

Nema|GUI ToolKit: A Graphical Toolkit for Building Embedded GUIs on Resource Limited Devices

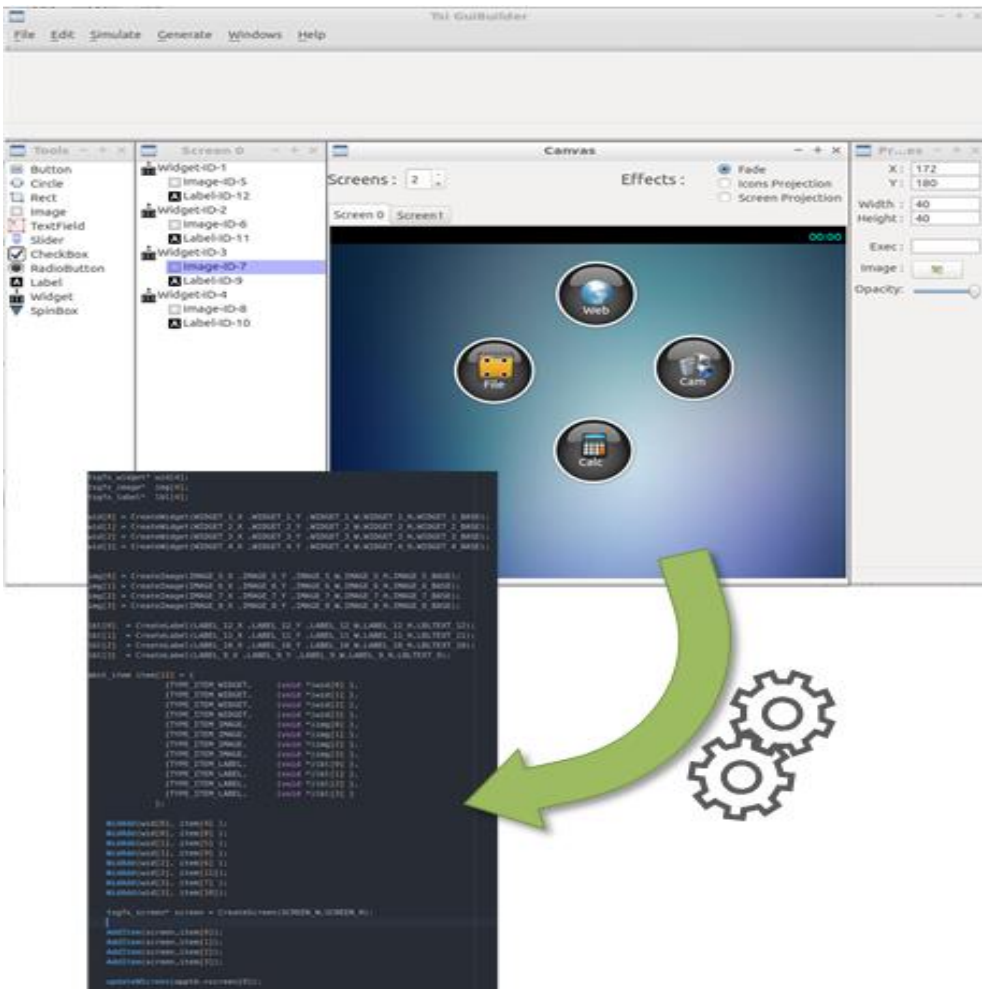
Nema|GUI toolkit is a graphical cross-platform software framework that enables rapid Graphical User Interface (GUI) development on low resource hardware taking advantage the full benefits of Nema products (GPUs & Display processors) of Think Silicon S.A. The framework includes smooth navigation capabilities and is ideal for touch screens.

Nema|GUI toolkit provides a library of basic and advanced GUI Widgets utilized for constructing high-quality, smooth and interactive graphical interfaces. The programmer can test the output screen in his/her host PC reducing in this way the development time of embedded GUI building by an order of magnitude. Nema|GUI toolkit relies on NEMA|gfx API, a high-quality and low power graphics API of the company.

The framework automatically produces performance optimized C code with small memory footprint making extensive use of the 3D features of Nema GPUs.

Features List

- Friendly UI with drag-n-drop capabilities
- Ideal for resource constrained environments
- User interaction
- Support for touch screens
- Hierarchical organization of GUI widgets
- Automatic code generation
- Performance-optimized code
- Power-optimized code
- Advanced image handling
 - Color conversion
 - Smart image handlers
- Limitless object number
- Multiple hardware target
- Multiple OS targets
- Small Memory footprint optimization



Nema|GUI Widgets

Nema|GUI toolkit provides a large set of widgets commonly needed to develop graphical applications like buttons, textfields, sliders, frames, labels etc. These widgets are able to be instantly integrated in the final application in a drag-n-drop fashion.



Power Benefits

Nema|GUI toolkit supports power-aware code generation that takes advantage of the target hardware. It allows the programmer to estimate any resource-related restrictions, including detailed calculations of the image-data and the executable file-size. The toolkit supports the proprietary TSc compression/decompression algorithms (i.e. image and framebuffer compression). Unlike other similar libraries, Nema|GUI toolkit exposes a large number of parameters from the underlying API/Library, thus facilitating programmers on becoming fully aware of the whole set of parameters that may be tempered to further increase power efficiency and robustness of embedded interfaces.

Value Proposition

Nema|GUI toolkit is fully compatible with the rest of Think Silicon products. Using Nema|GUI, our customers are able to create outstanding graphical interfaces and smooth animations, in a fast and efficient manner, without any compromise in terms of performance and features.

Components

- Buttons
- Labels
- Radio Buttons
- CheckBoxes
- Widgets
- Rectangles
- Circles
- Sliders
- Containers

Operations

- Transparency
- Blending & Clipping
- Animations
- Anti-aliasing support
- Screen navigation
- Image/framebuffer compression

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