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Course outline

Overview

With the arrival of Excel's new calculation engine: dynamic arrays and beautifully spilled ranges, the grid awakens with new possibility. What was once static becomes fluid. What was manual becomes alive.

We are no longer confined to the native chart gallery. With intelligent design and clever workarounds, we can bend Excel to our will, crafting charts that respond, evolve, and interact.

This masterclass is an invitation to go beyond the defaults. To unlock the full expressive power of advanced charting techniques fused with dynamic spilled ranges. To build visualizations that don't just display data, but converse with it.

If you're ready to move from competent to masterful, from functional to elegant, this is where your next chapter in Excel begins.

Learning outcomes *By the end of the course each learner will learn:*

- ✓ How to **engineer fully dynamic charts** using Excel's new calculation engine
- ✓ How to **transform static charts** into interactive analytical tools
- ✓ How to **design scalable "backbone formulas"** that power advanced visuals
- ✓ How to **integrate Power Query with dynamic arrays** for clean, controlled inputs
- ✓ How to **enhance Excel's chart defaults** for executive-ready storytelling

Who is this course for?

This Masterclass is perfect for Excel power users, analysts, and finance professionals who want to turn static charts into dynamic, interactive visualizations powered by modern Excel. The typical roles that benefit from this course are:



Financial Analysts and FP&A professionals building recurring reports



Data analysts creating dashboards and performance visualizations



Business professionals who enjoy building interactive data visualizations



Excel power users ready to push beyond default charting

Course contents

Part 1: Introduction

- An introduction to the new calculation engine of Excel and its impact on charts.
- The complete up-to-date family of functions in Excel: dynamic arrays.
- The difference between static and interactive dynamic Excel charts.
- The importance of Excel Tables (Structure References, Power Query, Copilot)
- The dogmatic practice of enumerating your work.
- The relevance of knowing Power Query for dynamic Excel charts.
- The art of learning Logics (i.e. using SUBTOTAL function for filtering data).
- The elegance of the LET function (organization, legibility, debugging).
- The concept of "Backbone Formulas" to dynamic interactive Excel charts.
- The concept of "dummy series" (invented by Jon Peltier).
- The sacrosanct act of "Always Enhancing the Defaults in your Excel charts".

Part 2: The first possibility: filtering a chart

- What is a bar chart and what is overplotting in data visualization and how can it be solved.
- Power Query to get the unique items for the slicers.
- The FILTER function.
- The logic of SUBTOTAL function for filtering data (showing or hiding).
- Putting the FILTER function into action in making static charts: interactive.

Part 3: The second possibility: sorting a chart

- Proving interactive powers to a user by simply sorting a chart.
- The sorting functions: SORT and SORTBY.
- Enumerating the process and referencing the spilled arrays.
- Setting up the chart and enhancing the defaults.
- Putting the SORTBY function into action in making static charts: interactive.
- Stress testing the interaction, check and debug.

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Part 4: The interactive act of brushing with slicers

- What is a brushing in data visualization
- Power Query to get the unique items for the slicers.
- The best error you could get: the #N/A! error.
- Form controls for interactivity: showing or hiding arrays and details.
- Helper columns to visualize and understand the spilled array results.
- Enumerating the progress and keeping track to enumerate the arrays.
- Setting up the chart and enhancing the defaults.
- Stress testing the interaction, check and debug.

Part 5: Interactive storytelling with line charts

- Interactive Excel charts for storytelling historical and projected data.
- Comparing the interaction between form controls and slicers.
- The importance of reference lines in charts.
- Enumerating the progress and keeping track to enumerate the arrays.
- Setting up the chart and enhancing the defaults.
- Stress testing the interaction, check and debug.

Part 6: Closing and Q&A – what have we learned

- Resolving doubts, inquiries, questions.
- Impact of Excel's new calculation engine to the native chart gallery of Excel.
- The new possibilities of advanced interactive data graphics with Excel.



Training requirements

- To make the most out of this Masterclass, attendees will need to have some working experience with Excel's user interface
- Users will require a **Windows PC** running **Excel 2021**, or **Excel 365**
- Attendees should join with a curious mind to learn cool stuff

Why choose this course?

What's included

- ✓ 5 hours Masterclass with Carlos Barboza, Microsoft MVP
- ✓ 5 hours of CPD (Continuing Professional Development) hours / points
- ✓ All downloadable presentation and working files
- ✓ Masterclass recording
- ✓ Certificate of attendance
- ✓ Join from anywhere in the world



Carlos is crazy good, a magician.

Love his passion for sharing his knowledge. I had to laugh at some of the things he displayed as they were so good. Fabulous.

David Johnston, Business Intelligence Specialist at Prime Consulting UK



I absolutely enjoyed the class!

Carlos shared so many recourses related to the topic, that was wonderful. He makes the class entertaining as well. He explained all details very well, I would like to attend his Masterclass again. Thank you!

Katerina Milosovska, Business Manager at University of Melbourne,
Janet Clarke Hall

About your trainer



Carlos Barboza

Guerrilla Data Analyst,
Microsoft MVP



Carlos Barboza is a Microsoft MVP who simply considers himself a data analyst with more than 10 years of experience working with data cleaning it, modelling it, and then plotting it through graphical displays that support data-driven decision making.



He is both very crafty with Microsoft Excel and Power BI and is an independent data consultant who runs the vlog in English: spilledgraphics.com.

Course pricing

This course is available as a single Masterclass or as part of our Global Excel Summit [Premium Online ticket](#).

£196

Save 30%

Early bird price

ends 31 March 2026

£280

Regular price

1 April - 27 May 2026

-50%

Student discount

£714

Save additional 15%

Team of 3 discounts

up to

-40%

Bigger teams

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To pay by invoice, please contact Tea Kuseva at tea@globalexcelsummit.com. We will send you an invoice which you can submit to your accounts payable system."

Global Excel Summit



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