

The screenshot displays a multi-layered view of data management and visualization. On the left, an Excel spreadsheet contains a large dataset with columns for Title, Nature, Link, Author, Year, method, Center, Objective, Topic, Feature, Subj, Target, Language, Excerpts, Group, Venue, Motivation, Technology, and Location. The middle section shows the data.gv.at website, which is a portal for open data in Austria. It features a search bar, a navigation menu with links like 'Startseite', 'Daten', 'Dokumente', 'Anwendungen', and 'Infos', and a grid of icons representing various data domains such as population, education, finance, geography, society, health, agriculture, sports, environment, transport, administration, and economy. On the right, a series of terminal windows show MongoDB shell commands being run, including queries related to 'tweets' and 'db.tweets.findOne()'.

Talk Data to Me

Svitlana Vakulenko

Data Pain

Big Data => Big Problems



Data Pain

Big Data => Big Problems



Data Pain

Big Data => Big Problems

Discovery challenge

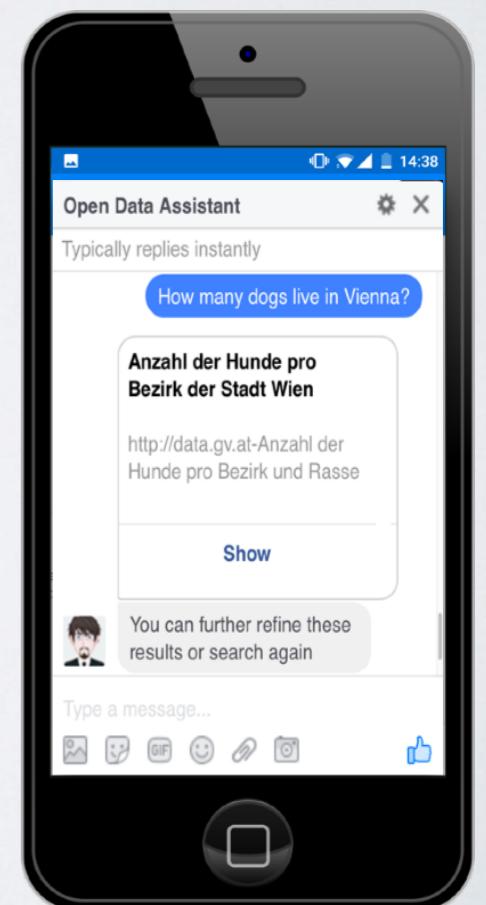
The image shows a composite of three screens illustrating data challenges:

- Terminal Window (Left):** Shows a MongoDB shell session with errors. One error message reads: "2017-04-18T16:19:01.966+0200 E QUERY TypeException: Cannot read property 'lang' of null at (shell):1:41". Another message shows: "2017-04-18T16:19:11.966+0200 E QUERY TypeException: Cannot read property 'lang' of null at (shell):1:41".
- Microsoft Excel (Center):** A screenshot of an Excel spreadsheet titled "tolearnmeNew.ods". It contains a table with columns such as Title, Nature, Link, Author, Year, method, Content, Objective, Topic, Feature, Subj, Target audience, Language, Excerpts, Group, Venue, Motivation, Technology, and Location. The data includes various entries like "Онлайн-тест словникового запасу української мови", "Книжка", and "Алгоритми: построение и анализ", along with their respective details.
- data.gv.at Portal (Right):** A screenshot of the "data.gv.at" website, which is a portal for open data in Austria. It features a search bar, a navigation menu with categories like "Arbeit", "Bildung", "Forschung", "Geographie & Planung", "Gesellschaft & Soziales", "Gesundheit", "Kunst & Kultur", "Land- & Forstwirtschaft", "Sport & Freizeit", "Umwelt", "Verkehr & Technik", "Verwaltung & Politik", and "Wirtschaft & Tourismus". Below the menu, there's a section for "Neueste Anwendungen" (Recent Applications) and a "News" feed.

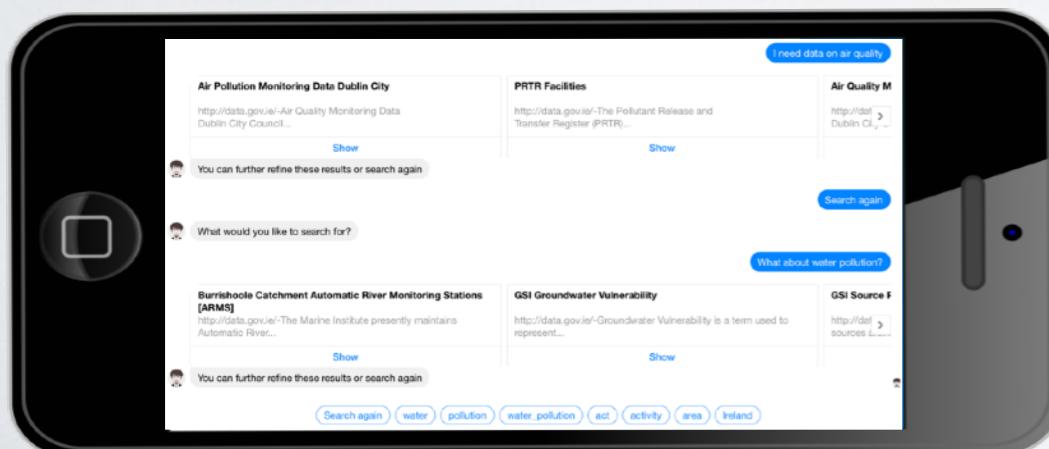
Our Solution

Open Data Assistant

Chatbot - dialogue interface (Neumaier et al., 2017)



Demo!



Our Solution **QA on Tables**

End-To-End Memory Networks (Sukhbaatar et al., 2015)

1 Row1 NUTS2 AT31
2 Row1 LAU2_CODE 40404
3 Row1 LAU2_NAME Braunau_am_Inn
4 Row1 YEAR 2015
5 Row1 INTERNAL_MIG_IMMIGRATION 808
6 Row1 INTERNATIONAL_MIG_IMMIGRATION 357
7 Row1 IMMIGRATION_TOTAL 1165
8 Row1 INTERNAL_MIG_EMIGRATION 607
9 Row1 INTERNATIONAL_MIG_EMIGRATION 186
10 Row1 EMIGRATION_TOTAL 793
11 Row2 NUTS2 AT31
12 Row2 LAU2_CODE 40405
13 Row2 LAU2_NAME Burgkirchen
14 Row2 YEAR 2015
15 Row2 INTERNAL_MIG_IMMIGRATION 138
16 Row2 INTERNATIONAL_MIG_IMMIGRATION 91
17 Row2 IMMIGRATION_TOTAL 229
18 Row2 INTERNAL_MIG_EMIGRATION 195
19 Row2 INTERNATIONAL_MIG_EMIGRATION 12
20 Row2 EMIGRATION_TOTAL 207

Demo2

21 What is the INTERNATIONAL_MIG_EMIGRATION for Burgkirchen? 12 13 19

Our Customers: Data Pain

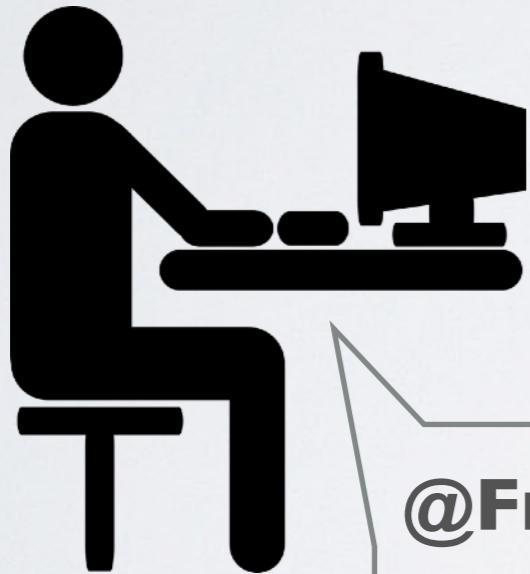


@Tobi What was our revenue last month?
How much did we sell last week?

Where did I save this table?
What was that SQL command?



Our Customers: Our Solution



@Michi 25,670 EUR
200 stk.

A screenshot of a Microsoft Excel spreadsheet titled "tobisRechnerNew.xls". The spreadsheet contains several sheets of data, with two specific rows highlighted in red and circled. The columns are labeled A through Z. The circled data points to the value "25,670 EUR" mentioned in the speech bubble above.

@Franzl What was our revenue last month?
How much did we sell last week?



@Tobi Let's go have a coffee?

@Michi Sure thing!



<https://m.me/OpenDataAssistant>

Make data your friend!