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	Titolo	Advanced R : Data Programming and the Cloud / / by Matt Wiley, Joshua F. Wiley
	Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2016
	ISBN	9781484220771
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	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (XIX, 279 p. 77 illus., 40 illus. in color.)
	Disciplina	005.13
	Soggetti	Compilers (Computer programs)
		Computer science - Mathematics
		Mathematical statistics
		Mathematical statistics - Data processing
		Computer programming
		Compilers and Interpreters
		Probability and Statistics in Computer Science
		Statistics and Computing
		Programming Techniques
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	1.Programming Basics -- 2.Programming Utilities -- 3.Loops, flow control, and *apply functions -- 4.Writing Functions -- 5.Writing Classes and Methods -- 6.Writing a Package -- 7.Data Management using data.table -- 8.Data Munging With data.table -- 9.Other Tools for Data Management -- 10.Reading Big Data(bases) -- 11.Getting a Cloud -- 12.Ubuntu for Windows Users -- 13.Every Cloud has a Shiny lining -- 14.Shiny Dashboard Sampler -- 15.Dynamic Reports and the Cloud -- References.
	Sommario/riassunto	Program for data analysis using R and learn practical skills to make your work more efficient. This book covers how to automate running code and the creation of reports to share your results, as well as writing functions and packages. Advanced R is not designed to teach advanced R programming nor to teach the theory behind statistical procedures.

Rather, it is designed to be a practical guide moving beyond merely using R to programming in R to automate tasks. This book will show you how to manipulate data in modern R structures and includes connecting R to data bases such as SQLite, PostgeSQL, and MongoDB. The book closes with a hands-on section to get R running in the cloud. Each chapter also includes a detailed bibliography with references to research articles and other resources that cover relevant conceptual and theoretical topics. What You Will Learn Write and document R functions Makean R package and share it via GitHub or privately Add tests to R code to insure it works as intended Build packages automatically with GitHub Use R to talk directly to databases and do complex data management Run R in the Amazon cloud Generate presentation-ready tables and reports using R Who This Book Is For Working professionals, researchers, or students who are familiar with R and basic statistical techniques such as linear regression and who want to learn how to take their R coding and programming to the next level.