**R Links**

**Mehmet Tevfik DORAK**

[http://www.dorak.info/r](http://www.dorak.info/r/)

**R Documentation (Packages & Functions)**: [https://www.rdocumentation.org](https://www.rdocumentation.org/)

**Base R Datasets**: <https://www.rdocumentation.org/packages/datasets/versions/3.5.1>

**Base R Cheat Sheet**: <http://github.com/rstudio/cheatsheets/raw/master/base-r.pdf> ([Advanced R](https://www.rstudio.com/wp-content/uploads/2016/02/advancedR.pdf))

**R Reference Card**: <https://cran.r-project.org/doc/contrib/Short-refcard.pdf>

**R Reference Card v.2**: <https://cran.r-project.org/doc/contrib/Baggott-refcard-v2.pdf>

**Quick-R:** [http://www.statmethods.net](http://www.statmethods.net/)

**Cookbook for R:** [http://www.cookbook-r.com](http://www.cookbook-r.com/)

**How To In R**: [[http://howtoinr.weebly.com](http://howtoinr.weebly.com/)](http://howtoinr.weebly.com/)

**One Page R**: [http://onepager.togaware.com](http://onepager.togaware.com/) (Book: [The Essentials of Data Science with R](https://essentials.togaware.com/))

**IDRE Guide to R** (UCLA): <http://www.ats.ucla.edu/stat/r>

**Data Science Live Book**: [http://livebook.datascienceheroes.com](http://livebook.datascienceheroes.com/)

**Computer World- Learn R for Beginners**:

<https://www.computerworld.com/article/2884322/application-development/learn-r-programming-basics-with-our-pdf.html>

**Computer World- Beginner's Guide to R**:

<https://www.computerworld.com/article/2497143/business-intelligence/business-intelligence-beginner-s-guide-to-r-introduction.html>

**Computer World- Advanced Beginner's Guide to R**:

<https://www.computerworld.com/resources/106345/advanced-beginners-guide-to-r.html>

**Bitesize: 10 Favorite R Packages and the Cool Things You Can Do with Them**

<http://bitesizebio.com/23003/my-10-favorite-r-packages-and-the-cool-things-you-can-do-with-them>

**Bitesize: Using R for Statistical Tests**

<https://bitesizebio.com/21422/r-you-ready-using-r-for-statistical-tests>

**R-Bloggers**: [https://www.r-bloggers.com](https://www.r-bloggers.com/)

**R Views (by R Studio):** [https://rviews.rstudio.com](https://rviews.rstudio.com/)

**Revolutions (R Blogs)**: [http://blog.revolutionanalytics.com](http://blog.revolutionanalytics.com/)

**Dave Tang's Blog**: <http://davetang.org/muse/r>

**Data Perspectives (R Blogs)**: [http://www.dataperspective.info](http://www.dataperspective.info/)

**The Yhat Blog (R & Python blogs)**: [http://blog.yhat.com](http://blog.yhat.com/)

**Sharp Sight Labs (Data Science with R)**: [http://sharpsightlabs.com](http://sharpsightlabs.com/)

**R Exercises:** [https://www.r-exercises.com](https://www.r-exercises.com/)

**How to Learn R (R-Bloggers & Data Camp road map)**: <https://www.r-bloggers.com/how-to-learn-r-2>

**Data School (Data Science for Beginners):**[http://www.dataschool.io](http://www.dataschool.io/python-or-r-for-data-science/)  >>> [http://www.dataschool.io/resources](http://www.dataschool.io/resources/)

**Getting Started with R (Data Perspective)**:

<http://www.dataperspective.info/2017/12/getting-started-with-r.html>

**The 5 Most Effective Ways to Learn R**:

<https://blog.datazar.com/the-5-most-effective-ways-to-learn-r-d4cfdf0d524>

**How to Learn R**: <http://www.business-science.io/learning-r/2018/03/03/how_to_learn_R_pt1.html>

**(Part 1: Learn from a Master Data Scientist's Code & Part 2: Learning from DRob’s Code)**

**Data Academy**:

[https://www.datacamp.com](https://www.datacamp.com/)

**Data Science Crash Course with R (SharpSight)**:

<http://sharpsightlabs.com/wp-content/uploads/2016/12/data-science-crash-course__SharpSight.pdf>

Saved as Data Science Crash Course with R\_SharpSight.pdf

**Free Data Science Courses**:

<http://datascienceacademy.com/free-data-science-courses>

**An R tutorial for Microsoft Excel users**:

<http://blog.revolutionanalytics.com/2015/02/an-r-tutorial-for-microsoft-excel-users.html>

**R for Excel Users** (including “joining two tables”):

<http://blog.yhat.com/posts/R-for-excel-users.html>

**The difference between R and Excel**:

<http://blog.revolutionanalytics.com/2017/02/the-difference-between-r-and-excel.html>

**Get data out of Excel and into R with readxl**:

<https://blog.rstudio.com/2015/04/15/readxl-0-1-0/>

**Importing an Excel Workbook into R**

<http://perfdynamics.blogspot.com/2014/06/importing-excel-workbook-into-r_5.html>

<http://www.sthda.com/english/wiki/reading-data-from-excel-files-xls-xlsx-into-r>

<https://www.statmethods.net/input/importingdata.html>

[https://www.r-bloggers.com/using-excel-for-data-entry/amp](https://www.r-bloggers.com/using-excel-for-data-entry/amp/)

<https://www.displayr.com/how-to-read-an-excel-file-into-r>

**Handling Strings with R** (online book):

<http://www.gastonsanchez.com/r4strings>

**Web data acquisition**:

Part 1: <http://r-posts.com/web-data-acquisition-understanding-rcurl-from-the-command-line-part-1>

Part 2: <http://r-posts.com/web-data-acquisition-the-structure-of-rcurl-request-part-2>

Part 3: <http://r-posts.com/web-data-acquisition-parsing-json-objects-with-tidyjson-part-3>

**Importing Data into R**:

Part 1: <https://thepracticalr.wordpress.com/2016/09/23/importing-data-into-r>

Part 2: <https://thepracticalr.wordpress.com/2017/01/31/importing-data-into-r-part-ii>

**Two minutes video tutorials:** [http://www.twotorials.com](http://www.twotorials.com/)

**R Graph Catalog (with scripts):**

<http://shinyapps.stat.ubc.ca/r-graph-catalog> (see [here](https://chemicalstatistician.wordpress.com/2014/10/27/2457/))

**Data Science video tutorials @ Lynda.com:** <http://www.lynda.com/Big-Data-training-tutorials/2061-0.html>

**Up and Running with R @ Lynda.com:** <http://www.lynda.com/R-tutorials/Up-Running-R/120612-2.html>

**A two-hour introduction to data analysis in R @ Citizen Statistician**: <http://citizen-statistician.org/category/computation/r-project>

**The useR! 2016 Tutorials**:

Part 1: http://blog.revolutionanalytics.com/2016/06/the-user-2016-tutorials.html

Part 2: <http://blog.revolutionanalytics.com/2016/07/user-2016-tutorials-part-2-.html>

**Introduction to R online course**:

### [UC Business Analytics R Programming Guide](http://uc-r.github.io/)

<http://uc-r.github.io/introduction> (click on the menu on top left)

**tidyverse** (a collection of data science packages): [https://www.tidyverse.org](https://www.tidyverse.org/) (Book: [R for Data Science](https://www.tidyverse.org/learn/))

**Live online books**:

* R in Action (live online book): <https://livebook.manning.com/#!/book/r-in-action-second-edition/about-this-book>
* Practical Data Science with R (live online book): <https://livebook.manning.com/#!/book/practical-data-science-with-r>
* R for Data Science (live online book): [https://r4ds.had.co.nz](https://r4ds.had.co.nz/)
* Learn R (Online R Books): <http://ucanalytics.com/blogs/learn-r-12-books-and-online-resources>

**DataCamp Tutorials:**

**Introduction to Statistics with R**:

<https://www.datacamp.com/community/blog/intro-to-statistics-with-r-series>

**Data Visualisation in R**:

<https://www.datacamp.com/courses/data-visualization-in-r>

**R Data Import**:

Part I: <http://blog.datacamp.com/r-data-import-tutorial>

Part II: [http://blog.datacamp.com/importing-data-r-part-two](http://blog.datacamp.com/importing-data-r-part-two/)

**R Loops**: [http://blog.datacamp.com/tutorial-on-loops-in-r](http://blog.datacamp.com/tutorial-on-loops-in-r/)

**Interactive Plotly R Tutorial** (the Plotly package is one of the best R tools to create beautiful, interactive data visualizations): <https://www.datacamp.com/community/blog/a-free-interactive-plotly-r-tutorial>

**DataCamp Cheat Sheets (R)**: <https://www.datacamp.com/community/data-science-cheatsheets?tag=r-programming>

**R-Studio Cheat Sheets**: <https://www.rstudio.com/resources/cheatsheets>

**ggplot2 Cheat Sheet**: <https://www.rstudio.com/wp-content/uploads/2015/03/ggplot2-cheatsheet.pdf>

**Software Carpentry**: <http://software-carpentry.org/lessons>

**DataScience+ (Learn R Programming for Data Science)**: [http://datascienceplus.com](http://datascienceplus.com/)

**DataScienceMadeSimple (Learn R)**: [http://www.datasciencemadesimple.com/learn-r-what-is-r](http://www.datasciencemadesimple.com/learn-r-what-is-r/)

**Udemy Basic R Course (incl ggplot & Free)**: <https://www.udemy.com/machlearn1>

**DataSciencePlus online course (Learn R by Intensive Training)**:

<http://datascienceplus.com/learn-r-by-intensive-practice> &

<http://datascienceplus.com/learn-r-by-intensive-practice-part-2>

* [01. Install R and RStudio 04:24](https://www.youtube.com/watch?v=p3i7Kz6C_-4&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [02. R and RStudio Interface 12:21](https://www.youtube.com/watch?v=MiM0YRo6wP0&index=2&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [03. Do Basic Math with R 04:37](https://www.youtube.com/watch?v=NGHwwIp8cco&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe&index=3)
* [04. Datatypes 08:51](https://www.youtube.com/watch?v=j78pAISQ6t8&index=4&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [05. Vectors 06:00](https://www.youtube.com/watch?v=vr1S5THz4SA&index=5&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [06. Setup working directory and miscellaneous topics 07:38](https://www.youtube.com/watch?v=nlmcMpmbBiE&index=6&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [07. Special vector sequences 06:17](https://www.youtube.com/watch?v=BxaourcbOPM&index=7&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [08. Practice Exercise 1 01:36](https://www.youtube.com/watch?v=pIIeUFxoSxg&index=8&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [09. Random Numbers 04:45](https://www.youtube.com/watch?v=SkyBztF2urY&index=9&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [10. Missing values and attributes 09:53](https://www.youtube.com/watch?v=vfyZZwuCEG8&index=10&list=PLFAYD0dt5xCwDNFdrqeNoU9t-nhAWkbKe)
* [11. Get specific items using the which function 03:52](https://www.youtube.com/watch?v=KThi8MK9VTU)
* [12. Converting one variable type to another 05:48](https://www.youtube.com/watch?v=zNBI4L6zTHg)
* [13. Lists 04:38](https://www.youtube.com/watch?v=vJjEAZm8Mq4)
* [14. Set operations 04:37](https://www.youtube.com/watch?v=9p_SowJkbUk)
* [15. Random Sampling 13:00](https://www.youtube.com/watch?v=twcHwJhYWz4)
* [16. Special Ways To Check conditions 09:16](https://www.youtube.com/watch?v=fd6Aoh_aZno)
* [17. How to break out of for-loop and skip iterations 06:45](https://www.youtube.com/watch?v=OH22H00rwyc)
* [18. Introduction to Dataframes 06:00](https://www.youtube.com/watch?v=J-WFKleKEA4)
* [19. Dataframes - summary, str, subsetting, transpose 06:20](https://www.youtube.com/watch?v=CQwF040u3JY)
* [20. Dataframes - which(), order(), rev(), attach() 06:29](https://www.youtube.com/watch?v=YBKD5wEiAlU)
* [21. Practice Exercise 2 10:53](https://www.youtube.com/watch?v=VD42vrY2Rxs)
* [22. Practice Exercise 3 03:40](https://www.youtube.com/watch?v=sdem4V8I5Ls)

**Advanced R (companion to the book)**: [http://adv-r.had.co.nz](http://adv-r.had.co.nz/) ([book](http://www.amazon.com/dp/1466586966/ref=cm_sw_su_dp))

**R Programming Notes**: <http://mathewanalytics.com/2016/02/17/r-programming-notes-3>

**Microsoft R Client on Windows**: <https://msdn.microsoft.com/en-us/microsoft-r/install-r-client-windows>

**Display of Geographic Data in R:** <http://patilv.com/introtomapping>

**O’Reilly Video Course: Learning Machine Learning with Azure ML and R**: <https://player.oreilly.com/videos/9781771373845> (saved as Machine Learning with Azure ML and R.MP4)

**Writing better R functions**:

<https://ibecav.github.io/betterfunctions>

<https://ibecav.github.io/betterfunctions2>

<https://ibecav.github.io/betterfunctions3>

<https://ibecav.github.io/betterfunctions4>

**R Tips and Tricks**:

<https://www.zoology.ubc.ca/~schluter/R>

<http://www.dataanalytics.org.uk/Data%20Analysis/tips%20and%20tricks.htm#RTip>

<http://data-laborer.eu/r/Tips-and-tricks>

<http://www.science.smith.edu/~amcnamara/sds291/Rtips.html>

[https://rviews.rstudio.com/categories/tips-and-tricks](https://rviews.rstudio.com/categories/tips-and-tricks/)

<https://paulvanderlaken.com/2018/05/21/r-tips-and-tricks>

<https://www.stat.wisc.edu/network-skills/learnR>

[https://www.r-graph-gallery.com/portfolio/ggplot2-package](https://www.r-graph-gallery.com/portfolio/ggplot2-package/) (ggplot2 tips)

<http://dept.stat.lsa.umich.edu/~kshedden/Courses/Stat506/r_common_errors>

R Tips and Tricks: <https://eranraviv.com/category/blog/r>

The R Inferno (Burns Statistics): <https://www.burns-stat.com/pages/Tutor/R_inferno.pdf>

Impatient R (Burns Statistics): <https://www.burns-stat.com/documents/tutorials/impatient-r>

More R Errors (Burns Statistics): <https://www.burns-stat.com/documents/tutorials/impatient-r/more-r-errors-and-such>

10 tips for making your R graphics look their best: <https://blog.revolutionanalytics.com/2009/01/10-tips-for-making-your-r-graphics-look-their-best.html>

<http://onetipperday.sterding.com/> (One Tip Per Day)

How to Teach R- **Common mistakes**: <https://rviews.rstudio.com/2017/02/22/how-to-teach-r-common-mistakes>

**R: Frequently Asked Questions**:

<https://cran.r-project.org/doc/FAQ/R-FAQ.html>