Data Science: R Basics

**Welcome to Data Science: R Basics!**

This is the **first** course in HarvardX's multi-part [Data Science Professional Certificate](https://www.edx.org/professional-certificate/harvardx-data-science) series.

**Course textbook**

There is a free textbook available for this course series. You can get a [PDF version of the textbook](https://leanpub.com/datasciencebook) on Leanpub or follow links within the course to the [HTML version of the textbook](https://rafalab.github.io/dsbook/). The textbook is also [available in Spanish](https://leanpub.com/dslibro) from Leanpub as well. You can also download the [R markdown files for the textbook](https://github.com/rafalab/dsbook) to run on your own machine at Professor Irizarry's GitHub repository.

**Getting help**

Are you new to edX? Check out edx's [Demo Course](https://www.edx.org/course/demox-edx-demox-1-0)!

Need platform-related help? Visit edX Support via the Support tab or [visit the Help Center](https://support.edx.org/hc/en-us).

Need content- or course-related help? Check out the course discussion forum first. If needed, you can also reach out on Twitter to Prof. Irizarry [@rafalab](https://twitter.com/rafalab) or to the course team [@HXDataScience](https://twitter.com/HXDataScience).

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Thank you for taking the R Basics course!

- The PH125x Course Team

Introduction and Welcome, Completed section

 [Introduction and Welcome](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@333c0c7461e5451f893c832d3a529463), Completed

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[0.1 Important Pre-Course Survey](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@feaab93d03f344a1b6daf09d58190d39), Completed

 Section 1: R Basics, Functions, and Data Types, Completed section

 [Section 1 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@ade4df56a4c846b9a83a08142a3cee27), Completed

  [1.1 Motivation and Getting Started](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@9f677d4dd55d4d729d4b8163598146eb), Completed

  [1.2 R Basics (3 Questions)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@eccbe534c3a44d9c873add1229d7863a), Completed

Assessment due Mar 23, 2024, 10:31 AM GMT+2

  [1.3 Data Types](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@5ba06674d0be41b99185b947e09e889b), Completed

Assessment due Mar 23, 2024, 10:31 AM GMT+2

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[Section 1 Assessment (7 Questions)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@20ea1ac5c78840b9abdde877ff2b1196), Completed

Assessment due Mar 23, 2024, 10:31 AM GMT+2

 Section 2: Vectors, Sorting, Completed section

 [Section 2 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@d7e0ffb9bac442159a3bd27e317a67a2), Completed

  [2.1 Vectors (1 Question)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@25784d8d534443cdacc07cb670376dff), Completed

Assessment due Apr 3, 2024, 4:19 PM GMT+3

  [2.2 Sorting](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@ca59fd4193f943f7b6c653a3b3bda450), Completed

Assessment due Apr 3, 2024, 4:19 PM GMT+3

  [2.3 Vector Arithmetic (1 Question)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@63b7518d4edc47518dbe29c1e5db8822), Completed

Assessment due Apr 3, 2024, 4:19 PM GMT+3

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[Section 2 Assessment (3 Questions)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@81b62320bead4976b3fbae2cca4413e9), Completed

Assessment due Apr 3, 2024, 4:19 PM GMT+3

 Section 3: Indexing, Data Wrangling, Plots, Incomplete section

 [Section 3 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@e0c20de8460f415f8020340a90284597), Completed

  [3.1 Indexing (2 Questions)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@8028545a22f34fd5b83aa5b16d2a02ce), Completed

Assessment due Apr 14, 2024, 9:07 PM GMT+3

  [3.2 Basic Data Wrangling](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@8965ae6e5f6748c480a72e5389680cbd), Incomplete

Assessment due Apr 14, 2024, 9:07 PM GMT+3

  [3.3 Basic Plots](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@21a56d47549740af97c3ef1ee0f868a6), Completed

Assessment due Apr 14, 2024, 9:07 PM GMT+3

  [3.4 Summarizing with dplyr](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@85f2054a92c046d0babd6c42cdf0b351), Completed

Assessment due Apr 14, 2024, 9:07 PM GMT+3

  [3.5 data.table](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@e5ec7dab86b74dfea75db7b70d8ba674), Completed

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[Section 3 Assessment (16 Questions)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@c15582a235e74d1fa7d8d6e51b2cf643), Completed

Assessment due Apr 14, 2024, 9:07 PM GMT+3

 Section 4: Programming Basics, Incomplete section

 [Section 4 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@bd2635e6b3eb44869432d655d3676357), Completed

  [4.1 Programming Basics: Conditionals and Functions (2 Questions)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@b82180efcf0c4778b5431cab846a8996), Completed

Assessment due Apr 26, 2024, 1:55 AM GMT+3

  [4.2 For Loops (1 Question)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@f98acb1531854811b4c13907e7e55980), Completed

Assessment due Apr 26, 2024, 1:55 AM GMT+3

  [Section 4 Assessment (Verified Learners Only)](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@9f678b2fd30d414bbac6d23016dd9238), Incomplete

Assessment due Apr 26, 2024, 1:55 AM GMT+3

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   1. [End of Course](https://learning.edx.org/course/course-v1:HarvardX+PH125.1x+3T2023/block-v1:HarvardX+PH125.1x+3T2023+type@sequential+block@d75aa5e5d0e046f598e71e661f9e7da4), Completed