

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
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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.