Data Science: Visualization

**Welcome to Data Science: Visualization!**

This is the **second** 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 Visualization course!

- The PH125x Course Team

Introduction and Welcome, Completed section

 [Introduction and Welcome](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@86414e253d6d4b74a471bf946fad21d0), Completed

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[0.1 Important Pre-Course Survey](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@27f3abd8288744d19c06b40f61c65bd3), Completed

 Section 1: Introduction to Data Visualization and Distributions, Completed section

 [Section 1 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@a38ce5cbd13a4148bc5ba27fc3ece379), Completed

  [1.1 Introduction to Data Visualization](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@9306b82cbe134113b8d5e6d18370439b), Completed

Assessment due Mar 25, 2024, 9:32 AM GMT+2

  [1.2 Introduction to Distributions](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@558d8d460f814d93b7d5bc1c243aef20), Completed

Assessment due Mar 25, 2024, 9:32 AM GMT+2

  [1.3 Quantiles, Percentiles, and Boxplots](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@890e07a938ed438fb28b48e9a27f6945), Completed

Assessment due Mar 25, 2024, 9:32 AM GMT+2

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[1.4 Exploratory Data Analysis](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@85f4d23953404a86a950fc387a4ba0ad), Completed

Assessment due Mar 25, 2024, 9:32 AM GMT+2

 Section 2: Introduction to ggplot2, Completed section

 [Section 2 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@9290d0e2c2a84a288aba188f3a416ba3), Completed

  [2.1 Basics of ggplot2](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@427064bc28b6493d8bc2b1fbc54a3422), Completed

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[2.2 Customizing Plots](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@c798c1b56fbd4d0faff9e7999b369bdf), Completed

Assessment due Apr 3, 2024, 6:32 PM GMT+3

 Section 3: Gapminder, Completed section

 [Section 3 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@8db7267661724db3a4855afb2617cc60), Completed

  [3.1 Introduction to Gapminder](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@51b33a53fbb6471e9044703e2822174b), Completed

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[3.2 Using the Gapminder Dataset](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@3819628071154d43a3afe30737f57300), Completed

Assessment due Apr 13, 2024, 2:32 AM GMT+3

 Section 4: Data Visualization Principles, Completed section

 [Section 4 Overview](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@b62b3896d483463eaa36c0f06356429a), Completed

  [4.1 Data Visualization Principles, Part 1](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@5fc60356c9b7449dbeedf3d53dd028c7), Completed

Assessment due Apr 22, 2024, 10:32 AM GMT+3

  [4.2 Data Visualization Principles, Part 2](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@d97874ca1e4d41638c7163f2f258ae0f), Completed

Assessment due Apr 22, 2024, 10:32 AM GMT+3

  [4.3 Data Visualization Principles, Part 3](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@8608d7d8787644c686125fc564c75e2d), Completed

Assessment due Apr 22, 2024, 10:32 AM GMT+3

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[Assessment: Titanic Survival (8 Questions)](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@01d83893c6e74ec488df68bb4bda25f5), Completed

Assessment due Apr 22, 2024, 10:32 AM GMT+3

 Comprehensive Assessment and End of Course Survey, Incomplete section

 [Assessment Part 1: Properties of Stars](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@4281e8e0323c4afbb824e7236f6c762a), Incomplete

Comprehensive Assessment due May 1, 2024, 6:32 PM GMT+3

  [Assessment Part 2: Climate Change](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@caa64af0cf6845da802adabad26d83b0), Incomplete

Comprehensive Assessment due May 1, 2024, 6:32 PM GMT+3

 [End of Course Survey](https://learning.edx.org/course/course-v1:HarvardX+PH125.2x+3T2023/block-v1:HarvardX+PH125.2x+3T2023+type@sequential+block@de613bcb473c4bc89bfb05fc636bcf07), Completed