Model2Icon – Unity Icon Generator Tool

Welcome to **Model2Icon** – the ultimate icon generation tool for Unity developers. Easily convert your 3D models into high-quality 2D icons with transparency, rotation control, and sprite-ready output.

🚀 Getting Started

- Import the Tool: Download and import the Model2Icon package into your Unity project.
- 2. **Open the Tool**: From the Unity menu, go to **Tools > Model2Icon** to launch the window.

X Using the Tool

1. Select a 3D Model

 Drag and drop any 3D prefab or GameObject from your project into the Target Model field.

2. Adjust Camera & Render Settings

- **Rotation**: Set the viewing angle for the icon.
- Padding: Controls how far the camera pulls back from the model.
- Background Color: Choose a background color (including transparent alpha).
- Transparent Background: Toggle transparency (works with PNG format only).

3. Output Settings

Resolution: Choose between 32x32 and 4096x4096.

- Format: PNG (supports transparency) or JPG.
- File Name: Enter a custom file name for export.

4. Preview the Icon

- When a model is selected, the tool automatically generates a live preview.
- The preview updates in real-time as settings are modified.

5. Save the Icon

- Click | Save Icon to export.
- You'll be prompted to choose a save location.
- Once saved, the icon is automatically imported into Unity as a **Sprite**.

Features

- Econvert any 3D GameObject into a PNG or JPG icon
- Real-time icon preview window
- Sample Adjustable camera padding, rotation, and background color
- Output resolutions from 32x32 to 4096x4096
- H Auto-imports icons as Sprites
- Simple and intuitive editor UI

Customization

- Set exact rotation angles for the model.
- Tweak camera framing with padding.
- Choose any background color (including full alpha).
- Pick the desired resolution and format for export.

★ Use Cases

- Inventory icons for RPGs and survival games
- Skill or ability icons for characters
- UI buttons or menus from existing 3D assets
- Fast prototyping of stylized 3D UI elements

💾 Saving and Importing

- Icons are saved as .png or .jpg to your chosen path.
- PNG format retains transparency.
- Saved files inside the **Assets/** folder are automatically imported.
- The tool sets them up as **Sprites** with transparency enabled.

? Troubleshooting

- No preview showing: Ensure a 3D model is selected.
- Black background on PNG: Enable Transparent Background toggle.

- Preview not updating: Slightly adjust rotation or padding.
- Blurry or low-quality: Increase resolution (e.g., 1024 or 2048).
- Not appearing as Sprite: Ensure saved inside the Assets/ folder.

Requirements

- Unity 2020.3 LTS or newer
- Supports URP, HDRP, and Built-in render pipelines
- Editor-only tool no runtime dependencies

💡 Tips for Best Results

- Use PNG format for UI icons requiring transparency.
- Experiment with angles to highlight model silhouettes.
- Use orthographic projection for clean and consistent UI icons.
- Group your 3D model under an empty GameObject to better control rotation and scaling.