

Designing a Flexible GUI for R

Sheri Gilley^{1,2,*}

1. REvolution Computing

*Contact author: sheri@revolution-computing.com

Keywords: GUI, user interface, UI design

One of REvolution's main goals is to make data analysis done in R accessible to a wider community of people. To that end, we're in the process of designing and building a graphical user interface for R. The goals of our user interface are the following:

1. Support the entire workflow of data analysis
2. Work on all platforms
3. Easy to use for a person who does not know how to program in R
4. Aid in learning for a beginner in R programming
5. Easy to extend for someone who is an experienced R programmer

We developed personas and use cases, followed by a series of prototypes. Prototypes were then presented to various potential users and evaluated. At this talk I will present some of the more important use cases and show how they were satisfied in the prototype, as well as a demo our progress in building of this new user interface.