



1 Intro to basics

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Take your first steps with R. In this chapter, you will learn how to use the console as a calculator and how to assign variables. You will also get to know the basic data types in R. Let's get started.

 How it works	✓ 100 xp
 Arithmetic with R	✓ 100 xp
 Variable assignment	✓ 100 xp
 Variable assignment (2)	✓ 100 xp
 Variable assignment (3)	✓ 100 xp
 Apples and oranges	✓ 100 xp
 Basic data types in R	✓ 100 xp
 What's that data type?	✓ 100 xp



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✓ Completed

2 Vectors

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We take you on a trip to Vegas, where you will learn how to analyze your gambling results using vectors in R. After completing this chapter, you will be able to create vectors in R, name them, select elements from them, and compare different vectors.

- | | |
|--|----------|
|  Create a vector | ✓ 100 xp |
|  Create a vector (2) | ✓ 100 xp |
|  Create a vector (3) | ✓ 100 xp |
|  Naming a vector | ✓ 100 xp |
|  Naming a vector (2) | ✓ 100 xp |
|  Calculating total winnings | ✓ 100 xp |
|  Calculating total winnings (2) | ✓ 100 xp |
|  Calculating total winnings (3) | ✓ 100 xp |
|  Comparing total winnings | ✓ 100 xp |
|  Vector selection: the good times | ✓ 100 xp |
|  Vector selection: the good times (2) | ✓ 100 xp |

3 Matrices



















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In this chapter, you will learn how to work with matrices in R. By the end of the chapter, you will be able to create matrices and understand how to do basic computations with them. You will analyze the box office numbers of the Star Wars movies and learn how to use matrices in R. May the force be with you!


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|--|----------|
|  What's a matrix? | ✓ 100 xp |
|  Analyze matrices, you shall | ✓ 100 xp |
|  Naming a matrix | ✓ 100 xp |
|  Calculating the worldwide box office | ✓ 100 xp |
|  Adding a column for the Worldwide box office | ✓ 100 xp |
|  Adding a row | ✓ 100 xp |
|  The total box office revenue for the entire saga | ✓ 100 xp |
|  Selection of matrix elements | ✓ 100 xp |
|  A little arithmetic with matrices | ✓ 100 xp |
|  A little arithmetic with matrices (2) | ✓ 100 xp |
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4 Factors100% 

Data often falls into a limited number of categories. For example, human hair color can be categorized as black, brown, blond, red, grey, or white—and perhaps a few more options for people who color their hair. In R, categorical data is stored in factors. Factors are very important in data analysis, so start learning how to create, subset, and compare them now.

-  What's a factor and why would you use it?  100 xp
-  What's a factor and why would you use it? (2)  100 xp
-  What's a factor and why would you use it? (3)  100 xp
-  Factor levels  100 xp
-  Summarizing a factor  100 xp
-  Battle of the sexes  100 xp
-  Ordered factors  100 xp
-  Ordered factors (2)  100 xp
-  Comparing ordered factors  100 xp












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5 Data frames









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Most datasets you will be working with will be stored as data frames. By the end of this chapter, you will be able to create a data frame, select interesting parts of a data frame, and order a data frame according to certain variables.

-  What's a data frame? ✓ 100 xp
-  Quick, have a look at your dataset ✓ 100 xp
-  Have a look at the structure ✓ 100 xp
-  Creating a data frame ✓ 100 xp
-  Creating a data frame (2) ✓ 100 xp
-  Selection of data frame elements ✓ 100 xp
-  Selection of data frame elements (2) ✓ 100 xp
-  Only planets with rings ✓ 100 xp
-  Only planets with rings (2) ✓ 100 xp
-  Only planets with rings but shorter ✓ 100 xp
-  Sorting ✓ 100 xp

6 Lists100% 

As opposed to vectors, lists can hold components of different types, just as your to-do lists can contain different categories of tasks. This chapter will teach you how to create, name, and subset these lists.

-  Lists, why would you need them?  100 xp
-  Lists, why would you need them? (2)  100 xp
-  Creating a list  100 xp
-  Creating a named list  100 xp
-  Creating a named list (2)  100 xp
-  Selecting elements from a list  100 xp
-  Creating a new list for another movie  100 xp

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 **Completed**