

# HP Haven Apps Framework Visualizer



## Uncover critical insights from Big Data

It's time to get the "big picture" from the incredible volume and variety of data you manage. Big Data, the Internet of Things (IoT), and social media bring with them unprecedented opportunities to accelerate growth, reduce costs, and mitigate risks.

Organizations in private and public sectors alike are looking for ways to tap into the wealth of insights locked up in the massive and fast-growing amount of disparate data in diverse formats.

But barriers to comprehensive data access, holistic analysis, and user productivity can significantly compromise the ROI of most Big Data efforts. HP Haven Apps Framework Visualizer allows easy data visualization and data exploration by enabling you to rapidly customize a highly intuitive user interface to support specific use cases. Its seamless integration to HP Haven—an industry-leading Big Data platform that connects to virtually any data source and powers advanced analytics of virtually any data type (database, social media, email, documents, sensors, video, image, audio, etc.)—can help you finally get valuable, actionable insights from Big Data.

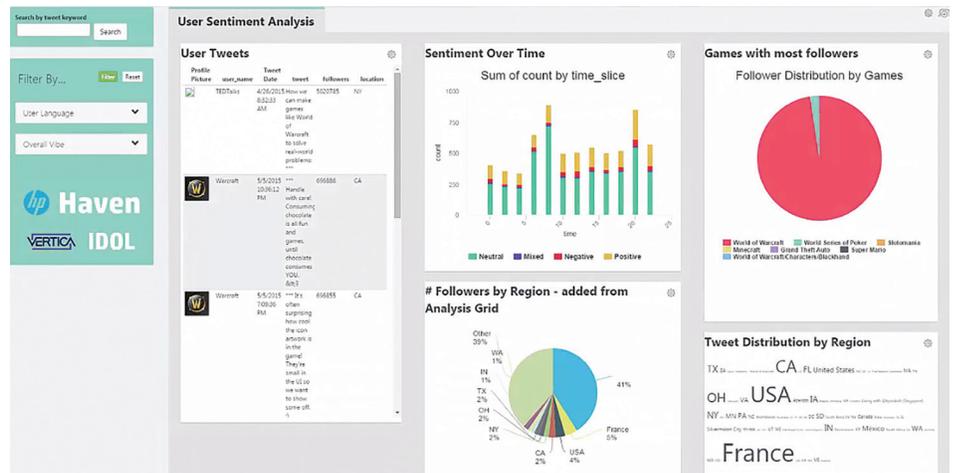
With HP Haven Apps Framework Visualizer, self-service data analytics that truly tap into Big Data are now a reality. You no longer have to miss out on important pieces of the "information puzzle" that impact the speed and effectiveness of critical business decisions. Visualizer's flexibility and extensibility can bring the power of HP Haven to the fingertips of a diverse range of users from different industries. Together with HP Software Professional Services and authorized HP partners, you can accelerate deployment with use-case application templates, such as the one targeting "voice of customer," so that the implementation of your Big Data strategy becomes much easier.

## Elevate productivity to a new level

Visualizer enables you to quickly create and deploy solutions and applications for uncovering critical insights such as trends, patterns, and relationships. Complete with hundreds of pre-built elements and visual panels, the solution delivers a simple drag-and-drop process for creating dashboards, reports, and advanced data visualizations.

### Get intuitive self-service for business users

Visualizer offers a wide range of self-service analytic capabilities tailored to users' needs and roles. Business users have intuitive ways to interact and personalize dashboards and reports, select and analyze data from centrally managed and governed data sources, and create and share data visualizations and formatted output.



### Connect to any data source

Visualizer can connect to any data source, without the need to build complex data models or ETL. You can easily display insights from all your data—across multiple databases, applications, and cloud services. With support for write-backs and back-end process initiation, end users can update source systems in a managed and secure way.

### Rely on a fully customizable and extensible platform

Built for the Web with an open architecture, Visualizer provides unmatched flexibility to customize the look and feel of your applications and extend the functionality of the platform to meet custom requirements as they arise.

### Count on a highly embeddable architecture

With Visualizer, analytic content and capabilities are easily embedded and integrated with your existing applications or portals. Boost analytic adoption and provide a seamless user experience with the platform's superior security integration, white labeling, and workflow integration.

## Key features

### Lightweight Web architecture

- Pure Web-based reporting server
- Technology based on open Web standards: HTML, JavaScript, CSS, JSON, XML
- Deployed on Java platforms
- Available for installation on-premises, hosted at your facility, and cloud-ready: Amazon Web Services, Microsoft® Azure
- Supports standard browsers including Internet Explorer (version XX+), Firefox, Chrome, and Safari
- 32-bit and 62-bit versions available

### Rapid development of interactive visualizations

- Configuration of pre-built capabilities minimizes need for custom coding
- Assemble and configure interactive dashboards, reports, and self-service analysis
- HTML5 and JavaScript-based SVG charts and client-side interactive visualizations
- Advanced charting, heat maps, gauges, GIS maps, and other data visualizations
- Grouped, cross-tab reports with drill-down and drill-through
- Exporting to PDF, Excel, Word, CSV, HTML, and XML
- Process and workflows including email, schedules, alerts
- 508-compliant output

### Mobile ready

- Standard HTML5 output: build once and deploy to all
- Responsive UI optimizes use of mobile device screens
- Deploy independently of mobile OS and app stores

### Flexible security, customization, and integration

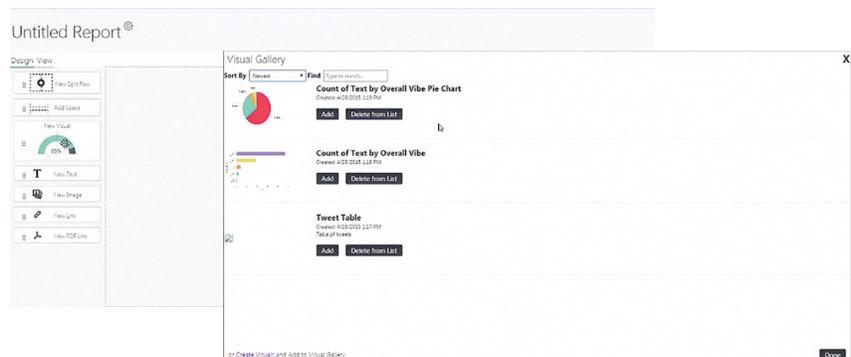
- Open Web architecture provides unmatched ability to integrate, customize, and extend functionality
- Highly flexible and customizable security options provide detailed security at every layer of your application: reports, charts, application functions, and data columns and rows
- Support for single sign-on from any security framework or application
- Themes provide built-in professional appearance, out of the box
- Customized styling, branding, and data visualizations with CSS and JavaScript (including JQuery)
- Custom plug-ins (.NET and Java) can execute business logic, implement proprietary algorithms, and support desired data handling procedures
- JavaScript embedding API

### Connectivity to any data source

- Connect directly to data sources, without requiring ETL, facilitating real-time reporting
- Out-of-the-box connectivity includes:
  - Unstructured text content—query IDOL via JSON output
  - Relational databases: SQL Server, Oracle, MySQL, PostgreSQL, DB2
  - Big Data: Amazon Redshift, HP Vertica, MongoDB, Hadoop (Cloudera, Hortonworks, MAPR)
  - Web Services
  - Flat files: Excel, CSV, XML
  - Plug-in model for proprietary data sources or for custom application security requirements
  - Blend and co-present data from multiple data sources in a single visualization, dashboard, or report
  - Database write-backs and back-end process and API calls enable end users to directly update source systems

### Self-service reporting

- Report management interface where users manage, schedule, and share dashboards, reports, and analyses
- Report layout editor for users to design and format print-ready reports with data visualizations
- Query builder for users to select the data sources they have access to, choose specific data for analysis, and feed this data into the analysis grid to create visualizations
- Metadata builder for IT and developers to define recognizable table and column names for users to query their data



### Sample analytics

Unstructured human data

- Free text search and contextual search
- Relevant concepts
- Sentiment analysis
- Trends/Patterns/Relationships
- Discovery of “unknown unknowns”

Structured and machine data (clickstreams, logs)

- Usage session analysis
- Time series
- Pattern and event detection
- SQL queries
- Distributed R-based analysis

Requirements and deployment

- Requires Vertica 7.x Express/Premium and/or IDOL 10.x Premium
- Java Web server and JDK 1.7 or later
- IIS not supported

### Deployment and hardware requirements—cores (virtual or physical cores):

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Up to 4 cores for up to 100 end users

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Up to 8 cores for up to 250 end users

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Up to 12 cores for up to 500 end users

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Up to 16 cores for up to 1,000 end users

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### Memory recommendations:

Minimum (GB):	Number of users:
8	10/25
16	100/250
32	500/1,000

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