

## Bug Report: Icon Sheet Rendering Issue

### Title:

Invisible or Blank Output When Rendering a Single Sheet of 20 Icon Pairs Using PIL

### Date:

2025-05-31

### Environment:

Tool: ChatGPT w/ Python (Jupyter-like backend)

Libraries: PIL (Pillow), matplotlib

Output Formats: PNG, JPG, PDF

Number of images: 40 (20 'before' icons + 20 'hover' versions)

### Description:

When attempting to generate a single composite image containing all 20 'before/after hover' icon pairs (40 total images), the output file appears blank or invisible in all formats (PNG, JPG, PDF). However, individual icon files and small batches render correctly.

### Steps to Reproduce:

1. Load 40 PNG icon files.
2. Resize each to 150x150px and arrange them into a grid.
3. Compose a large transparent image.
4. Paste all 40 icons and draw labels.
5. Save as PNG, JPG, and PDF.

### Expected Result:

A single image showing all 20 icon pairs with hover effect variations, clearly labeled.

### Actual Result:

PNG: Transparent/blank

JPG: White but empty-looking sheet

PDF: Same as JPG

### Temporary Workaround Attempted:

Split into two batches of 10 pairs each -> Same issue

Used white background in JPG/PDF -> Still appears blank

Verified input images -> All render correctly

Applied hover effect enhancement -> No improvement

## **Bug Report: Icon Sheet Rendering Issue**

### **Suspected Causes:**

Memory limits or rendering buffer overflow

Alpha channel pasting issues

Text rendering possibly masking icon layers

### **Suggested Next Steps:**

Validate image buffer after pasting

Preview sheet before save

Consider canvas-based rendering or caching