

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://lingoam.com/EmojiToUnicodeConverter>

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	1f607		1f642		1f643		1f609		1f60c
	1f60d		1f970		1f618		1f617		1f619
	1f61a		1f60b		1f61b		1f61d		1f61c
	1f92a		1f928		1f9d0		1f913		1f60e
	1f929		1f973		1f60f		1f612		1f61e
	1f614		1f61f		1f615		1f641		2639
	1f623		1f616		1f62b		1f629		1f97a
	1f622		1f62d		1f925		1f636		1f624
	1f620		1f621		1f92c		1f92f		1f633
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	1f625		1f613		1f917		1f914		1f92d
	1f92b		1f610		1f611		1f62c		1f644
	1f62f		1f626		1f627		1f62e		1f632
	1f634		1f924		1f62a		1f635		1f910
	1f974		1f922		1f92e		1f927		1f637
	1f912		1f915		1f911		1f920		1f608
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	1f63b		1f63c		1f63d		1f640		1f63f
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	1f596		1f44c		270c		1f91e		1f91f
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	1F595		1F447		261D		1F44D		1F44E
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	1F563		1F564		1F565		1F566		1F567

Script Explanations

Emoji System Editor

Purpose

This script provides a custom editor inside Unity that allows developers to manage emoji sprite assets. It can:

- Edit both **Legacy** and **TextMeshPro (TMP)** sprite assets.
- Modify **glyph metrics** (width, height, bearings, advance, scale, atlas index).
- Cut a **texture into square segments** for creating multiple sprites quickly.
- Apply TMP sprite assets directly to all text objects in a scene.

It is mainly used for creating or editing emoji packs that can be used in Unity UI or TextMeshPro components.

Variables and What They Do

1. **Type Enum**
 - Determines which type of emoji asset is being edited.
 - Options: Legacy or TextMeshPro.
2. **SerializedObject**
 - Represents the editor window's serialized state, allowing property changes to be tracked and applied.
3. **GUI Styles**
 - textStyle: Defines the appearance of main labels and headers.
 - foldoutStyle: Defines the appearance of foldable sections in the editor.
4. **UI State Variables**
 - scrollPosition: Keeps track of the vertical scroll inside the editor window.
 - showAssetEditor / showSpriteEditor: Booleans that toggle the visibility of editor sections.
5. **Sprite Asset References**
 - spriteAssetEdit: Reference to a Legacy sprite asset.
 - TMP_spriteAssetEdit: Reference to a TMP sprite asset.
 - emojiType: Tracks which type of asset is currently selected.
6. **Glyph Metrics**
 - w / h: Width and height of a glyph.
 - bx / by: Horizontal bearing X and Y (offsets from the origin).
 - ad: Horizontal advance (spacing to the next glyph).
 - scale: Scale factor for the glyph.
 - atlasIndex: Index of the atlas texture where the glyph is stored.
7. **Sprite Cutting**
 - spriteEdit: The texture that can be cut into square segments.
 - size: Pixel size for each square segment.

Window Initialization

- A menu item is added under Unity's **Window** menu called "Emoji System Editor".
- When opened, it creates or finds the editor window and optionally assigns a custom icon.
- The serialized object is initialized to allow editing of its properties.

GUI (User Interface) Logic

1. **Main GUI Layout**
 - A scrollable editor window is created.
 - Sections are styled with headers and foldout panels.
2. **Asset Editor Section**
 - Allows the user to select the type of asset (Legacy or TMP).
 - Lets the user choose the sprite asset to edit based on type.
 - Glyph metrics editor allows the user to manually set width, height, bearings, advance, scale, and atlas index.
 - A "Save Asset" button writes changes to the asset after user confirmation.
 - For TMP assets, a **Scene Edit** section applies the selected sprite asset to all TMP text objects in the current scene.

3. **Sprite Editor Section**

- Allows cutting of a texture into square segments.
- User selects a texture and defines the square size.
- "Apply to Folder" button saves all cropped squares to a chosen folder.

Core Methods

1. **DrawSection**

- Handles the drawing of foldable, editable sections in the editor.
- Accepts parameters for the title, visibility, editable state, and a drawing function.

2. **SaveFile**

- Saves glyph metric changes to the currently selected asset (Legacy or TMP).

3. **UpdateGlyphMetrics**

- Iterates over all glyphs in a sprite asset and updates their metrics and scale/atlas index according to the editor fields.

4. **SaveAsset**

- Marks an asset as modified and writes all changes to Unity's asset database.

5. **ApplyToAllObjects**

- Applies the selected TMP sprite asset to all TMP text objects in the active scene.
- Marks the scene as dirty so changes can be saved.

6. **IsValidSpriteAsset**

- Checks if a valid sprite asset is currently selected for editing.

7. **CutImageIntoSquares**

- Splits a texture into multiple square textures of a specified size.
- Saves each square as a PNG file in the chosen folder.
- Optimized using direct pixel arrays for speed.

8. **LoadTextureFromAssetFile**

- Attempts to load a texture directly from its asset file on disk.
- Returns a readable texture for editing purposes.

9. **GetReadableTexture**

- Creates a readable copy of a GPU texture in case the original texture is not directly editable.

Usage Workflow

1. Open the editor via **Window** → **Emoji System Editor**.
2. Choose the asset type: Legacy or TextMeshPro.
3. Select the sprite asset to edit.
4. Adjust glyph metrics (width, height, bearings, advance, scale, atlas index).
5. Click **Save Asset** to apply changes.
6. If editing TMP assets, optionally click **Apply to Scene** to replace the sprite asset on all TMP text objects.
7. To create multiple emoji from a single texture, use the **Sprite Editor** section:
 - Select the texture.
 - Define the size of each square.
 - Click **Apply to Folder** to save all squares as PNG files.

Summary

This editor streamlines the process of creating and editing emoji packs in Unity. It combines:

- Asset selection and editing.
- Precise glyph metric adjustments.
- Automated scene-wide TMP updates.
- Efficient slicing of textures into uniform square sprites.

It's essentially a one-stop editor for emoji sprite management in Unity.