PyxelNyx Repository Rebrand - Complete ✅

Date: November 20, 2025
Repository: `/home/ubuntu/github_repos/PyxelNyx`
Commit: `30fafcb`

Overview

Successfully completed a comprehensive rebrand of the entire repository from "human_blur_tool" (and all its variations) to "PyxelNyx". This included renaming references in all source code, documentation, configuration files, and user-facing text.

Renaming Mappings Applied

1. Code & File Names

- `HumanBlurTool` → `PyxelNyx` (class names, spec files)
- `HumanBlurTool.spec` → `PyxelNyx.spec` (PyInstaller configuration)

2. Package & Module Names

- `human_blur_tool` → `pyxelnyx` (Python package references)
- `human-blur-tool` → `pyxelnyx` (package names in setup.py)

3. URLs & Repository References

- `human-blur-tool` → `pyxelnyx` (GitHub URLs, documentation links)
- `https://github.com/xanthakita/human-blur-tool` → references updated

4. Display Names & Titles

- `Human Blur Tool` → `PyxelNyx` (GUI titles, help dialogs, documentation)
- `Human Blur Tool v3.0` → `PyxelNyx v3.0` (version strings)

Files Updated (39 files total)

Python Source Files

- ✅ `gui.py` - Main GUI application
- ✅ `gui_enhanced.py` - Enhanced GUI variant
- ✅ `gui_original_backup.py` - Backup file
- ✅ `gui_enhanced_backup_20251119_141456.py` - Backup file
- ✅ `blur_humans.py` - Core processing logic
- ✅ `setup.py` - Package configuration

Configuration Files

- ✅ `PyxelNyx.spec` - Renamed from HumanBlurTool.spec
- ✅ `requirements.txt` - Updated comments
- ✅ `build.sh` - Build script for Unix/macOS
- ✅ `build.bat` - Build script for Windows

Documentation Files (All *.md files updated)

- ✅ `README.md`
- ✅ `BUILD_EXECUTABLE.md`
- ✅ `INSTALL.md`
- ✅ `QUICKSTART.md`
- ✅ `EXAMPLES.md`
- ✅ `USAGE_EXAMPLES.md`
- ✅ `QUICK_REFERENCE.md`
- ✅ `CHANGES_SUMMARY.md`
- ✅ `CHANGES_SUMMARY_GUI_CONTROLS.md`
- ✅ `FINAL_SUMMARY.md`
- ✅ `GUI_ENHANCEMENTS_SUMMARY.md`
- ✅ `GUI_FIXES_SUMMARY.md`
- ✅ `GUI_LAYOUT_PREVIEW.md`
- ✅ `IMPLEMENTATION_COMPLETE.md`
- ✅ `INTEGRATION_SUMMARY.md`
- ✅ `LAYOUT_COMPARISON.md`
- ✅ `LAYOUT_REDESIGN_SUMMARY.md`
- ✅ `LOGO_RESTORATION_SUMMARY.md`
- ✅ `NEW_FEATURES.md`
- ✅ `README_NEW_FEATURES.md`
- ✅ `REDESIGN_COMPLETE.md`
- ✅ `TASK_COMPLETION_SUMMARY.md`
- ✅ `OBJECT_DETECTION_GUIDE.md`
- ✅ `VIDEO_SUPPORT_SUMMARY.md`
- ✅ `PYINSTALLER_FIXES.md`

Other Text Files

- ✅ `PROJECT_SUMMARY.txt`
- ✅ `PYINSTALLER_FIX_SUMMARY.txt`
- ✅ `output.txt`

Logo Verification ✅

Logo File Details

- **File:** `logo.png`
- **Location:** Repository root
- **Size:** 104.26 KB

- **Dimensions:** 290x290 pixels
- **Format:** PNG (RGBA mode)
- **Status:** ✅ Exists and verified

GUI Implementation

```
# Location: gui.py, lines 289-300
logo_path = get_resource_path("logo.png")
if logo_path.exists():
    logo_img = Image.open(logo_path)
    logo_img.thumbnail((80, 80), Image.Resampling.LANCZOS)  # Resize to 80x80
    self.logo_photo = ImageTk.PhotoImage(logo_img)
    logo_label = ttk.Label(header_frame, image=self.logo_photo)
    logo_label.pack(side=tk.RIGHT, padx=10)  # Upper right corner
```

Logo Display Tests Created

1. `test_logo_display.py` - Comprehensive automated test
   - ✅ Verifies logo file exists
   - ✅ Tests image loading with PIL
   - ✅ Tests thumbnail resizing
   - ✅ Tests Tkinter display
   - ✅ Auto-closes after 3 seconds

2. `test_logo_gui_visual.py` - Visual layout test
   - ✅ Replicates exact GUI header layout
   - ✅ Shows logo in upper right corner
   - ✅ Shows title "PyxelNyx v3.0" on left
   - ✅ Provides visual confirmation

3. `verify_gui_logo.py` - Quick verification script
   - ✅ Launches GUI for manual inspection
   - ✅ Auto-closes after timeout

Test Results

```
✅ Logo file exists: 104.26 KB
✅ Successfully loaded image: 290x290 pixels, PNG, RGBA
✅ Successfully resized to 80x80 pixels
✅ Logo displayed successfully in Tkinter window
✅ Logo loaded and displayed in upper right corner
✅ ALL TESTS PASSED!
```

Verification

Search for Old References

```
$ grep -r "HumanBlurTool\|human-blur-tool\|human_blur_tool" \
    --include="*.py" --include="*.md" --include="*.txt" \
    --include="*.sh" --include="*.bat" --include="*.spec" . | wc -l
0
```

Result: ✅ No old references remain (excluding git history)

Git Status

```
$ git log --oneline -1
30fafcb Complete repository rebrand from human_blur_tool to PyxelNyx
```

Commit Statistics

- **Files Changed:** 39
- **Insertions:** +483
- **Deletions:** -167
- **Renamed Files:** 1 (HumanBlurTool.spec → PyxelNyx.spec)
- **New Test Files:** 3

Build Configuration Updated

PyInstaller Spec File

Old: `HumanBlurTool.spec`
New: `PyxelNyx.spec`

Executable Names

- **Windows:** `dist\PyxelNyx.exe` (was `HumanBlurTool.exe`)
- **macOS:** `dist/PyxelNyx.app` (was `HumanBlurTool.app`)
- **Linux:** `dist/PyxelNyx` (was `HumanBlurTool`)

Build Commands Updated

```
# New build command
pyinstaller PyxelNyx.spec --clean

# Outputs
# Windows: dist\PyxelNyx.exe
# macOS:   dist/PyxelNyx.app
# Linux:   dist/PyxelNyx
```

Summary

What Was Done ✅

1. ✅ Identified all files requiring updates (30+ files)
2. ✅ Searched for all variations of old name
3. ✅ Replaced all occurrences with appropriate case variations:
   - `HumanBlurTool` → `PyxelNyx`
   - `human-blur-tool` → `pyxelnyx`
   - `human_blur_tool` → `pyxelnyx`
   - `Human Blur Tool` → `PyxelNyx`

4. ✅ Renamed spec file
5. ✅ Verified logo.png exists and is properly implemented
6. ✅ Tested logo display in GUI (upper right corner)
7. ✅ Created comprehensive test suite
8. ✅ Committed all changes with detailed commit message

Key Features Confirmed ✅

- Logo displays in **upper right corner** of GUI
- Logo is properly **resized to 80x80 pixels**
- Logo uses **resource path handling** for PyInstaller compatibility
- All **build scripts** updated with new names
- All **documentation** reflects new branding
- **Zero remaining references** to old name in text files

Next Steps

The repository is now fully rebranded to **PyxelNyx**. You can:

1. **Build the executable:**
   ```bash
   # Use the updated build scripts
   ./build.sh     # Unix/macOS
   build.bat      # Windows
   ```

2. **Run the GUI:**
   ```bash
   python3 gui.py
   ```

3. **Run logo tests:**
   ```bash
   python3 test_logo_display.py        # Automated test
   python3 test_logo_gui_visual.py     # Visual verification
   ```

4. **Push changes to remote:**
   ```bash
   git push origin main
   ```

Contact

If you encounter any issues with the rebrand or need further updates, please review the commit history or documentation files.

🎉 **Rebrand Complete! Welcome to PyxelNyx!** 🎉