Information and Download Processing

When the PSPTM Internet browser downloads custom theme data, it uses meta information on both the server and the inserted Memory StickTM to automatically control the download process.

The meta information that it uses consists of the title, the product ID, and the theme version. These are described below.

Title

Title is the 128-byte (max) UTF-8 string previously specified for "title". It is displayed on the download start confirmation screen.

If the title is too long for the display, it will either be abbreviated or automatically scrolled. To prevent titles from being abbreviated or scrolled, they should be no more than approximately 20 characters long for Japanese, Korean, and Chinese, and 30 characters for all other languages.

Product ID

Product ID is the 48-byte (max) string previously specified for "product_id". It is used for the target filename for the download.

If each custom theme is assigned a different product ID, files can be automatically downloaded and saved with different filenames.

Theme Version

Theme version is the 8-byte (max) string previously specified for "theme_version". It is displayed on the download start confirmation screen.

The theme version is also used to determine whether or not downloading should be executed.

If the Memory StickTM already has custom theme data with the same product ID as that which is being downloaded, the theme versions are compared and the data is downloaded only if it is newer.

The theme version is assumed to be a combination of at most 3 numbers from 0 to 99 separated by periods ("."), One theme version is newer than another if it has more numbers

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or if its numbers are larger than the other.

Examples

- "1.00"
- "1.1.1"
- "12"
- "12.34.56"
- "1.1" is newer than "1.00"
- "1.10" is newer than "1.1"
- "1.1.1" is newer than "1.1"

Therefore, when you update your custom theme data, you can cause it to be downloaded only when necessary by making the theme version newer.

Uploading Custom Theme Data to the Server

To upload your custom theme data to the server for later download via a PSPTM Internet browser, the custom theme data must be assigned a special MIME-Type and extension. The MIME-Type and extension are shown below.

MIME-Type	Extension
application/x-psp-theme	ptf

8 Appendix

Maximum Size

The maximum size of a custom theme file is 768KB.

Compatibility

Custom theme files created with version 1.2.0.0 of themeconv.exe can be used with PSPTM system software version 3.80 or later. They cannot be used with earlier versions of PSPTM system software. Custom theme files created with earlier versions of themeconv.exe can continue to be used.