

Using Qt for GUI tasks in R

Deepayan Sarkar^{1,*}

1. Fred Hutchinson Cancer Research Center * Contact author: deepayan.sarkar@r-project.org

Keywords: GUI, Qt, user interfaces, visualization and graphics

Although R is primarily a command-line tool, it provides facilities for interfacing with various GUI toolkits. Qt is a powerful, robust, and cross-platform GUI toolkit licensed under the GPL. Full use of Qt from R requires bindings to Qt, which are not yet available. However, it is relatively simple to write custom tools that use Qt for specific purposes. In this talk, I will give some examples of such tools, including a R graphics device implemented using Qt, an alternative R help browser with full-text search capabilities, a simple data import wizard, and a basic but functional high-level graphics system not unlike lattice, that is completely independent of the R graphics engine.

References

Qt software, <http://www.qtsoftware.com/>.