

1: BUGS â€¦ Survival Guide â€¦ Academic Life

Course outline 1. Overview of R graphics 2. Standard graphics in R 3. Grid & lattice graphics 4. ggplot2.

Overview of R graphics, the big picture? R, R Studio, R package tools? Roles of graphics in data analysis? What can I do with R graphics? Anything you can think of! Reproducible analysis and reporting? R Studio - - Outline: Standard graphics in R? Colors, point symbols, line styles? Add fitted lines, confidence envelopes Outline: All standard plots, with more pleasing defaults? Practical Recipes for Visualizing Data Cookbook format, covering common graphing tasks; the main focus is on ggplot2 R code from book: Multivariate Visualization with R R code for all figures: Elegant graphics for data analysis, 2nd Ed. To profit best from this course, you need to install both R and R Studio on your computer The basic R system: R Studio-related packages, as useful R package tools much easier. Tidy data makes analysis and graphing Packages: R now has several powerful connections to preparing dynamic, webbased data display and analysis applications. R Studio command history workspace: Why plot your data? Three data sets with exactly the same bivariate summary statistics: Same correlations, linear regression lines, etc? What is the audience? What is the message? Something wrong, go back to step 1 Thoughtful analysis, Comparing models, Insightful graphics, Telling the story of your results and conclusions? Whatever you can do to reduce this, gives more time for: Default settings for plots often give something reasonable? Graph title, axis and value labels: Connect the data in the graph to interpretation? A wide variety of standard plots customized line graph: It produces different kinds of plots depending on whether x and y are numeric or factors. The function scatterplotMatrix in the car package provides? Here the main goal is to see how mpg is related to the other variables See: Exploratory displays for correlation matrices. The American Statistician, , 56, 27 Multivariate plots: This example uses schematic ellipses to show the strength and direction of correlations among variables on a large collection of Italian wines. Here the main goal is to see how the variables are related to each other. The American Statistician, , 56, 28 Generalized pairs plots Generalized pairs plots from the gpairs package handle both categorical C and quantitative Q variables in sensible ways x C C y plot Q Q scatterplot Q boxplot barcode mosaic C Q C library gpairs data Arthritis gpairs Arthritis[, c 5, 2: Added variable plots The car package has many more functions for plotting linear model objects Among these, added variable plots show the partial relations of y to each x, holding all other predictors constant. Interpretation Fitted models are often difficult to interpret from tables of coefficients add term for type of job duncan. Effect plots Fitted models are more easily interpreted by plotting the predicted values. Effect plots do this nicely, making plots for each high-order term, controlling for others library effects duncan. Coefficient plots Sometimes you need to report or display the coefficients from a fitted model. A plot of coefficients with CIs is sometimes more effective than a table. Other R packages use this for 3D statistical graphs This example uses car:: This example illustrates the idea of least squares fitting of a regression line. As the slope of the line is varied, the right panel shows the residual sum of squares. Network diagrams graphvis http: It uses a simple notation to describe nodes and edges. Flow charts The diagram package: Flow chart about understanding flow charts after http: They use the DiagrammeR package to do the drawing. CRAN package history R has extensive facilities for extracting and processing information obtained from web pages. The XML package is one useful tool for this purpose. My last book was written entirely in R Studio, using. Templates are available for APA papers, slides, handouts, entire web sites, etc. Today has been mostly about an overview of R graphics, but with emphasis on: Roles of graphics in data analysis,? A small gallery of examples of different kinds of graphic applications in R; only small samples of R code? Find one or more examples of data graphs from your research area? What are the graphic elements: How could they be improved?

2: Vamos compartilhar dicas para o uso do R?

General advice. Bear in mind, this is a different world from undergrad. It's a higher level of thinking, and you'll spend less time taking courses and more time learning through lab work, conferences, and talking to peers and professors.

Visible Rows and Columns Row and column addresses can be detected, stored in variables, and manipulated. Note that columns can be managed as column numbers. Column Range and Cells Directly reading and writing spreadsheet data is clearly the most important ability of VBA as a programming language. Addressing Cells and Ranges Where cell position is provided using the traditional string, data can be written directly using the Range. Note that address is column before row: Note that the address is row before column: Both of the following lines refer to cell C5: Cells 5,"C" Cells 5,3 Cells properties can be used as parameters in the Range property. The following refers to the range A1: Range Cells 1,1 ,Cells 5,5 The range can be referenced absolutely or relatively. Best practice is to use absolute references where possible. It is the name outside the parenthesis. Selecting, Activating, and Addressing Cells When humans use spreadsheets, they activate worksheets and cells, but can also select worksheets, cells, and ranges. More than one worksheet can be selected, but only one active or activated. More than one cell can be selected, but only one active. Different ranges on different worksheets can be selected, which can change what is active when changes are made in which worksheets are selected. The way this works may defy initial logical expectations. VBA code can also address cells by changing what cells are activated and what range selected. Most of the code examples in this posting use direct addressing, such as: Addressing via selection and activation uses syntax resembling the following: VBA in macros may need to be designed to only change cells the user has selected. When using the selection and activation method, the Offset property is commonly used to address cells in proximity. The Offset property is generally used with Range objects including Range object variables and the application ActiveCell object. Typical Offset examples include: Be sure that you have the right variable type defined to match the cell contents! The Range object allows referencing a cell by its user visible address via a text string. Note that StudentMarks is array! Setting cell properties is simple, but a strong grasp of object properties and parameters is required. Range Cells 1, 1 , Cells 5, 3. These are similar to, but not identical to the date, string, and numeric functions available within Excel spreadsheet cells. There is not complete overlap between the two sets of functions. Excel functions are available in VBA code via the Application. Min myRange A list of the available functions is available here. The User Interface VBA provides communications directly with the user via panels, forms, and Active-X controls, outside of simply manipulating the contents of Excel spreadsheet cells. Excel VBA offers a message box panel for simple user communications focused on output. The message box provides 6 formats of user response after the user has read the message. The format and the response are coded with integers. The best practice is to use some of the established VBA constants for that control in case Microsoft chooses to change the integer coding in the future. Excel VBA offers an input panel for simple user communications focused on input. The input box provides a message prompt and then accepts one field for direct input. The only apparent difference is that the latter offers the ability to control the type of data accepted. On its own, Excel will generate dialog boxes when the user or the VBA program attempts certain operations such as deleting a worksheet. VBA enables turning off these kind of automatically generate dialogs while the code is running.

3: An introduction to R Graphics

r graphics cookbook tufts university pdf an introduction to r graphics - data vis an introduction to r graphics michael friendly scs short course. march, An Introduction To R Graphics 4.

Software General advice Bear in mind, this is a different world from undergrad. Figure out what time of day you like to work. Some people get a lot done in the morning, others prefer working during the afternoon, and some people like to run their experiments during times when they have the whole lab to themselves. If you need to get out of the office, try studying at the Tisch library, the Ginn library, or in the graduate student lounge campus map here. Try to come up with a reading plan. Ask your advisor for a reading list or reading suggestions early in the year. Try to come up with a schedule, some people like to read a certain number of papers each week. Never be scared to ask for advice or help! Figure out your 2nd semester rotation early. Be talking early on with other professors and thinking broadly about who asks the sort of questions you would be interested in working on. Advisors Cultivating a good relationship with your advisor is essential. They will guide you through your many years at Tufts. Your relationship with your advisor is one of the most important factors regarding whether you will finish your PhD. Foster a relationship that is respectful, professional, and friendly. Learn to communicate well with your advisor. Some people like regular meetings with their advisor. Set this up with your advisor if you feel that this will keep you better organized and more on task. If something is bothering you, say it professionally, though. Work hard and be productive. To arrange a meeting with your committee, try using Doodle. Send out the poll at least a month in advance Keep your committee up to date about your activities. Think about designing a "report form" which you can send them every semester to update them on your progress. Committee meeting styles can vary depending on the advisor so if you are unclear about something, ask a more senior grad student in the lab! Bring food to your committee meetings food makes everyone happy. Qualifying Exam Be sure to think about your qualifying exam way in advance of quals. Talk with your advisor and your committee at least a semester ahead of time to assemble a reading list and get a sense of their expectations. Read broadly and expansively, and try to incorporate both foundational theories and older papers with the newest, cutting-edge discoveries. Teaching Figure out what kind of teaching style suits you best. Some TAs like to be very friendly while other TAs prefer a no-nonsense attitude. Tufts undergraduates are, for the most part, very smart, interactive, and interested in the subject material. That being said, you will always have a few sullen, unwilling participants in class. Set boundaries for your students at the very beginning of the semester. Some undergraduates are very stressed, and the occasional breakdown does occur. If a student does something very inappropriate or has an unrealistic request like wanting to switch labs one day so they can go to a Red Sox game bring the situation to the lab coordinator. Always ask older graduate students for teaching advice, because they were in your shoes once and are always willing to share their experiences. Great undergraduates will make teaching worthwhile! Give yourself a good amount of time to prepare for labs. Software Refworks, Mendeley, and Zotero are free reference managers. As of , you can also use Endnote for free! Go to Eaton Hall to get it installed. Tisch library offers workshops in all of these except Mendeley. ImageJ is great for image analysis. There is a shared grad student printer color! The computer has Adobe Creative Cloud and other expensive software. Make sure to back up all of your data! Talk to your advisor about getting access to the research drive. See what statistics program you like. Graphpad Prism is always a good stand-by, too. R is a good free program, you just need to set aside time to learn it! R is great because it is FREE for anyone to download. R can be intimidating at first, here are a few helpful resources:

4: ggplot2 - Plotting sized circles using R - Stack Overflow

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They can help you to be prepared and may be able to help you stop the break up and the pain that goes along with it. With clubs, pubs and shops all their to service the slopes, it is no wonder that the skiing facility has three 5 star hotels positioned next to the slopes. If Mallika has to stay in the film industry she will have to give quality to cinema. Another thing that school aged kids need to do is learn to control their physical behavior whenever they stutter. The liver cells then collect all the bilirubin produced by the blood, transfer it to the liver to be broken down into the gut, and turned to bile. So if you intend to try out one of the California Mystic tan booths, you must wear absolutely nothing so that all of your body will be covered by the tanning process. But it will basically depend on two major factors –the pricing of the underlying stocks and the amount of time remaining within the contract. There are several advantages of banking in the United States. They have been of wide interest in the field of medicine. Get a piano now and start learning to play such a magnificent instrument. It is preferable for a collector to focus on a specific group or era when collecting coins. Clay brings us right to another class of soils clayey soils. You may even use a brush to clean the dust if you like. Online gambling has many risks, aside from the risks on the game there are also the risks of scams and frauds. It is better for a person to find a job that he or she truly likes. Welcome to the professional world. Catering not only involves cooking, it involves and. The little note of sentiment adds a wonderful touch for the keepsake. Through progress and time, they slowly started to appear on the Internet. Before you start learning magic tricks, you have to learn its history. Fatigue can be a symptom of a multitude of illnesses as well as simply overdoing things but the B complex vitamin can help alleviate general tiredness and lethargy. There are many different types of pottery too. Review Stock Pick Reviews11 http: Post your ads for free http: Although you should be flexible, it still matters that you become keen to the real ask prices and bid. If you try to sell your annuity on your own, you might have to wait several months before a genuinely interested buyer would come by and seal the whole deal. You will need to know the difference between filled and coated as well as plated and you will want instruction on the proper and safe methods of antiquing metal jewelry. Bonus points are given for the team that creates their own stunts. Springtime and baseball seem to go together, as if God created springtime just for the national pastime. In random order, three were shot with swing though and five with a modified form of sustained lead. So the mad, mad Muslims slammed into our World Trade Center – which was, in fact, a mutual treasure of the human race, erected to facilitate worldwide economic competence and development – and incinerated nearly three thousand of our beloved, hard-working and comparatively normal people did it to reap imaginary rewards they could have picked up at a fruit market. In short, cooking is not easy. Plastic surgery not only specializes in reconstructive surgery but in cosmetic or aesthetic surgery as well. Lastly, look around you and feel the calm, restful and serene view of the river. Alkaline water is better tasting and has antioxidant activity. Issue numbers are one of the big obstacles for new readers, especially in periodical product like comic books.

5: r_graphics_cookbook_tufts_university

r graphics cookbook practical recipes for visualizing data pdf r graphics cookbook free r graphics cookbook tufts university (pdf, epub, mobi) Linked How Everything Is Connected To Else And What It.

6: Machine Learning With R Cookbook Pdf Download

(The bugs find the revolver intimidating, and I find that angry clicking sound more rewarding than admitting my

programming errors.) Framework To effectively learn a new programming language, I like having a well-organized written framework that guides my perspective on the structure and use of that language.

7: www.enganchecubano.com Tufts university

A place to post R stories, questions, and news, For posting problems, Stack Overflow is a better platform, but feel free to cross post them here or on #rstats (Twitter). For all things that do not belong on Stack Overflow, there is RStudio Community which is another great place to talk about #rstats.

8: R | Carl Gusler

It will be useful to create a collection of R resources here. Please provide links for any free resources or citations for books and a brief explanation.

9: Data Sci. and Visual.

Anatomy of a ggplot 21 Other details of ggplot concern scales You can control everything ggplot objects 22 Traditional R graphics just produce graphical output on a.

Marvel Fantastic Four Epilogue : the postwar years. One Christmas Angel Le app development for dummies Er doesnt russian text Some aspects of bibliography The wild little house Recent Advances in Ophthalmology 9/E (Recent Advances in Ophthalmology) Tell Me About Heaven Thoughts that come in the night. Handbook of Applied Chemistry Mindful Being Module 12: Spirituality and You Planned political assassination Basic Matrix Algebra with Algorithms and Applications (Chapman Hall/Crc Mathematics Series) Green in the city Best 100 stocks to in 2017 and The patient and the analyst A practical guide to integral yoga 9. Children of Divorce 435 Convention, 1999 517 Moon Power Starguide 2005 Grazing Research at Northern Latitudes Within the Hollow Hills Fossil Fuels (Energy Sources) Superstars of country music Descriptions of some new species of Athyreus, a genus of Lamellicorn beetles Literature and psychoanalysis the question of ing otherwise Managing to be different Russia and Europe : reaching agreements, digging trenches Kjell Engelbrekt and Bertil Nygren Vintage guitar price guide 2014 Final appointment All is salutation Daybreak With God (Quiet Moments with God Devotional) Simon and Schuster Crossword Puzzle Book, Series 159 Coherent Structures and Simple Games (Theory and Decision Library C:) Beginning logic lemmon Church State II (Cerebus, Volume 4) The legend of the Grand Canyon Behavioral difficulties A Bill for Altering the Times and Places for Holding the District Court in the District of Maine Collected Works of Rudyard Kipling Volume 2