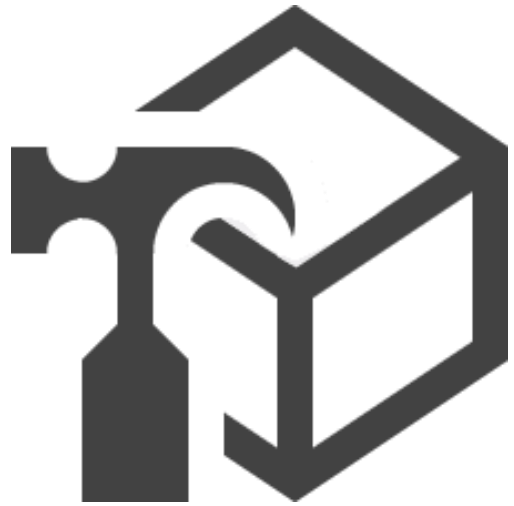


Power BI source control & DevOps



Just Blindbæk

- ▶ Self-employed BI consultant in justB
- ▶ Founder and organizer of
 - Danish Microsoft BI Community (MsBIP.dk)
 - Power BI UG Denmark (PowerBI.dk)
 - Next Step Conferences
- ▶ Trainer at Orange Man
- ▶ Strong focus on
 - Azure BI architecture
 - Analysis Services
 - Reporting Services
 - Power BI
- ▶ just@justB.dk / blog.justB.dk / [@justblindbaek](https://twitter.com/justblindbaek) / youtube.com/c/justblindbaek



Microsoft
CERTIFIED
Trainer

Microsoft
CERTIFIED
IT Professional

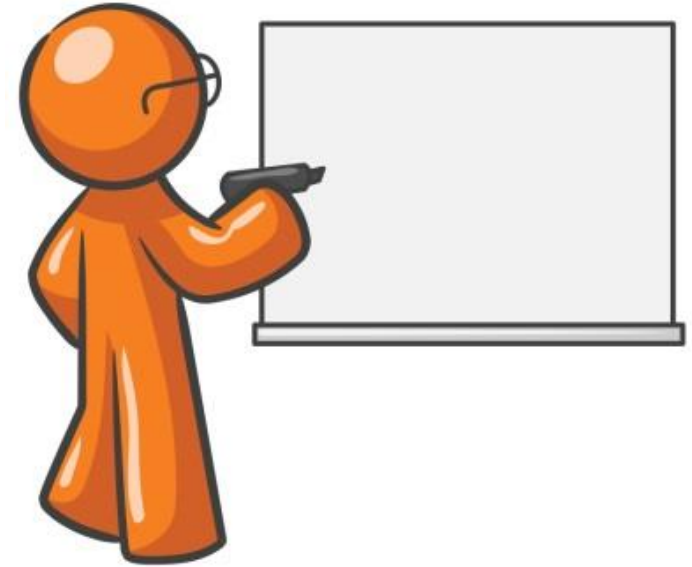
SSAS
MAESTRO
by Microsoft

MVP **Microsoft**
Most Valuable
Professional

ORANGEMAN

Agenda

- ▶ Tabular Model Definition Language (TMDL)
- ▶ Source Control with Git
- ▶ DevOps with pbi-tools
- ▶ What's next?
- ▶ Ressources

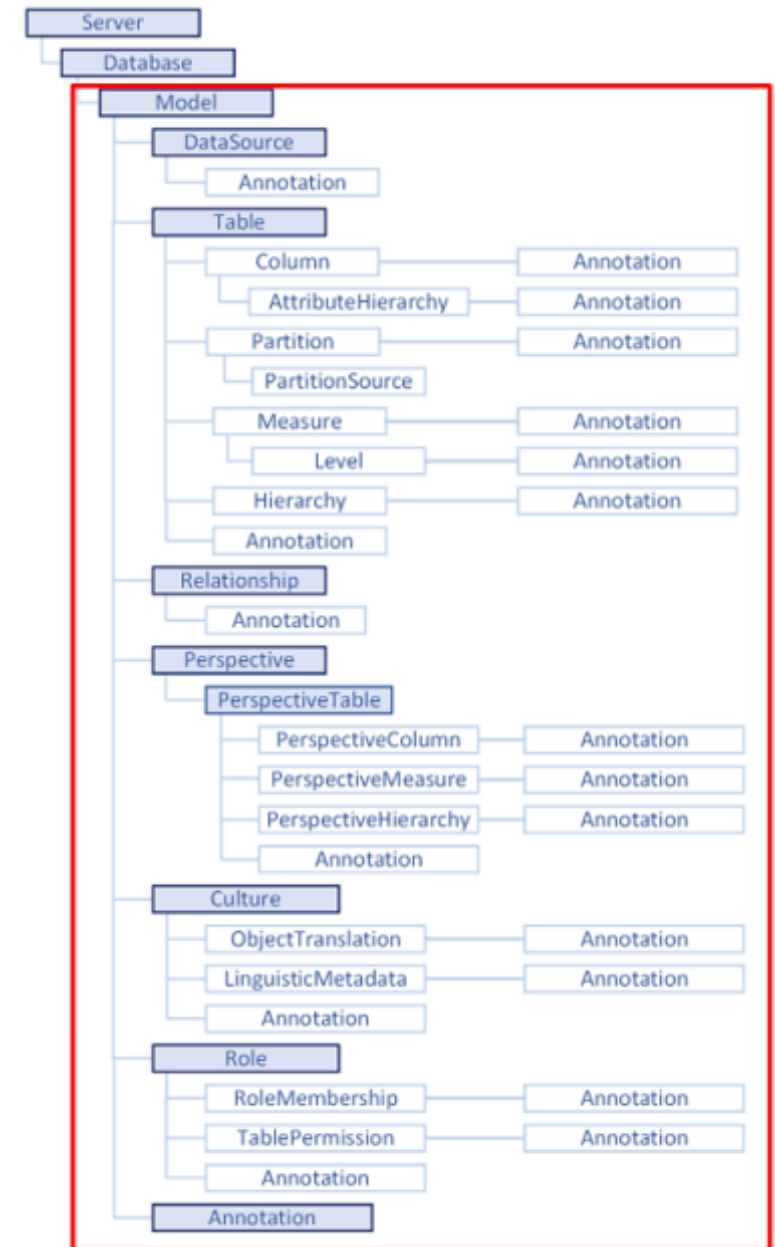


Tabular Model Definition Language (TMDL)

- ▶ Object model definition syntax for tabular data models
 - ▶ Human readable, editable, and allows collaboration
 - ▶ Full compatibility with the entire Tabular Object Model (TOM)
 - ▶ Copy, paste and edit M and DAX expressions
 - ▶ Indentation only matters for nested objects
 - ▶ Like Tabular Editor “Save to Folder” - but better
-
- ▶ Author: Mathias Thierbach – developed as part of the Power BI contributor program. Like when Daniel Otykier made External Tools.

TMDL folder structure

- ▶ The default folder structure has only one level of sub-folders, all with inner .tmd files
- ▶ TMDL exposes the entire TOM Model object tree in the Microsoft.AnalysisServices.Tabular namespace.



Source Control and Git

- ▶ “Save to Folder” with Tabular Editor 2.18 or newer
 - Serialization mode: TMDL (preview)
- ▶ Open-source Visual Studio Code extension
- ▶ Add to Git
 - History of changes
 - Compare changes
 - Multiple developers



DevOps with pbi-tools



- ▶ Brings source-control features to Power BI
- ▶ Professional development workflows and enhanced governance
- ▶ Extracts the contents of a PBIX/PBIT file into a folder structure optimized for source control (PbixProj folder)
- ▶ Generates a PBIX/PBIT file from PbixProj folder
- ▶ “Watch mode” with open Power BI Desktop that saves changes continuously to PbixProj folder
- ▶ Deploy content from PbixProj folder – manually or automated
- ▶ Developed by Mathias Thierbach

What's next?

- ▶ 4 TMDL previews in total, goal is for GA at end of the year
 - Second preview just released on May 5th
- ▶ First small step to get proper source control in Power BI
- ▶ What could be next?
- ▶ Maybe announcements on Microsoft Build ?



Ressources



- ▶ <https://powerbi.microsoft.com/en-us/blog/announcing-public-preview-of-the-tabular-model-definition-language-tmdl/>
- ▶ <https://learn.microsoft.com/en-us/analysis-services/tmdl/tmdl-overview>
- ▶ <https://learn.microsoft.com/en-us/analysis-services/tmdl/tmdl-how-to>
- ▶ <https://www.nuget.org/packages/Microsoft.AnalysisServices.Tabular.Tmdl.retail.amd64#versions-body-tab>
- ▶ <https://pbi.tools/>