Record Nr. UNINA9910820643203321 Autore Lawrence Michael **Titolo** Programming Graphical User Interfaces in R / / by Michael Lawrence and John Verzani Pubbl/distr/stampa Boca Raton, FL:,: Taylor and Francis, an imprint of Chapman and Hall/CRC, , [2018] ©2012 **ISBN** 1-315-36051-9 1-315-36288-0 1-315-37389-0 1-4398-5683-4 Edizione [First edition.] 1 online resource (464 p.) Descrizione fisica Collana Chapman & Hall/CRC the R series Classificazione COM060000MAT029000 Disciplina 005.4/37 Soggetti Graphical user interfaces (Computer systems) R (Computer program language) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "A Chapman & Hall book." Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; Contents; Preface; 1. The Fundamentals of Graphical User Interfaces; I The gWidgets Package; 2. gWidgets: Overview; 3. gWidgets: Container Widgets: 4. aWidgets: Control Widgets: 5. aWidgets: Rspecific Widgets; II The RGtk2 Package; 6. RGtk2: Overview; 7. RGtk2: Windows, Containers, and Dialogs; 8. RGtk2: Basic Components; 9. RGtk2: Widgets Using Data Models: 10. RGtk2: Application Windows: 11. Extending GObject Classes; III The gtbase Package; 12. Qt: Overview; 13. Qt: Layout Managers and Containers; 14. Qt: Widgets; 15. Qt: Widgets Using Data Models; 16. Qt: Application Windows IV The tcltk Package17. Tcl/Tk: Overview; 18. Tcl/Tk: Layout and Containers; 19. Tcl/Tk: Dialogs and Widgets; 20. Tcl/Tk: Text, Tree, and Canvas Widgets Sommario/riassunto Programming Graphical User Interfaces with R introduces each of the major R packages for GUI programming: RGtk2, gtbase, Tcl/Tk, and gWidgets. With examples woven through the text as well as standalone demonstrations of simple yet reasonably complete applications, the book features topics especially relevant to statisticians who aim to

provide a practical interface to functionality implemented in R. The book offers: A how-to guide for developing GUIs within R, The fundamentals for users with limited knowledge of programming within R and other languages, GUI design for specific functions or as learning tools. The accompanying package, ProgGUIinR, includes the complete code for all examples as well as functions for browsing the examples from the respective chapters. Accessible to seasoned, novice, and occasional R users, this book shows that for many purposes, adding a graphical interface to one's work is not terribly sophisticated or time consuming.