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(http://www.r-exercises.com/wp-content/uploads/2016/07/Fotolia_62047262_XS.jpg)Ready, set, go!

On R-exercises, you will find *more than 2,500* R exercises. We've bundled them into exercise *sets*, where each set covers a specific concept or function. An exercise set typically contains about 10 exercises, progressing from easy to somewhat more difficult. In order to give you a full picture of all the amazing content on this website, we've categorized all sets into broader topics below.

Start at the beginning, or anywhere you want

If you're completely new to R, we suggest you simply start with the first topic, "Vectors". Once you've managed to work through all exercise sets, from top to bottom, you should have a fair amount of knowledge of, and practical experience with, using R. Of course, those of you who are familiar with R already, can jump straight to any of the topics below.

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Also, consider enrolling in an online R course to speed up learning, for example R Programming A-Z™: R For Data Science With Real Exercises! (http://www.r-exercises.com/product/r-programming-a-z-r-for-data-science-with-real-exercises/) if you're a beginner, or R Programming: Advanced Analytics In R For Data Science (http://www.r-exercises.com/product/r-programming-advanced-analytics-in-r-for-data-science/) if you're already at an intermediate level. Or even better, check out our R Course Finder (http://www.r-exercises.com/r-courses/) directory, which includes more than 140 R courses, and use its filters and search to quickly find the perfect R course that matches your level and interests!

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Have fun!

Exercise sets by Topic

Vectors and sequences (http://www.r-exercises.com/tag/vectors-and-sequences/)

1. Vectors (http://www.r-exercises.com/tag/vectors) [tutorial (http://www.r-exercises.com/2017/05/01/how-to-create-your-first-vector-in-r/)] [vol. 1 (http://www.r-exercises.com/2015/10/09/vector-exercises/)] [vol. 2 (http://www.r-exercises.com/2016/11/15/vector-exercises-vol-2/)] [BONUS (https://www.r-exercises.com/2017/09/18/comparing-vectors-exercises/)]
2. Regular sequences (http://www.r-exercises.com/tag/regular-sequences) [vol. 1 (http://www.r-exercises.com/2015/10/23/regular-sequences/)] [vol. 2 (http://www.r-exercises.com/2016/11/09/regular-sequences-2/)]
3. Logical vectors and operators (http://www.r-exercises.com/2015/11/25/logical-vectors-and-operators/)
4. Missing Values (http://www.r-exercises.com/2015/12/14/missing-values/)
5. Character vector exercises (http://www.r-exercises.com/2015/12/18/character-vector-exercises/)
6. Index vectors (http://www.r-exercises.com/2015/12/21/index-vectors/)

Object modes and attributes (http://www.r-exercises.com/tag/object-modes-and-attributes/)

1. Mode exercises (http://www.r-exercises.com/2016/02/14/mode-exercises/)
2. Practical used of R objects: Some examples (http://www.r-exercises.com/2016/02/16/practical-uses-of-r-object-modes-some-examples/)

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Factors (http://www.r-exercises.com/tag/factors/)

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1. Factor Exercises (http://www.r-exercises.com/2015/12/28/factor-exercises/)
2. Using factors like a pro (http://www.r-exercises.com/tag/factor) [Part 1 (https://www.r-exercises.com/2017/10/25/using-factor-variables-like-a-pro-part-1/)] [Part 2 (https://www.r-exercises.com/2017/11/08/using-factor-variables-like-a-pro-part-2/)]

Arrays and Matrices (http://www.r-exercises.com/tag/arrays-and-matrices/)

1. Matrix exercises [vol. 1 (http://www.r-exercises.com/2015/11/28/matrix-exercises/)] [vol. 2 (http://www.r-exercises.com/2016/12/08/matrix-vol-2-exercises/)] [BONUS (https://www.r-exercises.com/2017/09/07/bonus-data-frame-exercises/)]
2. Array exercises (http://www.r-exercises.com/2015/12/01/array-exercises/)
3. Bind exercises (http://www.r-exercises.com/2016/02/22/bind-exercises/)
4. Matrix operations (http://www.r-exercises.com/2016/08/22/matrix-operations/)

Lists and dataframes (http://www.r-exercises.com/tag/lists-and-dataframes/)

1. List Exercises (http://www.r-exercises.com/tag/list) [vol. 1 (http://www.r-exercises.com/2015/12/31/list-exercises/)] [vol. 2 (http://www.r-exercises.com/2016/12/27/list-exercises-vol-2/)]
2. Data Frames (http://www.r-exercises.com/tag/dataframes) [vol. 1 (http://www.r-exercises.com/2016/01/04/data-frame-exercises/)] [vol. 2 (http://www.r-exercises.com/2016/11/28/data-frame-exercises-vol-2/)] [BONUS (https://www.r-exercises.com/2017/09/07/bonus-data-frame-exercises/)]
3. Merging Dataframes Exercises (http://www.r-exercises.com/2016/04/14/merging-dataframes-exercises/)
4. Accessing Dataframe Objects Exercises (http://www.r-exercises.com/2016/05/20/accessing-dataframe-objects-exercises/)
5. Apply functions to lists (http://www.r-exercises.com/2016/09/19/applying-functions-to-lists/)

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Data Structures (http://www.r-exercises.com/tag/data-structure)

1. Data Structures (http://www.r-exercises.com/2017/03/15/data-structures-exercises/)
2. Data Structures [part 1 (http://www.r-exercises.com/2017/04/07/r-data-structures-exercises-part-1/)]

Importing data (http://www.r-exercises.com/tag/data-import/)

1. Reading delimited data (http://www.r-exercises.com/2016/01/07/reading-delimited-data/)
2. Scan exercises (http://www.r-exercises.com/2016/01/11/scan-exercises/)
3. R-SQL (http://www.r-exercises.com/2016/12/07/r-sql-exercises/)
4. Web scraping (http://www.r-exercises.com/2016/12/20/web-scraping-exercises/)

Character strings (http://www.r-exercises.com/tag/character-strings/)

1. Regular expressions part 1 (http://www.r-exercises.com/2016/10/30/regular-expressions-part-1/)
2. String manipulation (http://www.r-exercises.com/2016/11/27/string-manipulation-exercises/)
3. [BONUS] Working with tm package and wordclouds (http://www.r-exercises.com/bonus-exercises/) *
4. [BONUS] Character Functions (http://www.r-exercises.com/2017/01/23/character-functions/) *
5. [BONUS] Character Functions (intermediate) (http://www.r-exercises.com/2017/04/19/character-functions-intermediate/) *
6. Character Functions (advanced) (http://www.r-exercises.com/2017/05/18/character-functions-advanced/)
7. [BONUS] Introduction to Text Mining (http://www.r-exercises.com/2017/05/08/introduction-to-text-mining-exercises/) *

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Tables (http://www.r-exercises.com/tag/tables/)

1. data exploration with table (http://www.r-exercises.com/2016/04/20/data-exploration-with-tables-exercises/)
2. Complex tables (http://www.r-exercises.com/2016/04/26/complex-tables-exercises/)
3. Cross Tabulation with Xtabs (http://www.r-exercises.com/2016/05/12/cross-tabulation-with-xtabs-exercises/)

Data manipulation (http://www.r-exercises.com/tag/data-manipulation/)

1. Get-your-stuff-in-order-exercises (http://www.r-exercises.com/2016/03/01/get-your-stuff-in-order-exercises/)
2. Basic operations (http://www.r-exercises.com/2016/10/23/basic-operations/)
3. Summary statistics with aggregate() (http://www.r-exercises.com/2016/06/16/summary-statistics-with-aggregate/)
4. Data Shape Transformation With Reshape() (http://www.r-exercises.com/2016/07/06/data-shape-transformation-with-reshape/)
5. Interactive Subsetting exercises (http://www.r-exercises.com/2016/07/29/interactive-subsetting-exercises/)
6. Reshape 2 exercises (http://www.r-exercises.com/2016/08/26/reshape-2-exercises/)
7. Efficient data processing with apply (http://www.r-exercises.com/2016/09/08/efficient-processing-with-apply-exercises/)
8. Optimize data processing with sapply (http://www.r-exercises.com/2016/10/14/optimize-data-exploration-with-sapply-exercises/)
9. Sampling exercise [part 1 (http://www.r-exercises.com/2016/11/13/sampling-exercise-1/)]
10. Select and query (http://www.r-exercises.com/2016/12/06/select-and-query-exercise/)
11. Let's get started with dplyr (http://www.r-exercises.com/2017/01/12/lets-get-started-with-dplyr/)
12. Multivariate apply (http://www.r-exercises.com/2017/01/17/multivariate-apply-exercises/)
13. Data table exercises: keys and subsetting (http://www.r-exercises.com/2016/03/21/data-table-exercises-keys-and-subsetting/)
14. [BONUS] Tidy the data up! (http://www.r-exercises.com/2017/01/09/tidy-the-data-up/) *
15. Data Hacking with RDSTK (http://www.r-exercises.com/tag/rdstk/) [part 1 (http://www.r-exercises.com/2017/01/31/rdstk1/)] [part 2 (http://www.r-exercises.com/2017/02/11/rdstk2/)] [part 3 (http://www.r-exercises.com/2017/02/16/data-hacking-with-rdstk-3/)]

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(http://www.r-exercises.com/2017/02/11/rdstk2/)] [part 3 (http://www.r-exercises.com/2017/02/16/data-hacking-with-rdstk-3/)]

16. Data Wrangling (http://www.r-exercises.com/tag/data-wrangling/) [part 1 (http://www.r-exercises.com/2017/05/24/data-wrangling-part-1-io/)] [part 2 (http://www.r-exercises.com/2017/06/07/data-wrangling-io-part-2/)] [part 3 (http://www.r-exercises.com/2017/06/22/data-wrangling-reshaping/)] [part 4 (http://www.r-exercises.com/2017/07/05/data-wrangling-transforming-13/)] [part 5 (http://www.r-exercises.com/2017/07/19/data-wrangling-transforming-23/)] [part 6 (http://r-exercises.com/2017/08/02/data-wrangling-transforming-33)] [part 7 (http://www.r-exercises.com/2017/08/16/data-wrangling-cleansing-regular-expressions-13/)] [part 8 (http://www.r-exercises.com/2017/08/30/data-wrangling-cleansing-regular-expressions-23/)] [part 9 (http://www.r-exercises.com/2017/09/13/data-wrangling-cleansing-regular-expressions-33/)] [part 10 (https://www.r-exercises.com/2017/09/27/data-wrangling-cleansing-date/)]

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Reproducible reporting

1. R Markdown [Tutorial (http://www.r-exercises.com/2017/07/21/how-to-create-reports-with-r-markdown-in-rstudio/)] [part 1 (http://www.r-exercises.com/2017/07/29/r-markdown-exercises/)] [part 2 (http://www.r-exercises.com/2017/08/04/r-markdown-exercises-part-2/)]

Dates/times (http://www.r-exercises.com/tag/dates-and-times/)

1. As.Date() (http://www.r-exercises.com/2016/07/14/as-date-exercises/)

2. Lubridate (http://www.r-exercises.com/tag/lubridate/) [part 1 (http://www.r-exercises.com/2016/08/15/dates-and-times-simple-and-easy-with-lubridate-part-1/)] [part 2 (http://www.r-exercises.com/2016/08/29/dates-and-times-simple-and-easy-with-lubridate-exercises-part-2/)] [part 3 (http://www.r-exercises.com/2016/10/04/dates-and-times-simple-and-easy-with-lubridate-exercises-part-3/)]

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2. zoo time series exercises (http://www.r-exercises.com/2014/05/20/zoo-time-series-exercises/)

3. 200 time series exercises (http://www.r-exercises.com/2016/05/30/200-time-series-exercises/)

Probability distributions (http://www.r-exercises.com/tag/probability-distributions/)

1. Combinations exercises (http://www.r-exercises.com/2016/08/12/combinations-exercises/)
2. Lets Begin with something sample (http://www.r-exercises.com/2016/03/23/lets-begin-with-something-sample/)
3. Generating data (http://www.r-exercises.com/2016/11/17/generating-data-exercises/)

Loops and conditional execution (http://www.r-exercises.com/tag/loops-and-conditional-execution/)

1. Conditional execution exercises [vol. 1 (http://www.r-exercises.com/2016/01/26/conditional-execution-exercises/)] [vol. 2 (http://www.r-exercises.com/2016/11/22/if-else-sequences-exercises-vol-2/)]
2. Scripting Loops in R [vol. 1 (http://www.r-exercises.com/2016/06/01/scripting-loops-in-r/)] [vol. 2 (http://www.r-exercises.com/2016/06/01/scripting-loops-in-r/)]
3. [BONUS] Simplifying For loops (http://www.r-exercises.com/bonus-exercises/) *

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Functions (http://www.r-exercises.com/tag/functions/)

1. Functions exercises [vol. 1] (http://www.r-exercises.com/2016/02/07/functions-exercises/) [vol. 2 (http://www.r-exercises.com/2016/12/05/functions-exercises-vol-2/)]
2. Higher order functions (http://www.r-exercises.com/2016/08/05/higher-order-functions-exercises/)
3. User Defined Functions (http://www.r-exercises.com/2017/04/20/user-defined-functions-in-r-part-1/)

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3. User Defined Functions (http://www.r-exercises.com/2017/04/20/user-defined-functions-in-r-part-1/)
4. A Primer in Functional Programming in R [part 1 (http://www.r-exercises.com/2017/05/19/a-primer-in-functional-programming-in-r/)]

Data visualization (http://www.r-exercises.com/tag/data-visualization/)

1. Start plotting data! (http://www.r-exercises.com/2016/03/11/start-plotting-data-3/)
2. Customize a scatterplot exercises (http://www.r-exercises.com/2016/03/17/customize-scatterplot/)
3. Replicating plots: Boxplot (http://www.r-exercises.com/2016/09/26/replicating-plots-boxplot-exercises/)
4. Advanced base graphics (http://www.r-exercises.com/2016/09/23/advanced-base-graphics-exercises/)
5. Graphics parameters exercises (http://www.r-exercises.com/2016/03/24/graphics-parameters-exercises/)
6. 3D plotting exercises (http://www.r-exercises.com/2016/04/06/3d-plotting-exercises/)
7. Igraph Network analysis [part 1 (http://www.r-exercises.com/2016/09/15/network-analysis-part-1-exercises/)] [part 2 (http://www.r-exercises.com/2016/10/02/network-analysis-part-2-exercises/)] [part 3 (http://www.r-exercises.com/2016/10/20/network-analysis-part-3-exercises/)]
8. Shiny Apps (http://www.r-exercises.com/tag/shiny-apps/)[part 1 (http://www.r-exercises.com/2016/12/12/building-shiny-app-exercises-part-1/)] [part 2 (http://www.r-exercises.com/2016/12/18/building-shiny-app-exercises-part-2/)] [part 3 (http://www.r-exercises.com/2016/12/25/building-shiny-app-exercises-part-3/)] [part 4 (http://www.r-exercises.com/2017/01/01/building-shiny-app-exercises-part-4/)] [part 5 (http://www.r-exercises.com/2017/01/24/building-shiny-app-exercises-part-5/)] [part 6 (http://www.r-exercises.com/2017/02/07/building-shiny-app-exercises-part-6/)] [part 7 (http://www.r-exercises.com/2017/02/19/building-shiny-app-exercises-part-7/)] [part 8 (http://www.r-exercises.com/2017/03/24/building-shiny-app-exercises-part-8/)] [part 9 (http://www.r-exercises.com/2017/04/01/building-shiny-app-exercises-part-9/)] [part 10 (http://www.r-exercises.com/2017/04/11/building-shiny-app-exercises-part-10/)]
9. Shiny Apps Layout (http://www.r-exercises.com/tag/shiny-app-layout/) [part 1 (http://www.r-exercises.com/2017/04/19/shiny-application-layouts-exercises-part-1/)] [part 2 (http://www.r-exercises.com/2017/04/24/shiny-application-layout-exercises-part-2/)]

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application-layouts-exercises-part-1/)] [part 2 (http://www.r-exercises.com/2017/04/26/shiny-application-layout-exercises-part-2/)] [part 3 (http://www.r-exercises.com/2017/04/30/shiny-application-layouts-exercises-part-3/)] [part 4 (http://www.r-exercises.com/2017/05/06/shiny-application-layouts-exercises-part-4/)] [part 5 (http://www.r-exercises.com/2017/05/07/shiny-application-layouts-exercises-part-5/)] [part 6 (http://www.r-exercises.com/2017/05/09/shiny-applications-layouts-exercises-part-6/)] [part 7 (http://www.r-exercises.com/2017/05/12/shiny-application-layouts-exercises-part-7/)] [part 8 (http://www.r-exercises.com/2017/05/13/shiny-application-layouts-exercises-part-8/)] [part 9 (http://www.r-exercises.com/2017/05/20/shiny-applications-layouts-exercises-part-9/)] [part 10 (http://www.r-exercises.com/2017/05/25/shiny-application-layouts-exercises-part-10/)]

10. GoogleVis (http://www.r-exercises.com/tag/googlevis/) [part 1 (http://www.r-exercises.com/2017/06/04/data-visualization-with-googlevis-exercises-part-1/)] [part 2 (http://www.r-exercises.com/2017/06/11/data-visualization-with-googlevis-exercises-part-2/)] [part 3 (http://www.r-exercises.com/2017/06/20/data-visualization-with-googlevis-exercises-part-3/)] [part 4 (http://www.r-exercises.com/2017/06/25/data-visualization-with-googlevis-exercises-part-4/)] [part 5 (http://www.r-exercises.com/2017/06/30/data-visualization-with-googlevis-exercises-part-5/)] [part 6 (http://www.r-exercises.com/2017/07/11/data-visualization-with-googlevis-exercises-part-6/)] [part 7 (http://www.r-exercises.com/2017/07/16/data-visualization-with-googlevis-exercises-part-7/)] [part 8 (http://www.r-exercises.com/2017/07/23/data-visualization-with-googlevis-exercises-part-8/)] [part 9 (http://www.r-exercises.com/2017/07/30/data-visualization-with-googlevis-exercises-part-9/)][part 10 (http://www.r-exercises.com/2017/08/06/data-visualization-with-googlevis-exercises-part-10/)]
11. GGvis (http://www.r-exercises.com/tag/ggvis) [tutorial (http://www.r-exercises.com/2017/08/10/how-to-create-interactive-visualizations-with-ggvis/)] [Part 1 (http://www.r-exercises.com/2017/08/12/ggvis-exercises-part-1/)] [Part 2 (http://www.r-exercises.com/2017/08/18/ggvis-exercises-part-2/)]
12. [BONUS] Shiny html tags (http://www.r-exercises.com/2017/05/16/bonus-shiny-html-tags-exercises/)
13. Shapefiles (http://www.r-exercises.com/2017/01/03/working-with-shapefiles-in-r-exercises/)
14. Getting started with Plotly: basic plots (http://www.r-exercises.com/2017/01/10/getting-started-with-plotly-basic-plots/)
15. Plotly: advanced plots and features (http://www.r-exercises.com/2017/01/19/plotly-advanced-plots-and-features/)
16. Lattice graphs [part 1 (http://www.r-exercises.com/2016/04/30/lattice-exercises-part-1/)] [part 2 (http://www.r-exercises.com/2016/05/24/lattice-exercises-part-2/)]

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17. [BONUS] Rebuilding a Figure (http://www.r-exercises.com/bonus-exercises/) *
18. Multi-panel Graphics (http://www.r-exercises.com/2017/02/02/multipanel-graphics-in-r-part-1/)
19. Spatial Analysis with ggmap (http://www.r-exercises.com/2017/03/09/spatial-analysis-with-ggmap-exercises-part-1/)

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1. Independent t-test (http://www.r-exercises.com/2016/09/13/independent-t-test-in-r/)
2. Paired t-test (http://www.r-exercises.com/2016/09/21/paired-t-test-in-r/)
3. Nonparametric tests (http://www.r-exercises.com/2016/11/20/nonparametric-tests/)
4. Frequency and chi-square test for independence (http://www.r-exercises.com/2016/11/30/frequency-and-chi-square-test-for-independance/)

Experimental Design and Analysis

1. One way ANOVA in R (http://www.r-exercises.com/2016/09/13/independent-t-test-in-r/)
2. Two way ANOVA in R (http://www.r-exercises.com/2016/10/17/two-way-anova-in-r-exercises/)
3. Repeated measures ANOVA in R (http://www.r-exercises.com/2016/09/13/independent-t-test-in-r/)
4. One Way MANOVA (http://www.r-exercises.com/2017/03/17/one-way-manova-exercises/)
5. Experimental Design (http://www.r-exercises.com/2017/04/23/experimental-design-exercises/)

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Statistics (http://www.r-exercises.com/tag/statistics/)

1. Examining data (http://www.r-exercises.com/2016/09/06/examining-data/)
2. [BONUS] Working with and visualizing a confidence interval (http://www.r-exercises.com/bonus-exercises/) *
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