

Talk Data to Me

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Data Pain

Big Data => Big Problems



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Discovery challenge

The collage illustrates the 'Discovery challenge' in Big Data through several overlapping elements:

- Spreadsheet:** A table with columns: Title, Nature, Link, Author, Year, mother, Content, Objective, Topic, Feature, Subject, Target, Language, Excerpts, Group, Venue, Motivation, Technology, Location. It contains various data entries, including a row for 'Thomas Corv' with years 2001, 2008, 1992.
- Terminal Window:** Displays code snippets, including a function definition for 'show_collectors' and a call to 'show_collectors'.
- Web Browser:** Shows the 'data.gv.at' website, which is a platform for open data in Austria. It features a search bar, navigation links (Startseite, Dokumente, Apps & News, Katalog durchstöbern), and a grid of icons representing different themes: Arbeit, Umwelt, Bildung, Finanzen & Rechnungswesen, Geographie & Planung, Gesellschaft & Soziales, Gesundheit, Kunst & Kultur, Land- & Forstwirtschaft, Sport & Freizeit, Umwelt, Verkehr & Technik, Verwaltung & Politik, and Wirtschaft & Tourismus. Below the grid, there are sections for 'Neueste Anwendungen' and 'News'.
- Data Table:** A table with columns: ID, Name, Year, and several numerical columns. It lists various data points, such as '40411 Halbesmoos' and '40412 Haidberg'.

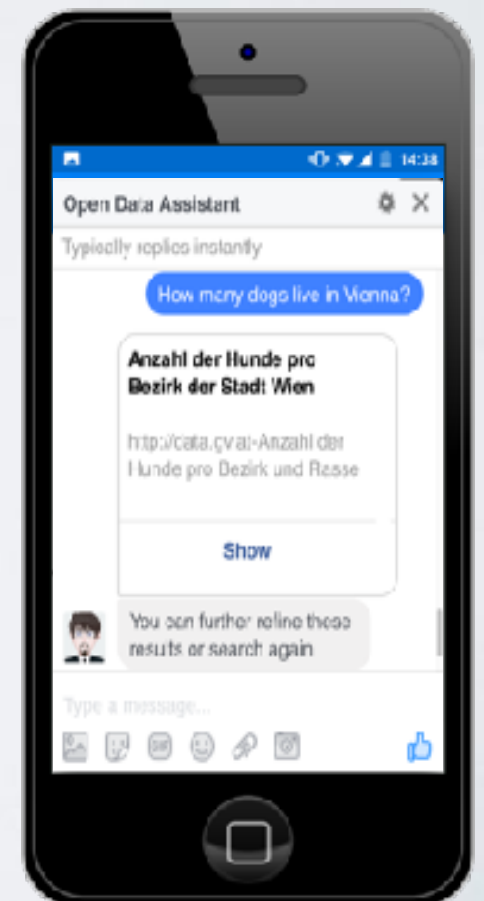
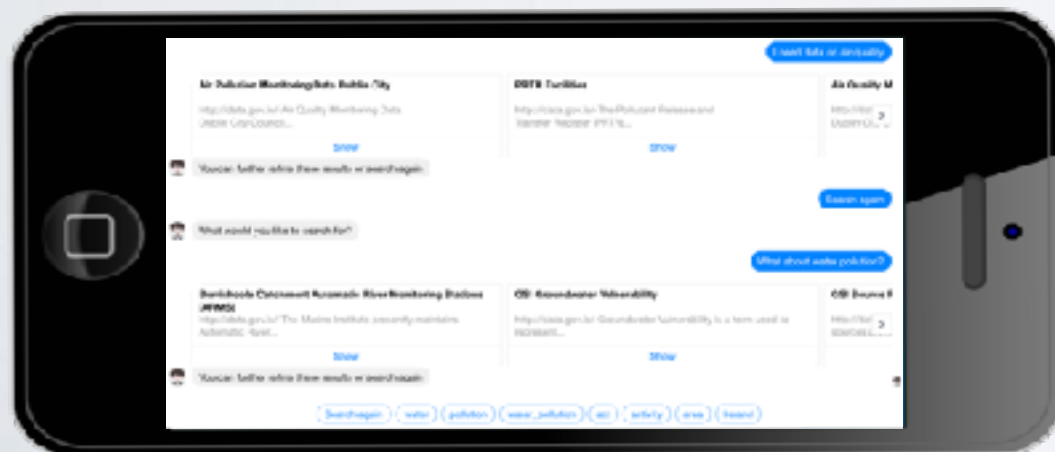
Our Solution

Open Data Assistant

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



Demo I



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?

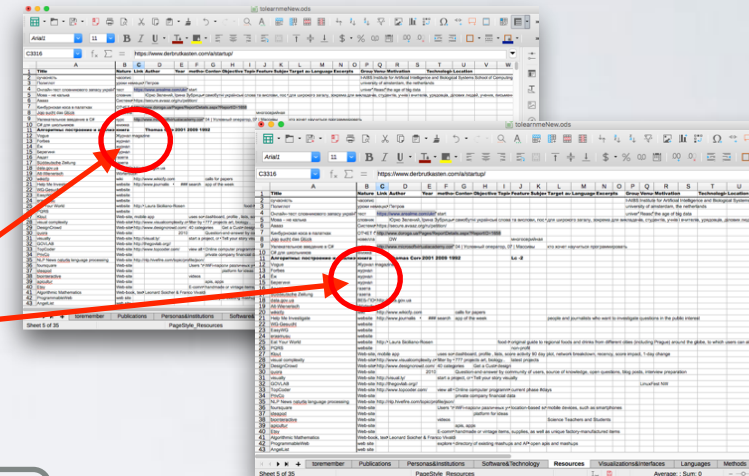
Where did I save this table?
What was that SQL command?



Our Customers: Our Solution



@Michi 25,670 EUR
200 stk.

A screenshot of a Microsoft Dynamics 365 interface. It shows a list of items with columns for Name, Quantity, and Price. Two red circles are drawn on the screen, one around a row in the list and another around a value in the Price column. Red arrows point from the text in the speech bubble to these circles.

@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!