

Emoji System Base

Documentation

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Overview

The Emoji System Base is an emoji library for Unity.

With it you can add a whole list of emojis to your games as well as a tool to make editing **SpriteAsset** and **TMP_SpriteAsset** easier.

Emoji to Unicode Converter

https://lingojam.com/EmojitoUnicodeConverter

Emoji	Unicode	Emoji	Unicode	Emoji	Unicode	Emoji	Unicode	Emoji	Unicode
<u> </u>	1f600	<u>:</u>	1f603	<u></u>	1f604	(iii)	1f601	&	1f606
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	1f60d	S	1f970	<u>•</u>	1f618	•	1f617	9	1f619
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	1f92a	<u>••</u>	1f928	<u></u>	1f9d0	@	1f913	©	1f60e
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	1f623		1f616		1f62b		1f629	:	1f97a
(e)	1f622		1f62d	\bigcirc	1f925	$\overline{\bullet}$	1f636	<u>~</u>	1f624
W	1f620		1f621		1f92c	₹	1f92f	<u></u>	1f633
(+)	1f975		1f976		1f631	②	1f628		1f630
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(a)	1F475	<u>~</u>	1F9D3	<u> </u>	1F474	!	1F472	<u></u>	1F9D5
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<u>2</u>	26F1	<u></u>	1F30A		1F32B	<u> </u>	1F34F	•	1F34E
	1F350	<u></u>	1F34A		1F34B	<u> </u>	1F34C	<u> </u>	1F349
	1F347		1F353		1F348		1F352	<u> </u>	1F351
	1F96D	%	1F34D	<u> </u>	1F965	<u> </u>	1F95D		1F345
	1F346	<u> </u>	1F951	-	1F966	<i>P</i>	1F96C		1F952
	1F336	S	1F33D		1F955		1F954	9	1F360
€	1F950	<u></u>	1F96F		1F35E		1F956	<u> </u>	1F968
	1F9C0		1F95A	Q	1F373		1F95E	%	1F953

	1F969	8	1F357	&	1F356		1F9C6	0	1F32D
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8	1F947	8	1F948	8	1F949	Y	1F3C5	7	1F396
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	1F939		1F3AD	.	1F3A8		1F3AC		1F3A4
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~	1F3CE	<u></u>	1F693	~	1F691		1F692		1F690
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	1F6F5		1F3CD		1F6A8		1F694	**	1F68D
&	1F698		1F696		1F6A1	<u></u>	1F6A0		1F69F
	1F683		1F68B		1F69E		1F69D		1F684
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	1F3DF		1F3A1		1F3A2		1F3A0		26F2
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	1F3E1	<u></u>	1F3D8		1F3DA	1	1F3D7	<u> </u>	1F3ED
	1F3E2		1F3EC		1F3E3		1F3E4		1F3E5
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***	1F387	**	1F386		1F307		1F306	&	1F3D9
- 808 - 808	1F303		1F30C		1F309		1F301	2	231A
	1F4F1	-	1F4F2		1F4BB		2328		1F5A5
	1F5A8		1F5B1		1F5B2	<u> </u>	1F579		1F5DC
	1F4BD	Ħ	1F4BE	<u> </u>	1F4BF		1F4FC		1F4F7
	1F4F8		1F4F9	-	1F3A5	***	1F4FD		1F39E
&	1F4DE	2	260E	100-500	1F4DF		1F4E0		1F4FA
	1F4FB		1F399		1F39A	\$ 9 6 6	1F39B	<u> </u>	1F9ED
S	23F1	Õ	23F2		23F0		1F570		231B
N	23F3		1F4E1		1F50B	•	1F50C	$\frac{\triangle}{Q}$	1F4A1
	1F526	<u> </u>	1F56F	<u>_</u>	1F9EF		1F6E2		1F6CD
<u></u>	1F4B8		1F4B5	E D	1F4B4		1F4B6	£] [1F4B7
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	2697		1F52D		1F52C		1F573	O	1F48A
	1F489		1F9EC	<u>()</u>	1F9A0		1F9EB	<i>></i>	1F9EA
_	1F321		1F9F9		1F9FA		1F9FB		1F6BD
	1F6B0		1F6BF	4	1F6C1		1F6C0	<u></u>	1F9FC
	1F9FD		1F9F4		1F6CE	- Q	1F511	§	1F5DD
	1F6AA		1F6CB		1F6CF		1F6CC	&	1F9F8
	1F5BC	ண	0BA3	□	1F6D2	;	1F381	Q	1F388
	1F38F	\$3001 \$\$\$	1F380		1F38A		1F389	10	1F38E
	1F3EE	8	1F390		1F9E7		2709		1F4E9
	1F4E8		1F4E7	_	1F48C		1F4E5	<u> </u>	1F4E4
	1F4E6		1F3F7	- <u>-</u>	1F4EA	<u></u>	1F4EB	<u> </u>	1F4EC
	1F4ED		1F4EE	<u> </u>	1F4EF		1F4DC		1F4C3
	1F4C4		1F4D1		1F9FE		1F4CA		1F4C8
	1F4C9		1F5D2	31	1F5D3	31	1F4C6		1F4C5
	1F5D1		1F4C7	<u> </u>	1F5C3	<u> </u>	1F5F3		1F5C4
	1F4CB		1F4C1		1F4C2		1F5C2		1F5DE
	1F4F0		1F4D3		1F4D4		1F4D2		1F4D5
	1F4D7		1F4D8		1F4D9		1F4DA		1F4D6
♂	1F516	- U	1F9F7	_ _	1F517		1F4CE		1F587
	1F4D0	\	1F4CF		1F9EE	*	1F4CC	•	1F4CD
*	2702		1F58A		1F58B	<i>></i>	2712		1F58C
	1F58D		1F4DD		270F	Q	1F50D	<i>></i>	1F50E
	1F50F		1F510		1F512		1F513	•	2764
(1F494	~	2763	*	1F495	→	1F49E	*	1F493
Ö	1F497	•	1F496	S	1F498	•	1F49D	Ď	1F49F
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28	269B	1	1F251	*	2622	₩	2623	OFF	1F4F4
	1F4F3	有	1F236	無	1F21A	申	1F238	営	1F23A
月	1F237	*	2734	VS	1F19A	<u> </u>	1F4AE	[1F250
8	3299	祝	3297	合	1F234	満	1F235	割	1F239
禁	1F232	Α	1F170	В	1F171	AB	1F18E	CL	1F191
0	1F17E	sos	1F198	×	274C	0	2B55		1F6D1
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18	1F51E	(1)	1F4F5	<u>(S)</u>	1F6AD	Į	2757	8	2753
	203C	!?	2049	\&	1F505	**	1F506	\sim	303D
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*	2733	×	274E	<u></u>	1F310	&	1F4A0	M	24C2
<u></u>	1F4A4	ATM	1F3E7	WC	1F6BE	S	267F	P	1F17F
空	1F233	サ	1F202	½	1F6C2	Ž	1F6C3	181	1F6C4
	1F6C5	^	1F6B9	*	1F6BA	÷	1F6BC	Ş	26A7
**	1F6BB	i	1F6AE	***	1F3A6	Yall	1F4F6	33	1F201
T& 0 %	1F523	i	2139	abc	1F524	a b c d	1F521	A B C D	1F520
NG	1F196	OK	1F197	UP!	1F199	COOL	1F192	NEW	1F195
FREE	1F193	1 2 3 4	1F522	*	1F0CF		1F3B4	#	1F004
	23CF		25B6	П	23F8	MI	23EF		23F9
•	23FA	▶▶	23ED	144	23EE	>>	23E9	44	23EA
*	23EB	*	23EC	4	25C0	_	1F53C	V	1F53D
→	27A1	←	2B05	1	2B06	1	2B07	_	2197
<u>\</u>	2198	✓	2199	*	2196	1	2195	\leftrightarrow	2194
C,	21AA	₽	21A9	J	2934	1	2935	×	1F500
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Script Explanations

Tools

Emoji System Editor

Here's a detailed explanation of how the **`EmojiSystemEditor`** script works, including its variables, methods, and usage:

Class and Variables:

- `EmojiSystemEditor`: Inherits from `EditorWindow`, allowing it to create a custom editor window in Unity's editor.
- `SerializedObject serializedObject`: Used for handling serialized properties, which allows the editor window to work with Unity's serialization system.
- `Vector2 scrollPosition`: Tracks the current scroll position of the editor window, allowing for scrolling when there are many GUI elements.
- `SpriteAsset spriteAssetEdit`: Represents the Sprite Asset to be edited if the `emojiType` is set to `Legacy`.
- `TMP_SpriteAsset TMP_spriteAssetEdit`: Represents the TMP (TextMeshPro) Sprite Asset to be edited if the `emojiType` is set to `TextMeshPro`.
- `Type emojiType`: Enum that determines which type of asset is being edited (`Legacy` or `TextMeshPro`).
- `float w, h, bx, by, ad, scale`: Variables for glyph metrics. These include width (`w`), height (`h`), horizontal bearing (`bx` and `by`), advance (`ad`), and scale (`scale`).
- `int atlasIndex`: Index of the atlas in which the sprite is located.
- `Texture spriteEdit`: The texture of the sprite being edited.
- `int size`: The size of the squares when cropping the image using the Python script.
- `string folderPath`: Path to the folder where the changes will be applied.
- `string pythonPath`: Path to the Python executable.
- `enum Type`: Defines two types of assets—`Legacy` and `TextMeshPro`.

Methods:

- 1. `ShowWindow()`: A static method to open the custom editor window. It also tries to load an icon for the window from the assets.
- 2. `OnEnable()`: Called when the editor window is initialized. Sets up the `SerializedObject` for handling serialized properties.
- 3. `OnGUI()`: Draws the GUI elements for the editor window. It includes:
 - Asset Type Selection: Allows users to choose between `Legacy` and `TextMeshPro` assets.
- **Sprite Asset Fields**: Displays fields for selecting and editing the sprite assets based on the selected type.
 - **Glyph Metrics Editor**: Provides fields to edit glyph metrics such as width, height, and other parameters.
- **Save and Apply Buttons**: Allows users to save the edited asset or apply changes to all objects in the scene (for TextMeshPro).

- **Sprite Editor**: Provides fields for selecting the sprite and its size, along with buttons to apply changes to a folder and select the Python executable.
- 4. `SaveFile()`: Saves the sprite or TMP sprite asset with updated glyph metrics. It uses `UpdateGlyphMetrics()` and `SaveAsset()` to apply changes and save the asset.
- 5. `UpdateGlyphMetrics<T>(List<T> spriteGlyphTable)`: Updates the metrics of glyphs in the provided glyph table. It sets custom metrics for each glyph based on the editor's inputs.
- 6. `SaveAsset(Object asset)`: Marks the asset as dirty, saves it, and refreshes the AssetDatabase to apply changes.
- 7. `ApplyToAllObjects()`: Applies the selected TMP sprite asset to all `TMP_Text` components in the current scene.
- 8. `RunPythonScript(string folder)`: Executes the Python script for processing the sprite. It sets up a `ProcessStartInfo` to run the Python script with the required arguments.
- 9. `GetPython()`: Opens a file panel to select the Python executable. Updates the `pythonPath` variable with the selected path.

Usage:

- 1. **Open the Editor Window**: Go to the Unity menu bar and select **`Window` > `Emoji System Editor`** to open the custom editor window.
- 2. **Select Asset Type**: Choose between **`Legacy`** or **`TextMeshPro`** to determine which type of sprite asset you are editing.
- 3. **Edit Sprite Assets**: Depending on the selected asset type, you can select and edit the sprite asset and its glyph metrics.
- 4. **Save Changes**: Click the "Save Asset" button to apply changes to the selected sprite asset.
- 5. **Apply Changes to Scene**: If using TextMeshPro, use the "Apply to Scene" button to apply changes to all relevant **`TMP_Text`** components in the scene.
- 6. **Process Sprites**: Use the "Apply to Folder" button to select a folder and run the Python script to process the sprite image.
- 7. **Select Python Executable**: Click the "python.exe" button to select the Python executable used for running the script.

This script is a comprehensive tool for managing and editing sprite assets and their glyph metrics, integrating both Unity editor functionalities and Python scripting for advanced image processing tasks.

crop_image.py

Here's a detailed explanation of the Python script that cuts an image into smaller squares and saves them:

Overview:

This script takes an image file, divides it into smaller square sections of a specified size, and saves these sections as individual PNG files in a designated folder.

Imports:

- `sys`: Provides access to command-line arguments and system-specific parameters.
- `os`: Provides a way to interact with the operating system, such as creating directories.
- `Image` from `PIL`: The Python Imaging Library (Pillow) is used for opening, manipulating, and saving image files.

Function: `cut_image_into_squares`

Parameters:

- `image_png`: Path to the input image file.
- `square_size`: The size of each square section (in pixels).
- `destination_folder`: The folder where the cropped squares will be saved.

Steps:

1. Open the Image:

```
img = Image.open(image_png)
width, height = img.size
```

- Opens the image file specified by `image_png` and retrieves its dimensions.

2. Calculate Number of Squares:

```
number_squares_horizontal = width // square_size
number_squares_vertical = height // square_size
```

- Determines how many squares fit horizontally and vertically in the image.

3. Create Destination Folder:

```
if not os.path.exists(destination_folder):
    os.makedirs(destination_folder)
```

- Checks if the `destination folder` exists. If not, it creates the folder.

4. Loop Through and Crop Squares:

```
for j in range(number_squares_vertical):
    for i in range(number_squares_horizontal):
        left = i * square_size
        top = j * square_size
        right = left + square_size
        bottom = top + square_size

        square = img.crop((left, top, right, bottom))
        file_name = f'square_{j}_{i}.png'
        destination_path = os.path.join(destination_folder, file_name)
        square.save(destination_path)
```

- Iterates over the calculated number of squares.

- For each square, calculates its coordinates and crops the image accordingly.
- Saves each cropped square to the `destination_folder` with a filename indicating its position.

5. Print Success Message:

```
print("Images successfully applied to folder.")
```

- Outputs a message indicating that the operation is complete.

Main Execution Block:

```
if __name__ == "__main__":
    if len(sys.argv) != 4:
        print("Usage: script.py <image_path> <square_size> <destination_folder>")
        sys.exit(1)

image_path = sys.argv[1]
    square_size = int(sys.argv[2])
    destination_folder = sys.argv[3]

cut_image_into_squares(image_path, square_size, destination_folder)
```

- Check Command-Line Arguments:

- Ensures that exactly three arguments are provided: the image path, the square size, and the destination folder
- Prints a usage message and exits if the arguments are incorrect.

- Retrieve Arguments:

- Assigns the command-line arguments to `image_path`, `square_size`, and `destination_folder`.

- Call the Function:

- Calls 'cut image into squares' with the provided arguments to perform the image processing.

Usage:

To use this script, run it from the command line with the following syntax:

```
python script.py <image_path> <square_size> <destination_folder>
```

- `<image_path>`: Path to the image file to be processed.
- `<square size>`: Size of each square section (in pixels).
- `<destination_folder>`: Folder where the resulting squares will be saved.

This script is useful for splitting large images into smaller, manageable pieces, which can be helpful in various applications like texture atlases or image processing tasks.