

Observes a tree of widget instances in the kernel. Requests abstract information about the widget when necessary, and uses themes and other device-specific information to construct a scene graph. A set of layout primitives are provided that can't be expanded without modifying the layout server, but should be general enough for any application-just like the instruction set of a CPU.

Accepts input events from the I/O server and transforms them from device coordinates to a widget ID and coordinates within that widget.

Observes the layout server's scene graph, and generates primitives to render when necessary. This contains both the rendering algorithm (S2 engine, libart..) and an interface to the low-level video system in use.

Provides a connection between PicoGUI Modules that can, at compile time, be configured as a very fast zero-copy procedure call, as a call to a dynamically loaded object, or as a network-transparent call using something similar to PicoGUI's existing protocol.

This also provides the mechanism to easily multiplex components, and rearrange them at runtime.