



Excel Data Types		
Stocks	Company	Price
	MICROSOFT CORPORATION (XNAS:MSFT)	\$ 314.56
	STARBUCKS CORPORATION (XNAS:SBUX)	\$ 187.23
	Novo Nordisk A/S (XCSE:NOVO B)	\$ 365.12
	Nestle Ltd. (XSWX:NESN)	\$ 289.45
Currencies	Currency Cross	Price
	USD/EUR	€ 0.92
	USD/CAD	\$ 1.36
	CAD/DKK	4.66
Geography	City	Population
	Seattle	721,000
	London	9,000,000
	Copenhagen	610,000



DATEL

With Jakob Nielsen,
Principal Designer at



Microsoft

Table of contents



Course outline	03
Who is this course for?	04
Course contents	05
Why choose this course?	07
About your trainer	08
Course pricing	09
Contact details	10

Course outline

Overview

Data Types are one of Excel's most powerful and least-used features.

In this Special Edition Masterclass you'll learn them from someone who helps build Excel itself. Jakob Nielsen, Principal Designer at Microsoft, shows you how to turn ordinary cells into live entities, replace fragile lookup tables for good, and bring structured, refreshable data into Excel with the reliability and consistency real work demands.

This hands-on 6-hour online Masterclass gives you a structured tour of the full Data Types landscape, from the built-in types you've seen but never fully used, to custom Data Types built in Power Query, to organisational data brought straight onto the grid. Along the way you'll sharpen the advanced formula craft that makes Data Types genuinely powerful, and get a look at how developers extend them through the Excel Data Types JavaScript API.

You'll leave able to design workbooks that are easier to build, maintain, share and trust, replacing fragile lookup chains and manual imports with live, refreshable entities that update themselves.

Learning outcomes

- ✓ What Excel Data Types are, how they differ from ordinary cell values, and how built-in types like Stocks, Currencies and Geography bring structured, refreshable information into Excel
- ✓ How to create your own custom Data Types with Power Query to organise records, fields and related information in a workbook
- ✓ How to bring organisational data (products, customers, assets) into Excel as shared, consistent, refreshable entities
- ✓ How to reference Data Type fields across formulas, tables, charts, conditional formatting and dynamic array workflows
- ✓ How modern formula design, including dynamic arrays, FILTER/SORT/UNIQUE, LET and LAMBDA, makes your models more reliable and responsive

Who is this course for?

This training is suitable for advanced Excel users, who build models, dashboards and reports that lean on reference data (products, customers, locations, assets, currencies, market information) and who are tired of maintaining that data by hand. Typical attendees include:



Finance Teams – FP&A and finance teams



Analytics Teams – Data and analytics professionals



Operations and supply-chain analysts



Excel trainers & consultants, whose questions have outgrown the documentation.

Course contents

Module 1: Introduction to Excel Data Types and built-in Data Types

- The core concept of Data Types and how they differ from ordinary cell values
- How a single cell can represent an entity with fields, relationships and refreshable information
- Exploring the built-in types: Stocks, Currencies and Geography
- Practical examples, including market information, exchange rates and location-based analysis

Module 2: Creating your own Data Types with Power Query

- Where custom Data Types fit in the Excel workflow
- Preparing structured source data for Data Type creation
- Building records with fields you can expand, reference and use in formulas
- How Power Query-based Data Types support cleaner workbook design and cut repeated lookup logic

Module 3: Unlock organisational data with the Data Types add-in by Make Digital Solutions

- Bringing organisational data into Excel as structured, refreshable Data Types
- Creating Data Types for common business entities (products, customers, assets, locations and other reference data)
- Working from consistent, shared definitions and trusted data sources across a team
- Using Data Types built from Power BI semantic models and cloud-stored Excel workbooks

Module 4: Advanced formulas with dynamic arrays, LAMBDA and LET

- Building responsive workbooks that spill results automatically instead of relying on copied formulas
- Applying FILTER, SORT, UNIQUE and related functions to clean, transform and analyse data with fewer helper columns
- Using LET to make formulas easier to read, maintain and troubleshoot
- Turning repeated formula patterns into reusable custom functions with LAMBDA
- How modern formula design reduces errors and keeps models reliable

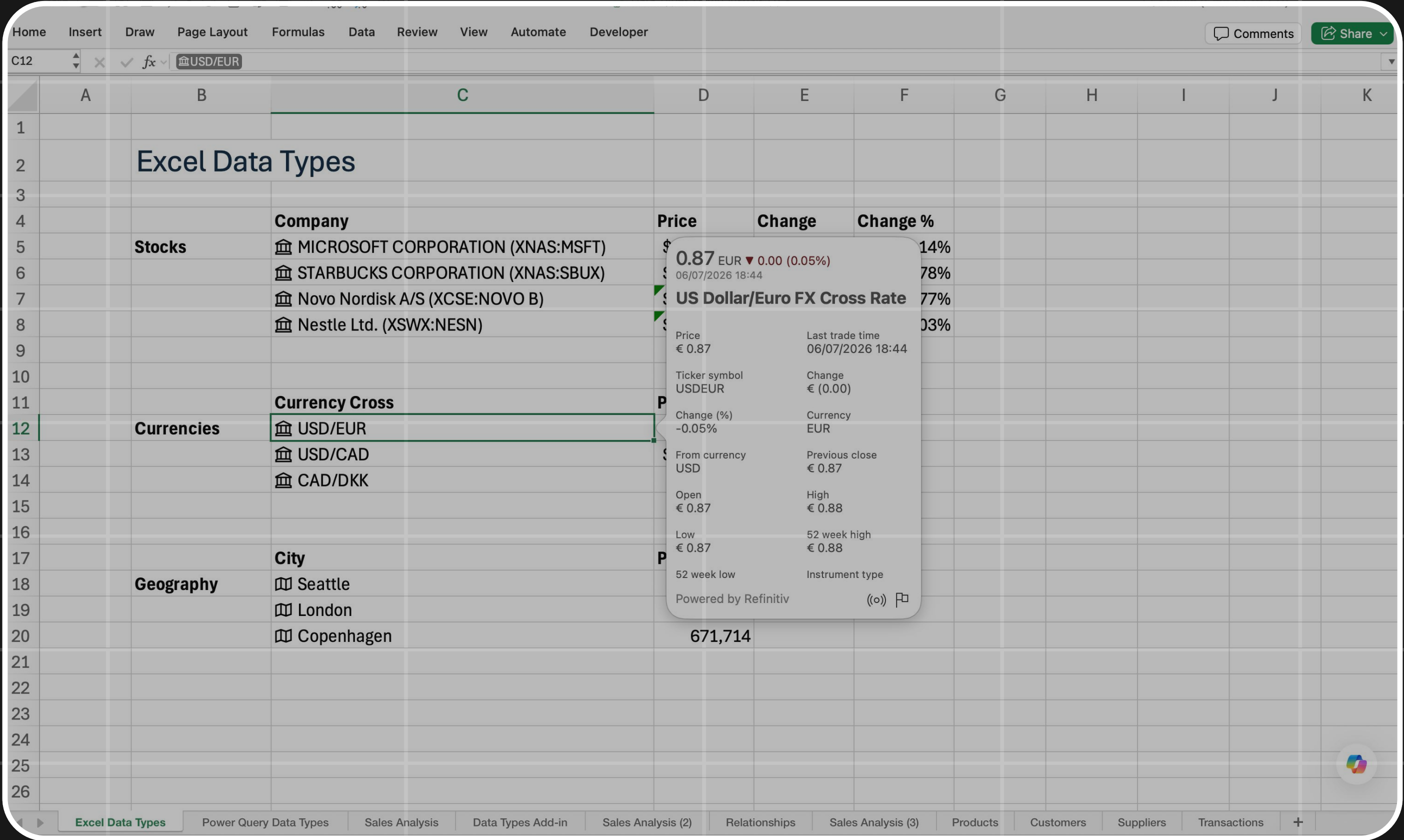
Module 5: Understanding the Excel Data Types JavaScript API

- What's possible with the Excel Data Types JavaScript API
- How the API represents entities, fields, card layouts and related values on the grid
- Using Script Lab to explore how entities are created directly in cells
- Simple, code-driven examples of generating structured Data Types
- A practical path from Script Lab experiments to a production-ready add-in

Why choose this course?

What's included

- ✓ 6 hours online training with Jakob Nielsen, Principal Designer at Microsoft
- ✓ All downloadable presentation and working files
- ✓ Certificate of attendance
- ✓ Access from anywhere, any time
- ✓ 100% money-back guarantee



About your trainer



Jakob Nielsen

Principal Designer
at Microsoft



Jakob is passionate about helping people become more productive and achieve better results with spreadsheets. He is the founder and CEO of Make Digital Solutions ApS and a Principal Designer in the Excel team at Microsoft.



Find more about Jakob Nielsen's work and connect with him:

- LinkedIn: <https://www.linkedin.com/in/jakobnielsen/>
- Website: <https://www.makedigitalsolutions.dk/>

Course pricing

£195

Early bird price
ends 31 Aug 2026

£299

Regular price
1 Sep - 11 Oct 2026

£585

Save additional 15%

Team of 3 discount

Pay by invoice

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.

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