TC011a: Introduction to Excel for Data Visualization

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$45.00

Measuring and communicating the impact of a project or program often relies on effective data analysis and visualization. In this course, you will learn how to effectively use Excel to create beautiful static and interactive visualizations.

Course Description

Excel offers an interface most people are familiar with, as well as a valuable set of features that can be utilized to meet a wide range of data analysis and visualization needs. In this course you will learn the nuts and bolts of how to use Excel functions and features including: INDEX MATCH, PivotTables, Slicers, and more. In addition, you will learn key data visualization principles that will help you optimize your data visualizations to best communicate your data.

After exploring some case studies of how other organizations have used Excel to visualize data, you will get the opportunity to practice what you have learned through 2 scenario-based exercises.

Please note that alumni, early bird, and quick pay discounts do not apply for this course.

Course Objectives

- Basic data cleaning using Excel functions and formatting techniques, including column and table formatting, basic macros, and conditional formatting
- How to create a static report data using Excel functions and features, including INDEX MATCH, VLOOKUP, COUNTIF, sparklines, charts, and dot plots
- How to create an interactive dashboard using PivotTables, PivotCharts, and Slicers
- How to identify good vs. poor data visualizations using data visualization principles
- How Excel has been used in practice through 2 case studies

Course Methodology

This course will feature animations, screencasts, interactive presentations, case studies, and scenario-based exercises. A forum at the end of the course provides an opportunity for participants to interact and get feedback on course-related comments or questions.

Acknowledgements

TechChange would like to thank D3 Systems, Inc. and John Snow, Inc. for providing material for the case studies featured in this course.

Price

- **$45** for self-paced course
- **$0** with the purchase of the diploma track

Group discount rates available. For more details, please contact us at social [at] techchange.org. If you are not happy with your course experience for any reason, TechChange is happy to discuss refunds.

This course is a part of our Technology for Monitoring and Evaluation diploma program. Interested in learning about more courses? Browse through our diploma catalog here, or check out our main catalog and FAQ section!

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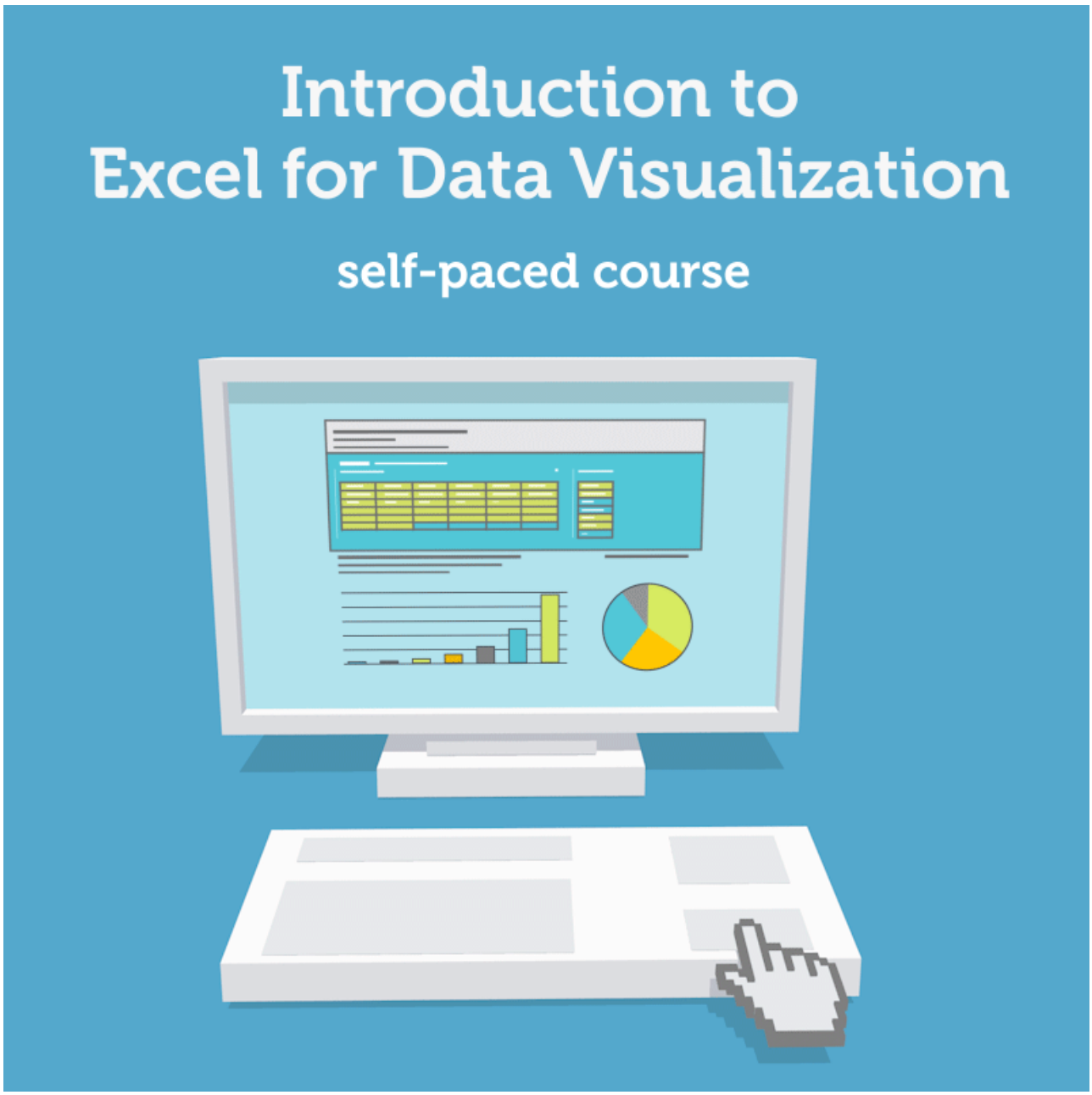


Platform Screenshots

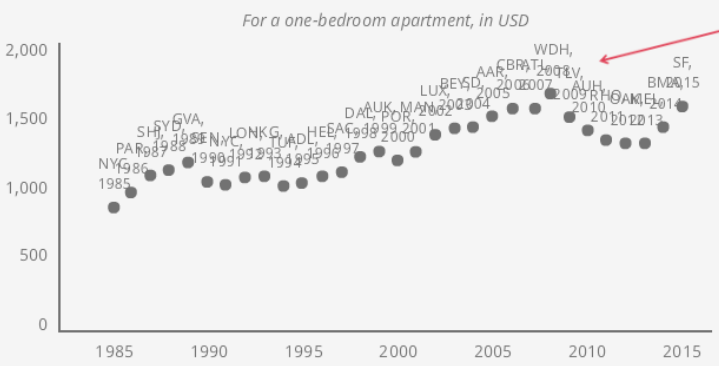
Data Visualization Princples

TRANSCRIPT

1 | Show the data

City with the Highest Average Rent, 1985-2015*

For a one-bedroom apartment, in USD



Data is hard to read
Purpose is not obvious
Main insight is not evident

CLICK TO REVEAL REVISION

*Data has been fabricated for the purpose of explanation

*Read the full article here.

PREVIOUS

Excel Functions

Now that you have correctly chosen INDEX MATCH as an appropriate function to identify the school with the maximum ranking in graduation rate, fill in the function with the appropriate values. ***Drag and drop*** *the values onto the correct blank, based on the data set to the right. Definitions of each blank are provided below.*

=INDEX(A12:A123 , MATCH (B10 , B12: B123 , 0))

array *row_num* *lookup_value* *lookup_array* *[match_type]*

Well done! The ***lookup_array*** *refers to the column that contains the value you want Excel to lookup. In this case we want to lookup the graduation rates found in B12:B123.*

State-wide Elementary School Rankings

Static Report

Well done!

You have completed the INDEX MATCH function so that it will return the name of the school with the highest graduation rate. Click NEXT to continue on to the next challenge.

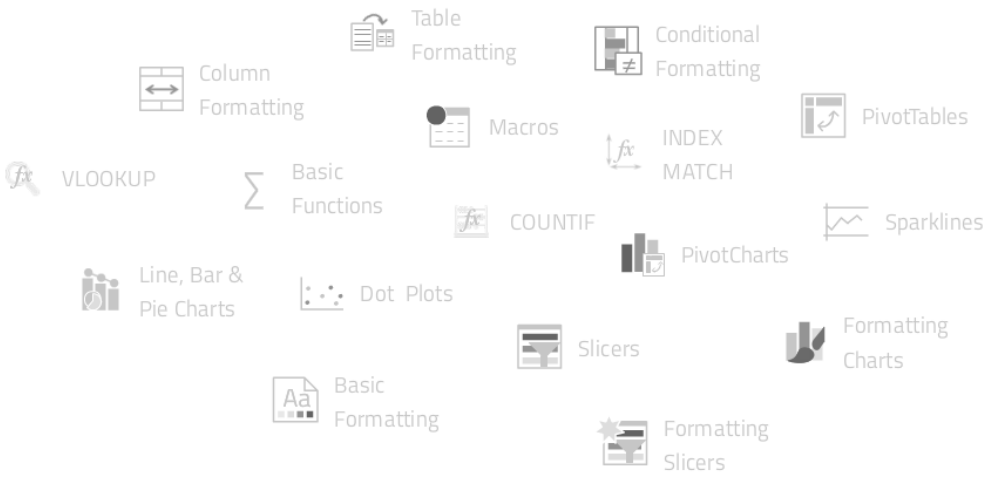
Harbor Bay Elementary	4	6	8
Lakeside Prep	7	6	5
Johnson Elementary	4	3	2
Fruitvale Charter School	9	7	10

PREVIOUS

NEXT

Data Visualization Princples

TRANSCRIPT

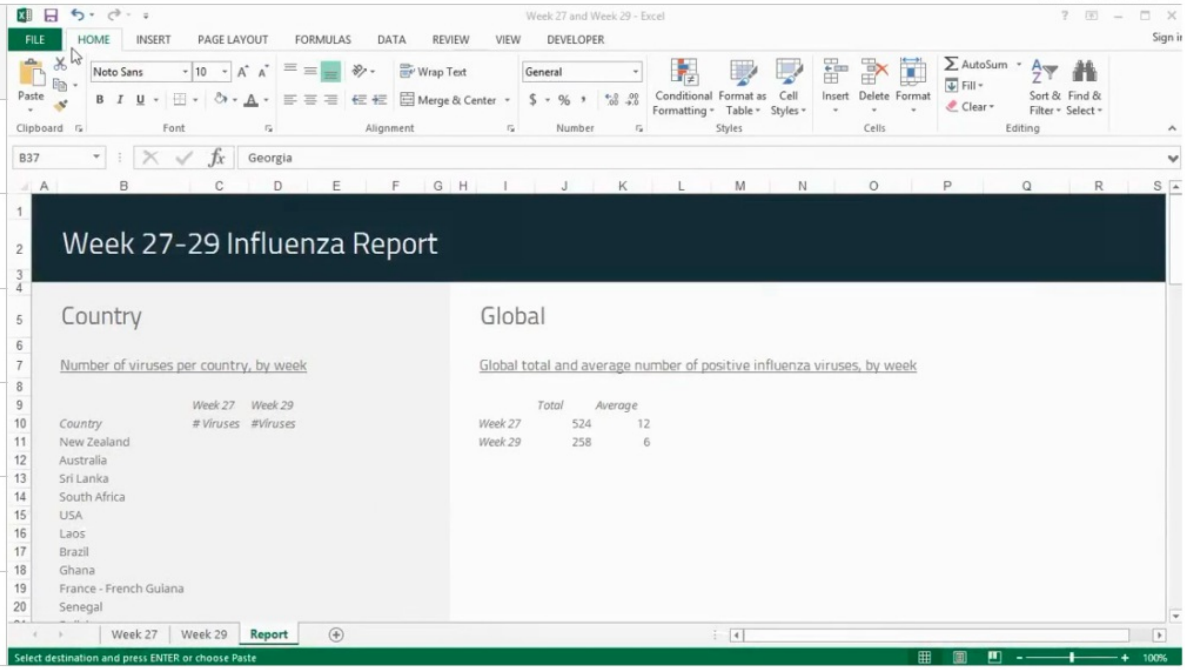


PREVIOUS

Creating a Static Report with Excel

TRANSCRIPT

INDEX MATCH



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