



it's about time

# Streaming Analytics - Change the Game

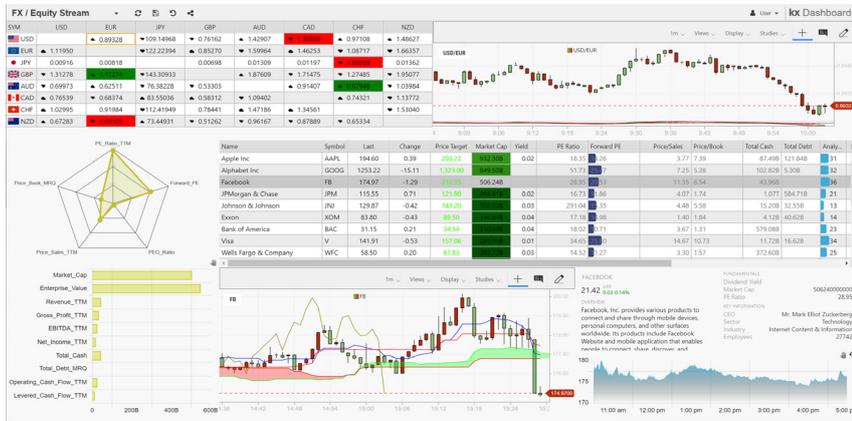
## Kx Dashboards

Visualize, Stream and Share Big Data Insights

Kx Dashboards provides a fast, accessible way to visualize data, making it easy to query, transform, share and present. Streaming brings data to life with kdb+ directly delivering low latency, high-frequency updates in real-time. Publish in a single click and share via social friendly links.

Take advantage of the extensive suite of tools with a comprehensive array of visual components including tables, charts, 3D graphs, maps and more. Explore data with the visual query graph: filter, join, aggregate, and drill in to gain insights with real-time OLAP. Built on an extensible system on the Open Web Platform, it's easy to add new or custom components. Bespoke solution components are also available for surveillance, sensors, geospatial, financial charting and many more.

Get started building dashboards in minutes with no programming experience required. Customization is simple, from ready-made themes to custom CSS and HTML via drag-and-drop components, flexible layout options, and simple to advanced design settings.



### High-Frequency Streaming

Direct integration with kdb+ enables hundreds of thousands of streaming records-per-second, with no degradation. Kx technology's ultra-low latency provides the speed necessary to deliver real-time data flow.

In addition, binary transfer provides a light touch system to express big data from end to end in a compact binary protocol. This not only minimizes latency and maximizes throughput but also reduces processing time for efficient servers.

Presentation in Kx Dashboards is highly optimized with hardware acceleration and virtual rendering to maintain the display of high-frequency updates in real-time.

Whether managing financial tick data, sensors, or real-world customer interactions, millions of records per second can be explored while still supporting a high level of performance for all users.

### At a Glance



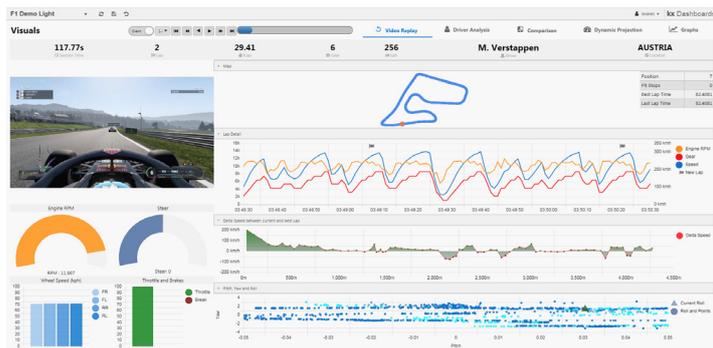
Kx Dashboards provides a fast, accessible way to visualize data. Streaming brings data to life and Kx Dashboards delivers efficient power for high-frequency, low latency updates in real-time

### The Kx Advantage

- Powering self-service business intelligence throughout your organization
- Streaming brings data to life with low latency, high-frequency updates in real-time
- No programming experience required, develop your first dashboard in minutes
- Comprehensive suite of rich visuals with OLAP tables, charts, maps and many more
- One-click publishing and social friendly link sharing
- Customize using ready-made themes, color palettes or even user styles and templates
- Open SDK, create your own component or embed custom visualizations in a few lines
- Extensible presentation layer allows users to embed Python, R and any other visual
- Throttling, conflation by time intervals and server caching that supports multiple users
- Enterprise security, audit, disaster recovery and entitlement frameworks
- Identity management integration via LDAP or SAML

## Rich Visualization

A wide range of interactive display options including bar/line/bubble charts (grouped and stacked), tree maps, candlestick charts, pie charts, radar charts, 3D charts and network graphs and many others. The WYSIWYG interface enables users to build dashboards in a familiar interactive environment to traditional desktop presentation software using drag-and-drop and point-and-click actions. Samples, docs and instructional videos are all provided to accelerate solution development.



## Data Exploration

Dashboards make data accessible; from simple data filters to advanced q analytics and the intuitive query builder. Build powerful queries from simple filter, join and update operations. Link operations, while previewing results at each step of the way to create an interactive query graph.

Slice-and-dice data by reordering columns across a breadcrumb component, or drill into results in a data grid with a simple row click. Explore data with zoom, pan, drilldown and ad-hoc data filters. Interactions are easy to create with actions to link selections, view ranges and input forms to query parameters.

## Enterprise Features

Full security and entitlement frameworks are available to meet your security, audit and regulatory requirements. Complete with disaster recovery, audit trail and enterprise-level scalability.

Issue management captures business processes in configurable workflows, where changes are tracked and automation is built-in via event processing using a comprehensive Alert Framework. Notifications can be delivered by e-mail and even direct to user's desktops. Real-time and historical server and process level monitoring information is captured and visualized to provide insight on hardware and software performance.

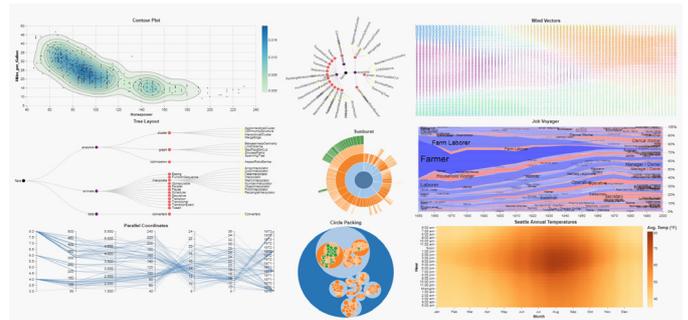
Identity management can be integrated via LDAP or SAML with configurable layers of permissions and security entitlements.

## What's new in Dashboards?

The latest release of Dashboards has now made it even easier to access your data. A visual query builder is the fastest way of getting data to your dashboard with no kdb+ knowledge required; select, filter, and join data sources with just a couple of mouse clicks.

User experience has been refined with an updated Template designer offering a common rich text editor to format data; be it in a tooltip, data column, or text box to help personalize your data insights. A video tutorial series is now available on [code.kx.com](http://code.kx.com) introducing beginners to core concepts and API documentation delivers the detail for technical users.

Big data with a light touch, real-time streaming with kdb+ Direct, and hardware-accelerated visuals maximize efficiency. All of this power can be delivered to users from a single vendor, single technology and single executable.



## Open and Extensible

Built on the Open Web Platform a new component or existing custom component can be added with regular HTML, Javascript and CSS. A framework agnostic API is provided along with a set of tiered tutorials for reference. A simple component can be added with just five lines of code!

Finally, embed your own components or even embed Dashboards in your solutions. Examples of integrations include ChartIQ, MapBox, OpenFin and Finsemble. Dashboards fit into and operate within a global ecosystem of innovation.

## About Kx

Kx is a division of First Derivatives, a global technology provider with more than 20 years of experience working with some of the world's largest finance, technology, automotive, utility, manufacturing and energy institutions. Kx technology, incorporating the kdb+ time-series database, is a leader in high-performance, inmemory computing, streaming analytics and operational intelligence.

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