



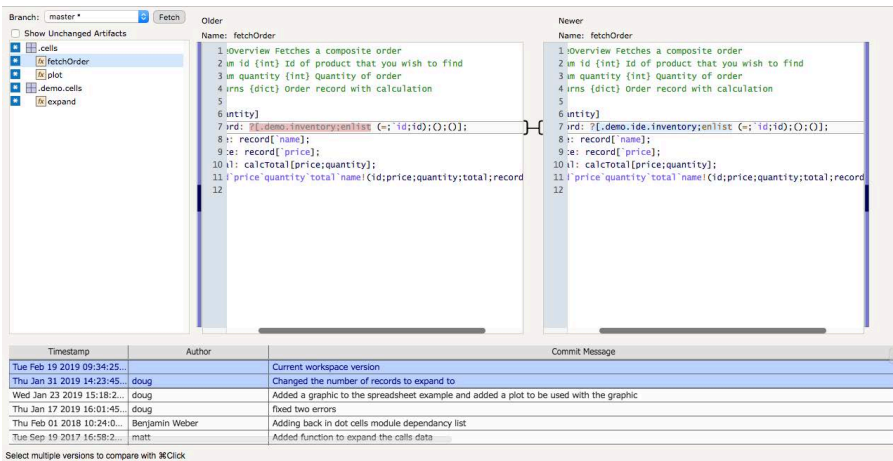
it's about time

# Kx Developer

## A full-featured, interactive development environment for kdb+

Kx Developer provides an interactive development environment that enables developers to create, edit, debug, test and version control kdb+ functions, and applications. It also provides powerful tools for importing and visualizing data to assist in solution development.

Built for big data exploration and development, Kx Developer offers Git version control, a powerful interactive code editor with built-in qLint and qDoc support, visualization capabilities, and a complete test-driven development framework.



KX Developer: Compare and Merge Tools

**Compare & Merge Tools** - Developers can effortlessly manage their application code using powerful compare and merge tools. The compare tool provides users with a complete version history and allows them to examine code differences at the function, spreadsheet cell, module, or repository level. Further functionality identifies additions, deletions, and changes as well as conflict resolution when merging.

**Grammar of Graphics Library** - Complete q library for building any kind of visualization with full support for multi-chart linking, data types, visual aesthetics, and interactive drilldown and data brushing. Using the library, the analyst can build any kind of data visualization or dashboard they want. Graphics built using the library can also be used in the complementary Kx Dashboards product.

**Command Line Utilities** - Command line script access to utilities for static code linting (QLint), documentation generation (QDoc), and testing (QCumber) allow developers to maintain a high degree of confidence in their code by running in Developer, interactively from a command line, or within automated build pipelines.

## At A Glance



Kx Developer leverages the power and performance of kdb+ to deliver an unparalleled Big Data development experience.

## Kx Advantages

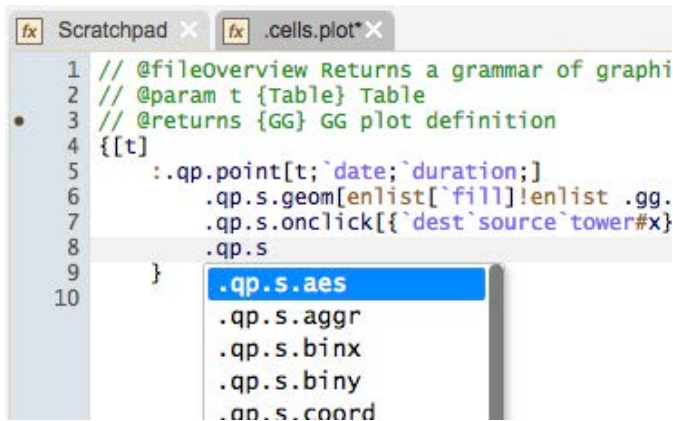
- An HTML5 user interface designed for interactive big data analysis
- Import or export CSV, JSON, ODBC/JDBC, XML, INI, and kdb+ file formats using convenience wizards
- Load, join and query datasets without programming using a point-and-click transformation and query tool
- Perform adhoc queries using an intuitive point-and-click interface with programming
- High-performance, real-time visualization of massive data sets in seconds using a wide range of pre-built visuals
- Build custom interactive visualizations using the grammar of graphics scripting language
- Shared repository makes collaborating on analysis projects fast and easy
- Comprehensive scripting language and tools lets developers create any kind of data analysis
- Open interfaces to a wide variety of programming languages (Java, C, C++, C#, R, Python, Perl, Scala, Excel, Fortran, ODBC/JDBC)

## Fine-Grained Git Version Control

Git-based version control for q functions, scripts, and modules. Users can work locally and check assets (e.g. functions, modules, data, graphics, spreadsheets, and transformations) in and out of a shared repository. Many standard Git functions are supported (e.g. push, pull, revert, clone, stash, branch, etc).

## Interactive q Script Editor with qLint and qDoc Support

Interactive editor with code completion, syntax highlighting, qLint support, qDoc support, and context-sensitive help.



## Code Profiler

Enables users to look at a variety of performance characteristics in functions or nested functions to identify code inefficiencies, bottlenecks, memory churn, and memory leaks.

## Quick Debugger

Quick debugger displays a visual stack trace for erroring lines of code enabling developers to diagnosis issues faster.

## Automated Test Support

The IDE provides complete support for automated test creation using a behavioral driven (BDD) testing framework similar to Cucumber and a property library similar to QuickCheck for automatically generating test cases. Code coverage is also supported.

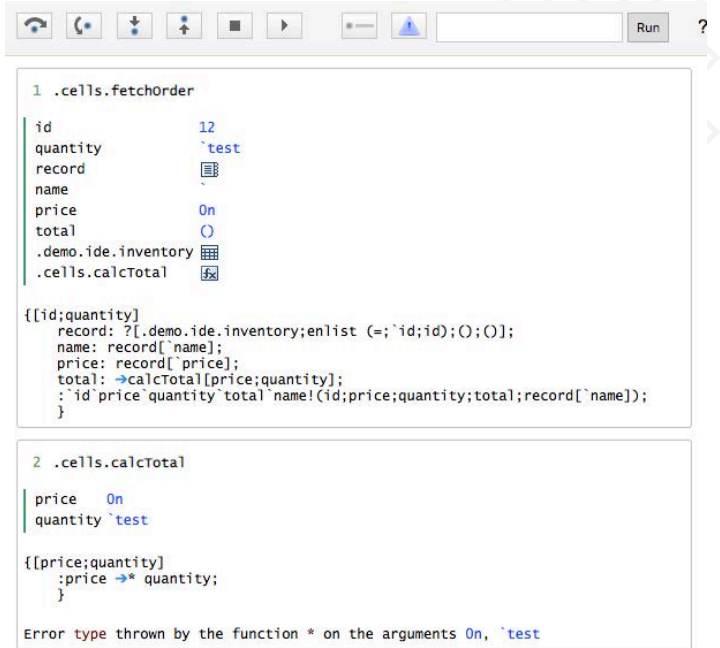
## About Kx

Kx has been the software leader for complex analytics on massive-scale streaming data for over two decades. The Kx technology is an established and trusted standard for trading, surveillance and research in financial services. Kx has emerged as the elegant, integrated solution to the analytic needs of the Pharma, Retail, Utilities and High Tech Manufacturing industries scaling effortlessly to the data challenges of the Internet of Things.

Kx is a division of First Derivatives plc. Listed on the London Stock Exchange [FDP:LN] First Derivatives is a specialist software and consulting organization with a uninterrupted track record of customer success and profitable growth since it was listed in 2002.

## Visual Inspector

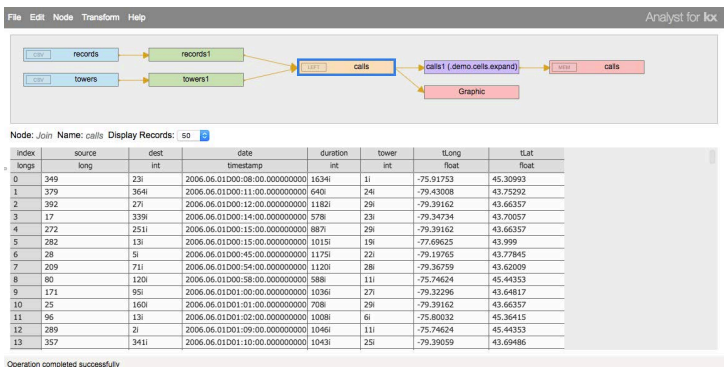
Import any kind of delimited data (e.g. CSV, TSV), JSON, XML, INI, ODBC, JDBC and any kdb+ dataset without programming using a point-and-click interface.



KX Developer: Quick Debugger

## Data Import & Export Wizards

Import any kind of delimited data (e.g. CSV, TSV), JSON, XML, INI, ODBC, JDBC and any kdb+ dataset without programming using a point-and-click interface.



Point & Click Query Filtering

## Kx in Action

### Visualize and Explore Data

- Kx Dashboards
- Kx Analyst

### Industry Solutions

- Finance
- Surveillance
- Algo
- Flow
- Pharma
- Utilities & IoT

### Control, Deploy & Monitor

- Control for Kx
- Stream for Kx
- Kx for Monitoring

### Head Office

3 Canal Quay,  
Newry,  
BT35 6BP  
N. Ireland  
+44 (0)283 025 2242

### London

Cannon Green Building,  
27 Bush Lane,  
London EC4R 0AA  
United Kingdom  
+44 (0)207 337 1210

### New York

45 Broadway,  
NY 10006  
USA  
+1 (212) 447-6700

### Singapore

One Raffles Quay,  
North Tower,  
#30-03,  
048583  
Singapore  
+65 6592 1960

### Sydney

22 Pitt Street,  
NSW 2000  
Australia  
+61 (02) 9236 5700

### Toronto

31 Lakeshore Road East,  
Mississauga, ON  
L5G 4V5,  
Canada  
+1 289-329-0636

### Tokyo

Sanno Park Tower,  
2-11-1 Nagata-cho,  
Chiyoda-ku,  
100-6162  
Japan  
+81 (0)36 205 3494