

#FABCONSQLCON2026

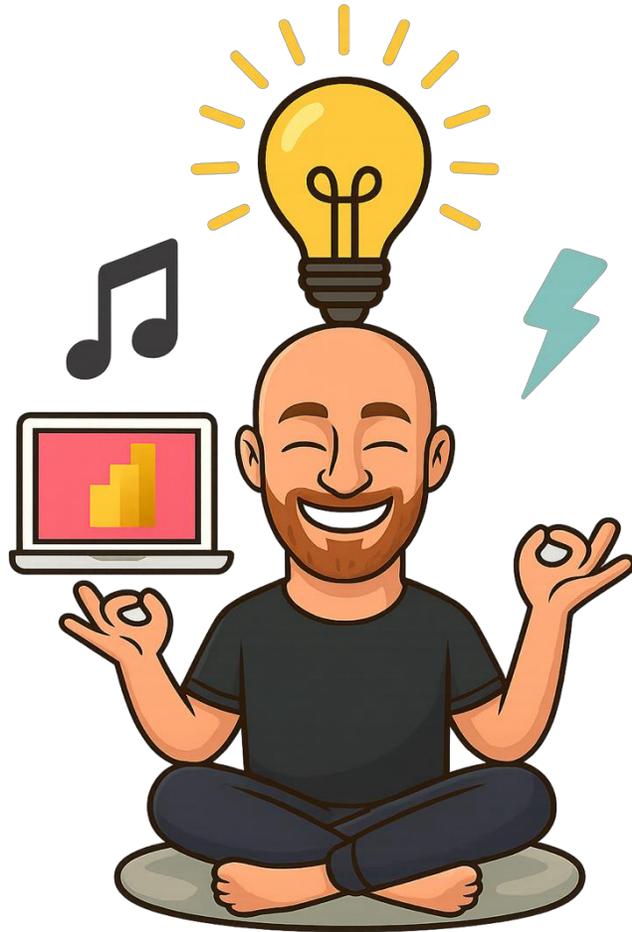
FABCON

Microsoft Fabric
COMMUNITY CONFERENCE

SQLCON

Microsoft SQL
COMMUNITY CONFERENCE

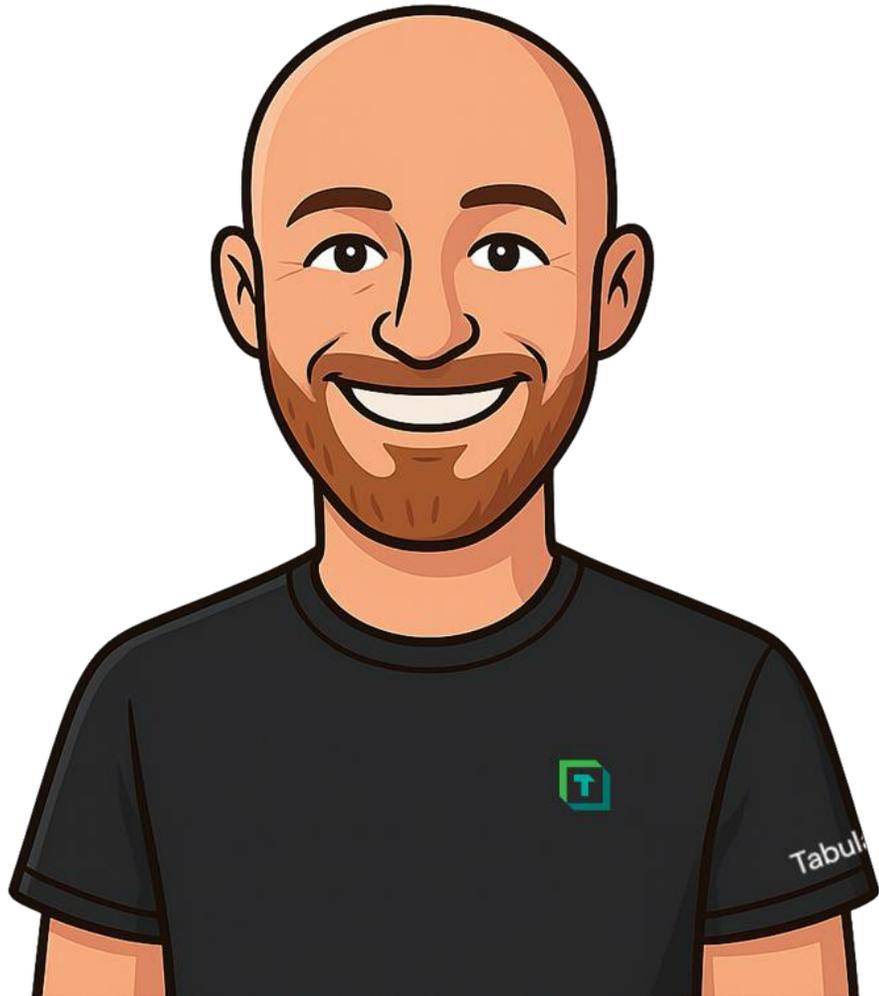
ATLANTA MARCH 16 - 20, 2026



Vibe coding a Power BI Embedded Portal From zero to hero in 60

Peer Grønnerup

WHO AM I?



Peer Grønnerup

Technical Architect & Community Advocate at Tabular Editor

*Software-developer roots and proudly “strategically lazy”
I automate so I don’t have to repeat myself!*

15+ years building BI and Data Platform solutions

 <https://www.linkedin.com/in/peergroennerup/>

 <https://peerinsights.hashnode.dev>

 <https://github.com/gronnerup>

WHERE ARE WE GOING TODAY?

- In



**BIG FAT
DISCLAIMER**

- Li

This session is an experiment.

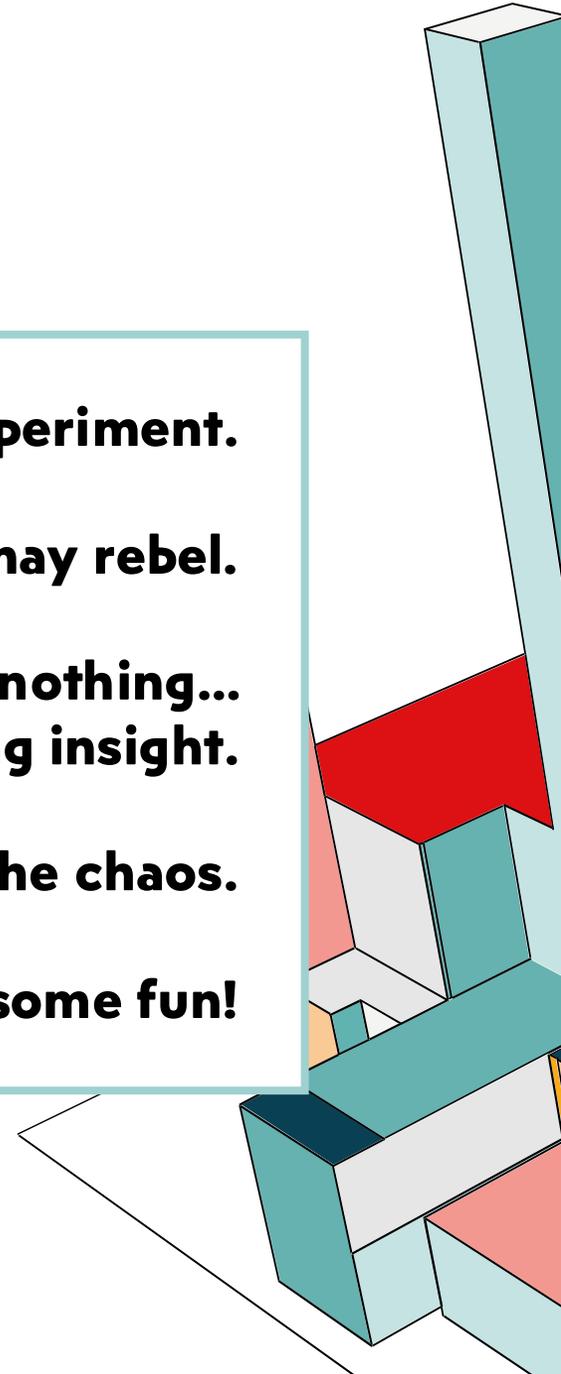
Things *will* break, code may rebel.

**You might leave with absolutely nothing...
...or maybe a life-changing insight.**

Buckle up, enjoy the chaos.

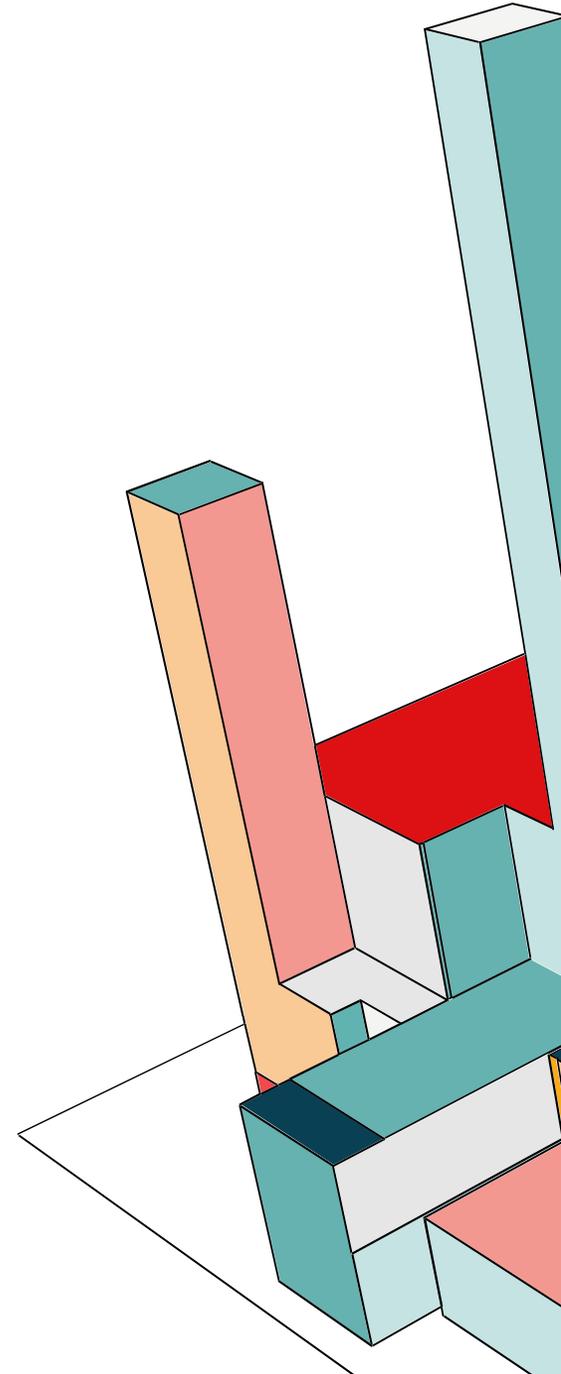
And let's have some fun!

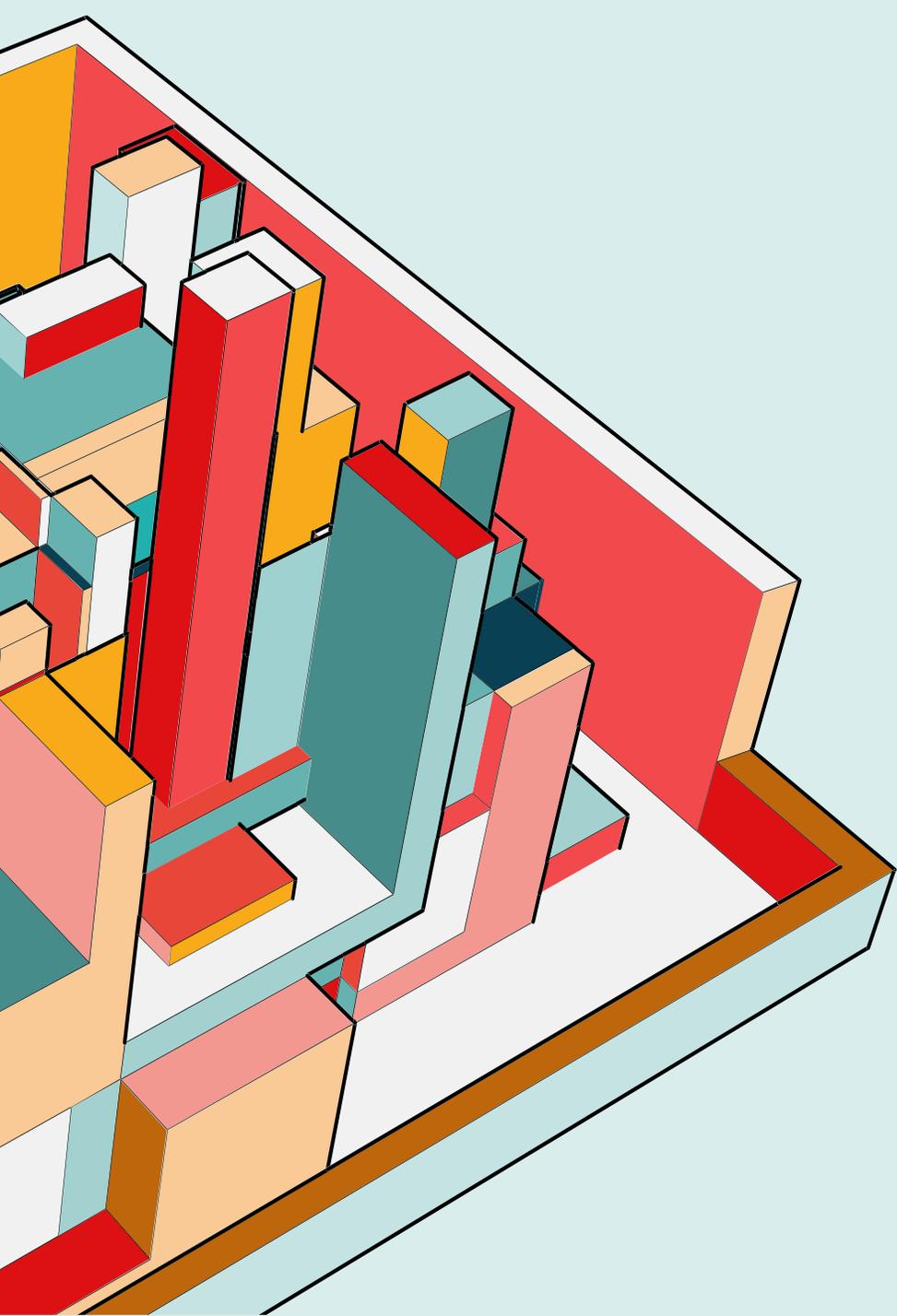
- Wrap-up + Q&A



WHERE ARE WE GOING TODAY?

- Introduction
 - Power BI Embedded
 - Vibe coding
- **Live vibe coding an MVP of a Power BI Embedded Portal**
 - The idea and goal for today
 - Setup & prerequisites
- **Wrap-up + Q&A**





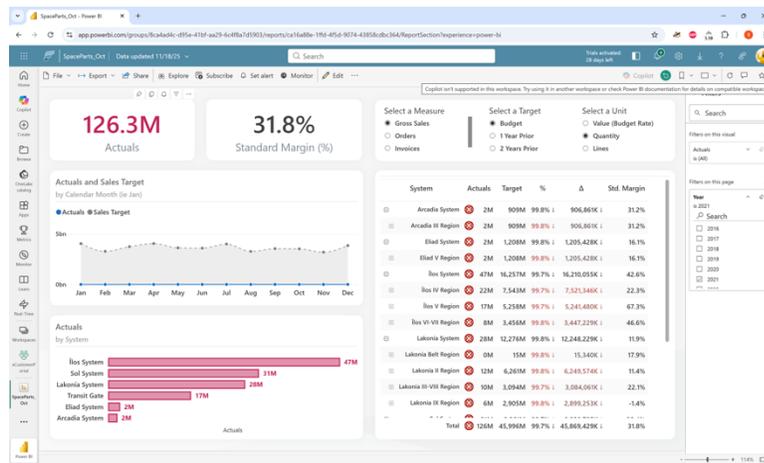
INTRODUCTION

POWER BI EMBEDDED

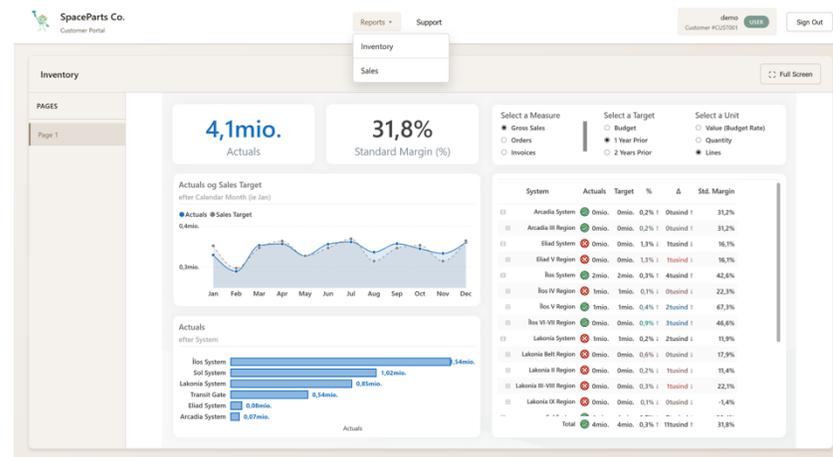


WHAT IS POWER BI EMBEDDED?

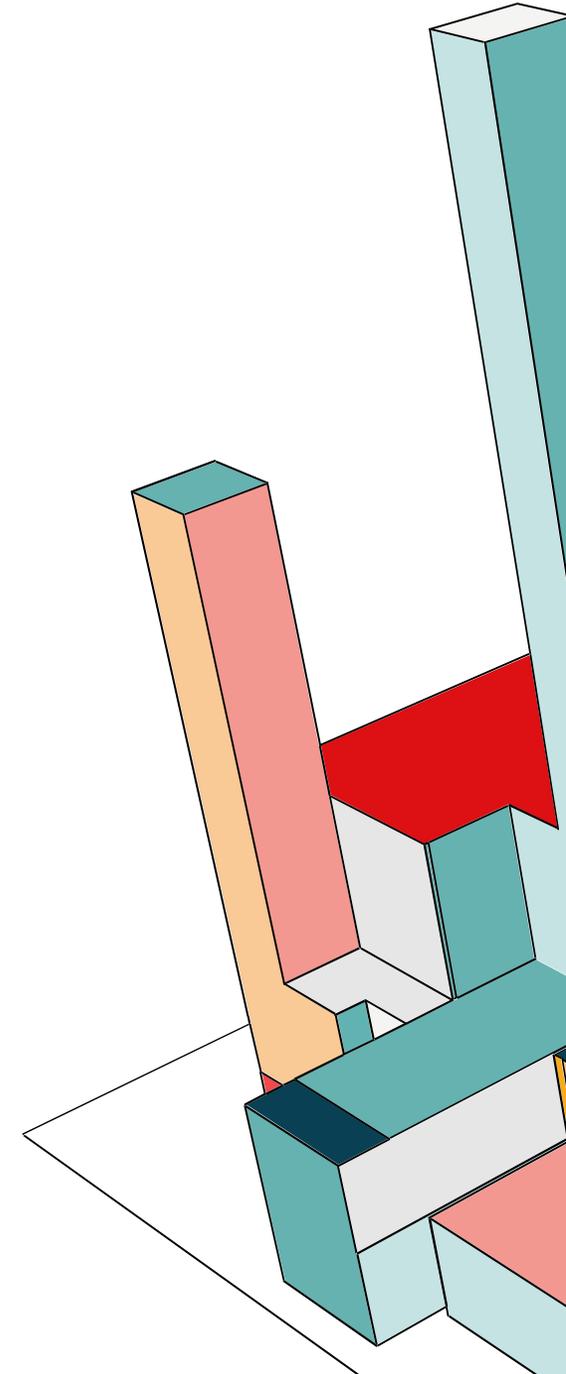
- It's a way to embed Power BI reports etc. into your applications
- Supports both internal and external audience
- Control and white-label the experience fully



Default experience



Your experience



POWER BI EMBEDDED OPTIONS

2 embedding options

- External
 - Requires a capacity
 - Pro or PPU for development
- Internal
 - Require individual licenses

| Feature | External users | Internal users |
|------------------|----------------------|--|
| Authentication | App managed | Microsoft Entra ID |
| Licensing | F, P or A-SKU* | Pro, PPU, P or +F64 SKU |
| Primary use case | External facing apps | Internal business apps |
| Ownership | App owns data | User owns data |
| Implementation | Custom coding | Secure embed (iframe) Custom coding |

* No user licenses required

WHY EMBED?



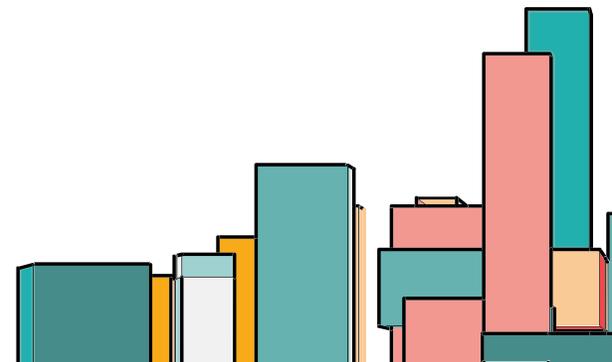
- Better user adoption
- Seamless UX (branding + layout)
- Control access & navigation
- Can be low-code or no-code
- Cost saving
- Use it internally or externally
 - Intranet
 - Customer portal



THE CONS OF EMBEDDED ANALYTICS



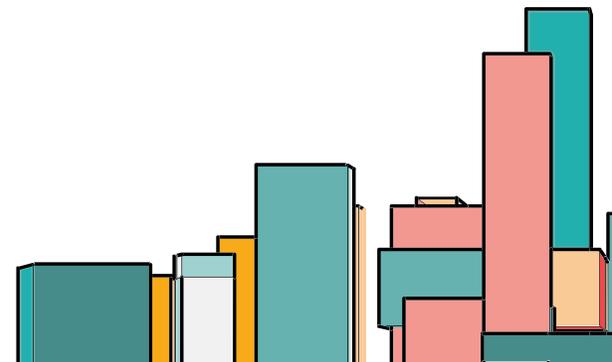
- Requires a capacity = complex pricing and capacity planning
- More engineering effort
- Operational complexity
 - Multi-tenant design
 - Life-cycle management
 - Authentication
 - Hosting
- Feature parity nuances



THE CONS OF EMBEDDED ANALYTICS



- Requires a capacity = complex pricing and capacity planning
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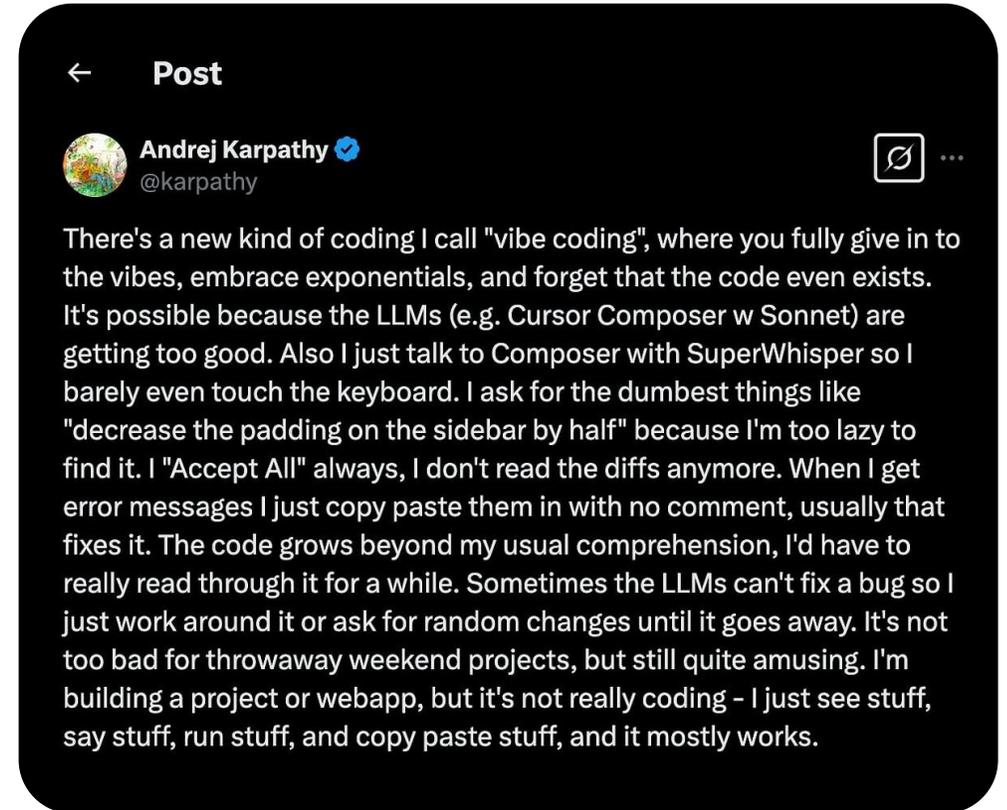


VIBE CODING

Preparing for some groovy coding

AN INTRODUCTION TO VIBE CODING

- An AI-powered development practice
- It requires no to little technical skills
- It requires no heavy upfront design og planning
- It is a shifts from writing lines of code to creating products simply by describing ideas in natural language
- Let your energy, ideas and intuition lead the way
- 8-year-old girl codes with Cursor AI:
<https://youtu.be/o5uvDZ8srHA?si=jE8N3eQ7fTFYKhyr>



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Pure vibe coding

vs.

**Responsible AI-assisted
development**

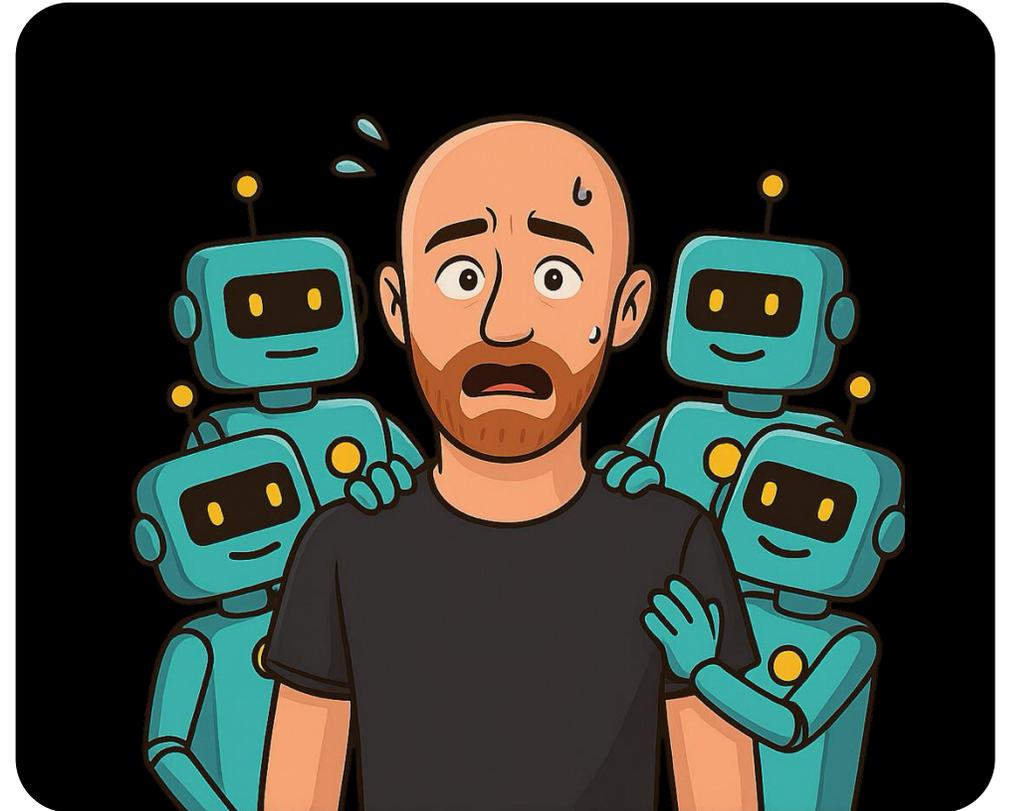
FEEL THE VIPE - IT'S PURE AND IT'S ALL GOOD

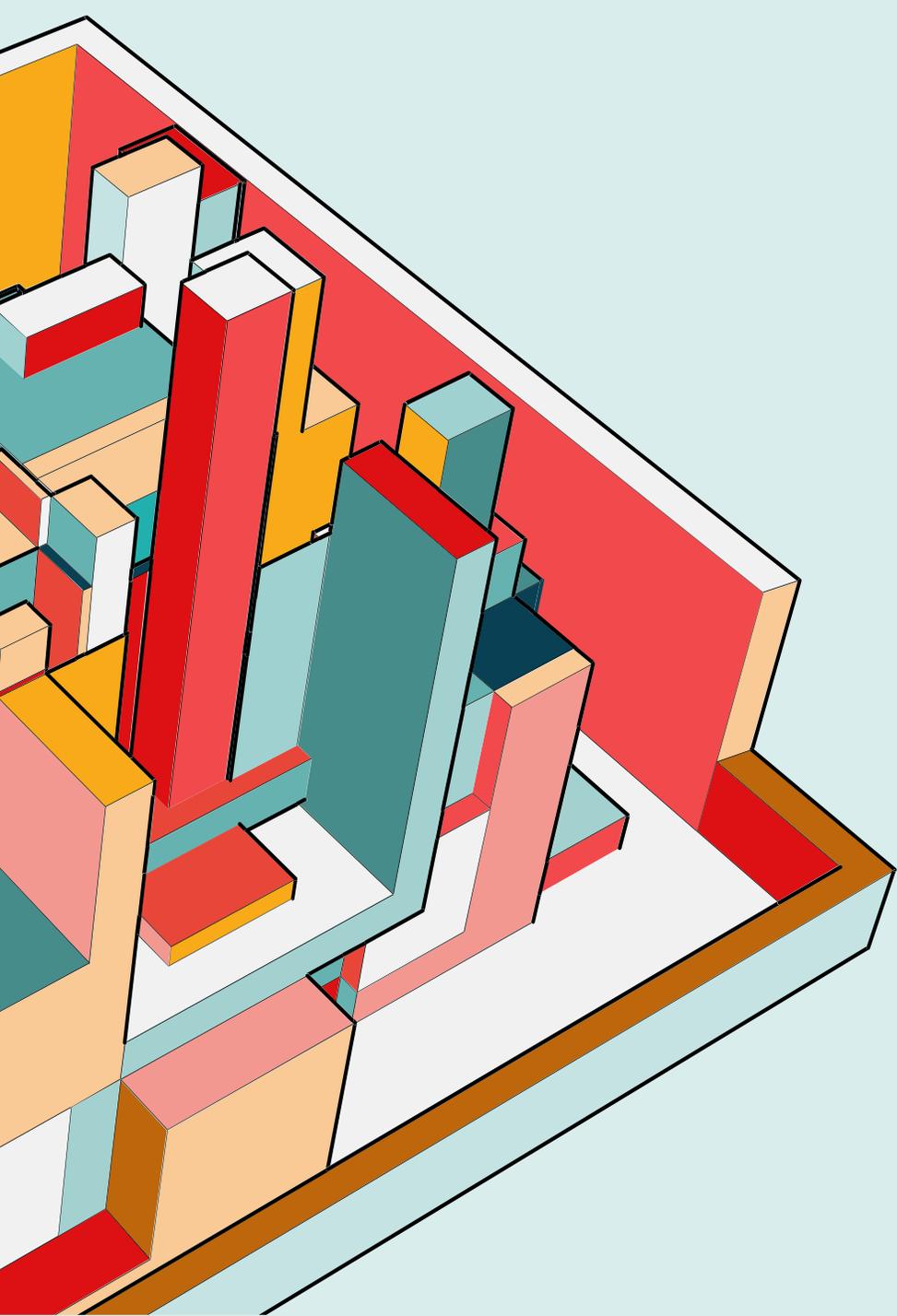
- **Speed**
- **Creativity**
- **Easy to iterate**
- **Accessibility**
- **Fast prototyping**



THE DANGERS OF PURE VIBE CODING

- **Messy code**
- **No long-term structure**
- **Hard to debug**
- **Loss of understanding**
- **Security gaps**



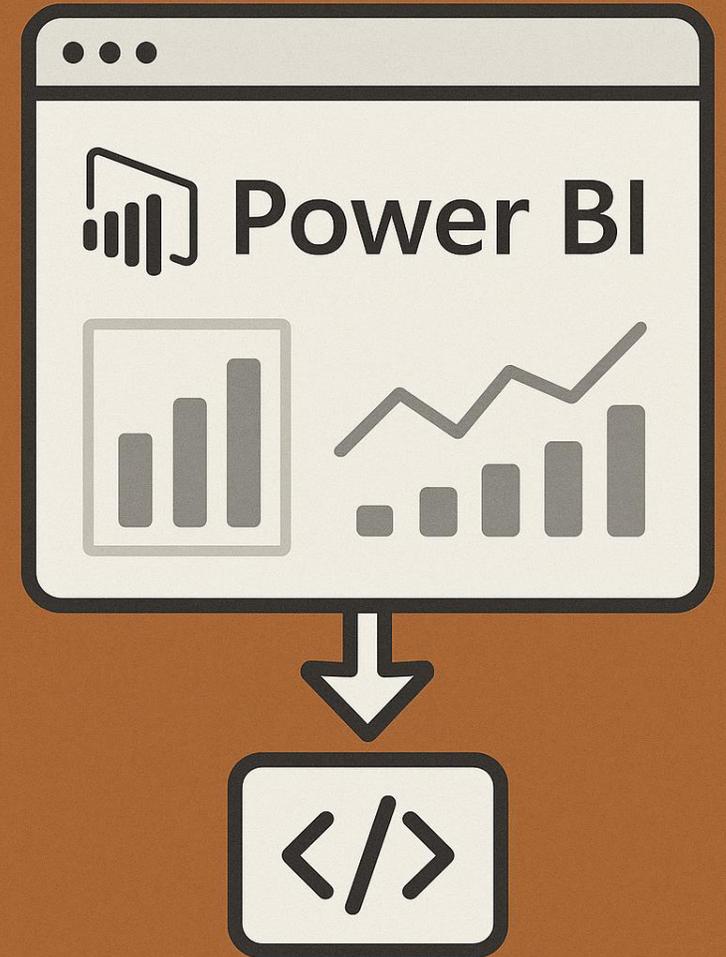


VIBE CODING

A Power BI Embedded Portal

POWER BI EMBEDDED

The goal for today's session....



THE IDEA AND THE GOAL FOR TODAY

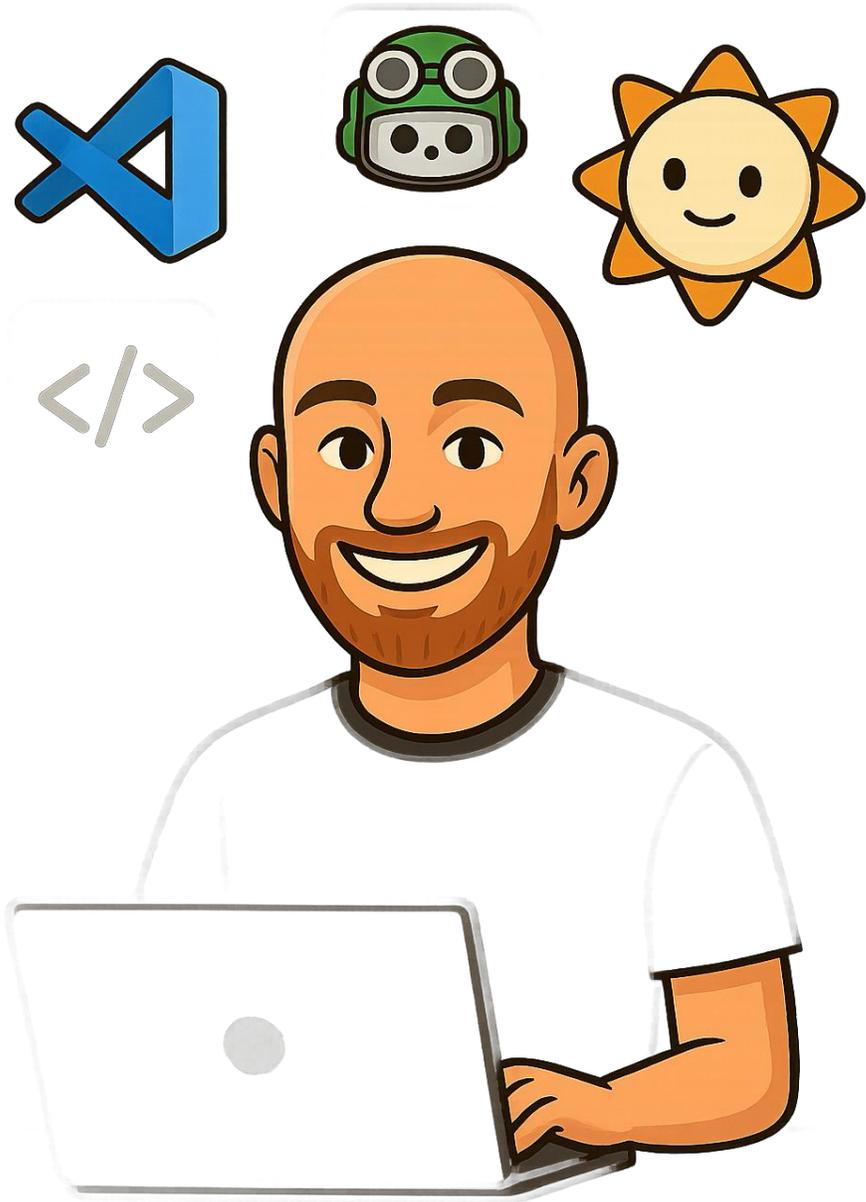
A Power BI Embedded Portal

- Targeted externals (App owns data)
- Login/authentication
- With information pages
- Support for dynamic RLS
- Add additional UX
 - Fullscreen
 - Page navigation and more...

The goal

- A fully production ready application
- Deployed and running in Azure





PREREQUISITES, TOOLING & SETUP

Overview of the foundation for vibe coding a Power BI embedded app

THE TOOLBOX AND WHAT I PREPARED

The toolbox

- VS Code
- GitHub Copilot
- Context7 MCP

- Azure App Service

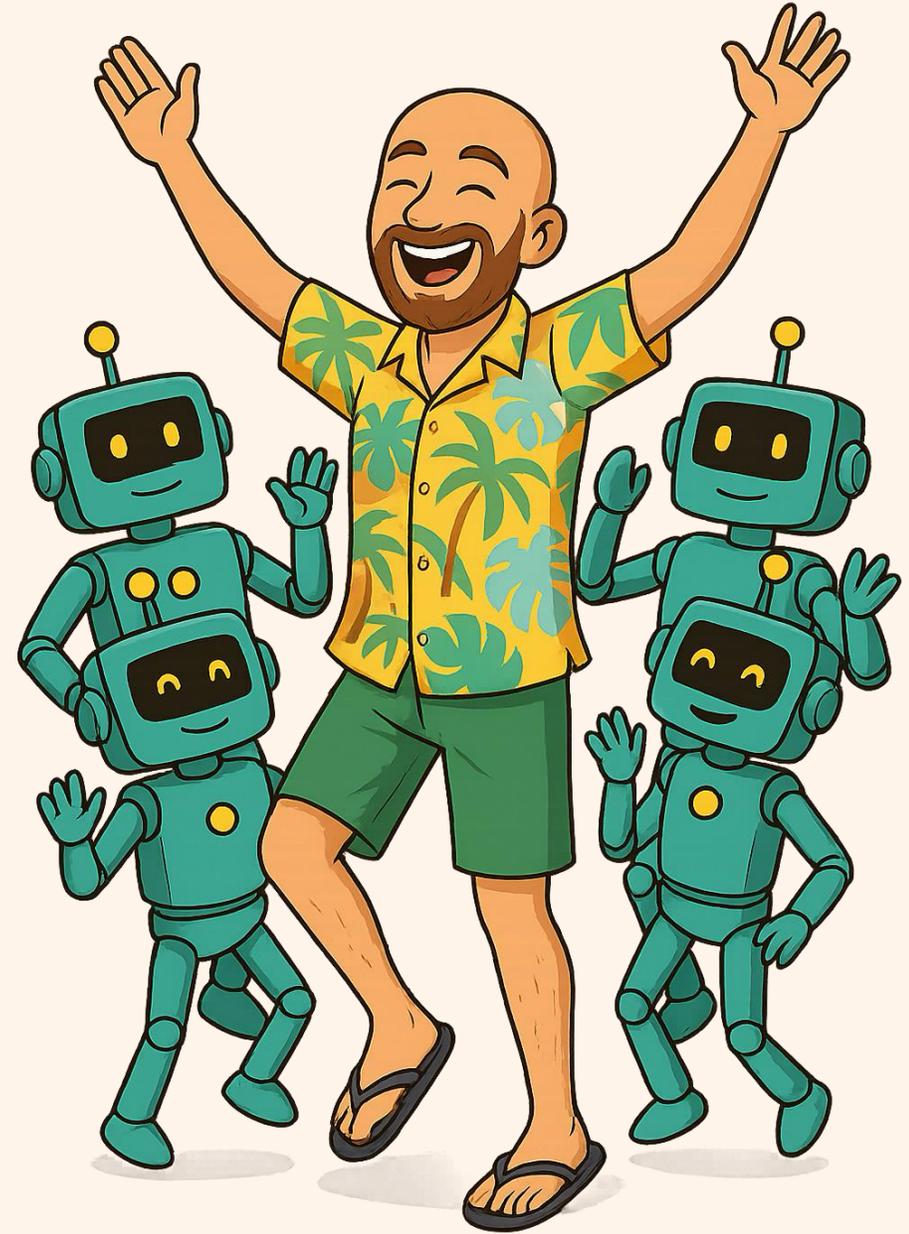
Pre-requisites for Power BI Embedded

- Power BI Workspaces containing
 - A semantic model (no roles)
 - Reports for demo purposes
- Azure
 - Service Principal with client credentials
 - Resource group (optional)
- GitHub Copilot instructions file



<https://tinyurl.com/yw5f85ht>

**LET'S GO FEEL
THE VIBE!**





WRAP-UP + Q&A

FINAL TIPS & TAKEAWAYS

Conceptualize First

Start with a clear idea of what to build

Domain knowledge is Power

Knowing relevant frameworks, technologies etc. significantly improves AI-generated results

Iterate your development

Expect to debug and refine. AI is not a magic wand.

Use with caution

Use vibe coding for testing ideas and for prototyping.

Vibe coding is NOT a replacement of architects best practices



MY RECOMMENDED VIBE CODING TOOLS

VS Code w/ GitHub CoPilot

For developers who want AI assistance in their existing IDE.

Cursor and/or Windsurf

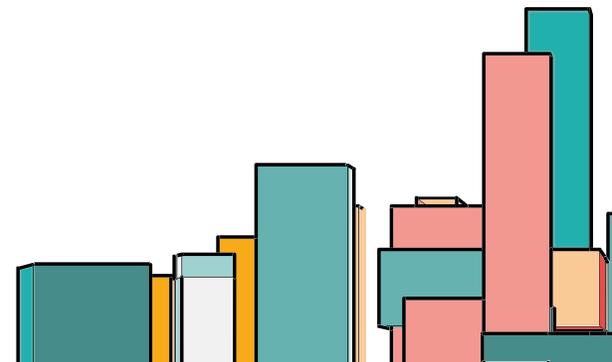
VS Code forks. Very similar but with a few differences in the UX.
Best for pro developers who want an AI-first IDE.

Lovable

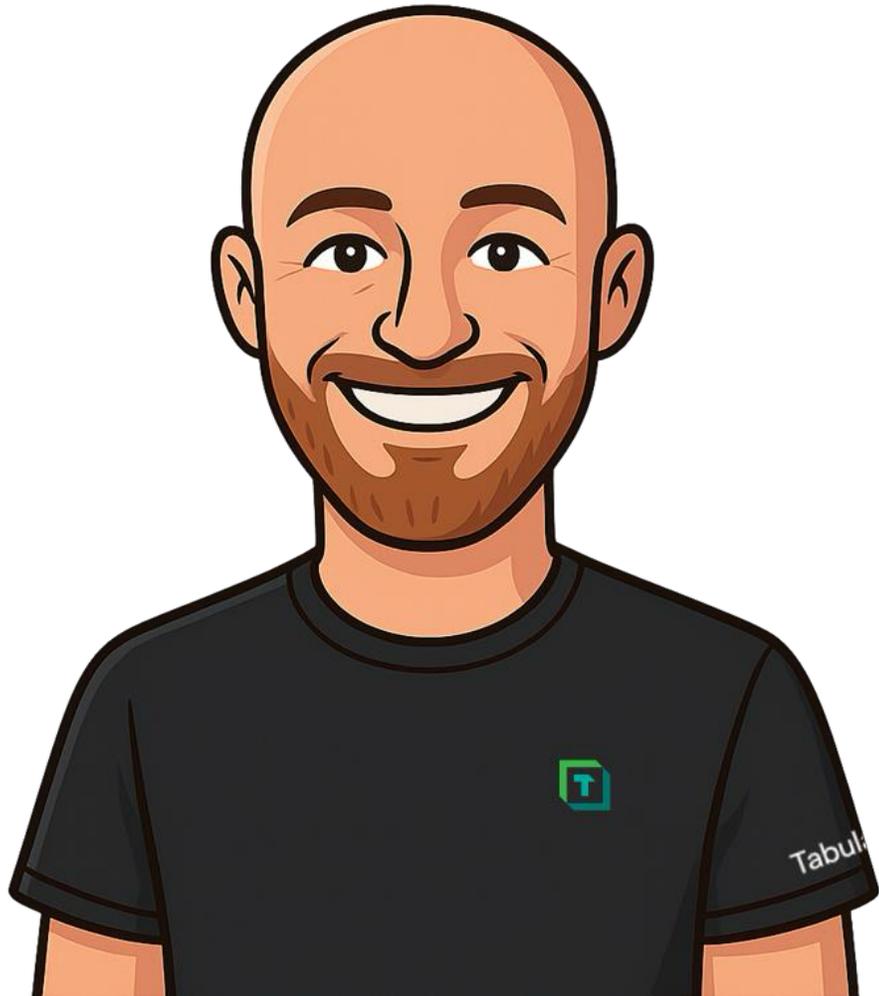
Most user friendly for non-coders and low-coders.

Claude code

Best for experienced developers. Handles complex multi-file projects.



MY REPO FOR YOU TO GET STARTED



 <https://www.linkedin.com/in/peergroennerup/>

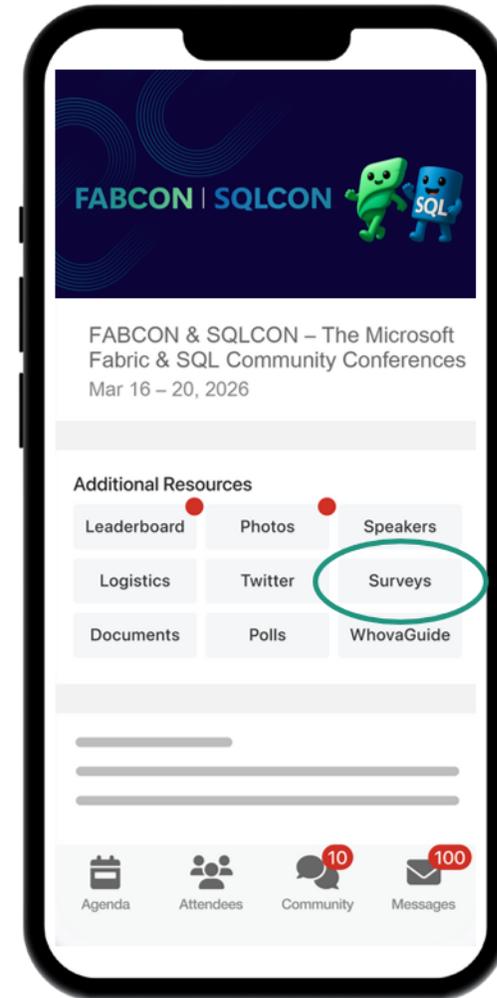
 <https://peerinsights.hashnode.dev>

 <https://github.com/gronnerup>

How was the session?



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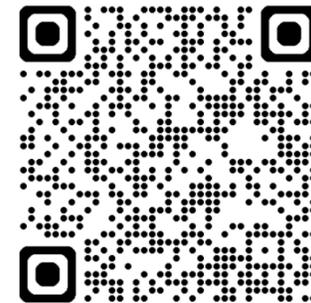


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THANK YOU

