

Microsoft Fabric and its role in the Microsoft Intelligent Data Platform



Microsoft Fabric

Kevin Chant

Data Saturday Croatia

EVENT SPONSORS, THANKS!!!

GOLD



span



TRIA

SILVER

::: bonsai.tech

BRONZE



GETHYNELLIS.COM



unitfly

DATA SENSE
WHERE IT SPEAKS BUSINESS



comminus
FOR EVERY STEP OF THE WAY, THERE'S DATA



redgate



infobip

BUG



Have you seen a dragon?



Help him!

Agenda

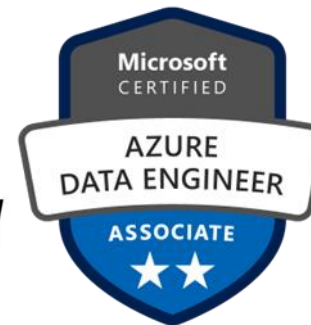
- Bio
- Microsoft Intelligent Data Platform
- Introduction to Microsoft Fabric
- Advice
- Grand finale

Kevin Chant

- Data Engineering Manager in the Netherlands
- Worked in IT since Windows 95
- Experience in various sectors
- Various certifications, dual-category MVP



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- GitHub: <https://github.com/kevchant>





Microsoft Intelligent Data Platform

- Announced at Build 2022
- Collection of database, analytics and governance services
- Website demo

Microsoft Fabric

Comp
analytics
platform

Lake
centric
and open

Empower
every
Business
user

AI Powered



Data
Factory



Synapse Data
Engineering



Synapse Data
Warehouse



Synapse Data
Science



Synapse Real
Time Analytics



Power BI



Data Activator
(coming soon)



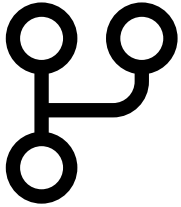
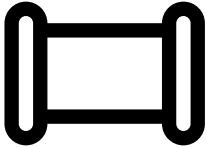
OneLake

OneLake

- Unified storage foundation
- Built on top of ADLS
- Optimized delta parquet files
- Shortcuts



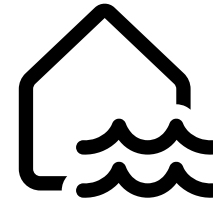
Data Factory

- Ingest Data
- Dataflows (Gen2) 
- Pipelines 
- Over 200 native connectors

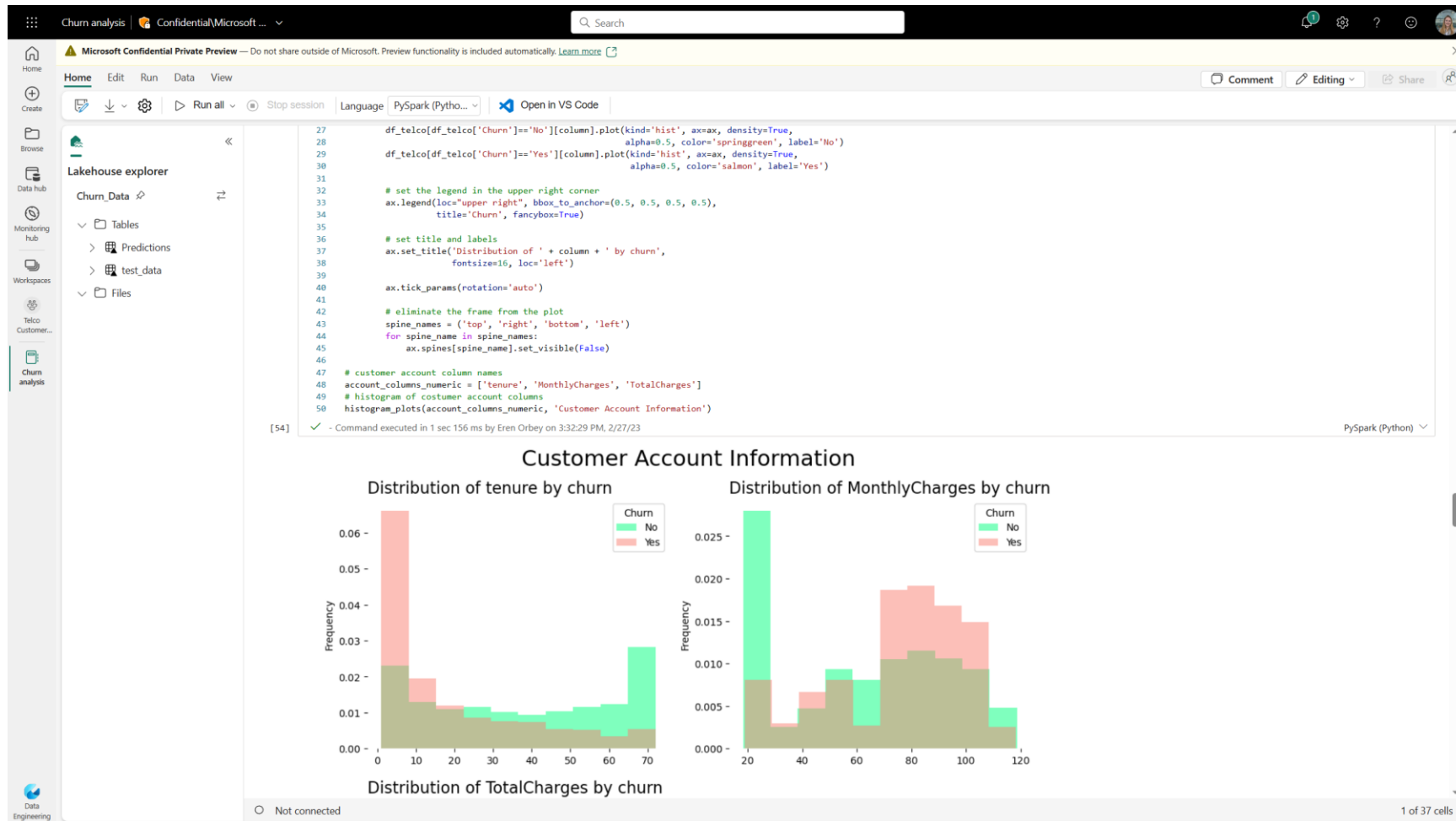


Data Engineering

- Lakehouses
- Notebooks
- SQL endpoint
- Tables and files



Tables and files



Synapse Data Warehousing



- Transactional Data Warehouse
- T-SQL
- Two warehousing experiences

SQL query editor

The screenshot displays the Microsoft Fabric SQL query editor. The interface includes a top navigation bar with 'sales' and 'General' tabs, a search bar, and user profile icons. A left sidebar shows the 'Explorer' pane with a tree view of the 'sales' database, including schemas, functions, stored procedures, and tables. The main area is divided into a query editor and a results pane.

SQL query:

```
1 SELECT TOP 100 dt.d_year, item.i_brand_id brand_id, item.i_brand brand, SUM(ss_ext_sales_price) sum_agg
2 FROM date_dim dt, store_sales, item
3 WHERE dt.d_date_sk = store_sales.ss_sold_date_sk
4 AND store_sales.ss_item_sk = item.i_item_sk
5 AND item.i_manufact_id = 931
6 AND dt.d_moy=11
7 GROUP BY dt.d_year, item.i_brand, item.i_brand_id
```

Results:

	d_year	brand_id	brand	sum_agg
1	1998	3002002	importoexporti #2	57072.23
2	1998	2002001	importoimporto #1	55121.24
3	1998	5003002	exportischoolar #2	43818.97
4	1998	5003001	exportischoolar #1	43427.27
5	1998	5004001	edu packschoolar #1	35833.07
6	1998	7005004	schoolarbrand #4	35621.42
7	1998	8012006	importomaxi #6	33982.90
8	1998	1004002	edu packamal #2	32570.71
9	1998	8004005	edu packnameless #5	31966.71
10	1998	3004002	edu packexporti #2	30722.59
11	1998	9012003	importounivamal #3	28539.16
12	1998	7015007	schoolarnameless #7	28369.62
13	1998	7016008	corpnameless #8	27960.94
14	1998	9011002	amalgunivamal #2	24220.37

The results pane shows a table with 4 columns and 100 rows. The status bar at the bottom indicates 'Succeeded (1 sec 748 ms)' and 'Columns: 4 Rows: 100'.

Real-time analytics

- Streaming solution
- Based on Kusto
- Eventstreams
- Integrates with Power BI



Data Science

- Data science workflows
- Easy collaboration
- SynapseML
- MLFlow integration

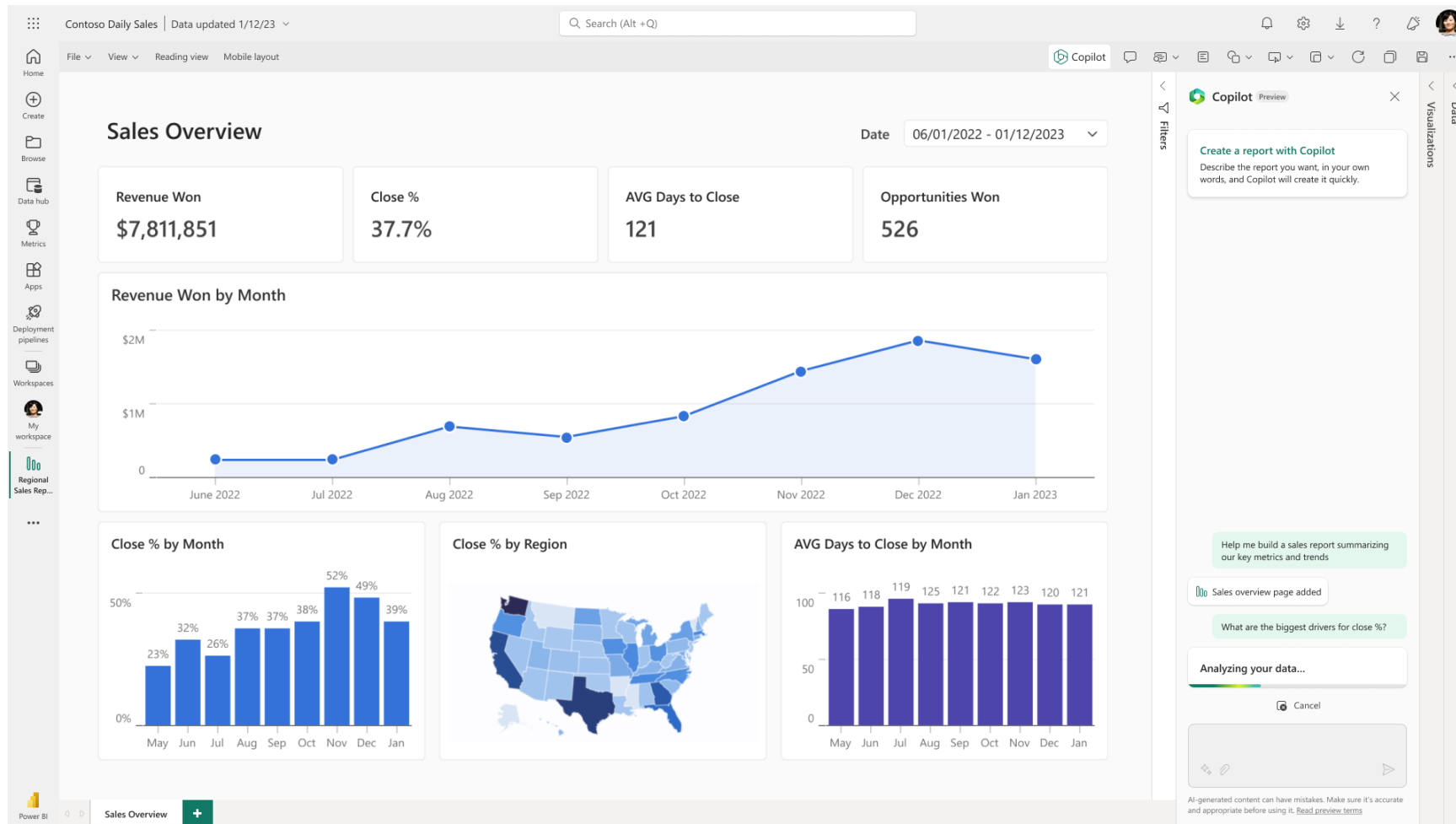


Power BI

- Business Intelligence
- Deeply integrated
- Same as before, only not
- Optimizations and updates



AI capabilities



Data Activator

- Coming soon
- Constantly checks data
- Data driven++

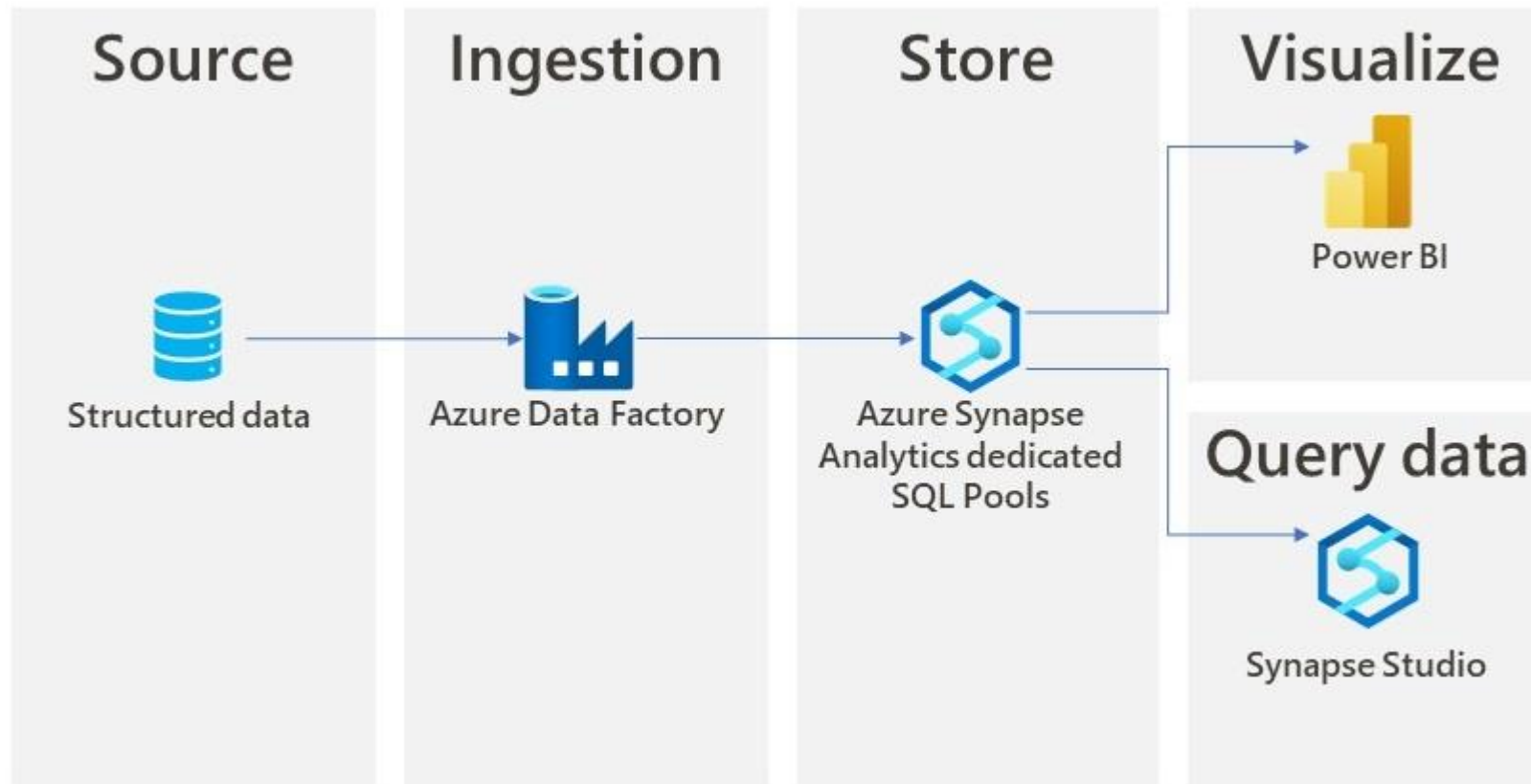


Microsoft Fabric role

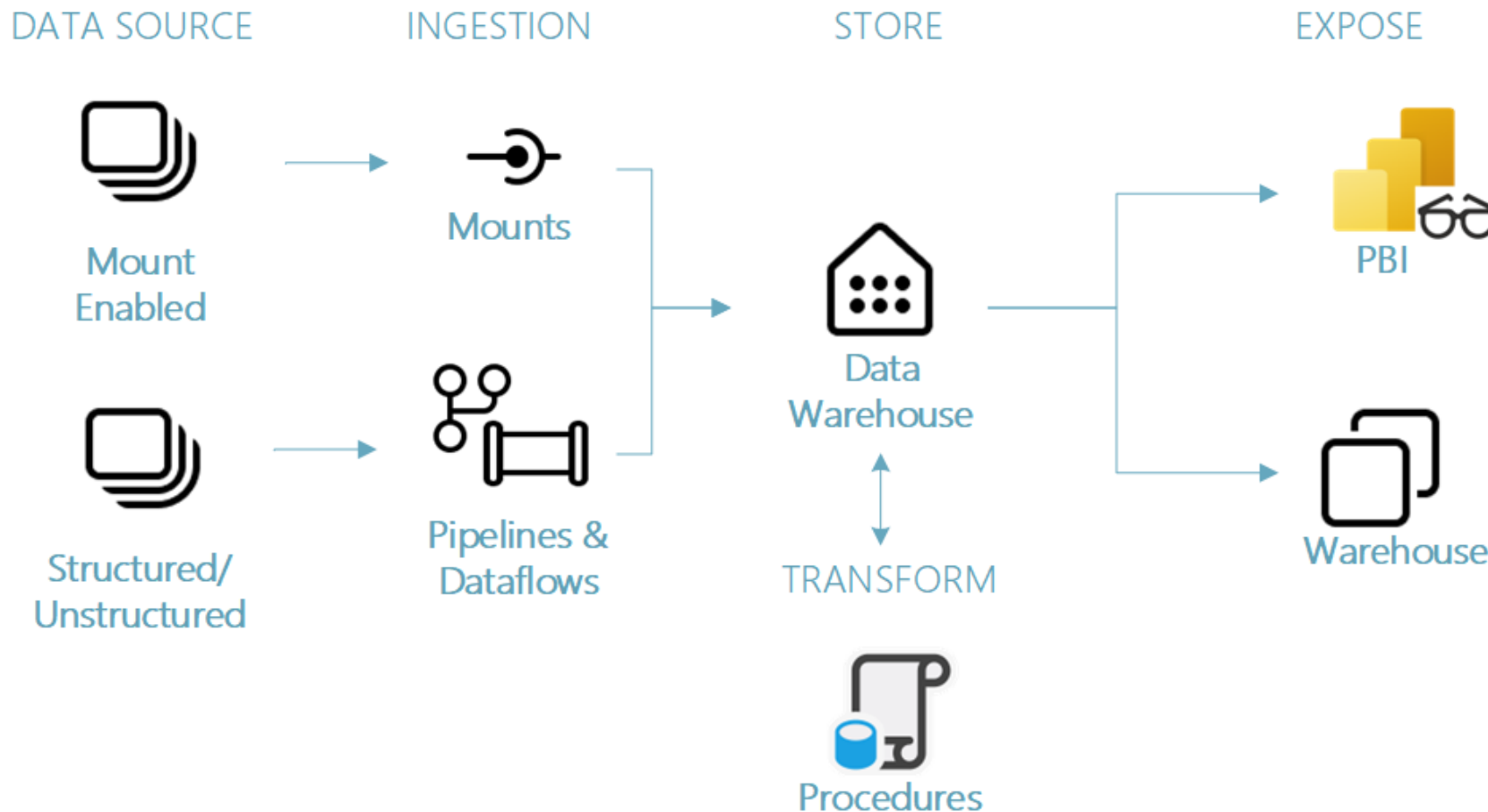
- Unification
- Remove friction



Integrating various services



Within Microsoft Fabric



Advice

- How to get a trial
- Microsoft 365 Developer Account
- Pay-as-you-go capacity
- Various material online

Grand finale

- Best part till last
- DEMO!!!
- All public preview

Questions



Thank you



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- GitHub: <https://github.com/kevchant>