Introduction to Tableau Desktop

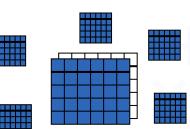
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Databases: A Success Story

- 1960s: Many approaches
 - Niche applications
 - High costs
- 1970s: Relational databases emerge as a standard
 - Rows of data organized into normalized tables
 - High-level query language (SQL)
 - Support parallel, transactional queries



1980s: Widespread adoption of OLTP technology







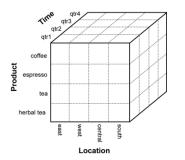




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Databases: A Success Story

- 1990s: Data warehousing enables analytic reporting
 - Dimensional modeling and star schemas
 - Multidimensional cubes & MDX



- 2000s: Ad hoc queries become mainstream
 - Data warehouse appliances
 - Column stores
 - In-memory databases

Visual Interfaces: Another Success

• 1981: Xerox Star

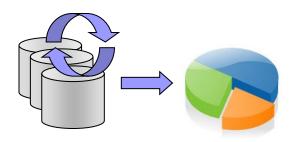


Unified

Need to be able to change both the data and the view:

Traditional Reporting Tools

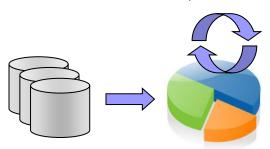
Query many times and then generate a summary graph.



versus

Traditional Visualization Tools

Query once and then iterate on the presentation of the data.



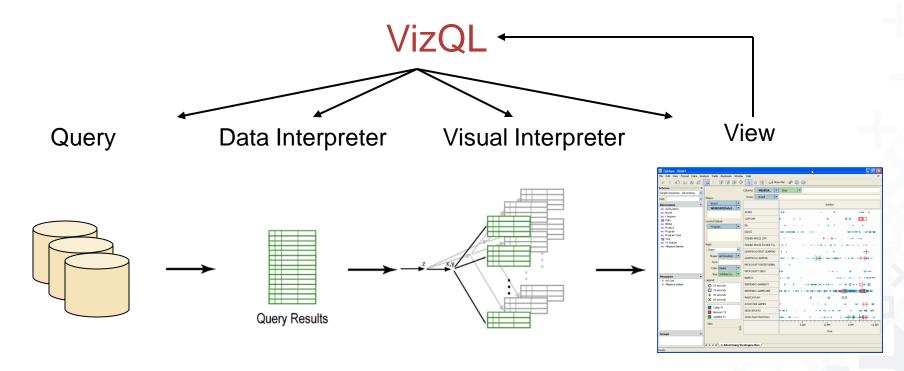
Visual Analysis

Iteratively change both to find the perfect view.



VizQL: Specifies Queries and Views

- Compiles into multiple query languages
- Generates many view types

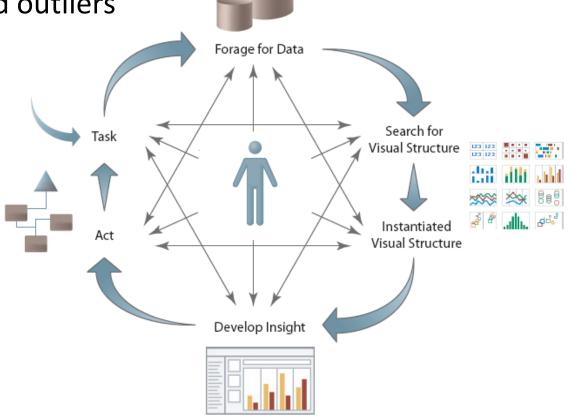


Supports an intuitive "drag and drop" interface

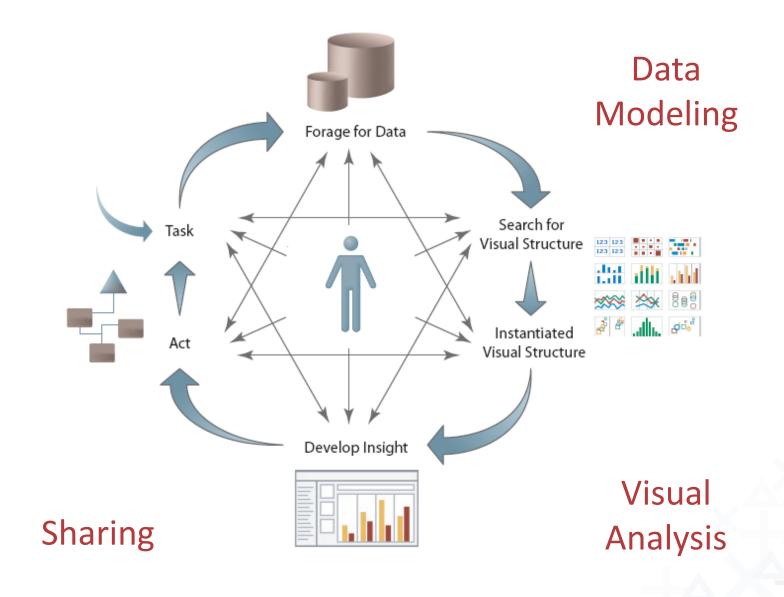
Cycle of Visual Analysis

An unpredictable and cyclical process of question-and-answer involving many tasks:

- Discovering structure
- Finding patterns and outliers
- Deriving causal relationships
- etc.



The Cycle of Visual Analysis



Typical Data

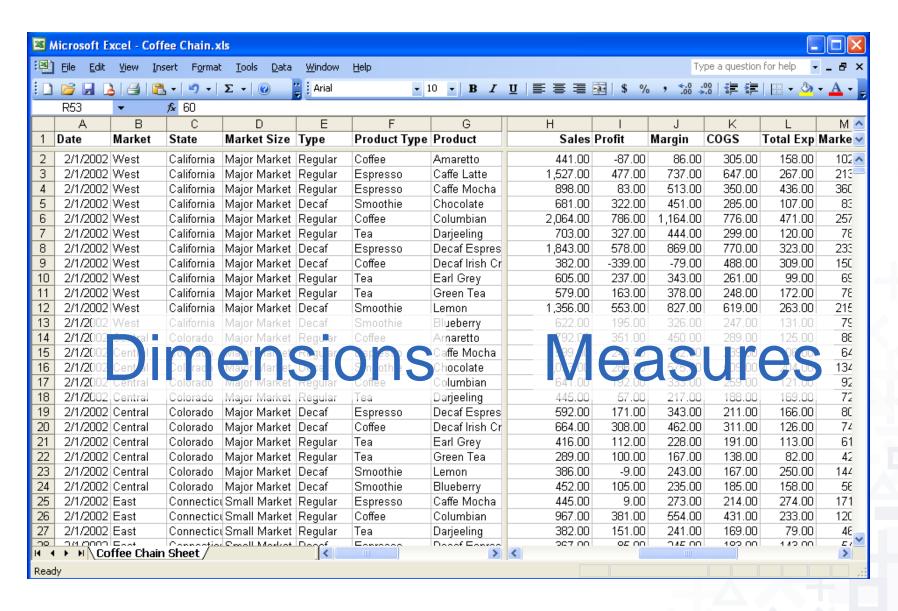
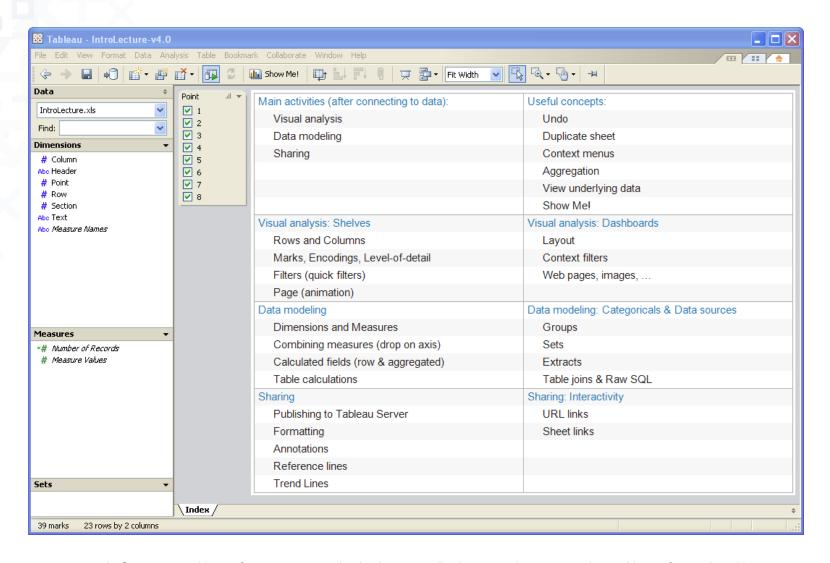


Tableau Demo



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