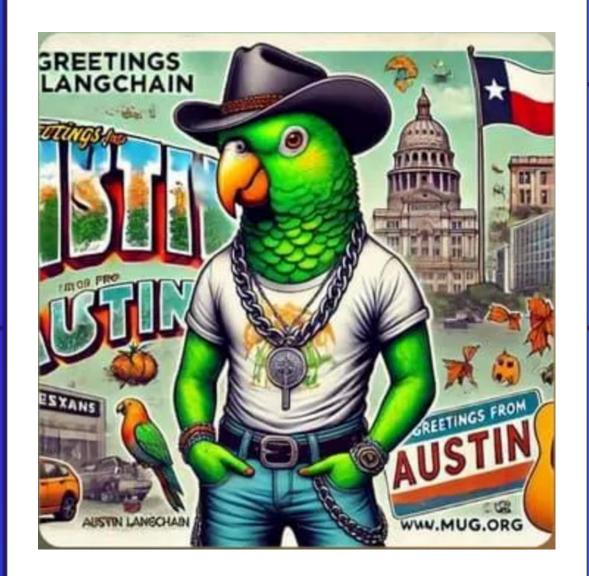


# Interactive Analytics: Bringing Tableau Data to Life with Langchain

Joseph Fluckiger Principal Software Engineer at Tableau



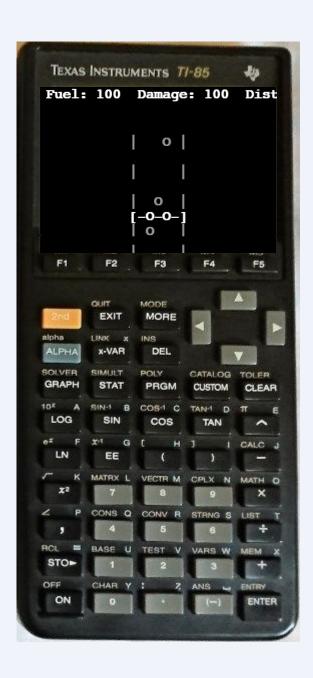


### About Me - Joseph Fluckiger





- Work: Principal Software Engineer @ Tableau (Salesforce)
- Background: Software, Devops, Al
- FOSS: Python, Machine Learning, Life Sciences, Cloud Devops
- First Gaming Platform: TI-85 Calculator
- Socials:
  - https://www.linkedin.com/in/josephflu
  - https://github.com/josephflu
  - https://josephfluckiger.blogspot.com



### Programming Evolution



Traditional Programming: Data + Rules = Answers

**Machine learning:** Data + Answers = Rules

Generative AI: Rules (Models) + Scale = Intelligence

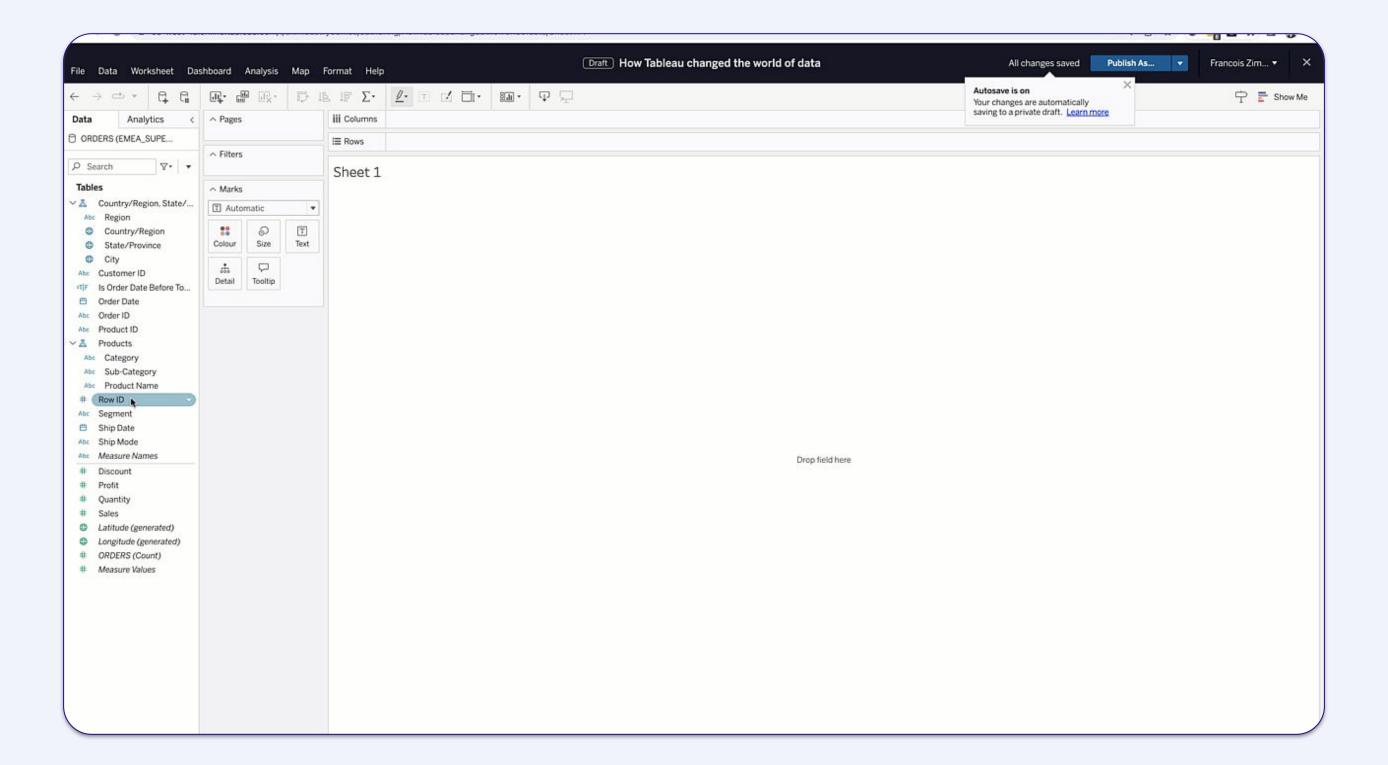
LangChain: Intelligence + Tools = Autonomous Agents 🚀



#### Tableau is Famous for its Ease of Use

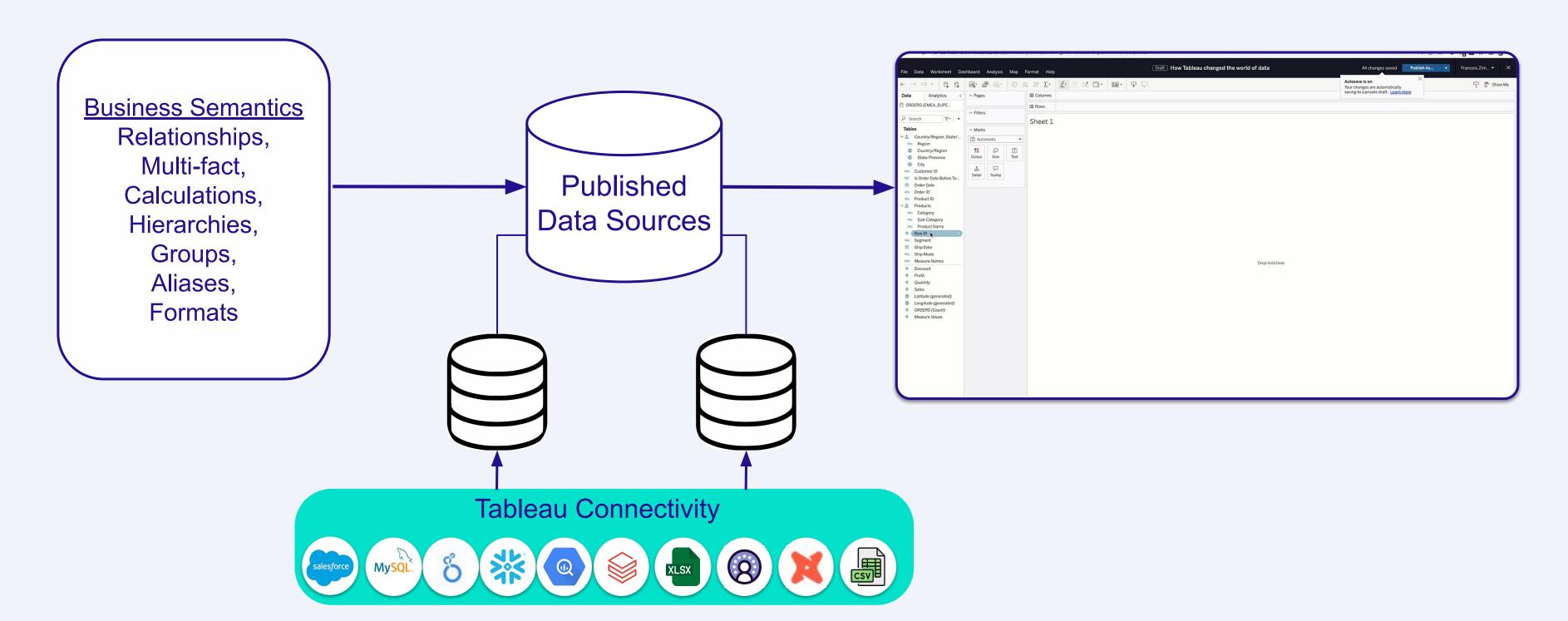


Empowering organizations of all sizes to learn insights from their data



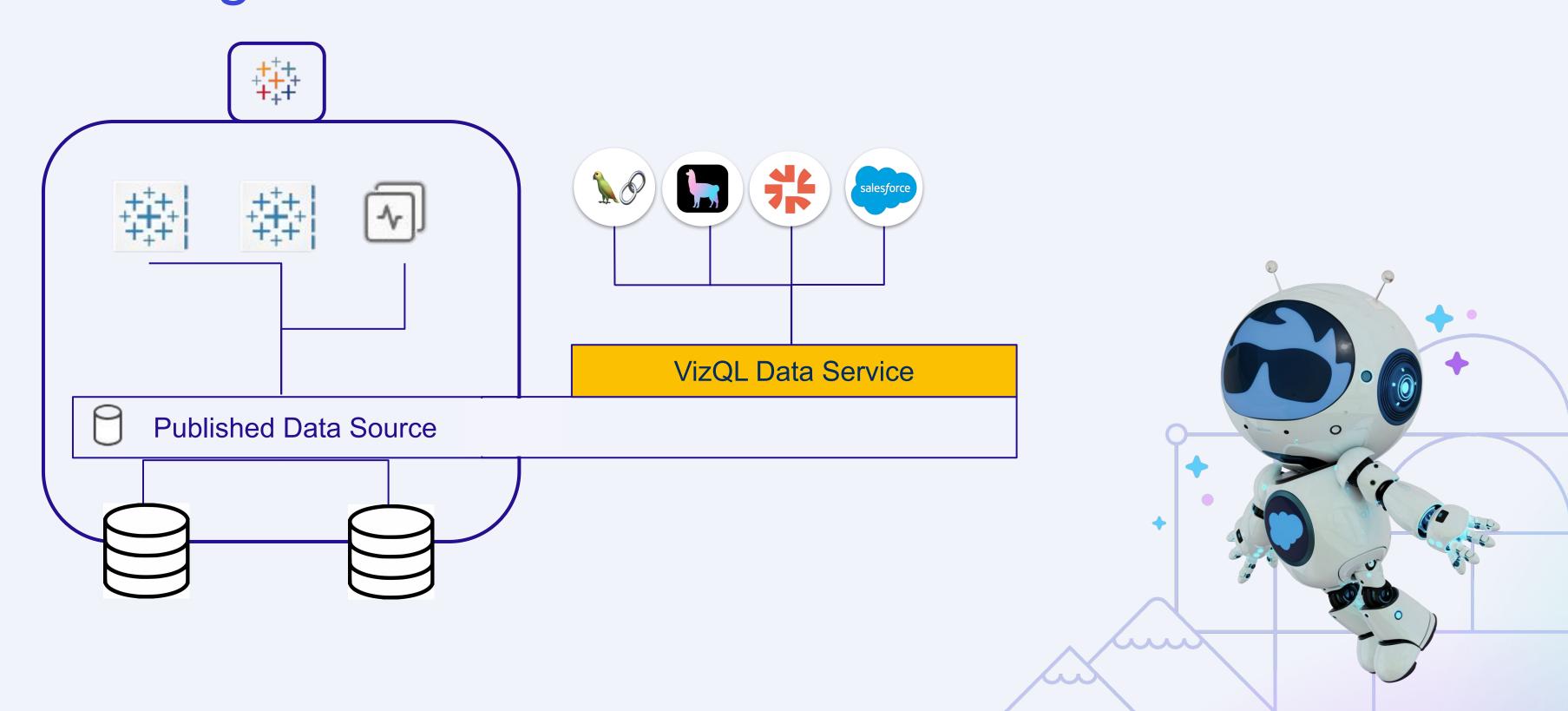
#### ++++ ++++

# Historically, Semantic Modeling in Tableau was only in Service of Visual Exploration



## New VizQL Service enables powerful workflows with LangChain





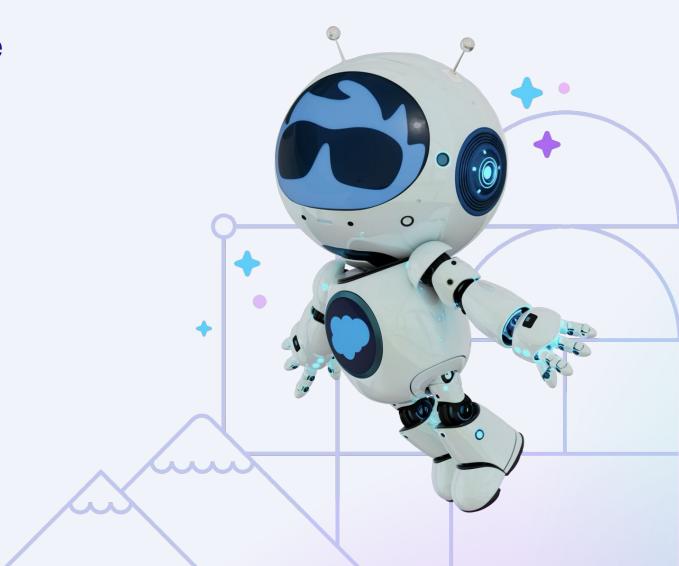
#### What is VizQL Data Service?



- A new Tableau service that sits alongside our existing REST services
- Accessed via HTTP and uses JSON as the content type
- Uses standard Tableau Authentication
- Two primary endpoints

Read Metadata - to get information about a Published Datasource

Query Datasource - to send a query to a Published Datasource



### Langchain Tableau Package



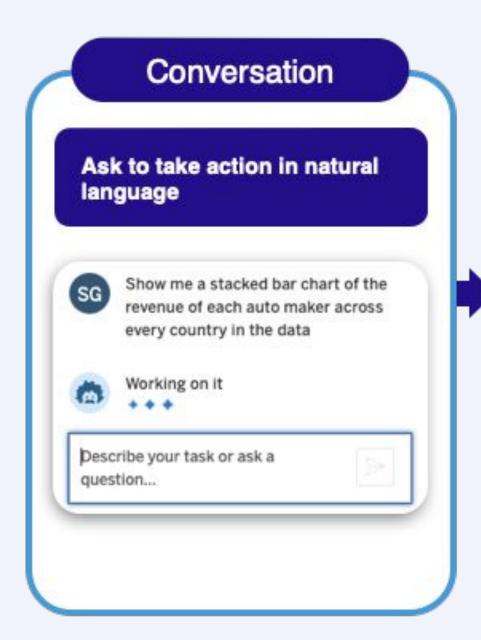
https://github.com/Tab-SE/tableau\_langchain

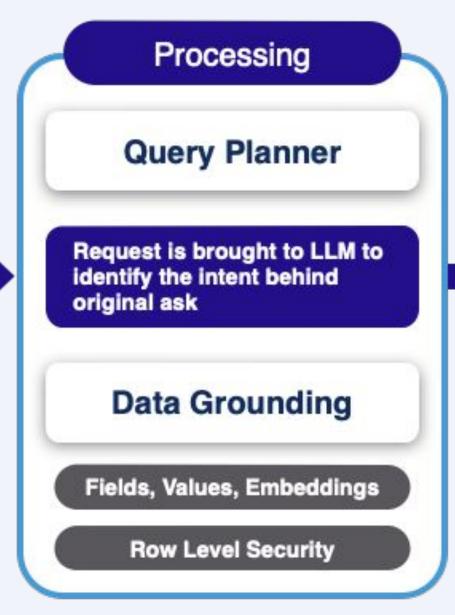
pip install langchain-tableau

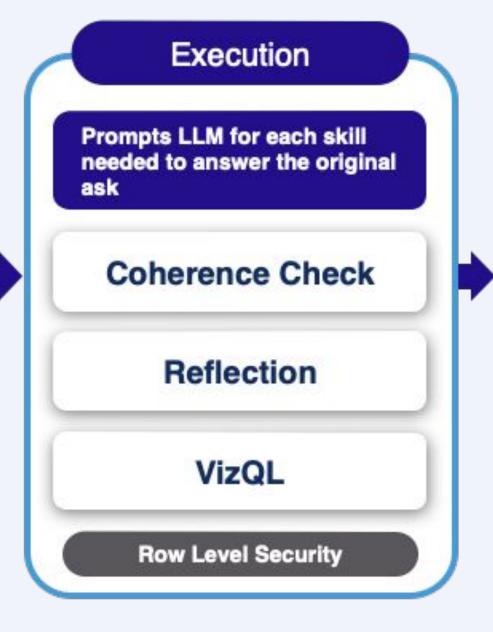


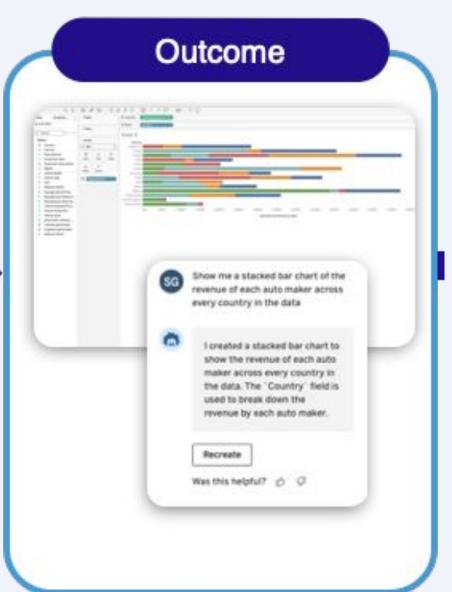
### How Tableau Langchain Works













# Demo