

Datafor®

data visualization and analysis

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Agenda



- ✓ Overview
- Features

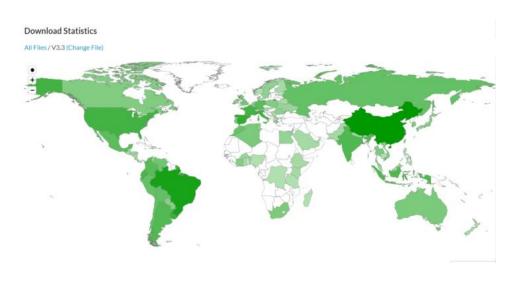
Datafor



Datafor is a self-service BI tool that offers intuitive data visualization and analysis, empowering users to explore, analyze, and make informed decisions efficiently.

- Powerful analytics for various data types.
- ✓ Easy-to-use reports and dashboards.
- ✓ Self-service analytics for non-tech users.
- Real-time monitoring of business operations.
- Mobile access for data-driven decisions.
- Seamless integration with other applications.

used by users from more than 56 countries



Total analytic and visualization solution



Access data Big data Relational Musque NoSQL mongo DB. File others ClickHouse TIDB DORIS influxdb snowflake

Prepare data

Analyze and Visualize data

Share insights

- visual modelling
- star/snowflake schema
- data dictionary
- calculated formula
- grouping and aggregation
- role-based data visibility
- MDX support

- Exploratory analysis
- 100+ visual components
- Dashboard, analysis, map, report, 3d model
- drill down, roll up, slicing, filtering, drill-through
- auto-refresh

- responsive design
- automatically adapt to all devices
- export image/excel/csv/pdf
- · mail subscription
- hyperlink for sharing
- Iframe/div embed
- wechat/dingding support







System Administration	Integration
Security	Scalability

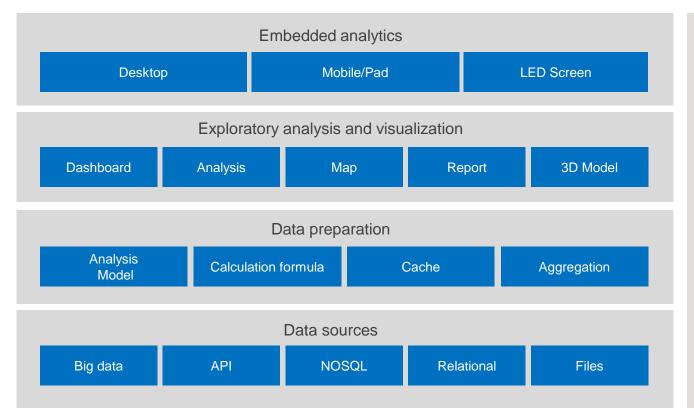
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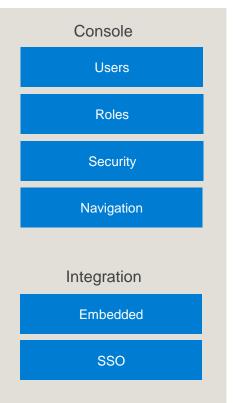


- Overview
- ✓ Features

The architecture

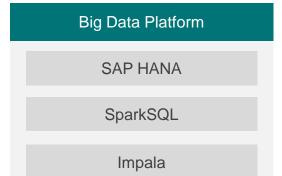


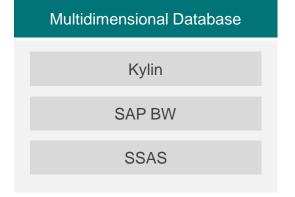


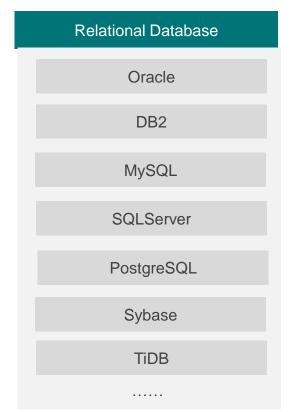


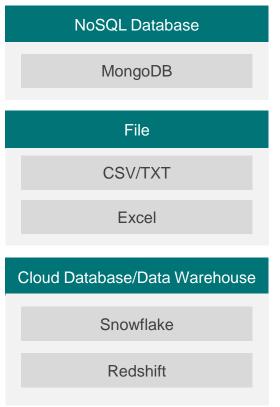
Comprehensive data source access







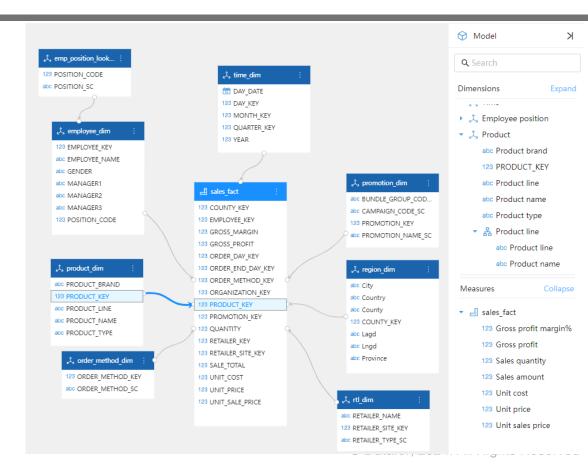




Effortless intuitive modeling

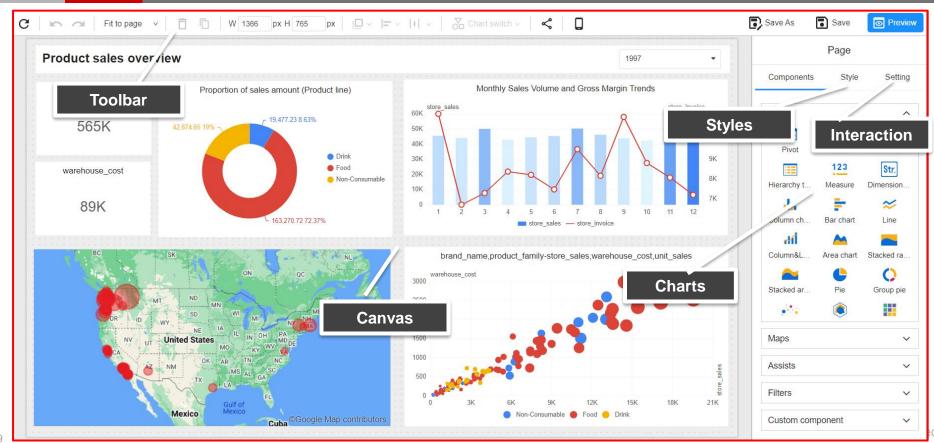


- Create multi-dimensional models in a few clicks
- Define columns and hierarchies in business terms
- Support complicated models (star, snowflake, multiple fact tables)
- Support member formatting, calculated columns, and calculated metrics
- Off-the-shelf formulas to create complex measures



WYSIWYG Designer





Versatile Chart Types to Choose from





Multi-dimensional pivot table





- Multi-dimensional data visualization.
- Summarizes data dynamically, including totals, averages, percentages, and more.
- Wide range of formatting choices, including text styles, colors, data bars, and more.
- Interacts with other visualization components.
 Filtering, sorting, and drilling down operations within the pivot table.
- Sub-second rendering and smooth interactions with millions of data rows
- Exports to Excel and csv files

Visualize geospatial data

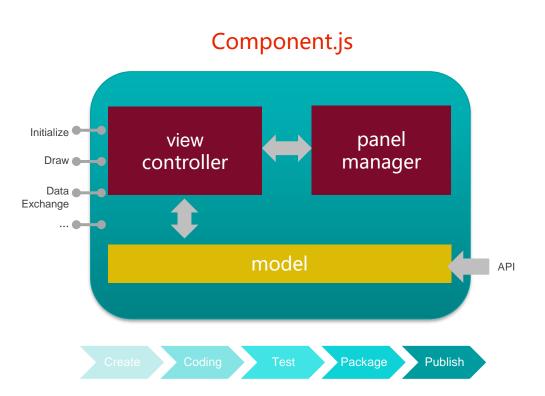


- GIS map services: Includes Mapbox, Google Maps, Amap, OpenStreetMap, and more.
- WebGL: fast 3D rendering delivers intuitive, realistic, and comprehensive geographical analysis.
- Interactivity: supports interactions including zooming, panning, filtering, and more.
- Built-in Geocoding: convert addresses into latitude and longitude coordinates.
- point map, proportional symbol map, cluster map, choropleth map, heat map



Easy-to-extend Visualization Components



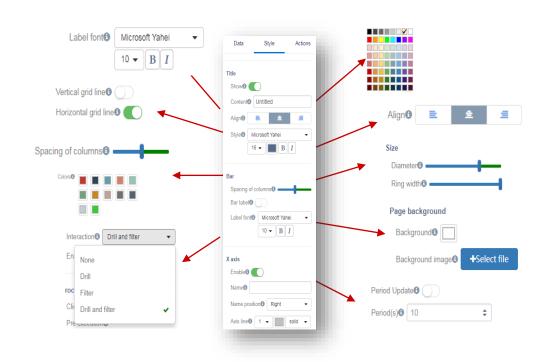


- Flexibility: Introduce third-party chart libraries such as D3.js, Chart.js, etc., to meet more complex data visualization needs.
- Specific Requirements: Create customized visualization components based on specific business scenarios and requirements.
- Scalability: Update and expand custom visualization components as needed.

Fully customizable visual components



- Rich options: Including color, font, size, spacing, labels, borders, etc.
- Real-time effect: Instantly preview the modified effects to intuitively understand the adjusted component style.
- Dynamic styles: Dynamically adjust styles based on different data conditions and analysis results.



Adapt page layouts to different screen sizes





- Adaptive layout: Fits various sizes and orientations of mobile devices.
- Mobile view editing: Edit layouts and content directly within the mobile device view.
- Real-time preview: Instantly preview the effects on different devices during the design process.

Exploratory Analysis



Drill-down Drill-through Pivot Slice Calculate Summarize Sort Group

Blend multiple sources for comprehensive analysis

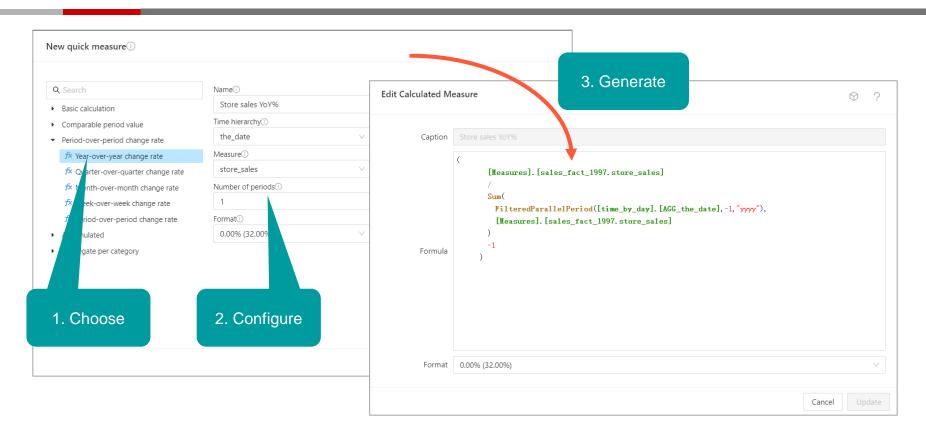


- Data integration in reporting level
- Without loading data into centralized data warehouse
- Slicing/filtering across dimension tables from different sources
- No extra table creation
- No SQL knowledge required



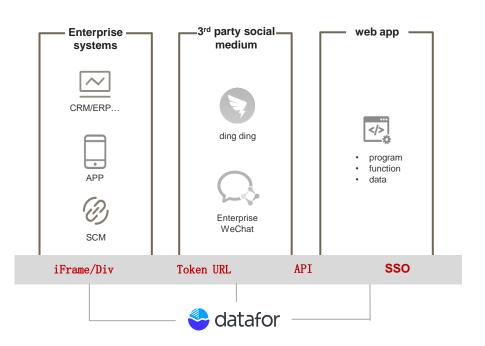
Complex measures without formula expertise





Embedded Analysis



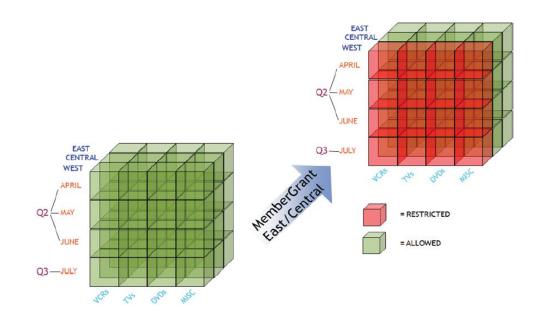


- Embedding: seamlessly integrate analytical capabilities into any application with iFrame/div, API, and SDK.
- Fully customization: ensure consistent appearance and layout.
- Security: multiple single sign-on solutions and JWT.
- Cloud ready: cloud deployment and hosting to reduce management costs and complexity.
- Compatibility: cross-platform compatibility, support Windows/Linux installation

Data visibility: role-based data access control

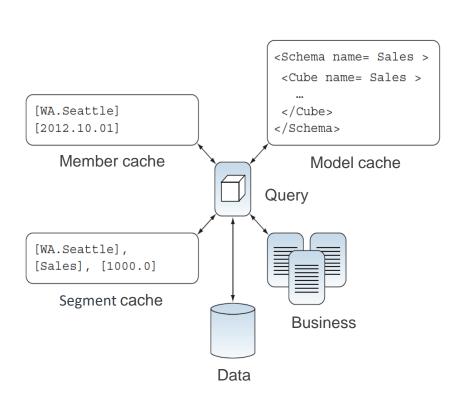


- Model: determine which models can be accessed/modified for each role.
- Dimension: controlled by table visibility for different roles
- Level and measure: controlled by column visibility for different roles
- Member: controlled by row visibility for different roles



Pre-aggregation and cache to speed up performance





Pre-aggregation:

 Automatically match and aggregate data based on queries to enhance query performance.

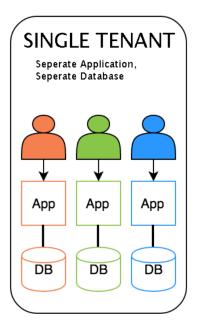
Caching:

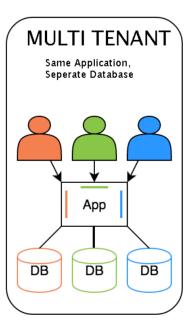
- Schema cache: keeps schemas in memory so that no re-read is required every time a cube is loaded.
- Member cache: stores member values in memory to reduce no. of reads from database
- Segment cache: stores previous calculated values in memory to reduce no. of re-read and re-calculations.

Multi-talent architecture for SaaS applications



- Allow developers and integrators to apply custom security and business rules to control data access.
- Content separation between talents, including data sources, folder structures, and artifacts.
- Different user interface styles for each tenant.

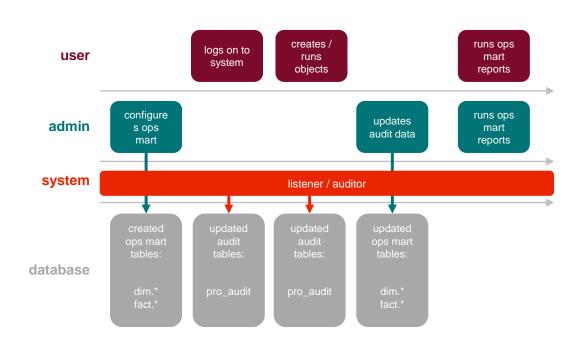




Comprehensive Logging and Audit



- Who has logged into the system?
- How many times have they logged in and how much time was spent?
- Which pages have been viewed?
- Which reports encountered errors?
- Which reports have the worst performance?
- Which reports are the most frequently used?



Features summary



Ease to use	Rich visual components	Flexible layout	Customizable
intuitive UI	• tables	fixed layout support	extensive styling options
drag and drop	• charts	layer support	animation
• WYSIWYG	• maps	 auto canvas size scaling 	customizable CSS
	• filters	 mobile Layout support 	
	 supplementary components 		
	extensible		
Exploratory analysis	Share and collaborate	Embed and Integrate	Extensive connectivity
• slicing	export data to Excel, CSV	iFrame/div embedding	• RDBMS
• drill down / roll-up / drill-through	export to PDF	API and SDK	big data
 aggregation 	export to image	message passing from external	cloud storage
 calculated measure 	 hyperlink for content sharing 	application	Restful API
 advanced filtering 	• email	JSON web token	JDBC driver isolation
 cross-models analysis 	 column and row visibility control 	• SSO	



THANK YOU

To learn more, please contact us: marketing@datafor.com.cn