

Quick poll

What's your Tableau expertise?

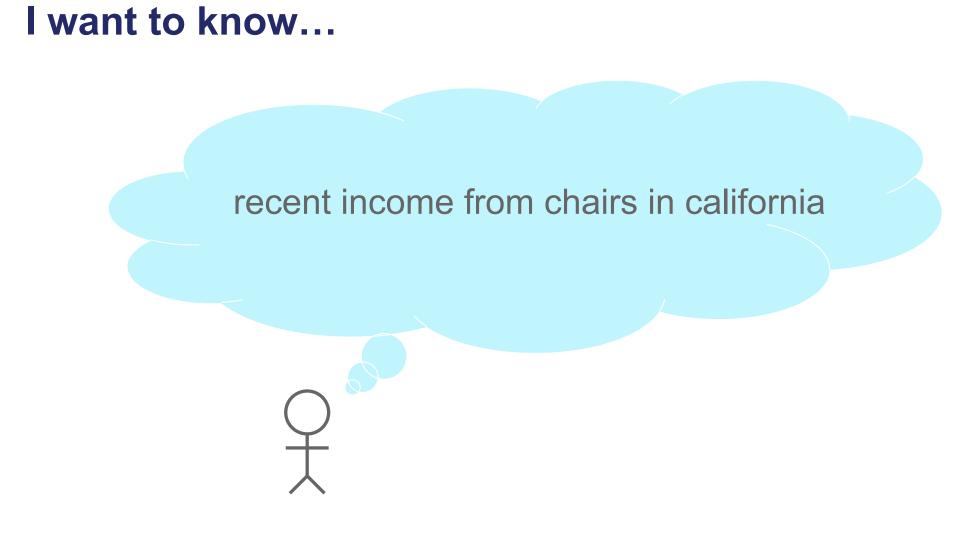
New to Tableau

Casual business user

Analyst

Server admin

People who know the data should ask the questions



Intelligent Query Understanding

Ambiguity resolution and semantic understanding

QUERY

recent income from chairs in California

RESULT

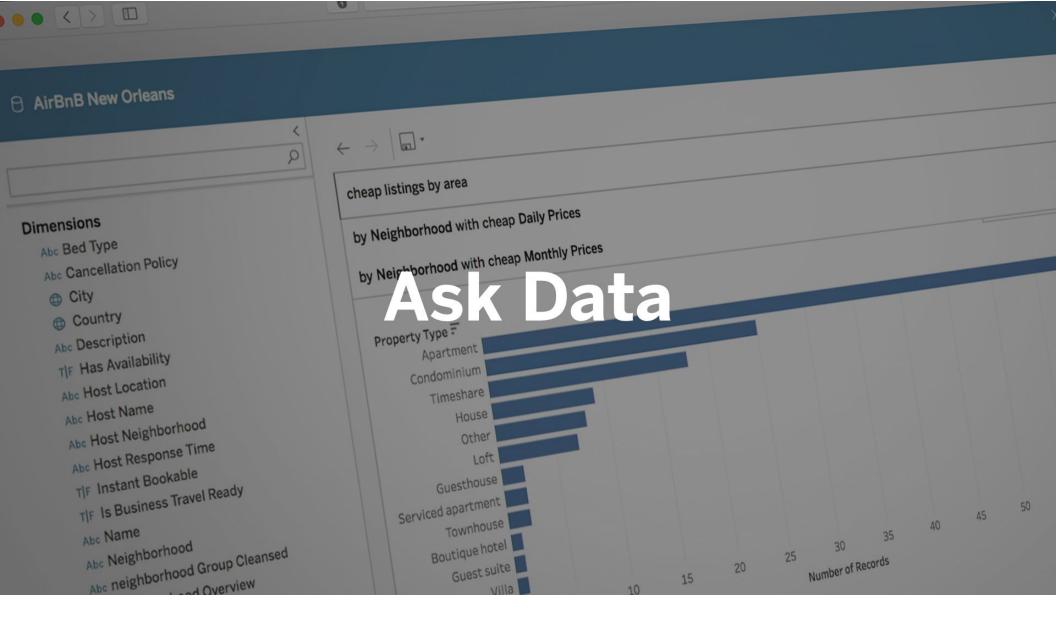
sum of **Sales** filter **Product Sub-Category** to Chairs

State in California

Order Date in the last 3 weeks

Combine methodologies from linguistic research with statistics and trained data models

Vague	Synonym
Predicates	Resolution
Value Indexing	Semantic Knowledge



Agenda

- Getting started with natural language in Tableau Analytics using natural language Intelligent experiences to explore data
- **Best practices**

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Getting started with natural language in Tableau

- **Analytics using natural language**
- Intelligent experiences to explore data
- **Best practices**

Demo: Easy to get started



Enriching Data Model

Global semantic enrichment

- Geocoding e.g. countries, states
- Data types e.g. date, time
- Statistics e.g. mean, median

Enriching Data Model

Add field descriptions

Transport

Transport of Air, Land, or Sea refer to the point of entry. Land entries include all ports for rail and road.

Bring your own synonyms

visitor /vɪzɪtə/ *noun* a person visiting someone or somewhere *synonym* tourist, guest, noncitizen...

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Q&A

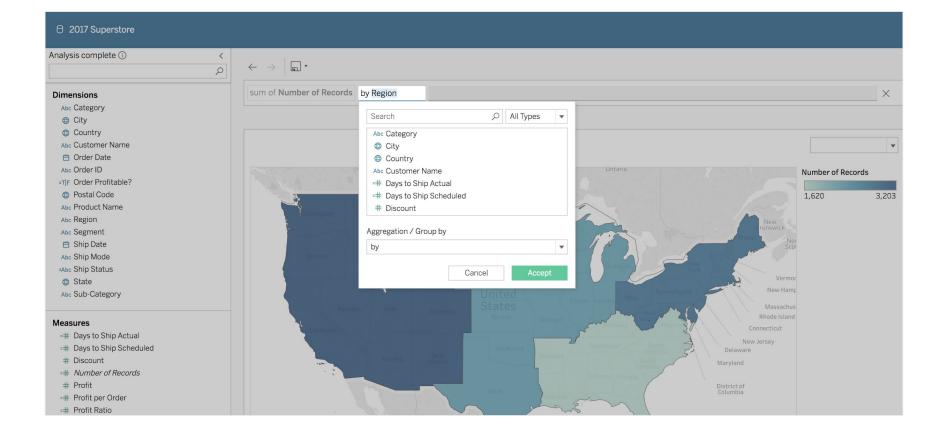
Analytical Capabilities in Ask Data

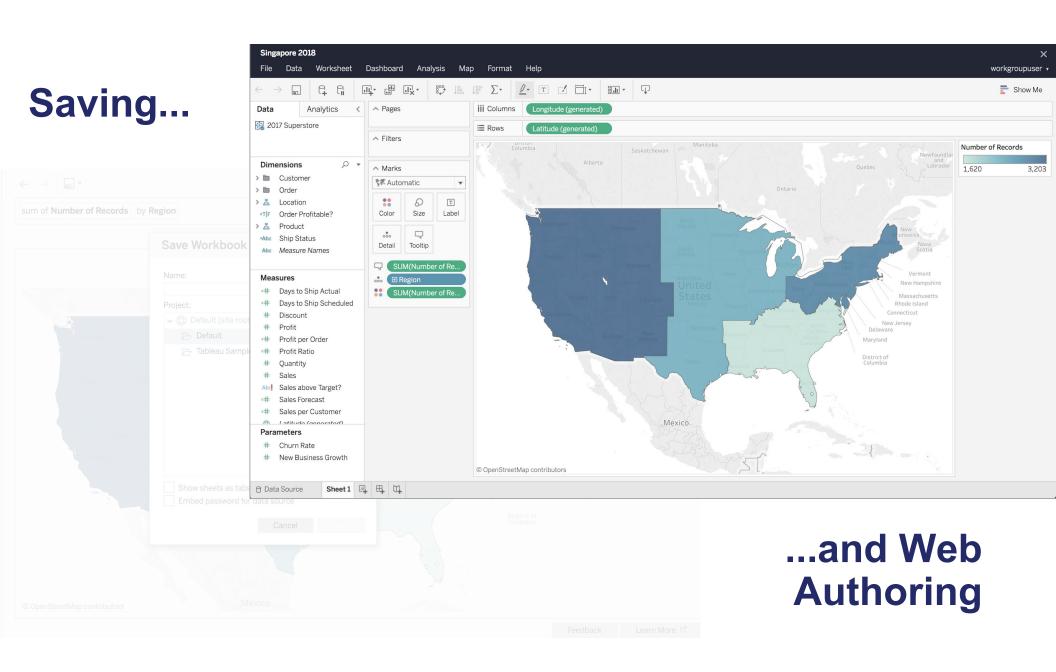
Aggregations	" How many vineyards"
Grouping	"How many vineyards by country "
Filtering	"Avg price by country and the price > \$50 "
Limits	"Top 50 vineyards by avg price"
Sorting	"Top 50 vineyards by avg price sort alphabetically "

Demo: Analytical Capabilities



Filter Action





Agenda

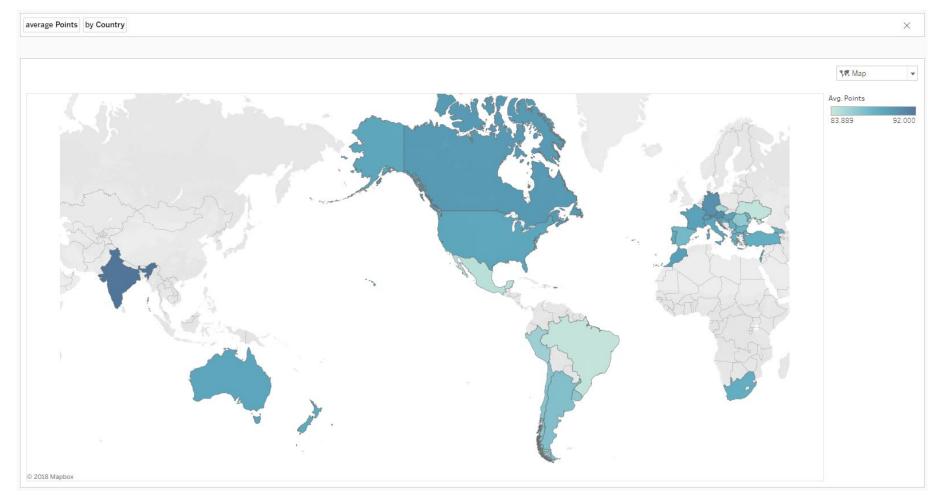
Getting started with natural language in Tableau

Analytics using natural language

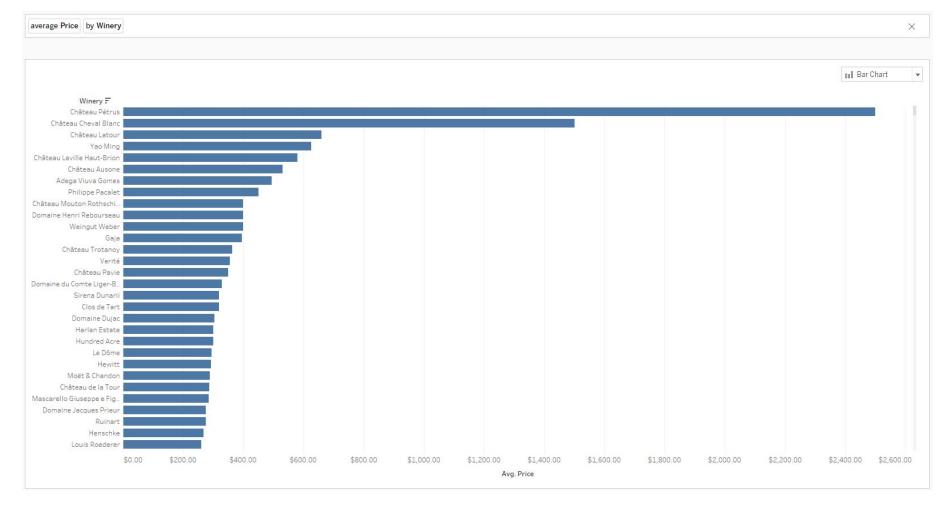
Intelligent experiences to explore data

Best practices

Smart Visualization Selection



Default Sort Order

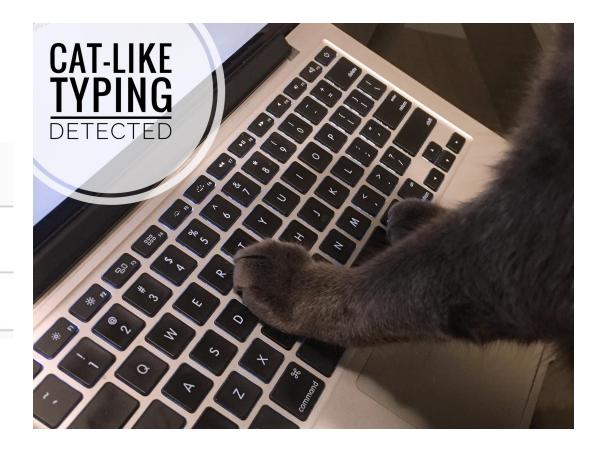


Misspelling

Ask a question about wines

avg priec vareety

average Price by Variety



Indexed Values

Ask a question about wines

california

County in California

Province in California

Underspecified Questions

Ask a question about wines

wine prices over time

sum of Price by Variety and by Vintage's year

by Vintage's year, top Variety by sum of Price

Advanced Concepts

Ask a question about wines

What is the most expensive variety

top Variety by most expensive Price

most expensive Price by Variety

Ask a question about wines

Who is the most popular taster

sort Taster Name in descending order by sum of Number of Records

sort Taster Twitter Handle in descending order by sum of Number of Records

Agenda

Smart Analytics Journey

Getting started with natural language in Tableau

Analytics using natural language

Intelligent experiences to explore data

Best practices

Best Practices

Anticipate types of questions

- Data shaping and joining
- Create calculated fields

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Simplify data source

- Remove unnecessary data
- Use data extract to improve performance

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Field properties

- Use unique and meaningful names
- Set data type, default aggregation and default format
- Add synonyms and field aliases

Available in 2019.1 Beta

Platforms





Licenses

- Creators
- Explorers
- Interactors

Summary

- •Easy to use
- Powerful analytical capabilities
- •Smart interpretations and experience

Ask Data in 2019.1 Beta!

Thank you!