



Agenda	DAX Overview
	Consider the Context
	DAX Learning Path
	Demo
	DAX Resources



I've had the privilege to teach DAX one on one, in smaller settings, and in training sessions... this is a common reaction...

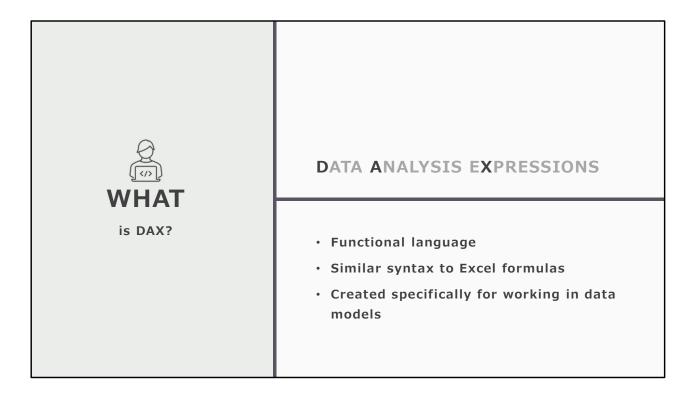
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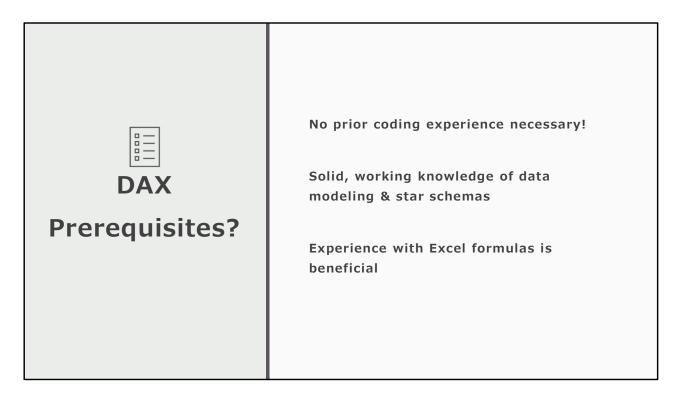


...or this



But this is what we're after. DAX isn't scarry. It can be challenging, but if you can write complex Excel formulas, you can learn DAX.





Understanding modelling is important. A good model opens up the full playbook of DAX functions. Writing DAX on flat tables can be difficult.

If you need to deepen your understanding, check out our presentation from last month (April 2024).

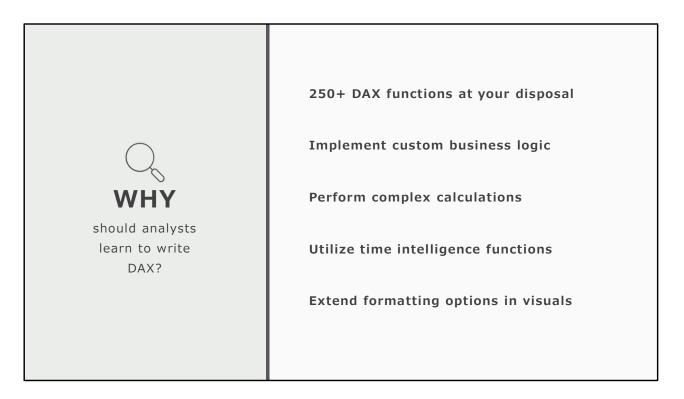


Everyone planning to do any data analysis in the Microsoft BI stack should have at least a working knowledge of DAX

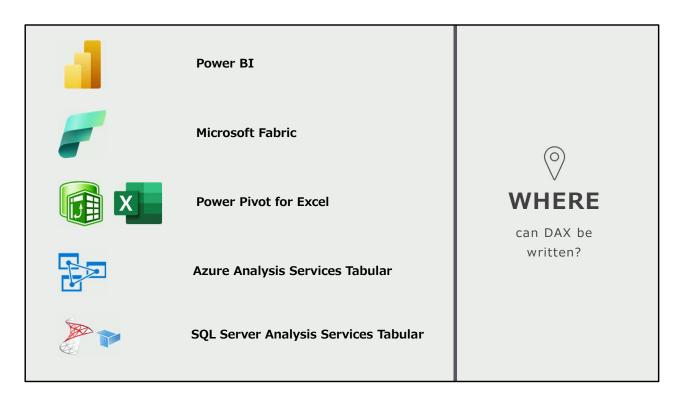
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Similar to writing formulas in Excel unlocks the full Power of the spreadsheet, writing DAX unlocks the full power of Power BI.



- More DAX functions are being added regularly
- Custom business logic and complex calculations are necessary beyond basic reporting
- Time intelligence is VERY powerful in DAX
- DAX also extends to the creative, visual parts of Power BI



DAX is written across all Microsoft BI tools. DAX can also be written in 3rd party external tools, such as Tabular Editor and DAX Studio.

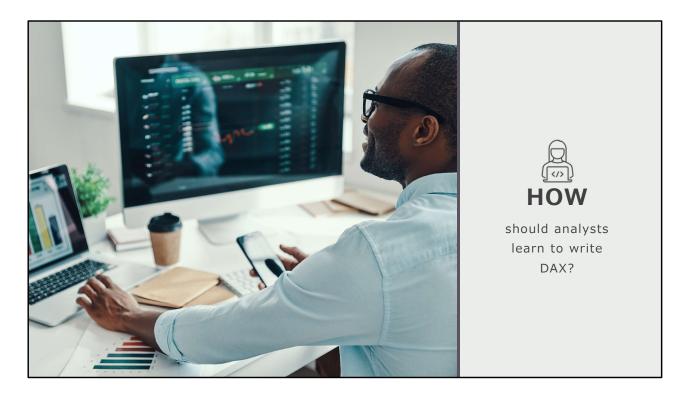


There are plenty of books, courses, or videos that will cater to any learning preference.

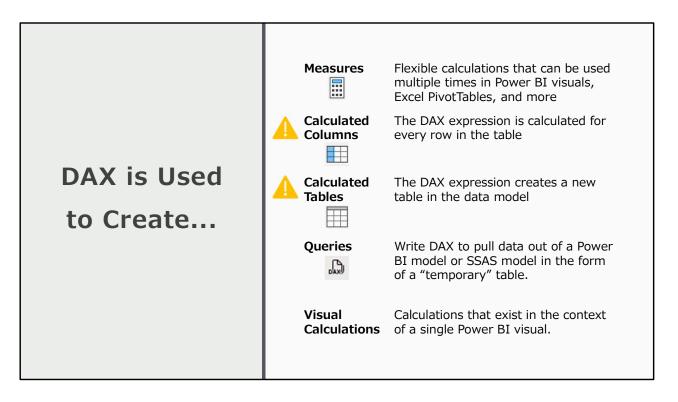
The best tip for learning DAX is to practice!



Then practice some more!



Work on a project with DAX to practice even more!

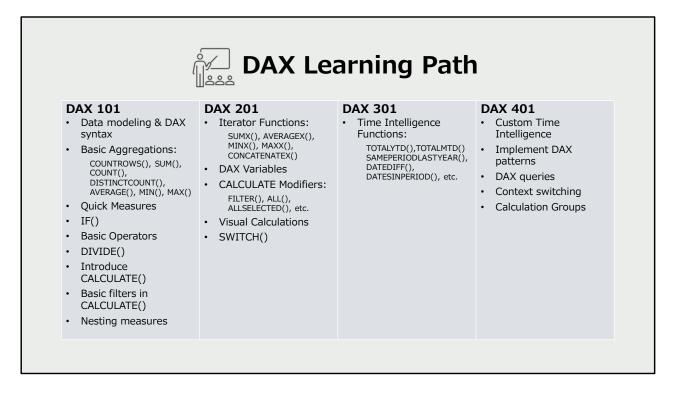


DAX functions can be used to create different objects with our data models and can also be used to query data from a model.

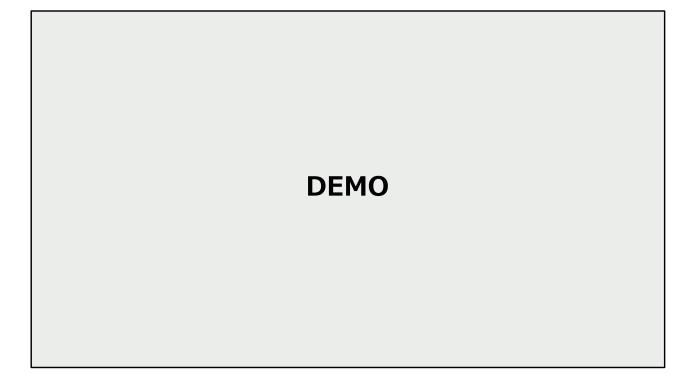
Proceed with caution when creating calculated tables or calculated columns! Only create these objects when necessary. These objects are only updated during a refresh and do not benefit from optimal data compression within the model. If possible, push the creation of these objects backward to the data source or Power Query.

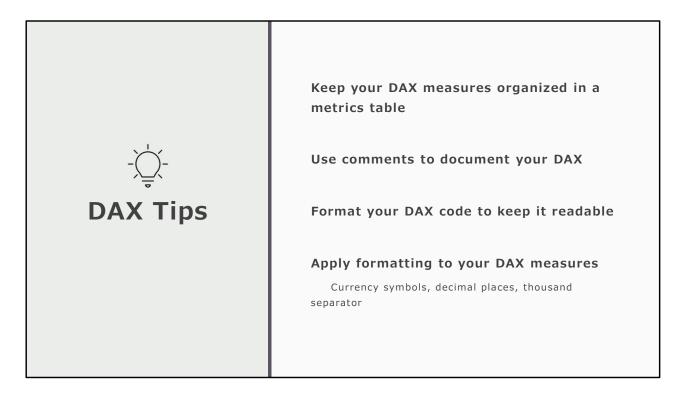
Consider	Filter Context "The set of filters applied to the data model before the evaluation of a DAX expression starts." - Marco Russo & Albetro Ferrari
the Context	Row Context To complete their aggregations, some DAX functions iterate over every row in a data table and need to know what row they are on. The "current row" is the row context.

Context is important. Because DAX can be used to create different objects in the model and can be quite flexible, we, as analysts and developers, need to learn to think like DAX thinks. In other words, we need to understand how the elements of a visual and filters in the report can affect the results the DAX is giving us.

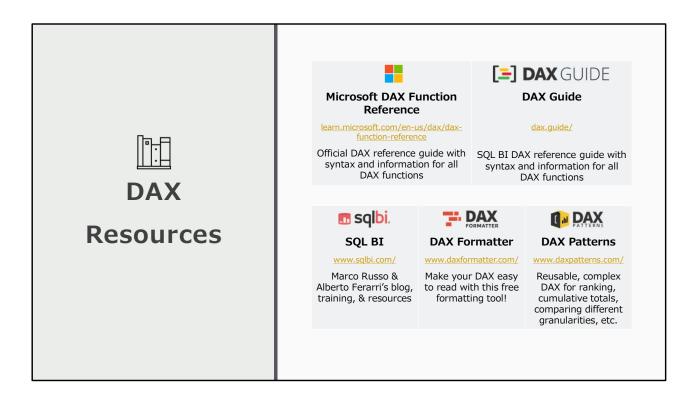


This isn't the only path to follow to learn DAX. What's most important is to lay a good foundation and learn to think like DAX (i.e. understand how the DAX engine executes the code). From that foundation, you can build your knowledge to meet your needs





For info on how organizing DAX, check out this post: http://www.michaelhewitt.net/2022/11/18/power-bi-tips-tricks-dax-organization/





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