

Quotestream

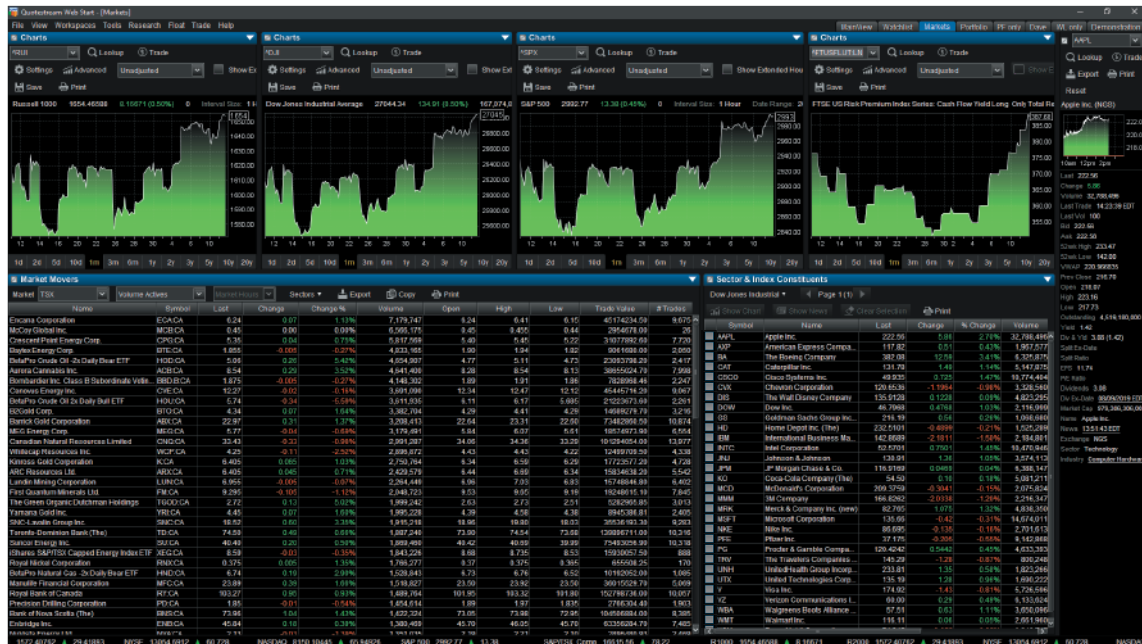
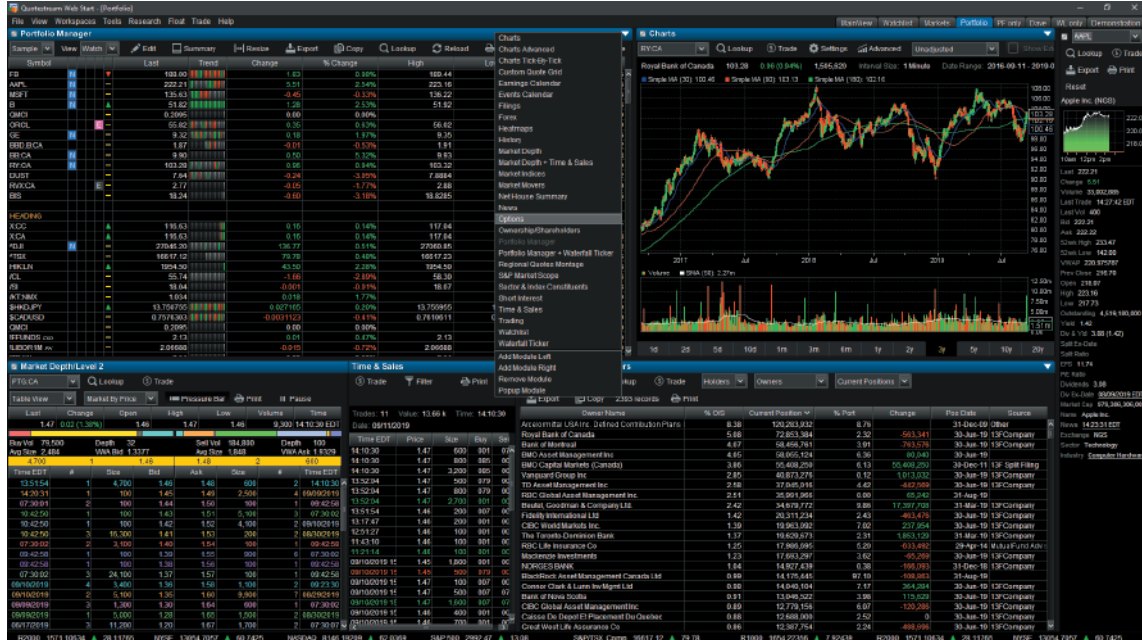
Professional Enterprise



quotemedia

Tick-by-tick Real-time Streaming Data

Quotestream Professional connects directly to QuoteMedia's geographically redundant data centers, providing low latency, tick-by-tick market data to desktop computers. With no software to install, and no servers to maintain, Quotestream is the most cost-effective solution for financial industry professionals.



User Configurable Workspaces

Quotestream Professional provides complete customization for the user. All workspaces can be easily customized and modified at any time. Easy tab navigation allows users to switch between workspaces with ease. Inside each workspace, one can add, remove or change modules to configure the layout for a personalized experience.

This screenshot displays a comprehensive trading workspace. At the top, a 'Market Depth Level 2' table shows bid and ask orders for various stocks. Below this, a 'Time & Sales' table provides a detailed view of recent transactions. On the right side, a 'Charts' panel features a candlestick chart for 'Niles Corporation Sponsored American Depositary Shares'. A 'News' panel at the bottom right displays a list of recent market news items. The interface includes a top navigation bar with tabs for 'Market', 'Workspaces', 'Tools', 'Research', 'Float', 'Trade', and 'Help'. A central toolbar offers various trading and analysis tools like 'L1', 'L2', 'L3', 'L4', 'L5', 'L6', 'L7', 'L8', 'L9', 'L10', 'L11', 'L12', 'L13', 'L14', 'L15', 'L16', 'L17', 'L18', 'L19', 'L20', 'L21', 'L22', 'L23', 'L24', 'L25', 'L26', 'L27', 'L28', 'L29', 'L30', 'L31', 'L32', 'L33', 'L34', 'L35', 'L36', 'L37', 'L38', 'L39', 'L40', 'L41', 'L42', 'L43', 'L44', 'L45', 'L46', 'L47', 'L48', 'L49', 'L50', 'L51', 'L52', 'L53', 'L54', 'L55', 'L56', 'L57', 'L58', 'L59', 'L60', 'L61', 'L62', 'L63', 'L64', 'L65', 'L66', 'L67', 'L68', 'L69', 'L70', 'L71', 'L72', 'L73', 'L74', 'L75', 'L76', 'L77', 'L78', 'L79', 'L80', 'L81', 'L82', 'L83', 'L84', 'L85', 'L86', 'L87', 'L88', 'L89', 'L90', 'L91', 'L92', 'L93', 'L94', 'L95', 'L96', 'L97', 'L98', 'L99', 'L100'.

This screenshot shows a workspace focused on options trading. The top section features an 'Options' table with columns for 'Call', 'Put', and 'Bull Put Spread'. Below this, a 'Market Depth Level 2' table is visible. On the right, a 'Charts' panel displays a candlestick chart for 'Royal Bank of Canada'. A 'News' panel at the bottom right shows a list of news items. The interface includes a top navigation bar with tabs for 'Market', 'Workspaces', 'Tools', 'Research', 'Float', 'Trade', and 'Help'. A central toolbar offers various trading and analysis tools like 'L1', 'L2', 'L3', 'L4', 'L5', 'L6', 'L7', 'L8', 'L9', 'L10', 'L11', 'L12', 'L13', 'L14', 'L15', 'L16', 'L17', 'L18', 'L19', 'L20', 'L21', 'L22', 'L23', 'L24', 'L25', 'L26', 'L27', 'L28', 'L29', 'L30', 'L31', 'L32', 'L33', 'L34', 'L35', 'L36', 'L37', 'L38', 'L39', 'L40', 'L41', 'L42', 'L43', 'L44', 'L45', 'L46', 'L47', 'L48', 'L49', 'L50', 'L51', 'L52', 'L53', 'L54', 'L55', 'L56', 'L57', 'L58', 'L59', 'L60', 'L61', 'L62', 'L63', 'L64', 'L65', 'L66', 'L67', 'L68', 'L69', 'L70', 'L71', 'L72', 'L73', 'L74', 'L75', 'L76', 'L77', 'L78', 'L79', 'L80', 'L81', 'L82', 'L83', 'L84', 'L85', 'L86', 'L87', 'L88', 'L89', 'L90', 'L91', 'L92', 'L93', 'L94', 'L95', 'L96', 'L97', 'L98', 'L99', 'L100'.

Multiple Monitors and Floating Windows

Quotestream Professional's Floating Modules feature allows you to pop up and freely move the modules of your choice, taking full advantage of multi-screen set-ups. All floating windows are resizable and fully configurable, with your floating layouts being automatically saved for you.



Streaming Watchlists

The Watchlist Module offers a quick view of configurable columns of symbols and data. Users can define how many sections to display, how many columns of data to display, and what data to display. The Watchlist also features headings to better organize symbol lists as well as exceptional sorting abilities. Intuitive drag-and-drop functionality re-orders symbols, with simple click navigation to add, move or access symbol-specific data and research.

The screenshot displays the Watchlist application interface. At the top, there is a menu bar with options like 'Watchlist', 'Manage', 'Add Section', 'Resize', 'Export', 'Copy', 'Lookup', 'Print', 'Customize', and 'Pause'. Below this is a table with columns for Symbol, Last, Change, % Change, Volume, 52wk High, Symbol, Last, Change, % Change, Volume, and 52wk High. The table lists various stock symbols such as NOK, TZA, RYCA, GMCI, HL, WFT, TSLA, TRCA, T, CHK, WVO, GMCI, ALF, SE, GD, GOLD, and CURRENCIES. A context menu is open over the first row (NOK), showing options like 'Add Column Before', 'Add Column After', 'Switch Column To...', 'Remove Column', 'New Column', 'Add New Section', 'Delete This Section', 'Move This Section', and 'Double Click Action'. The menu also includes a 'Watchlist Measures' section with options like 'Fractal Measure', 'P/E Ratio', 'Risk Measures', 'Alpha', 'Option Valuation Measures', 'R-Squared', 'Standard Deviation', 'Beta', '21d MA', '50d MA', and '200d MA'. The table data shows values for each column, such as NOK having a Last price of 6.92, a Change of 0.01, and a Volume of 11,863,662.

Streaming Real-time News and Historical News

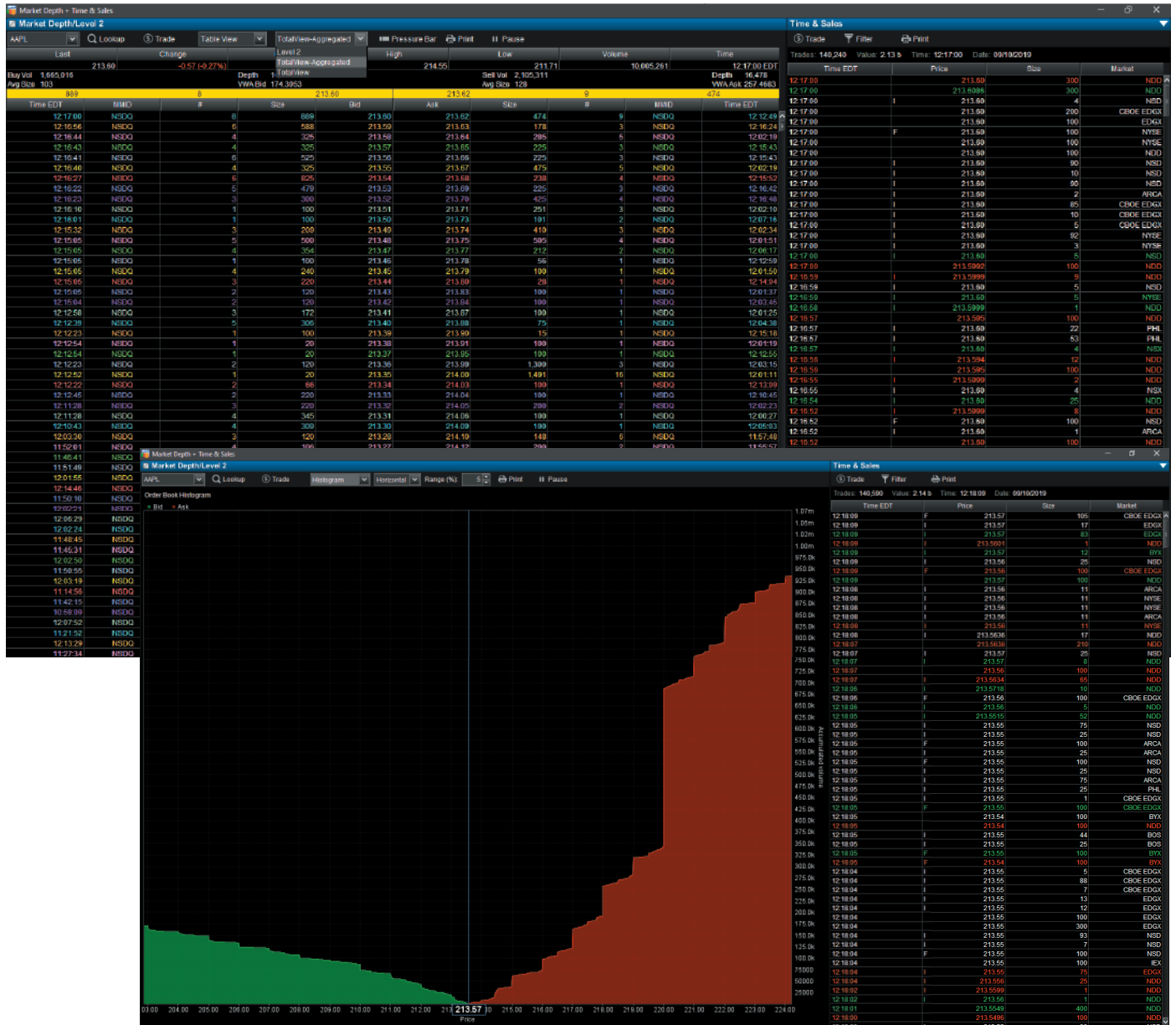
The streaming News Module provides access to a wealth of respected real-time news sources, such as Dow Jones News, Business Wire, PR Newswire, Globe Newswire The Fly and many more, as well as filings releases (SEDAR and SEC Filings). The News Module provides not only access to company-specific news, but also broad news access that encompasses portfolio-based, sector-based and topic-based news. The News Module also allows the user to look back in time to access historical news.

The News Story Reader provides the ability to print or copy/paste a story, and offers increased or decreased font size for easier reading. As well, quick access to related news articles, topics and symbols are featured with each story.

The screenshot displays a financial news application interface. At the top, there is a navigation bar with options like 'News', 'Loopup', 'Filter', 'Pause', 'Trade', 'Live', 'Add/Alert', and 'Print'. Below this is a table of news items with columns for Time EST, Source, Symbol, and News & Filings for All News. The table lists various news items, including 'Phillips 66 Partners AS 3% Yield With No DRB Moving Forward' and 'Jubilant Life Sciences announces the nomination of M. Syed Kozma as president general director of its oncology business'. Below the table, there is a search bar and a 'Research' section. The 'Research' section includes a 'Company Research' and 'Market Research' tab, with a search bar and a 'Loopup' button. Below the search bar, there is a 'Options' section with a 'Live' button and a 'Pause' button. The main content area displays a news article titled 'DJ Tech Giants Face A Tough New Regulator In The UK. Here's Why It Matters' by Jack Denton. The article discusses the UK government's plans to introduce a new, specialized regulator for digital markets, which is expected to introduce rules around user data and consumer choice. The article also mentions that the new regulator will be established in July 2021 and will have a mandate to introduce pre-competition interventions around user data, consumer choice, and could extend to breaking up businesses. The article concludes by stating that the creation of a new tech regulator with a mandate to target companies like Google and Facebook is a double-edged sword for big tech.

Market Depth / Level 2

The Market Depth / Level 2 module streams order book data for up-to-date information on market activity and Bid/Ask offers, and also includes a Level 2 pressure bar for an at-a-glance indication of the trend. The Market Depth Module provides market-specific customization of the display. For example, the Nasdaq with Open View and Total View offers access to various views including Level 2 (the top of the various market participant books), Total View (all orders individually displayed), and Total View-Aggregated (all orders from the Nasdaq market center book). For Canadian markets such as TSX, TSXV and others, and for UK markets, layouts encompass Market by Price, Market by Broker, and Market Book.



Market Depth / Level 2 + Time and Sales

The Market Depth / Level 2 + Time and Sales Module offers the same comprehensive Market Depth / Level 2 features, and adds dynamically updating Time and Sales into the same view as well.

The screenshot displays a software interface for 'Market Depth / Level 2 + Time & Sales'. The main window is divided into several sections:

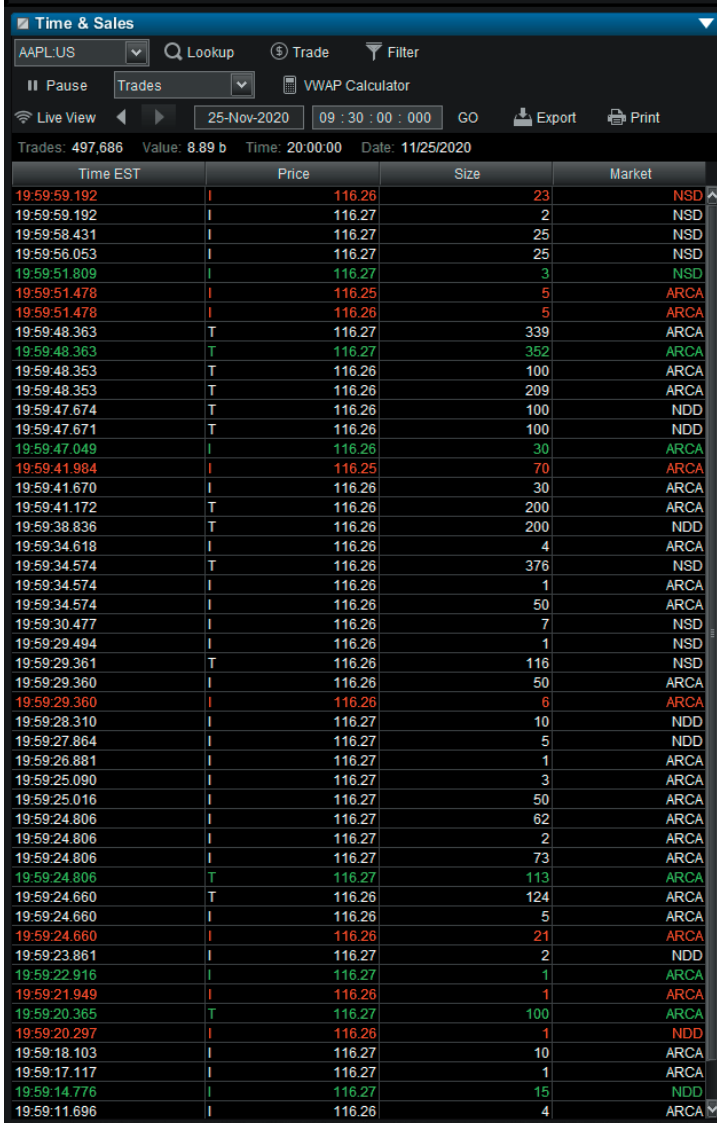
- Top Panel:** Includes 'Last' price (213.50), 'Change' (-0.05 (-0.23%)), 'Open' (213.80), 'High' (214.50), 'Low' (211.11), and 'Volume' (9,900,790).
- Market Depth Table:** A large table with columns for 'Time EDT', 'Bid', 'Ask', and 'Size'. It lists various market participants and their orders, such as MMD, BMS, and BNC.
- Time & Sales Panel:** Located on the right, it shows a list of trades with columns for 'Time EDT', 'Price', and 'Size'. It includes a 'Trades' count of 138,985 and a 'Value' of 2.43 b.
- Navigation and Controls:** Includes buttons for 'Trade', 'Filter', and 'Print'.

This screenshot shows a more detailed view of the 'Market Depth / Level 2 + Time & Sales' interface. It features a 'Time & Sales' window on the right side, which is currently active and displays a list of trades. The main window shows the market depth table with columns for 'Time EDT', 'Bid', 'Ask', and 'Size'. The 'Time & Sales' window includes columns for 'Time EDT', 'Price', and 'Size', and shows a 'Trades' count of 140,240 and a 'Value' of 2.13 b. The interface also includes a 'Last' price of 213.98 and a 'Change' of -0.07 (-0.32%).

Time and Sales

While a basic Time and Sales montage can be combined with the Market Depth / Level 2 module, the Time and Sales module is offered with various levels of access to tick-by-tick data for all trades and/or quotes.

The Time and Sales Module offers users the views including Trades, Trades & Quotes, and Trades & VWAP. Fields for Trades & Quotes include Number of Trades, Trade Value, as well as Time, Price, Size, Bid, Bid Size, Bid Exchange, Ask, Ask Size and Ask Exchange. Fields for Trades & VWAP include Cumulative VWAP, Volume, Number of Trades, Trade Value, as well as Time, Price, Size, Bid, Bid Size, Bid Exchange, Ask, Ask Size and Ask Exchange. Filters include Minimum Trade Size, Buyers, Sellers, and results can be set to Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also included.



The screenshot shows the 'Time & Sales' window for AAPL.US. The window includes a search bar with 'AAPL.US', a 'Lookup' button, and a 'Trade' button. Below the search bar, there are controls for 'Pause', 'Trades', and 'VWAP Calculator'. The window also displays 'Live View', '25-Nov-2020', '09:30:00:000', 'GO', 'Export', and 'Print' buttons. The main data area shows a table of trades with the following columns: Time EST, Price, Size, and Market. The table contains 497,686 trades with a total value of 8.89 b and a time of 20:00:00 on 11/25/2020. The trades are sorted by time, with the most recent trade at the top. The table shows a mix of trade types (I, T) and market participants (NSD, ARCA, NDD).

Time EST	Price	Size	Market
19:59:59.192	116.26	23	NSD
19:59:59.192	116.27	2	NSD
19:59:58.431	116.27	25	NSD
19:59:56.053	116.27	25	NSD
19:59:51.809	116.27	3	NSD
19:59:51.478	116.25	5	ARCA
19:59:51.478	116.26	5	ARCA
19:59:48.363	116.27	339	ARCA
19:59:48.363	116.27	352	ARCA
19:59:48.353	116.26	100	ARCA
19:59:48.353	116.26	209	ARCA
19:59:47.674	116.26	100	NDD
19:59:47.671	116.26	100	NDD
19:59:47.049	116.26	30	ARCA
19:59:41.984	116.25	70	ARCA
19:59:41.670	116.26	30	ARCA
19:59:41.172	116.26	200	ARCA
19:59:38.836	116.26	200	NDD
19:59:34.618	116.26	4	ARCA
19:59:34.574	116.26	376	NSD
19:59:34.574	116.26	1	ARCA
19:59:34.574	116.26	50	ARCA
19:59:30.477	116.26	7	NSD
19:59:29.494	116.26	1	NSD
19:59:29.361	116.26	116	NSD
19:59:29.360	116.26	50	ARCA
19:59:29.360	116.26	6	ARCA
19:59:28.310	116.27	10	NDD
19:59:27.864	116.27	5	NDD
19:59:26.881	116.27	1	ARCA
19:59:25.090	116.27	3	ARCA
19:59:25.016	116.27	50	ARCA
19:59:24.806	116.27	62	ARCA
19:59:24.806	116.27	2	ARCA
19:59:24.806	116.27	73	ARCA
19:59:24.806	116.27	113	ARCA
19:59:24.680	116.26	124	ARCA
19:59:24.680	116.26	5	ARCA
19:59:24.660	116.26	21	ARCA
19:59:23.861	116.27	2	NDD
19:59:22.916	116.27	1	ARCA
19:59:21.949	116.26	1	ARCA
19:59:20.365	116.27	100	ARCA
19:59:20.297	116.26	1	NDD
19:59:18.103	116.27	10	ARCA
19:59:17.117	116.27	1	ARCA
19:59:14.776	116.27	15	NDD
19:59:11.696	116.26	4	ARCA

Time & Sales and Quotes

The Time & Sales and Quotes display provides tick-by-tick access to all trades and quotes in the current market session. This view augments the Trades view with further data such as Bid, Ask, Bid Size and Ask Size. Results can also be filtered by Volume, Trade Size, Broker, Buy-side, Sell-side, etc., and Historical Trade Data is available as well.

Historical Time and Sales Module

Historical Time and Sales is an added feature available for the Time & Sales Module, providing access to historical trade data via date and time range input. The data is also downloadable to spreadsheets. Display options can include: Trades - provides a live view and displays the data for the last 50 trades;

Trades & Quotes - provides a live view and displays the data for the last 50 trades as well as the Bid/Ask data based on live activity.

Trades & VWAP - similar to the Trades view, the Trades & VWAP selection provides a live view, with the Historical add-on displaying data for more than the last 50 trades.

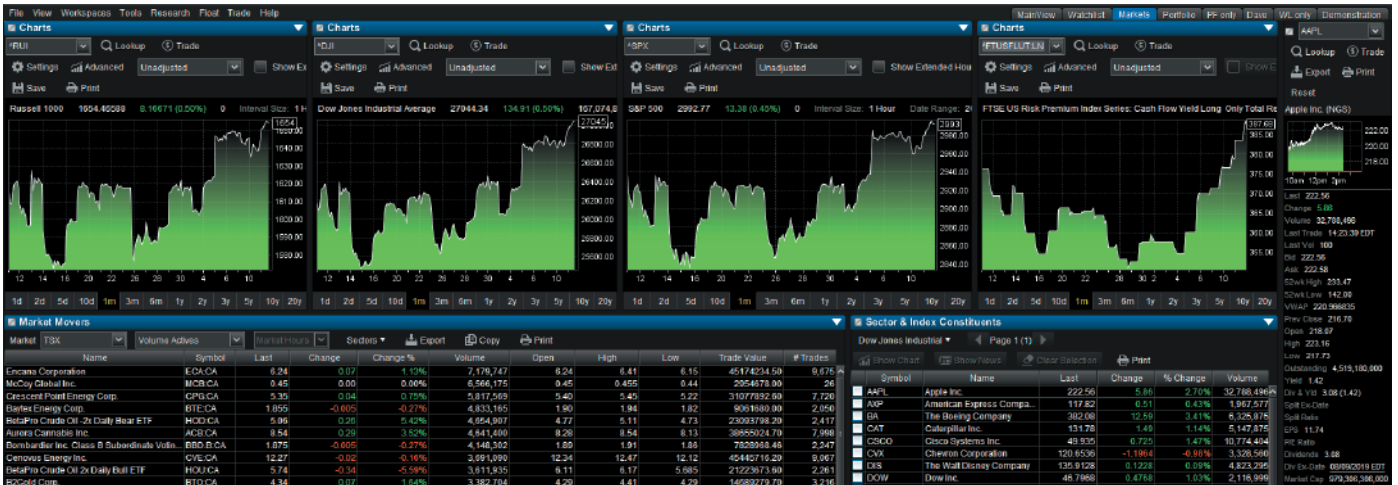
The user can filter by Minimum Trade Size, Buyers, Sellers, and can modify result sets by Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also included.

The screenshot displays the 'Time & Sales' module interface. A 'Time & Sales Filter' dialog box is open, allowing users to configure trade filter settings. The dialog includes fields for 'Min. Trade Size' (set to 50), 'Trade Price' (set to 'Equal To'), 'Bid Price' (set to 'All'), and 'Ask Price' (set to 'All'). There are also checkboxes for 'Show' (Buy-Side Trades, Sell-Side Trades, In-Range Trades) and 'Trade Types*' (All Trades, Normal Trades, Special Trades, Block Trades). A 'Show Broker Id(s)**' and 'Market/Exchange(s)**' field is also present. The background shows a live view of trades for APPL.US, with a table of trade data.

Time EST	Price	Size	Market
19:59:59.192	116.26	23	NSD
19:59:59.192	116.27	2	NSD
19:59:59.431	116.27	25	NSD
19:59:58.053	116.27	25	NSD
19:59:51.809	116.27	3	NSD
19:59:51.478	116.25	5	ARCA
19:59:51.478	116.26	5	ARCA
19:59:48.363	116.27	339	ARCA
19:59:48.363	116.27	362	ARCA
19:59:48.363	116.26	100	ARCA
19:59:48.363	116.26	200	ARCA
19:59:47.674	116.26	100	NSD
19:59:47.671	116.26	100	NSD
19:59:47.043	116.26	30	ARCA
19:59:41.094	116.25	70	ARCA
19:59:41.670	116.26	30	ARCA
19:59:41.172	116.26	200	ARCA
19:59:38.636	116.26	200	NSD
19:59:34.618	116.26	4	ARCA
19:59:34.674	116.26	376	NSD
19:59:34.674	116.26	1	ARCA
19:59:34.674	116.26	50	ARCA
19:59:30.477	116.26	7	NSD
19:59:29.494	116.26	1	NSD
19:59:29.381	116.26	116	NSD
19:59:29.360	116.26	50	ARCA
19:59:28.360	116.26	8	ARCA
19:59:28.310	116.27	10	NSD
19:59:27.884	116.27	5	NSD
19:59:26.881	116.27	1	ARCA
19:59:25.999	116.27	3	ARCA
19:59:25.016	116.27	50	ARCA
19:59:24.806	116.27	62	ARCA
19:59:24.806	116.27	2	ARCA
19:59:24.806	116.27	73	ARCA
19:59:24.806	116.27	113	ARCA

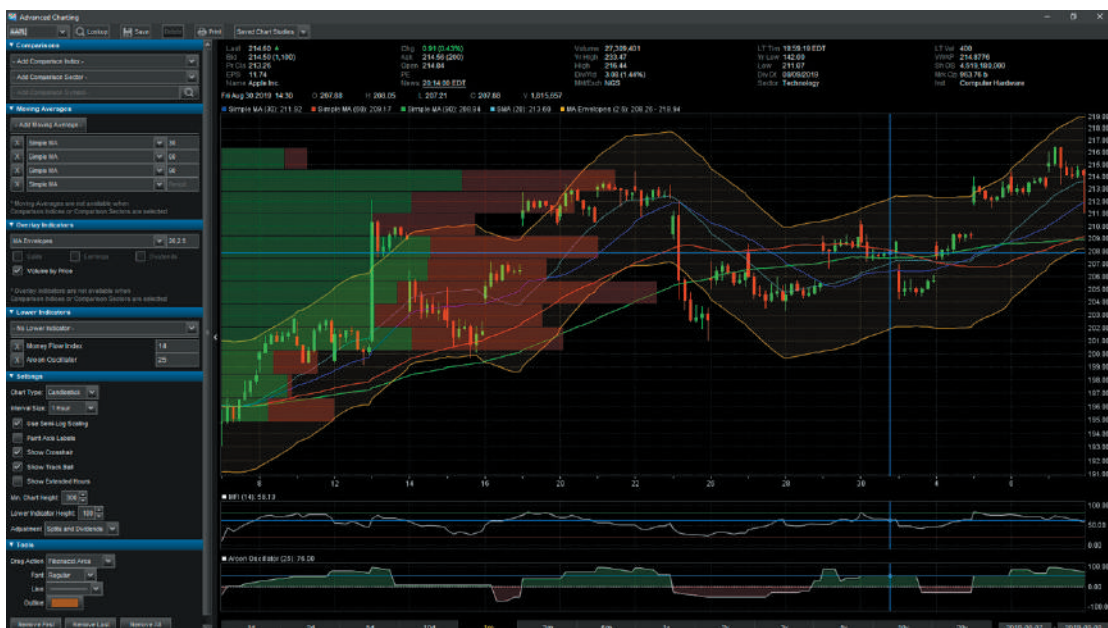
Integrated Charting

Quotestream Charting offers flexible user navigation settings (Moving Averages, Overlays, Lower Indicators, Comparisons, Time Frames, and more), multiple chart type displays (Area, Line, Colored Line, Candlestick, HLC, OHLC, Bar, Colored Bar, etc.), and intuitive design for the smooth facilitation of all use cases, from clear immediate viewing to the most complex technical analysis studies.



Advanced Charting

Advanced Charting can run concurrently with any Workspace, and can be moved to a second monitor. The Advanced Charting module provides streaming intra-day and historical charts with extensive upper and lower indicators and analytics. It provides the user with index, stock, sector, and market comparison charting, overlays, historical and intra-day moving averages, detailed upper indicator analytics, and stackable lower studies, as well as various chart views including Candlestick, OHLC, Line, Mountain and others. Users have the ability to draw on the chart, save current chart settings, as well as send the chart image to their printer.



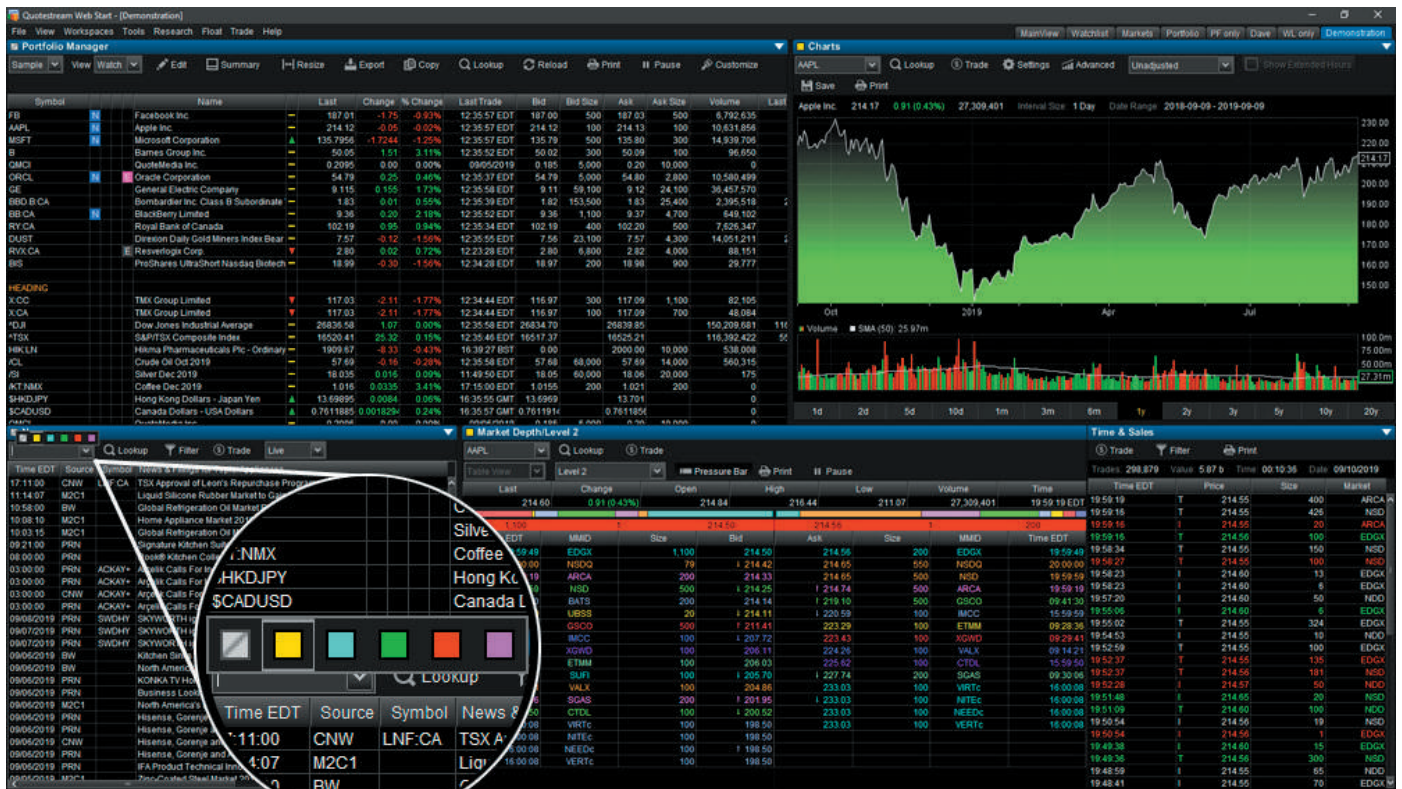
Tick-By-Tick Charting

The Tick-By-Tick Charting Module provides a number of features to more easily view price actions. It provides the user with the ability to view every tick streaming into a chart with customizable time scales. Additional features include the ability to paint axis labels, show Bid and Ask, Volume, and cross-hairs.



Linking (Propagation) Between Modules

Quotestream Professional features the ability to connect or cross-link modules. This provides the user the ability to have linked modules update together when a new symbol is entered. One can also drag a symbol from a portfolio or watchlist into any module (i.e. Charts, News, Level 2, etc.) and that module will update with the data for that symbol. Any linked modules will also update concurrently to that newly applied symbol.



VWAP Calculator

The VWAP Calculator provides users with the ability to calculate the Volume Weighted Average Price for a specified date and within a time period range for that date, using the VWAP Intra-day feature.

This feature can be filtered by Minimum Trade Size, Buyers, Sellers, with the result sets allowing further focus on Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also an offered feature.

In addition, the VWAP Date Range function provides users with the ability to calculate VWAP for a period of a number of days using historical data.

The screenshot shows the 'VWAP Calculator' application window. At the top, there is a 'Symbol' field containing 'AAPL:US' and a 'Lookup' button. Below this are two tabs: 'VWAP Intraday' (selected) and 'VWAP Date Range'. A summary box displays: 'Symbol: AAPL:US', 'Period: Nov 27, 2020 09:30:00 to 11:30:00', 'VWAP: 117.0076', and 'Volume: 26,873,569'. The 'Date' field is set to '27-Nov-2020' and the 'Time' field is set to '09:30:00 to 11:30:00'. A 'Filter' checkbox is checked. Under 'Min. Trade Size', a spinner shows '40'. The 'Include' section has two columns: 'Trade Ranges' with checkboxes for 'Buy-Side Trades', 'Sell-Side Trades', and 'In-Range Trades'; and 'Trade Types*' with radio buttons for 'All Trades', 'Normal Trades', 'Special Trades', and 'Block Trades'. There is also a 'Trade Price Range' section with 'Min Price' and 'Max Price' input fields. At the bottom, there are 'Broker Id(s)**' and 'Market/Exchange(s)**' input fields, and 'Clear', 'Save', and 'Calculate' buttons. Footnotes at the bottom state: '* Normal trades do not carry indicators; special trades do.' and '** Multiple broker ids or exchanges should be separated by commas.'

Company Filings Module

The Company Filings Module provides a view of the most recent as well as historical SEC (USA) and SEDAR (Canada) filings documents. Company filings can be filtered for more streamlined access to specific types of documents. Users can also set alerts for filings releases, to be notified when specified firms release documents to the public.

Form Type	Form Description	Period	Filed Date	View	Doc	PDF	XBRL
FWP	Free Writing Prospectus		09/05/2019				
424B2	Prospectus filed under Rule 424(b)(2)		09/05/2019				
4	Statement of changes in beneficial ownership of securities	06/04/2019	06/02/2019				
4	Statement of changes in beneficial ownership of securities	06/02/2019	06/26/2019				
4	Statement of changes in beneficial ownership of securities	08/12/2019	08/14/2019				
4	Statement of changes in beneficial ownership of securities	08/01/2019	08/05/2019				
4	Statement of changes in beneficial ownership of securities	08/01/2019	08/05/2019				
4	Statement of changes in beneficial ownership of securities	08/01/2019	08/05/2019				
10-Q	Quarterly report with a continuing view of a company's financial position	06/29/2019	07/31/2019				
8-K	Report of unscheduled material events or corporate changes	07/30/2019	07/30/2019				
4	Statement of changes in beneficial ownership of securities	05/03/2019	05/07/2019				
4	Statement of changes in beneficial ownership of securities	05/03/2019	05/09/2019				
10-Q	Quarterly report with a continuing view of a company's financial position	03/30/2019	05/01/2019				
8-K	Report of unscheduled material events or corporate changes	04/30/2019	04/30/2019				
4	Statement of changes in beneficial ownership of securities	04/15/2019	04/17/2019				
4	Statement of changes in beneficial ownership of securities	04/15/2019	04/17/2019				
3A	Amendment to a previously filed Form 3	02/05/2019	04/17/2019				
4	Statement of changes in beneficial ownership of securities	04/05/2019	04/09/2019				
4	Statement of changes in beneficial ownership of securities	04/01/2019	04/03/2019				
4	Statement of changes in beneficial ownership of securities	04/01/2019	04/03/2019				
CERT	Notification of the removal from listing and registration of securities, red		03/14/2019				
25	Registration of certain classes of securities (12b) of the Securities Ex		03/14/2019				
4	Statement of changes in beneficial ownership of securities	03/01/2019	03/05/2019				
4	Statement of changes in beneficial ownership of securities	03/01/2019	03/05/2019				
4	Statement of changes in beneficial ownership of securities	03/01/2019	03/05/2019				
4	Statement of changes in beneficial ownership of securities	03/01/2019	03/05/2019				
4	Statement of changes in beneficial ownership of securities	03/01/2019	03/05/2019				
4	Statement of changes in beneficial ownership of securities	03/01/2019	03/05/2019				
8-K	Report of unscheduled material events or corporate changes	03/01/2019	03/04/2019				
SD	Specialized Disclosure Report		02/15/2019				
SC 13G	Statement of beneficial ownership of common stock by certain person		02/14/2019				
SC 13G/A	Amendment to the SC 13G filing		02/11/2019				
4	Statement of changes in beneficial ownership of securities	02/05/2019	02/07/2019				
4	Initial statement of beneficial ownership of securities	02/05/2019	02/07/2019				
8-K	Report of unscheduled material events or corporate changes	02/05/2019	02/06/2019				
FX149G	Notice of interest solicitation, Definitive material		02/05/2019				
4	Statement of changes in beneficial ownership of securities						
4	Statement of changes in beneficial ownership of securities						
4	Statement of changes in beneficial ownership of securities						
4	Statement of changes in beneficial ownership of securities						
SC 13G/A	Amendment to the SC 13G filing						
10-Q	Quarterly report with a continuing view of a company's financial position						
8-K	Report of unscheduled material events or corporate changes						
DEF 14A	Additional proxy solicitation						
DEF 14A	Critical information to be disclosed						
8-K	Report of unscheduled material events or corporate changes						
4	Statement of changes in beneficial ownership of securities						
10-K	Annual report with a continuing view of a company's financial position						
S-MDR	Annual report with a continuing view of a company's financial position						
4	Statement of changes in beneficial ownership of securities						

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 8-K

CURRENT REPORT
Pursuant to Section 13 OR 15(d) of The Securities Exchange Act of 1934

March 1, 2019
Date of Report (Date of earliest event reported)

Apple Inc.
(Exact name of Registrant as specified in its charter)

California (State or other jurisdiction of incorporation) 001-36743 (Commission File Number) 94-2404110 (I.R.S. Employer Identification No.)

One Apple Park Way

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the quarterly period ended June 29, 2019

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____
Commission File Number: 001-36743

Apple Inc.
(Exact name of Registrant as specified in its charter)

California (State or other jurisdiction of incorporation or organization) 94-2404110 (I.R.S. Employer Identification No.)

One Apple Park Way
Cupertino, California 95014
(Address of principal executive offices) (Zip Code)

(408) 996-1010
(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading symbol(s)	Name of each exchange on which registered
Common Stock, \$0.00001 par value per share	AAPL	The Nasdaq Stock Market LLC
1.000% Notes due 2022	—	The Nasdaq Stock Market LLC
1.375% Notes due 2024	—	The Nasdaq Stock Market LLC
0.875% Notes due 2025	—	The Nasdaq Stock Market LLC
1.825% Notes due 2026	—	The Nasdaq Stock Market LLC
2.000% Notes due 2027	—	The Nasdaq Stock Market LLC
1.375% Notes due 2029	—	The Nasdaq Stock Market LLC
3.050% Notes due 2029	—	The Nasdaq Stock Market LLC

Short Interest Module

The Short Interest Module provides users with short position statistics in order to evaluate investor sentiment on particular stocks. The data is viewable in table or chart format and can be exported to spreadsheets as well.

Settlement Date	Short Position	Avg Daily Volume	Short Interest Ratio
06/15/2018	53,258,082	10,484,971	5.08
07/15/2018	56,588,226	11,344,346	4.99
07/15/2018	61,932,190	21,202,540	2.91
08/22/2018	58,195,231	19,929,874	2.92
08/14/2018	57,989,684	12,095,272	4.72
09/11/2018	54,428,226	10,101,092	4.99
09/15/2018	48,341,970	9,189,470	5.26
04/30/2019	43,787,291	9,214,167	4.75
04/15/2019	42,355,254	14,118,418	3.00
03/29/2019	43,726,102	18,295,440	2.39
03/15/2019	43,726,093	17,660,889	2.48
02/28/2019	50,788,097	13,652,714	3.72
02/15/2019	51,853,377	13,261,733	3.91
01/31/2019	50,937,308	15,441,614	3.24
01/15/2019	46,588,982	24,720,998	1.83
12/31/2018	44,141,530	28,115,530	1.57
12/14/2018	42,294,449	22,200,236	1.90
11/30/2018	37,974,941	18,189,828	2.09
11/15/2018	43,041,233	17,090,680	2.52
10/31/2018	39,048,015	19,323,799	2.02
10/15/2018	41,292,547	22,888,377	1.82
09/28/2018	38,449,359	21,319,118	1.80
09/14/2018	48,295,713	15,131,872	3.19
08/31/2018	48,935,899	13,707,535	3.57
08/15/2018	51,142,576	16,932,187	3.02
07/31/2018	45,997,779	20,182,861	2.28
07/13/2018	40,965,947	25,927,815	1.58
06/29/2018	32,293,053	21,100,026	1.53
06/15/2018	31,838,590	14,583,877	2.19
05/31/2018	31,914,003	11,616,969	2.74
05/15/2018	31,296,000	11,987,840	2.61
04/30/2018	33,753,230	13,176,829	2.56
04/15/2018	26,192,896	20,064,837	1.30
03/29/2018	36,444,510	20,474,444	1.78
03/15/2018	38,783,574	13,759,802	2.82
02/28/2018	39,735,790	19,282,981	2.06
02/15/2018	41,485,816	18,750,826	2.21
01/31/2018	40,291,071	18,588,630	2.17
01/15/2018	33,913,735	18,840,964	1.80
12/29/2017	26,545,748	18,351,398	1.45
12/15/2017	31,388,052	17,245,567	1.82
11/29/2017	25,783,009	11,710,802	2.20
11/15/2017	28,958,383	12,227,993	2.37
10/31/2017	29,384,653	14,254,686	2.06



Regional Quotes Montage

The Regional Quotes Montage allows users to view the listed values for all exchanges and alternative trading systems for a particular Canadian or US stock symbol. The montage presents the main consolidated quote, followed by its various market venues. Users get a comprehensive view of trading activity across multiple marketplaces, aiding in executing trade strategies more effectively. The user is able to easily customize the view of data fields, and to download the data.

Marketplace	Last	Bid	Ask	Change	% Change	Volume	% Volume	Last Trade	Trade Value	# Trades	Open	High	Low
General Electric Company													
New York Stock Exchange	9.10	9.10	9.11	0.145	1.62%	37,629,150	100.00%	12:45:57 EDT	339495754.60	73,644	8.91	9.27	8.90
NASDAQ	9.11			0.14	1.56%	1,993,048	5.30%	12:43:29 EDT	18287137.10	6,483	8.93	9.27	8.92
Direct Edge EDGX	9.10	9.10	9.11	0.16	1.79%	3,102,577	8.26%	12:45:29 EDT		0	9.96	9.27	8.91
NASDAQ Global Market	9.10			0.135	1.51%	4,124,578	11.14%	12:45:57 EDT	37872777.70	7,288	8.91	9.27	8.91
New York Stock Exchange	9.10			0.14	1.56%	4,966,257	13.41%	12:45:16 EDT	45456943.10	3,078	8.91	9.27	8.91
Royal Bank of Canada													
CDN Consolidated	102.24	102.23	102.20	1.00	0.99%	6,670,703	100.00%	12:44:17 EDT	880423045.00	16,104	101.25	102.27	101.00
Alpha	102.25	102.23	102.25	1.02	1.01%	208,542	2.38%	12:44:04 EDT	21842519.60	1,598	101.11	102.27	101.11
NFO Exchange (TSX/TSXV Listed)	102.25	102.20	102.30	1.00	0.99%	52,724	0.81%	12:42:48 EDT	5372406.30	426	101.58	102.26	101.38
NEO ATS (TSX/TSXV Listed)	102.24	102.22	102.25	0.99	0.98%	8,889	0.13%	12:42:29 EDT	89972.60	68	101.41	102.24	101.41
Nasdaq OMX	102.24	102.23	102.25	0.99	0.98%	323,818	3.73%	12:44:17 EDT	32898611.30	2,563	101.16	102.27	101.15
Nasdaq OMX	102.25	102.23	102.26	1.01	1.00%	93,742	1.08%	12:44:04 EDT	9551634.00	963	101.38	102.27	101.28
NASDAQ OMX	102.20			0.95	0.94%	16,829	0.19%	12:31:12 EDT	1714844.62	185	101.31	102.20	101.31
Nasdaq Canada Cross	102.25			0.485	0.49%	100	0.00%	11:01:37 EDT	19178.50	1	101.765	101.765	101.765
Limx	102.25			1.18	1.18%	5,300	0.06%	12:42:46 EDT	540145.00	53	102.25	102.25	101.39
Omnia	102.26	102.20	102.31	1.01	1.00%	168,500	1.52%	12:44:16 EDT	19985819.00	1,501	101.52	102.27	101.28
Canadian Securities Exchange	102.25	102.21	102.25	1.02	1.01%	26,507	0.31%	12:44:04 EDT	2709545.51	279	101.25	102.27	101.25
TRIQ Canada	102.25			1.02	1.01%	103,750	1.29%	12:44:01 EDT	10599488.50	819	101.44	102.27	101.14
Toronto Stock Exchange	102.24	102.23	102.25	1.00	0.99%	7,688,193	86.41%	12:44:17 EDT	776966478.60	7,681	101.15	102.27	101.00

Net House Summary

The Net House Summary Module provides a summary of trading activity for Canadian securities, either intra-day or via historical date ranges. Data includes the Broker ID and Name, Buy VWAP, Buy Volume, Buy Volume Percent, Buy Value, Sell VWAP, Sell Volume, Sell Volume Percent and Sell Value, as well as Net Volume, Net Value, Total Volume and Total Value. The values can be exported directly or copied to clipboard for pasting into spreadsheets or documents.

Broker ID	Broker Name	Buy VWAP	Buy Vol	Buy Trans	Buy Vol %	Buy Value	Sell VWAP	Sell Vol	Sell Trans	Sell Vol %	Sell Value	Net Vol	Net Value
001	Atkinson	99.578	52,076	1	0.00%	883,789.00	99.573	7,768,362	50,812	17.54%	7735,10771.00	16,008	157,3910.00
002	RBC Capital Markets	99.511	29,100	1	0.00%	133,780.00	99.442	1,719,254	10,961	3.86%	17,986,556.00	1,900,103	19,517,024.00
003	AltaCorp Capital Inc.	0	0	0	0.00%	0	99.885	291,042	975	0.56%	29,067,851.90	-291,042	-29,067,851.90
004	Canfor Fitzgerald Canada Corp.	0	0	0	0.00%	0	100.320	280,400	2,028	0.53%	29,149,808.90	-280,400	-29,149,808.90
005	Clide Securities Canada ULC	99.549	4,307	8	0.01%	200,151.20	99.524	5,013,979	5,461	1.20%	52,826,624.00	28,843	287,987.20
007	TD Securities Inc.	99.642	2,937,187	11,310	6.81%	72,254,949.00	99.554	3,460,718	9,123	7.81%	34,402,964.00	-522,431	-3,982,954.00
008	Dandee Capital Partners	99.328	53,800	17	0.03%	5,834.50	99.340	54,800	21	0.12%	54,438.00	-1,600	-9994.50
009	BMO Health Plans Inc.	99.726	2,416,675	7,161	1.50%	10,050,000.00	99.519	1,708,822	9,444	4.06%	17,901,743.00	617,853	6,198,831.00
011	Macquarie Capital Markets Can.	100.756	20,390	12	0.04%	2,020.18	98.016	2,440	20	0.01%	25,976.35	17,726	17,996,254.23
012	Industrial Canada Limited	99.390	1,985,365	6,501	4.29%	10,434,774.00	99.892	1,139,196	7,488	2.53%	11,383,968.00	-83,225	-859,924.00
014	ITO Canada Corp.	99.536	273,192	937	0.53%	1,024,844.00	99.639	161,802	863	0.31%	16,102,091.20	111,300	1,019,719.20
015	UBS Securities Canada Inc.	99.697	135,032	711	0.26%	1,023,345.40	99.710	381,739	2,334	0.86%	3,806,330.30	-246,707	-2,466,101.90
016	Paradigm Capital Inc.	0	0	0	0.00%	0	99.020	15,300	95	0.03%	15,241,983.00	-15,300	-15,241,983.00
018	Echelon Wealth Partners Inc.	99.370	100	1	0.00%	9237.00	99.000	9	0	0.00%	0.00	100	9237.00
019	Dejardin Securities Inc.	99.665	122,249	661	0.29%	1,200,420.70	99.895	92,249	271	0.21%	9,224,747.1	29,000	29,929,959.99
021	Pavilion Global Markets Ltd.	0	0	0	0.00%	0	99.183	830	4	0.00%	8,248.50	-830	-8,248.50
022	Fidelity Clearing Canada ULC	99.234	6,910	50	0.02%	685,704.50	98.955	4,355	32	0.01%	43,193.00	2,545	2,533,950.50
023	State Street Global Markets Can.	0	0	0	0.00%	0.00	97.736	213,181	247	0.48%	2,827,724.50	-213,181	-2,827,724.50
025	Odium Brown Limited	99.322	9,820	33	0.02%	95,479.85	99.550	19,125	82	0.03%	1,928,253.41	-2,565	-2,527,734.46
026	BES Securities Inc.	99.879	2,195	30	0.00%	2,152,38.38	99.014	2,918	34	0.01%	29,067.53	-763	-7,544.15
033	Canaccord Genuity Corp.	99.553	30,500	142	0.07%	308,360.11	98.845	330,798	1,478	0.75%	3,289,780.70	-300,298	-3,988,150.59
035	Fredberg Mercantile Group	99.255	3,850	21	0.01%	3,027,720.00	99.272	3,450	16	0.01%	34,248.00	-400	-3,976.00
036	W.D. Laidlaw Co. Limited	99.808	5,889	29	0.01%	5,052,02.00	99.429	5,000	24	0.01%	49,762.00	999	8,048.100
038	Merrill Lynch Canada Inc.	99.502	1,981,615	11,822	4.59%	186,189,736.00	99.015	1,761,180	9,257	3.98%	17,544,100.70	230,425	22,727,929.00
043	Caldwell Securities Ltd.	99.948	698	7	0.00%	69,613.66	98.645	1,105	13	0.00%	10,900.10	-407	-3,328.44
044	Laurentian Bank Securities Inc.	99.108	2,804	24	0.01%	29,711.00	98.974	77,471	639	0.17%	78,989,75.86	-74,547	-73,205,44.86
053	Morgan Stanley Canada Limited	99.452	1,442,673	3,055	3.26%	14,344,350.00	99.817	2,854,722	14,776	4.68%	29,568,659.00	-622,349	-32,260,959.00
055	Nasdaq Partners Ltd.	100.651	1,400	8	0.00%	14,001.00	100.147	2,400	88	0.01%	24,034.00	-1,000	-9,944.00
058	Edward Jones	99.823	5,222	30	0.01%	6,180,52.83	99.871	11,189	81	0.01%	11,322.11	-8,947	-8,971.78
057	Innovative Brokers Canada Inc.	99.810	5,192	63	0.01%	5,154,43.00	100.078	1,350	28	0.00%	13,548.50	3,642	37,843.50
059	PI Financial Corp.	100.225	20,210	163	0.05%	203,707,959	99.708	1,742	17	0.00%	17,369.53	18,458	188,385.46
062	Harwood Securities Inc.	99.713	993	7	0.00%	89,100.60	99.514	2,500	13	0.00%	18,927.68	-1,367	-13,929.20
065	Goldman Sachs Canada Inc.	99.910	177,541	1,812	1.62%	178,803,35.30	100.144	628,491	2,236	1.42%	629,364,18.10	89,550	87,499,907.20
068	Loebs Jones Cable Inc.	99.471	2,409	21	0.01%	23,925.56	99.243	1,500	15	0.00%	14,886.50	998	8,081.00
070	Manulife Securities Incorporated	99.187	2,828	26	0.01%	2,806,12.00	99.802	5,647	52	0.01%	56,147.58	-3,181	-3,032,58
072	Credit Suisse Securities (Canada)	99.841	424,528	1,812	0.96%	42,283,818.80	99.897	428,011	1,871	0.96%	42,544,880.80	-1,483	-1,598,162.10
073	Comstock Securities Inc.	100.080	100	1	0.00%	10,000.00	97.764	9,100	88	0.00%	88,958.00	-8,900	-8,795.00
074	GMP Securities L.P.	99.210	4,883	41	0.01%	44,630.51	99.702	29,600	100	0.01%	295,176.66	-24,718	-246,646.35
076	Industrial Alliance Securities Inc.	100.728	44,297	351	0.16%	446,183,99.99	99.438	19,609	136	0.02%	19,4340.98	33,688	348,888.01
077	Peters & Co. Limited	97.880	100	1	0.00%	978.00	99.000	9	0	0.00%	0.00	100	978.00
079	CIBC World Markets Inc.	99.531	11,428,823	83,406	25.88%	113,250,300.00	99.511	12,500,642	84,958	28.22%	124,304,700.00	-1,071,819	-1,064,200.00
080	National Bank Financial Inc.	99.484	2,905,739	13,732	4.64%	2,805,130.00	99.608	1,827,783	10,989	4.13%	18,206,1196.00	228,995	225,020,304.00
083	Mackie Research Capital Corp.	98.818	4,205	31	0.01%	4,153,30.39	98.963	8,373	64	0.02%	8,286.38.20	-4,168	-41,308.61
085	Boca Capital Inc.	100.613	2,783,922	4,278	6.31%	281,104,657.00	100.300	3,470,479	2,839	7.84%	34,888,764.00	-676,557	-6,888,179.00
088	Fidel Canada LP	98.977	4,899	29	0.01%	47,409.00	100.389	991	4	0.00%	9,932.49	4,199	41,425.00
089	Credit Suisse Securities Inc.	99.990	11,991	128	0.03%	118,408.91	99.325	11,047	111	0.02%	109,720,22	914	867,789
089	Raymond James Ltd.	99.450	30,283	309	0.07%	301,028.88	100.177	123,331	743	0.28%	123,499.90	-83,048	-83,432.10
090	Barrick Capital Canada Inc.	99.427	313,333	2,144	0.71%	3,115,799.20	99.98	586,447	3,850	1.26%	5,868,291.10	-263,514	-265,129.10
091	Jefferies Canada Inc.	101.660	300	3	0.00%	303,18.00	88.773	8,700	35	0.02%	86,177.58	-8,400	-83,145.58
094	Hamilton Securities Limited	0	0	0	0.00%	0.00	100.380	299	2	0.00%	2,007.00	-200	-2,007.00
099	WileyTrade Inc.	99.278	127,560	772	0.29%	1,268,288.80	99.485	158,450	876	0.36%	1,588,487.40	-28,900	-29,161.50
101	Société Générale Capital Canada	100.147	3,565,353	4,069	8.05%	35,761,153.00	100.721	2,062,415	2,874	4.66%	20,728,045.00	1,503,938	149,331,07.00
104	Questrade Inc.	99.479	34,913	993	0.00%	2,050,24.39	99.623	25,589	303	0.00%	25,486,60.72	9,200	9,074,37.00
132	Academy Investor Inc.	0	0	0	0.00%	0.00	99.540	390	2	0.00%	2,882.00	-380	-2,882.00
Totals		99.673	44,290,365	240,870	100.00%	441,455,6147.88	99.673	44,290,365	240,870	100.00%	441,455,6151.88	0	-3.99

Waterfall Ticker

The Waterfall Ticker Module streams Time and Sales for a whole portfolio. All Time and Sales trades are streamed for all symbols in the selected portfolio. Fields include Symbol, Price, Size, Time, Exchange, Buyer and Seller.

The user can filter by Minimum Trade Size, Buyers, Sellers, and result sets can focus on Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also included.

Symbol	Price	Size	Time	Market	Bid Price	Bid Size	Bid Mkt	Ask Price	Ask Size	Ask Mkt
GE	8.98	16	18:27:20 EDT	NSD						
GE	8.98	150	18:27:18 EDT	NSD						
GE	8.97	200	18:08:38 EDT	EDGX	118.84	100	TSX	119.50	100	TSX
ORCL	54.54	129,243	18:05:42 EDT	NDD	101.22	1,000	TSX	101.33	800	TSX
L	49.61	17,313	18:05:42 EDT	NDD	2.75	2,000	TSX	2.80	5,800	TSX
GE	8.96	311,162	18:05:26 EDT	NDD	1.38	24,800	TSX	1.40	2,300	TSX
GE	8.96	50	18:04:57 EDT	EDGX	1.82	30,200	TSX	1.83	53,200	TSX
GE	8.97	100	18:04:41 EDT	EDGX	9.16	500	TSX	9.18	900	TSX
GE	8.97		1:17:59:09 EDT	NDD						
GE	8.97		1:17:58:56 EDT	NDD	26748.77	0	DJI	26940.36	0	DJI
GE	8.95		1:17:58:10 EDT	EDGX	16465.76	0	TSX	16521.48	0	TSX
GE	8.95		1:17:57:43 EDT	NDD	0.00	0		0.00	0	
GE	8.97		1:17:56:30 EDT	NDD	18.50	100	NSD	20.00	100	EDGX
GE	8.95		1:17:55:15 EDT	EDGX						
GE	8.95		1:17:55:02 EDT	NDD						
GE	8.95		1:17:55:54 EDT	EDGX						
GE	8.97		2:17:55:52 EDT	NDD						
GE	8.95		2:17:54:55 EDT	EDGX						
GE	8.95		7:17:54:18 EDT	NDD						
GE	8.95		10:17:52:54 EDT	EDGX						
GE	8.95		1:17:52:17 EDT	NDD						
GE	8.95	1,000	17:50:18 EDT	EDGX						
GE	8.99	90	17:50:18 EDT	NDD						
KT.NMX			09/09/2019 17:50		0.00	0	NMX	0.00	0	NMX
GE	8.9631	580	17:49:58 EDT	NDD						
GE	8.96		1:17:49:26 EDT	NDD						
GE	8.99		4:17:49:10 EDT	NDD						
GE	8.96		5:17:48:17 EDT	NDD						
GE	8.99		1:17:48:10 EDT	NDD						
GE	8.96		5:17:48:09 EDT	NDD						
GE	8.98	16	18:27:20 EDT	NSD						
ORCL	54.88	3,900	18:05:42 EDT	NSD						
GE	8.97	200	18:08:38 EDT	EDGX	118.84	100	TSX	119.50	100	TSX
ORCL	54.54	129,243	18:05:42 EDT	NDD	101.22	1,000	TSX	101.33	800	TSX
L	49.61	17,313	18:05:42 EDT	NDD	2.75	2,000	TSX	2.80	5,800	TSX

Portfolio Manager with Waterfall Ticker Module

The Portfolio Manager + Waterfall Ticker Module places the dynamic Waterfall Ticker into a single view alongside any portfolio the user would like to track.

Symbol	Last	Change	% Change	Volume	High	Low
FB	187.142	-1.618	-0.86%	6,904,153	193.10	186.24
AAPL	214.1231	-0.9469	-0.44%	11,050,443	214.65	211.71
MSFT	135.83	-1.89	-1.37%	15,237,683	136.8862	134.51
B	50.19	1.56	3.11%	100,348	50.14	
QIWI	0.2095	0.00	0.00%	0		
ORCL	54.88	0.32	0.59%	10,808,046	54.92	54.14
GE	9.1025	0.1425	1.56%	37,368,653	9.27	8.905
BBDOCA	1.83	0.01	0.55%	2,535,348	1.84	1.80
BBCA	9.34	0.18	1.97%	657,152	9.40	9.08
RYCA	102.31	1.87	1.86%	7,678,931	102.31	101.00
DUST	7.668	-0.022	-0.29%	14,520,063	7.9134	7.43
ROXCA	2.89	0.02	0.72%	88,151	2.90	2.89
BB	18.95	-0.34	-1.76%	32,692	19.7389	18.9094
HEADING						
XCC	116.79	-2.35	-1.97%	88,946	119.14	116.79
XCA	116.79	-2.30	-1.97%	51,025	119.14	116.79
YDJ	25942.99	8.48	0.03%	154,803,390	25957.20	25717.05
YSS	19294.14	29.85	0.15%	129,377,849	19295.60	19282.49
YKLN	1909.87	-6.33	-0.33%	530,008	1920.50	1978.00
YCL	57.71	-0.14	-0.24%	567,183	58.76	57.39
YCI	18.035	0.018	0.09%	175	18.065	17.77
KT.NMX	1.016	0.0335	3.31%	0		
SHRUPY	13.78195	0.9143	6.64%	0	13.712	13.07136
SCADUSD	0.7699741	0.008818	1.14%	0	0.7815798	0.7588653
QIWI	0.2095	0.00	0.00%	0		
IFUNDS	2.12	-0.01	-0.47%	0	2.12	2.12
LIBOR1M	2.08188	-0.00712	-0.34%	0	2.08188	2.08188
IB4W	2.01	0.00	0.00%	0	2.01	2.01
L	49.66	0.25	0.50%	275,355	49.86	49.46

Symbol	Price	Size	Time	Market
MSFT	135.83	100	12:49:00 EDT	NDD
MSFT	135.83	100	12:49:00 EDT	NDD
MSFT	135.83	100	12:49:00 EDT	NDD
MSFT	135.83	48.42		
C	68.80	100	12:49:00 EDT	EDGA
M	16.885	100	12:49:00 EDT	NSD
M	16.89	100	12:49:00 EDT	EDGA
M	16.88	600	12:49:00 EDT	NDD
M	16.885	600	12:49:00 EDT	NSD
B	6.88	100	12:49:00 EDT	EDGA
FB	29.46	100	12:49:00 EDT	NSD
FB	187.142	150	12:49:00 EDT	NDD
FB	187.1455	4	12:48:59 EDT	NDD
FB	187.15	4	12:48:59 EDT	PHL
FB	187.15	15	12:48:59 EDT	PHL
FB	187.15	40	12:48:59 EDT	CBOE EDGX
FB	187.1456	15	12:48:59 EDT	NDD
FB	187.1455	40	12:48:59 EDT	NDD
SWN	2.335	480	12:48:59 EDT	NDD
AAPL	214.1199	8	12:48:59 EDT	NDD
M	16.885	100	12:48:59 EDT	NSD
M	16.885	100	12:48:59 EDT	NSD
M	16.885	100	12:48:59 EDT	NSD
FB	187.14	700	12:48:59 EDT	NDD
MSFT	135.8225	100	12:48:59 EDT	NDD
MSFT	135.83	300	12:48:59 EDT	EDGA
MSFT	135.83	200	12:48:59 EDT	EDGA
MSFT	135.82	100	12:48:59 EDT	NSD
MSFT	135.82	100	12:48:59 EDT	NSD

Options Module

The Options Module displays information for all trading options, composite and regional, for a given root symbol. Quotestream Professional provides complete access to option chains and detailed options quotes, as well as Greeks, Implied Volatility, Most Actives, In/Out of the Money, At the Money, All, Composite/Regional, Calls/Puts, and options charts.

The screenshot displays the Options Module interface. The top section shows a list of options contracts with columns for Root, Strike, Type, Expiry, Last, Change, % Change, Bid, Ask, Volume, and Open Int. The bottom section shows a detailed view of a specific option chain, including columns for Bid, Ask, Volume, and Open Int for both Calls and Puts, along with a 'Strike Price' of 214.17.

Root	Strike	Type	Expiry	Last	Change	% Change	Bid	Ask	Volume	Open Int
AMPL	215.00	OPRAC	Sep 13, 2019	2.18	0.31	16.08%	2.13	2.17	26,300	13,177
AMPL	217.50	OPRAC	Sep 13, 2019	1.58	0.18	15.69%	1.55	1.57	25,644	6,558
AMPL	220.00	OPRAC	Sep 13, 2019	0.98	0.20	9.47%	0.95	0.97	23,308	12,385
AMPL	222.50	OPRAC	Sep 20, 2019	1.39	0.07	5.20%	1.36	1.43	11,879	29,745
AMPL	225.00	OPRAC	Sep 13, 2019	0.26	0.00	0.20%	0.25	0.29	11,812	4,305
AMPL	215.00	OPRAC	Sep 20, 2019	3.40	0.20	7.94%	3.30	3.50	10,228	22,195
AMPL	215.00	OPRAC	Oct 18, 2019	3.72	0.37	9.83%	3.65	3.85	9,353	16,180
AMPL	212.50	OPRAC	Sep 13, 2019	3.60	0.44	13.92%	3.50	3.65	6,832	6,832
AMPL	217.50	OPRAC	Sep 20, 2019	2.26	0.20	11.33%	2.20	2.31	6,338	4,950
AMPL	222.50	OPRAC	Sep 13, 2019	0.93	0.13	8.00%	0.90	0.97	5,747	3,652
AMPL	220.00	OPRAC	Oct 18, 2019	4.30	0.25	6.38%	4.25	4.40	4,773	21,778
AMPL	230.00	OPRAC	Sep 13, 2019	0.63	-0.03	-50.00%	0.63	0.65	4,246	2,005
AMPL	210.00	OPRAC	Sep 20, 2019	5.56	0.40	7.20%	5.40	5.55	3,738	34,485
AMPL	205.00	OPRAC	Sep 13, 2019	9.75	0.62	6.18%	9.45	9.85	3,650	1,987
AMPL	219.00	OPRAC	Sep 13, 2019	5.50	0.70	14.58%	5.30	5.50	3,422	7,170
AMPL	227.50	OPRAC	Sep 13, 2019	0.85	-0.03	-37.50%	0.82	0.87	3,188	1,473
AMPL	225.00	OPRAC	Sep 20, 2019	0.46	-0.01	-2.13%	0.44	0.54	2,983	23,884
AMPL	218.00	OPRAC	Oct 18, 2019	8.70	0.44	4.73%	8.25	10.00	2,211	18,295
AMPL	222.50	OPRAC	Oct 18, 2019	0.81	0.02	2.50%	0.73	1.00	2,045	4,428
AMPL	225.00	OPRAC	Oct 18, 2019	2.52	0.13	5.44%	2.42	2.60	1,959	11,518
AMPL	195.00	OPRAC	Sep 20, 2019	20.24	1.30	6.89%	17.40	20.00	1,702	8,482
AMPL	230.00	OPRAC	Sep 20, 2019	0.14	-0.02	-12.50%	0.14	0.16	1,780	28,748
AMPL	230.00	OPRAC	Oct 18, 2019	0.13	0.00	0.00%	0.13	0.15	1,606	6,345
AMPL	227.50	OPRAC	Sep 20, 2019	0.27	0.01	3.85%	0.24	0.36	1,432	2,311
AMPL	220.00	OPRAC	Jan 17, 2020	10.70	0.20	1.90%	8.60	11.25	1,313	20,305
AMPL	215.00	OPRAC	Jan 17, 2020	0.84	-0.02	-2.33%	0.25	1.10	1,204	20,100
AMPL	212.50	OPRAC	Sep 20, 2019	4.90	0.37	8.17%	4.75	4.90	4,999	4,999
AMPL	230.00	OPRAC	Jan 17, 2020	6.95	0.05	0.73%	5.60	7.40	1,221	28,974
AMPL	205.00	OPRAC	Sep 20, 2019	10.70	0.60	5.64%	9.65	10.80	1,165	11,873
AMPL	220.00	OPRAC	Sep 27, 2019	2.20	0.15	7.32%	2.26	2.26	1,102	1,221
AMPL	275.00	OPRAC	Jan 17, 2020	0.43	-0.04	-8.51%	0.36	0.63	1,006	8,038
AMPL	270.00	OPRAC	Sep 20, 2019	0.58	-0.02	-3.33%	0.20	0.95	1,005	1,005
AMPL	230.00	OPRAC	Oct 18, 2019	1.40	0.08	6.08%	1.34	1.49	1,000	13,222
AMPL	240.00	OPRAC	Sep 20, 2019	0.03	-0.01	-25.00%	0.01	0.06	995	4,297
AMPL	225.00	OPRAC	Sep 27, 2019	0.91	0.01	1.11%	0.88	1.02	870	1,452
AMPL	215.00	OPRAC	Sep 27, 2019	4.40	0.40	9.09%	4.30	4.45	898	1,780
AMPL	240.00	OPRAC	Mar 20, 2020	6.78	0.08	1.19%	5.00	7.00	1,004	1,004
AMPL	150.00	OPRAC	Jan 17, 2020	65.90	0.63	0.97%	63.40	66.00	884	25,672

Stocks, Mutual Funds, and ETFs Screening

The Stock Screener allows for comprehensive stock screening. Hundreds of screening criteria are available, including Share Performance, Average Share Volume, Exchange, Dividend, Income Growth Rates, Margins, Turnover, Growth, Ownership, Market Cap, and much more.

The Mutual Funds Screener allows the user to quickly run scans based on a wide array of criteria, including NAV Description, Performance, Performance Return, Cost and Expense, Load Type, Expense Ratio and much more.

The ETF Screener allows the user to quickly run scans based on a wide variety of criteria, including Exchange, Sector, Holdings and much more.

The screenshot displays the Quotemedia software interface, which is used for financial analysis and screening. The main window is divided into several sections:

- Portfolio Manager:** A table listing various stocks and their performance metrics.

Symbol	Name	Last	Change	% Change	High	Low	Open	Volume
FB	Facebook Inc.	188.76	1.27	0.68%	189.50	187.50	188.00	1,018,000
APPL	Apple Inc.	214.17	0.31	0.14%	214.50	213.50	214.00	2,100,000
MSFT	Microsoft Corporation	137.52	1.54	1.14%	138.50	136.50	137.00	3,500,000
- Market Movers:** A table showing significant price movements in the market.

Symbol	Name	Last	Change	% Change	Volume
AT&T Inc.	AT&T Inc.	16.78	0.54	3.28%	117,884,943
Chromalox	Chromalox	6.98	0.11	1.57%	36,986,918
Valecia Vlc.	Valecia Vlc.	27.73	0.75	2.70%	46,315,949
- Market Depth:** A detailed view of the order book for a specific stock, showing bid and ask orders and their sizes.

Level	Price	Volume	Time
Level 1	78.50	78.50	18:30:00
Level 2	78.52	812,538	18:30:00
Level 3	78.54	15,721	18:30:00
- Stock Screener:** A window where users can define screening criteria and view the results. The results table is as follows:

Company Name	Price	Total Time	Market Cap	Div Yield	ROE	ROA	PE Ratio	Quick Ratio
International Business Machin.	142.80	6:30 PM EDT Sep 9, 2018	126,330	4.600	48.93	6.99	13.80	1.70
Genzyme	100.00	4:00 PM EDT Sep 9, 2018	125,950	3.972	49.93	6.99	13.80	1.70
Genzyme	100.00	4:00 PM EDT Sep 9, 2018	125,950	3.972	49.93	6.99	13.80	1.70

Premium Mutual Fund and ETF Research

The Mutual Fund and ETF Research Module provides in-depth information covering Overview, Profile, Performance, Risk Analysis, Attributes, Assets, Holdings, Detailed Insights and much more. QuoteMedia offers a comprehensive database offering with detailed insights into a wide range of U.S. and Canadian Mutual Funds, Exchange Traded Funds and other fund investment products, all licensed through a single source with flexible terms and robust delivery methods.

Overview

BNY Mellon Technology Growth Fund Mutual Fund

Symbol: DTGCK | December 13, 2019

Last: **24.85** | 5 Day: **0.09** | **0.36349%**

Investment Objective: **Investment Style: Large Growth**

The investment seeks capital appreciation. To pursue its goal, the fund normally invests at least 80% of its net assets, plus any borrowings for investment purposes, in the stocks of growth companies of any size that the adviser believes to be leading producers or beneficiaries of technological innovation. Up to 15% of the fund's assets may be invested in foreign securities. In choosing stocks, the fund looks for technology companies with the potential for strong earnings or revenue growth rates.

Fund Statistics

Fund Category:	Technology	Price To Book:	7.34
Market Value:	8.44n USD	Turnover:	68.92%
Return On A:	4.17	Market Capital:	65.24k B
Return On E:	11.46	Price To Earnings:	21.50
Price To Cash:	25.20	Price To Revenue:	6.0209
Book Value G.:	6.63	Cash Flow Gr.:	12.68
3 Year Earnings:	14.13	Revenue Gr.:	11.23

Fund Assets Info

Net Assets:	292.64n
Total Assets:	8.44n
Divident Pric:	Annually
Divident Amt:	6.8111 USD
TTM Yield:	0.00%
Divident Yield:	0.01% as of December 10, 2019

Asset Allocation

US Stock:	89.59%
Non US Stock:	10.49%
Cash:	9.76%

Sector Allocation

Technology:	16.42%
Consumer Cyclical:	9.24%
Communication Services:	8.12%
Financial Services:	4.25%

Country Allocation

United States:	89.59%
China:	7.21%
Taiwan:	4.47%
Canada:	3.01%

Funds data as of November 30, 2019

Fund Performance

Period	Return	Peer Return	Rank	Cat. Size
1 Month	0.35042%	0.173649%	63	284
3 Month	3.04016%	0.067162%	222	241
6 Month	7.67123%	10.302141%	215	230
1 Year	11.07295%	22.416404%	217	231
2 Year	18.02711%	21.482311%	164	150
3 Year	12.15527%	19.83473%	154	179
5 Year	15.61166%	16.644489%	128	163
10 Year	8.8185%	41.2872%	88	113
20 Year	3.00614%	5.251167%	37	53
Inception Date	4.99011%	11.532295%	-	-

Funds data as of November 30, 2019

Profile

BNY Mellon Technology Growth Fund Mutual Fund

Symbol: DTGCK | December 13, 2019

Last: **24.85** | 5 Day: **0.09** | **0.36349%**

Investment Objective: **Investment Style: Large Growth**

Summary and Structure

Inception Date:	April 11, 1999
Fund Group:	BNY Mellon Technology Gro...
Currency:	USD
Socially Responsible:	No
Exchange Traded Hold:	No
Exchange Traded Fund:	No
Available For Insurance Product:	No
Holdings:	No
Available For Retirement Plan:	No
Leveraged Fund:	No
Enhanced Index Fund:	No
Divident Investment Plan:	No
Index Fund:	No
Inverse Fund:	No
Available For Pension Plan:	No
Available For 529 Only:	No
HedgeFund:	No

Fee Information

Management Fee %:	0.75%
Prospectus Date:	December 21, 2018
Max Load Amt:	Yes
Net Expense Ratio (NEX):	1.92
Expense Projection 1 Yr (Per 1...):	229.00
Expense Projection 3 Yr (Per 1...):	615.00
Expense Projection 5 Yr (Per 1...):	1,057.00
Expense Projection 10 Yr (Per 1...):	2,284.00

Fund Company Information

Company Name:	BNY Mellon Advantage Fund...
Company Website:	https://im.bnymellon.com
State/Province:	NY
Street Address:	Advantage Funds, Inc 300 Park Avenue
City:	New York
Zip/Postal:	10066
Country:	United States
Country Of Registration:	United States

Purchase Info

Minimum Initial Investment:	1,000.00 USD
Minimum Subsequent Investment:	100

Availability

US:	AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, GU, HI, IL, IN, IA, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, PR, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, WY
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Matthew Griffin, Manager

Mr. Griffin has been a portfolio manager of the fund since December 2008 and is a Research Analyst on TSCAM's Core Research Team, covering the technology sector. Mr. Griffin has been employed by TSCAM since 2005. Mr. Griffin has been a dual employee of TSCAM and Dreyfus since January 2009. (Start Date: 2008-12-31)

Erik A. Swords, Manager

Mr. Swords is a director and senior research analyst and portfolio manager with The Boston Company Asset Management, LLC ("BCAM"), an affiliate of Dreyfus since 2005. Mr. Swords has been a portfolio manager since December 2008. Mr. Swords also has been employed by Dreyfus since 2009. (Start Date: 2008-12-31)

Holdings

Name	Symbol	Weight%	YTD	Market Val.	P/E Ratio	Currency	Country	Sector
Microsoft Corporation	MSFT	3.01%	55.301%	24,860,681,227.03	11.159	USD	US	IT
Apple Inc.	AAPL	3.55%	88.062%	18,573,535,919.45	13.759	USD	US	IT
Ariston.com Inc.	ARZN	2.41%	17.732%	1,919,632,451.42	15.503	USD	US	IT
Facebook Inc.	FB	1.03%	39.992%	10,984,212,159.42	6.900	USD	US	IT
Bankintive Railway Inc.	BRACB	1.34%	11.105%	8,671,215,246.13	1.386	USD	US	IT
J.P. Morgan Chase & Co.	JPM	1.25%	45.011%	13,671,389,355.26	1.825	USD	US	IT
Alphabet Inc.	GOOG	1.24%	31.435%	1,333,010,082.22	4.815	USD	US	IT
Alphabet Inc.	GOOGL	1.24%	39.275%	1,262,735,284.21	4.813	USD	US	IT
Johnson & Johnson	JNJ	1.17%	11.995%	12,601,086,187.17	6.411	USD	US	IT
Procter & Gamble Company (The)	PG	1.03%	41.436%	11,425,646,788.46	6.807	USD	US	IT

Funds data as of November 30, 2019

Market Indices Module

The Market Indices Module provides dynamically updating Last, Change, % Change, along with Open, High, Low values for a wide range of North American and Global Markets Indices. Users can easily choose which Markets from which countries to display.

The screenshot displays the Market Indices Module interface. The main window shows a table of market indices with columns for Name, Symbol, Last, Change, % Change, Open, High, and Low. A filter dialog box is open, allowing users to select indices by region (e.g., US, Canada, Europe, Asia-Pacific) and other criteria. The dialog box includes a tree view of index categories and a list of selected indices.

Name	Symbol	Last	Change	% Change	Open	High	Low
11 Week Treasury Bill Index	TR01	16.08	-0.02	-0.10%	15.98	16.23	16.08
CDIC Interest Rate 10 Year T Note	TR10	16.22	0.72	4.40%	15.96	16.35	15.87
Dow Jones Industrial Average	DJI	26615.51	39.95	0.14%	26603.53	26693.83	26752.18
Dow Jones Transportation Average	DJT	10106.55	207.54	2.02%	10339.47	10236.72	10335.51
Dow Jones Utility Average	DJU	842.34	-1.83	-0.21%	843.69	845.80	842.39
NASDAQ Composite	NDX	8057.5727	-13.8294	-0.16%	8130.95981	8114.65513	8052.34489
NASDAQ 100	NDX	7532.48202	-21.13344	-0.28%	7676.46205	7677.44445	7701.63887
NISE American Composite Index	NIAX	2460.2171	12.2125	0.49%	2468.8984	2463.7222	2468.2834
NISE Composite Index	NISE	12660.7209	37.3447	0.11%	12375.1151	12375.1151	12025.4091
Russell 1000	RUS1K	1545.8918	-1.85299	-0.14%	1647.85881	1551.83022	1640.02686
Russell 1000 Growth	RUG	1517.48627	13.38905	0.88%	1632.79205	1632.81805	1511.01916
Russell 2000	RUS2K	1924.28075	19.05884	1.27%	1958.57277	1926.89891	1906.79953
Russell 2000 Growth	RUG	989.418481	2.712105	0.27%	987.09952	993.619178	982.20984
Russell 3000	RUI	1746.37983	1.79468	0.14%	1745.52176	1748.11683	1738.04296
S&P 100	SPI100	1316.73	1.05	0.07%	1320.50	1320.71	1312.55
S&P 400 Mid Cap Ibs	SP400	1228.48	18.85	1.52%	1213.05	1228.37	1211.58
S&P 500	SP500	2978.41	0.73	0.01%	2988.43	2989.43	2969.39
Treasury Yield 30 Years	TYX	26.98	0.26	3.08%	20.70	21.16	20.44
Treasury Yield 5 Years	TY5	14.73	0.13	0.88%	14.41	14.87	14.49
SMPTX 60 Canada Revenue Exposure Index	NRCRCA	236.853844	-0.005568	-0.02%	1094.19	1094.40	1086.91
SMPTX 60 Capped Index	NRCCA	1088.39	0.13	0.01%	1088.39	1088.39	1088.39
SMPTX 60 Carbon Efficient Index	NRCCA	814.82895	-0.228403	-0.12%	814.82895	814.82895	814.82895
SMPTX 60 ESG Factor Weighted Index	NRCCA	1286.70187	-0.38822	-0.03%	1286.70187	1286.70187	1286.70187
SMPTX 60 Equal Weight Index	NRCCA	85.11	0.07	0.14%	150.85	150.85	149.87
SMPTX 60 Fossil Fuel Free Carbon Efficient Index	NRCCA	353.52294	-0.232958	-0.13%	353.52294	353.52294	353.52294
SMPTX 60 Fossil Fuel Free Index	NRCCA	1621.48793	-4.91583	-0.42%	1621.48793	1621.48793	1621.48793
SMPTX 60 Index	NRCCA	965.16	0.33	0.03%	965.16	965.16	965.16
SMPTX 60 Shares Index	NRCCA	143.49	2.44	1.71%	143.49	143.49	143.49
SMPTX 60 U.S. Revenue Exposure Index	NRCCA	212.84811	-1.582705	-0.73%	212.84811	212.84811	212.84811
SMPTX Canadian Dividend Aristocrats Index	NRCCA	271.84	0.36	0.13%	271.84	271.84	271.84
SMPTX Capped Communication Services Index	NRCCA	178.21	-0.07	-0.04%	177.67	178.25	177.20
SMPTX Capped Consumer Index	NRCCA	1810.78	-8.69	-0.44%	1810.20	1813.78	1803.90
SMPTX Capped Consumer Discretionary Index	NRCCA	206.38	0.17	0.08%	206.38	206.38	206.38
SMPTX Capped Consumer Staples Index	NRCCA	698.83	1.23	0.16%	698.13	698.47	692.47
SMPTX Capped Energy Index	NRCCA	131.89	2.87	2.22%	129.28	132.28	129.28
SMPTX Capped Financial Index	NRCCA	331.72	1.47	0.44%	330.67	331.83	330.52
SMPTX Capped Health Care Index	NRCCA	83.13	-1.58	-1.85%	95.68	95.90	82.46
SMPTX Capped Industrial Index	NRCCA	271.91	1.30	0.47%	271.91	271.91	271.91
SMPTX Capped Information Technology Index	NRCCA	113.09	-2.36	-2.08%	116.32	116.32	112.13
SMPTX Capped Materials Index	NRCCA	297.45	4.75	1.62%	291.76	291.76	284.56
SMPTX Capped REIT Income Index	NRCCA	131.382473	-0.70284	-0.53%	131.382473	131.382473	131.382473
SMPTX Capped REIT Index	NRCCA	194.95	-0.51	-0.42%	192.95	192.99	191.44
SMPTX Capped Real Estate Index	NRCCA	266.27	-0.75	-0.27%	266.27	266.27	266.27
SMPTX Capped Retail Index	NRCCA	224.69	1.29	0.56%	224.69	224.69	224.69
SMPTX Completion Index	NRCCA	998.23	-0.92	-0.09%	1000.43	1003.37	996.93
SMPTX Composite Index	NRCCA	1432.29	20.32	1.42%	1432.29	1432.29	1432.29
SMPTX Composite Canada Revenue Exposure Index	NRCCA	158.883429	-0.088071	-0.06%	158.883429	158.883429	158.883429
SMPTX Composite Dividend Index	NRCCA	131.51	0.02	0.02%	131.74	131.78	131.27
SMPTX Composite Enhanced Value - Lowest Dividend	NRCCA	211.676895	3.511892	1.66%	211.676895	211.676895	211.676895
SMPTX Composite Enhanced Value Index	NRCCA	477.919761	6.215841	1.32%	477.919761	477.919761	477.919761
SMPTX Composite Equal Weight Index	NRCCA	126.52	-0.14	-0.12%	121.00	121.00	120.32
SMPTX Composite Fossil Fuel Free Canada Revenue Exposure Index	NRCCA	162.29	0.20	0.12%	162.29	162.29	162.29
SMPTX Composite High Beta Index	NRCCA	16.58	0.25	1.50%	16.58	16.43	16.43
SMPTX Composite High Dividend Index	NRCCA	116.16	0.20	0.17%	116.16	116.19	116.16
SMPTX Composite High Dividend Index	NRCCA	166.09	-0.20	-0.12%	166.09	166.09	166.09
SMPTX Composite Index (Bkt 10)	NRCCA	208.078988	-0.466111	-0.22%	208.078988	208.078988	208.078988
SMPTX Composite Low Dividend High Dividend Index	NRCCA	197.484446	9.228825	4.72%	197.484446	197.484446	197.484446

Market Movers

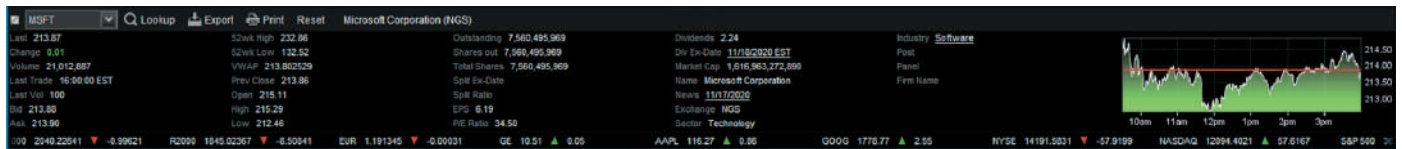
The Market Movers Module provides real-time information for all North American equity exchanges as well as LSE. The categories allow the user to focus in on a specific subset of leaders, as well as look at the entire list. Categories include: Volume Actives, Dollar Gainers/Losers, Percent Gainers/Losers, Dollar Volume Actives, 52 Week High, 52 Week Low, Market Hours, Pre Market and After Hours, as well as Display by Sector.

Market	NYSE	Volume Actives	Market Hours	Sectors	Last	Change	Change %	Values	Open	High	Low	Trade Volume	# Trades
AT&T Inc.		Volume Actives	Market Hours	All Sectors	36.79	0.54	1.49%	117,055,963	37.02	38.14	35.71	434026470.00	323,040
Chesapeake Energy Corporation		Dollar Gainers	Pre-Market	Basic Materials	1.89	0.31	19.0%	34,268,638	1.61	1.90	1.60	163262047.00	86,943
VanEck Vectors Gold Miners ETF		Percent Gainers	After Hours	Communication Services	27.73	-0.75	-2.6%	90,351,909	28.83	29.75	27.83	244457670.00	171,311
Bank of America Corporation		Percent Decliners		Consumer Cyclical	28.63	0.00	3.2%	68,629,343	28.00	28.8469	27.97	1892228420.00	102,795
Financial Select Sector SPDR Fund		Dollar Volume Actives		Consumer Defensive	27.86	0.42	1.5%	67,798,100	27.63	27.97	27.57	18,18662970.00	32,054
SPDR S&P 500 ETF Trust		52 Week High		Energy	298.29	0.15	0.0%	53,299,290	298.14	299.24	297.16	1494890330.00	241,469
General Electric Company		52 Week Low		Financial Services	8.96	0.25	2.8%	49,950,546	8.75	9.05	8.73	428326348.00	90,990
Snip Inc. Class A				Healthcare	16.31	-1.21	-7.8%	49,568,121	16.35	16.62	15.155	761917822.00	178,108
Ford Motor Company				Industrials	9.54	0.20	2.1%	48,059,365	9.39	9.65	9.39	430426532.00	75,978
SPDR S&P Oil & Gas Exploration & Production ETF				Retail E-tails	73.46	1.22	1.6%	48,778,337	72.44	73.51	72.44	1041199188.00	113,900
Caltion Petroleum Company				Application Software	0.63	0.03	5.4%	38,771,523	0.35	0.74	0.31	172447676.00	126,901
iShares MSCI Emerging Markets ETF				Utilities	41.26	0.13	0.3%	38,554,203	41.26	41.50	41.25	1488747500.00	51,972
Direxion Daily Gold Miners Index Bear 3X Shares				Communication Equipment	0.97	0.01	1.0%	32,792,732	0.92	0.97	0.94	23959216.00	48,308
Southern Energy Company				Computer Hardware	0.32	0.02	6.5%	32,606,632	0.30	0.32	0.29	8927270.00	65,892
Black Technology Inc. Class A				Online Media	24.6	-2.45	-9.9%	29,281,831	27.58	27.60	23.93	734053153.00	134,389
Wells Fargo & Company				Semiconductors	46.91	1.20	2.6%	27,051,420	47.32	48.64	46.89	1291170790.00	108,633
Consumer Staples Select Sector SPDR Fund				Communication Equipment	61.30	-0.14	-0.2%	27,082,417	61.41	61.47	61.13	1637885980.00	54,842
iShares Silver Trust				Computer Hardware	16.83	-0.04	-0.2%	26,029,994	16.93	17.01	16.80	433743892.00	26,621
iShares Russell 2000 ETF				Online Media	151.91	2.01	1.3%	25,780,078	150.57	152.24	150.86	264184482.00	126,888
Energy Select Sector SPDR Fund				Semiconductors	60.21	1.18	2.0%	24,757,225	59.40	60.35	59.30	1455028470.00	78,158
Dentistry Resources Inc.				Utilities	1.29	0.16	14.1%	24,556,960	1.15	1.30	1.14	38141702.00	25,772
Enrica Corporation				Computer Hardware	4.72	0.19	4.1%	24,413,211	4.61	4.82	4.6993	113504703.00	37,842
Transcan Ltd (Switzerland)				Computer Hardware	4.48	0.44	9.7%	23,801,691	5.17	5.52	5.04	1248161876.00	57,859
Banco Itaú Unibanco Holding SA American Depositary Shares (Each rep.				Computer Hardware	8.78	0.29	3.3%	23,584,075	8.08	8.975	8.08	200120911.00	38,385
Pfizer Inc.				Computer Hardware	38.83	0.33	0.9%	23,411,395	38.59	38.84	38.13	848270004.00	96,438
United States Oil Fund LP				Computer Hardware	12.08	0.31	2.6%	23,403,008	11.92	12.40	11.895	27718898.00	20,180
VanEck Vectors Junior Gold Miners ETF				Computer Hardware	38.00	-1.19	-3.0%	23,193,879	39.30	39.30	37.70	872267222.00	104,249
Banco Santander S.A Sponsored ADR (Spain)				Computer Hardware	3.94	0.07	1.8%	22,534,577	3.94	3.97	3.91	68959141.00	23,745
Range Resources Corporation				Computer Hardware	4.58	0.69	15.4%	22,531,551	4.01	4.62	4.00	97982081.00	68,710
Banco Bradesco SA American Depositary Shares				Computer Hardware	8.47	0.08	0.9%	21,248,318	8.49	8.66	8.45	122476457.00	37,200
Direxion Daily S&P Oil & Gas Exp. & Prod. Bull 3X Shar				Computer Hardware	4.91	0.59	12.2%	20,490,570	3.55	4.02	3.53	77507883.70	24,818
Barrick Gold Corporation (BIC)				Computer Hardware	17.41	-0.40	-2.3%	20,426,146	17.93	17.93	17.17	26318698.00	67,794
Clorox Inc.				Computer Hardware	66.79	2.82	4.2%	20,193,287	66.74	69.30	66.69	1368889810.00	107,149
VelocityShares VIX Variable Long/Short ETN				Computer Hardware	5.55	-0.45	-7.5%	20,156,446	5.79	5.83	5.51	115106636.00	25,135
Petrobras Brasileiro S.A. - Petrobras				Computer Hardware	14.92	0.22	1.5%	20,136,239	14.44	14.62	14.495	289302139.00	32,065
Clearya Inc.				Computer Hardware	8.76	-0.04	-0.5%	20,038,419	8.825	8.813	8.43	172665892.00	45,258
FrescoFoodNet Inc.				Computer Hardware	9.78	0.28	2.9%	19,778,200	9.47	9.75	9.44	185162722.00	58,847
iShares MSCI Brazil Capped ETF				Computer Hardware	42.13	0.00	0.0%	19,617,650	42.37	42.81	41.94	680882192.00	63,996
VALE S.A American Depositary Shares Each Representing one				Computer Hardware	11.61	0.27	2.3%	18,958,822	11.34	11.61	11.33	268110476.00	38,449
Toyo Pharmaceutical Industries Limited American Depositary Shares				Computer Hardware	7.44	0.43	6.1%	18,853,692	6.96	7.44	6.96	134435642.00	48,774
iShares Gold Trust				Computer Hardware	14.34	-0.07	-0.5%	18,548,958	14.44	14.46	14.12	268303848.00	8,869
Superior Energy Services Inc.				Computer Hardware	0.3401	-0.0141	-3.8%	18,468,005	0.3224	0.38	0.2685	6105053.71	14,412
VX 3X NAT GAS				Computer Hardware	21.42	2.46	12.9%	18,235,409	20.11	21.46	20.085	377568003.00	72,449
Oracle Corporation				Computer Hardware	54.54	1.38	2.6%	17,803,751	53.82	54.68	53.45	85477091.00	117,575
iShares iBoxx \$ High Yield Corporate Bond ETF				Computer Hardware	87.23	0.00	0.0%	17,484,101	87.00	87.26	87.02	148206203.00	29,439
INO Inc. American depositary shares each representing one Class A				Computer Hardware	3.14	0.16	5.1%	17,285,277	3.00	3.14	2.93	62979703.10	22,979
iShares Select Sector SPDR Fund				Computer Hardware	62.50	-0.26	-0.4%	16,824,965	62.68	62.78	62.38	162839630.00	76,336
ProShares Ultra VIX Short-Term Futures ETF				Computer Hardware	27.43	-0.38	-1.3%	16,654,192	27.09	28.63	27.00	450502199.00	95,281
Malvernoff plc				Computer Hardware	2.00	0.20	10.0%	16,047,694	2.00	2.14	1.80	22224523.00	45,757
Yamana Gold Inc. (Canada)				Computer Hardware	3.39	-0.68	-17.4%	16,359,477	3.47	3.465	3.39	44557870.70	25,742
Direxion Daily Gold Miners Index Bull 3X Shares				Computer Hardware	32.01	-2.79	-8.0%	16,388,778	30.30	30.63	31.59	539279691.00	132,327
KeyCorp				Computer Hardware	17.87	-0.87	-4.9%	16,387,792	17.03	17.76	16.955	27895078.00	68,512
KeyCorp				Computer Hardware	16.18	0.79	5.1%	16,072,874	15.49	16.26	15.42	251751658.00	66,894
iShares MSCI EAFE ETF				Computer Hardware	64.72	0.13	0.2%	15,950,558	64.73	64.74	64.57	1021103210.00	19,742
Ariero Midstream Corporation				Computer Hardware	7.24	0.58	7.9%	15,839,685	6.85	7.41	6.85	110308950.00	65,955
Cabot Oil & Gas Corporation				Computer Hardware	18.40	0.85	4.8%	15,727,455	17.66	18.44	17.66	283170750.00	57,404
Regis Financial Corporation				Computer Hardware	15.45	0.60	4.0%	15,609,912	15.00	15.61	14.97	235899072.00	58,740
Ariero MLP ETF				Computer Hardware	0.13	0.11	1.2%	15,297,118	0.94	0.94	0.94	138775185.00	18,415

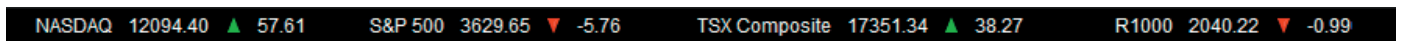
Snap Quote Bar and Stock Ticker

Quotestream Professional features a Snap Quote Bar for quick access to real-time quotes. The Snap Quote Bar is configurable so that the user can assign specific data points of interest into each section. The Snap Quote can be positioned horizontally or vertically in the application, or removed completely.

In addition, Quotestream Professional features a customizable dynamic Scrolling Ticker for users that want specific markets or company symbols to scroll across the screen. The Scrolling Ticker can be positioned at the top or bottom of the workspace, or removed completely.



Configurable Snap Quote



Stock/Market Ticker

Company Research Module

The Company Research Module provides quick access to comprehensive company research information with a click. Detailed Quotes, Charts, Fundamentals, News, History, Market Depth, Time and Sales, Insiders, Financials, Company Profiles, Share Statistics, Earnings, Analyst Ratings, Calendars, Corporate Actions are just some of the screens that make up the Research Module.

The screenshot displays the Company Research Module interface. The top window shows the 'Market Futures' section for 'Lumber Jan 2021' with a price of \$30.44, a change of 0.015, and a 0.07% increase. Below the chart is a table of futures contracts:

Future	Last	Chg	%Chg
Lumber Nov 2020	528.20	11.10	1.90%
Cotton Mar 2021	0.7235	0.00	0.00%
Cocoa Mar 2021	2,766.00	42.00	1.54%
Coffee Mar 2021	1.242	0.0705	6.02%
Corn Dec 2020	4.76.25	5.25	1.40%
Soybeans Jan 2021	1,193.25	9.25	0.78%
Soybean Meal Dec 2020	98.54	0.80	0.80%
Soy Oil Jan 2021	2.98.75	0.68	1.80%

The bottom window shows the 'Risk/Volatility (beta)' chart for the NASDAQ market. Below the chart is a table of company fundamentals:

Symbol	Name	1 Yr % Chg	Beta	Market Cap (M)	Shares Out	PE Ratio	Yield	30d Avg Vol
EXAS	Exact Sciences Corporation	-5.24%	1.7	14,162.28	180,167,208	-	-	20,194,678
AMZN	Amazon.com Inc.	73.39%	1.32	51,431.41	49,709,955	-	-	642,026
GOOGL	Alphabet Inc.	92.96%	1.6	1,812,981.85	809,899,851	115.3	-	5,005,520
MELI	Mercadolibre Inc.	16.79%	0.88	47,644.20	145,625,225	21.0	1.89	1,942,677
ILMN	Illumina Inc.	-3.04%	1.07	67,588.59	40,948,531	27.6	-	360,198
BQNE	Beigene Ltd.	85.47%	1.2	26,814.16	90,963,589	-13.5	-	2,388,888
MPWR	Monolithic Power Systems Inc.	25.96%	1.04	14,798.13	45,097,000	92.6	0.65	412,317

Ownership/Shareholders Module

The Ownership/Shareholders Module provides valuable information on the holdings of firms and funds, as well as Insiders Transactions for a symbol for up to the last 2 years. The data can be exported to CSV format or copied to a user's PC clipboard. Reports include: Current Holders and Historical Holders by Owners, Funds, or Owners & Funds. Also provided are Insiders Reports including Current Positions and Recent Transactions.

The screenshot displays the 'Ownership/Shareholders' module interface, which is divided into three main sections:

- Current Holders:** A table listing individuals and their roles within a company. Columns include Name, Title, Current Positions, and Total Holdings. For example, Jeffrey B. Smith is listed as Chairman and CEO with 1,962,277 shares.
- Historical Holders:** A table showing past ownership records. Columns include Name, Title, and Date. It tracks changes in ownership over time.
- Insiders Transactions:** A detailed table of insider trading activity. Columns include Name, Title, Transaction Type (e.g., Buy, Sell, Disposition), Date, and the number of shares. It provides a granular view of each transaction.

The interface includes various filters and navigation tools at the top, such as 'Filter', 'Export', and 'Print'. The data is presented in a clear, tabular format with alternating row colors for readability.

Market Research Module

The Market Research Module provides comprehensive information covering Market Overviews (Market Stats), Indices, Market Movers, Futures, Constituents, ETFs, IPOs, Forex, Rates and Market Calendars (Broker Ratings, Earnings Estimates, Corporate Actions).



Events Calendar Module

The Events Calendar Module provides corporate event information on a specified symbol for future and historical events. Corporate event data includes Broker Ratings, Earnings Pre-Announcements, Earnings Surprises, Earnings Estimate Revisions, Stock Splits, and Dividends.

The left screenshot displays a table of events for a symbol, with columns for Date, Type, Current Estimate, and New Range. The right screenshot displays a detailed view of a dividend event, with columns for Ex-Date, Amount, Record, Broker Ratings, Frequency, Notice, Payment Type, and Qualified.

Earnings Calendar Module

The Earnings Calendar allows the user to view upcoming earnings releases for securities on all North American exchanges. The Time, Estimated Earnings per Share and actual EPS are viewable from the calendar. The Earnings Calendar Module also includes an Upcoming Earnings tab, sortable by exchange, displaying Symbols and Company Names for current day and upcoming Earnings Releases.

The left screenshot displays a table of upcoming earnings releases, with columns for Exchange, Symbol, Company Name, and Date. The right screenshot displays a detailed view of an upcoming earnings release, with columns for Exchange, Symbol, Company Name, Period, # Est, Time, Est. EPS, EPS, and Surprise.

Analyst Ratings and Earnings Estimates

Quotestream Professional provides quick access to new ratings releases. The Broker Ratings module covers Upgrades, Downgrades, Coverage Initiated, and Coverage Reiterated. New earnings announcements are also readily available, with updates on Positive Earnings Pre-Announcements, Negative Earnings Pre-Announcements, Positive Surprises, Negative Surprises, and Earnings Estimate Revisions.

GOOG		Q Lookup				
Type:	Earnings Surprises	Print				
	Surprises	Expected EPS	Actual EPS	% Surprise		
Sep 1	Earnings Pre-Announcements	11.40	16.40	43.86		
Jun 1	Earnings Surprises	8.43	10.13	20.17		
Mar 1	Earnings Estimate Revisions	10.40	9.87	-5.10		
Dec 1	Stock Splits	12.76	15.35	20.30		
	Dividends					

Corporate Actions

The Market Research Module also provides Corporate Actions data, including up-to-date and historical Splits and Dividends.

GOOG		Q Lookup				
Type:	Earnings Surprises	Print				
Date	Surprises	Expected EPS	Actual EPS	% Surprise		
Sep 1, 2020	Positive	11.40	16.40	43.86		
Jun 1, 2020	Positive	8.43	10.13	20.17		
Mar 1, 2020						
Dec 1, 2019						

GOOG		Q Lookup				
Type:	Earnings Pre-Announcements	Print				
Date	Pre-Announcements	Current Estimate	New Range	Period		
Oct 20, 2020	Positive	45.16 - 45.16	45.3 - 45.3	FY20		
Oct 20, 2020	Positive	11.27 - 11.27	11.38 - 11.38	Q03		
Oct 20, 2020	Positive	13.91 - 13.91	13.95 - 13.95	Q04		
Jul 13, 2020	Positive	13.6 - 13.6	13.91 - 13.91	Q04		
Jul 13, 2020	Positive	9.22 - 9.22	9.45 - 9.45	Q02		
Jun 25, 2020	Negative	16.59 - 16.59	15.8 - 15.8	Q04		
Jun 25, 2020	Negative	13.2 - 13.2	12.49 - 12.49	Q02		
Apr 29, 2020	Negative	44.16 - 44.16	43.69 - 43.69	FY20		
Apr 29, 2020	Negative	56.82 - 56.82	55.42 - 55.42	FY21		
Feb 4, 2020	Positive	13.82 - 13.82	14.65 - 14.65	Q01		
Feb 4, 2020	Positive	11.92 - 12.52	12.1 - 12.81	Q01		
Feb 4, 2020	Positive					
Feb 4, 2020	Positive					
Feb 4, 2020	Positive					
Feb 4, 2020	Positive					
Feb 4, 2020	Negative					
Feb 4, 2020	Negative					
Feb 4, 2020	Negative					

GOOG		Q Lookup				
Type:	Earnings Estimate Revisions	Print				
Date	Source	Period	Previous Estim.	Revised Estimate	% Change	
Oct 20, 2020	Jefferies & Co.	2020	45.16	45.3	0.30%	
Apr 29, 2020	Jefferies & Co.	2020	44.16	43.69	-1.10%	
Apr 29, 2020	Jefferies & Co.	2021	56.82	55.42	-2.50%	
Feb 4, 2020	William Blair	2020	54.22	53.28	-1.70%	
Feb 4, 2020	William Blair	2021	62.2	61.27	-1.50%	
Feb 4, 2020	Piper Sandler	2020	54.36	54.57	0.40%	
Feb 4, 2020	Oppenheimer HLD	2021	69.69	68.7	-1.40%	

Futures and Commodities

The Futures Overview is also available in the Market Research module. The Futures Overview contains the most popular Futures/Commodities and their recent performance.



Forex Module, Foreign Exchange and Currencies

Quotestream Professional covers Global Currency Pairings, providing a broad view into the Forex market and global currency changes. The Forex Module provides Currency Cross-Rates, Charts, Last Sell Price, Change, and a Currency Converter.

The screenshot displays the Quotestream Professional software interface, specifically the Forex Module. The main window shows a list of securities with columns for Symbol, Name, Last, Change, % Change, Last Trade, Last VW, Bid, Bid Size, Ask, Ask Size, Volume, 52Wk High, 52Wk Low, Yield, Dividends, Div Date, EPS, P/E Ratio, Exchange, Currency, Open, Low, and High. A secondary window displays a grid of currency pair quotes (e.g., USD/AUD, USD/BBD, USD/GHD) with their respective last prices and changes. A third window shows a detailed view for 'ProShares UltraShort Nasdaq Biotechnology' with its bid/ask sizes, last price, and a small line chart.

History Module

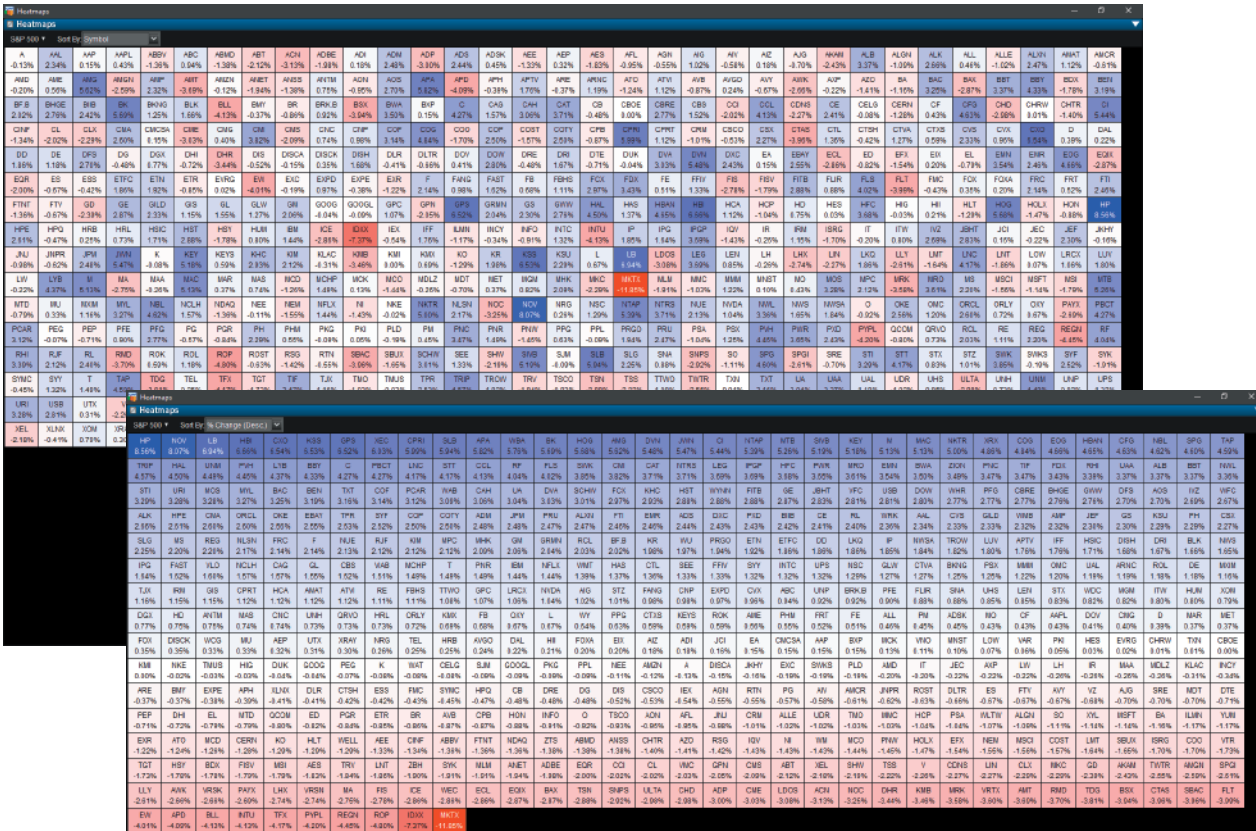
The History Module allows the user to enter a date range and review a company's trading history, over Daily, Monthly, Quarterly or Yearly time frames, for both Adjusted (for Splits and / or Dividends) and Unadjusted data. Data can be exported to a spreadsheet for easy storage and manipulation. The Historical Module also features a built-in Total Return Index Value (TRIV) Calculator for comparison of the security against a full range of Indices.

The screenshot displays the History Module interface with a table of trading data. The table columns include Date, Open, High, Low, Close, Volume, and various price metrics. The data is organized into a grid with multiple rows and columns. The interface also features a search bar, date range selector, and a list of filters.

Date	Open	High	Low	Close	Volume	TRIV	Trade Value	Change	% Change	Bid	Bid Size	Ask	Ask Size	EOQ WAP
Aug 5, 2019	195.64947	197.31731	193.30559	196.20435	35,824,767	282,363	700512019	3.64147	1.89%	196.07	3,700	197.80	167.80	196.5566
Aug 6, 2019	197.20058	197.88714	195.02628	197.15152	52,362,809	471,512	101330576	-13.03576	-5.22%	193.21	3,300	193.28	100	193.9133
Aug 7, 2019	204.14022	205.8822	200.82744	204.82122	24,485,422	214,875	620788009	4.20222	2.12%	204.08	24,800	204.18	2,700	203.0724
Aug 8, 2019	213.96038	217.20478	205.98978	207.04302	24,017,822	402,277	1702902000	-4.92024	-2.38%	208.44	7,800	208.48	4,800	211.3259
Aug 9, 2019	211.60885	226.53215	210.54603	212.25364	69,381,381	528,878	1502446038	4.24338	2.04%	212.78	4,000	212.79	3,000	214.3366
Aug 10, 2019	207.88843	209.34454	206.52332	207.84513	39,145,138	219,369	713901300	-3.95003	-1.83%	208.85	3,600	208.89	1,300	207.8946
Aug 11, 2019	207.67978	208.84278	207.05100	208.88341	21,673,389	176,181	4047378728	1.03307	0.50%	208.67	100	208.68	6,400	208.0471
Aug 12, 2019	206.69488	208.32617	205.35511	206.92374	17,618,014	126,852	267074259	-1.76756	-0.85%	207.74	1,000	207.76	2,400	207.4884
Aug 13, 2019	208.90251	208.44607	209.22452	209.90262	13,909,262	122,124	2684937078	-1.841758	-0.87%	207.03	300	207.06	800	208.9488
Aug 14, 2019	208.88389	208.38387	204.38882	207.880114	14,991,567	114,746	3121520009	3.148257	1.53%	204.83	64,500	208.70	100	207.4887
Aug 15, 2019	207.87978	208.11923	208.59247	208.60541	16,352,210	128,380	2682338498	1.013888	0.73%	208.83	2,600	208.84	100	207.3238
Aug 16, 2019	202.49185	206.44054	202.83336	202.77832	22,277,832	166,480	4984417078	1.01249	0.50%	207.22	10,500	207.24	4,200	204.3846
Aug 18, 2019	205.81185	205.71838	203.52487	203.82337	20,269,307	156,580	4274424429	-3.02828	-1.49%	202.57	700	202.59	15,100	202.5387
Aug 19, 2019	203.22286	205.18044	203.62869	204.82577	19,462,181	163,833	363337630	2.202263	1.10%	204.26	13,200	204.28	1,600	203.2524
Aug 19, 2019	203.22771	204.15259	203.03623	203.58012	14,607,650	100,620	2868500009	-1.44548	-0.71%	203.27	300	203.28	100	203.4749
Aug 19, 2019	203.13727	205.32874	202.72973	203.72586	16,898,810	137,721	3627776689	3.107352	1.53%	204.48	8,000	204.49	200	201.9819
Aug 19, 2019	203.37838	205.80789	203.22766	204.43338	18,817,620	138,181	3474268894	1.89277	0.93%	204.89	8,900	204.90	200	204.2584
Aug 19, 2019	203.18327	203.22788	203.42467	202.32051	17,295,212	146,521	2978349839	1.94434	0.77%	203.23	28,200	203.28	200	202.6374
Aug 19, 2019	202.50472	203.18324	203.94820	202.88378	20,111,842	155,884	4100172302	-1.67428	-0.72%	201.74	4,900	201.75	2,000	202.3925
Aug 19, 2019	201.86046	202.16682	202.76990	202.40774	17,897,138	148,483	3633260099	1.82467	0.93%	201.17	300	201.21	600	202.3944
Aug 19, 2019	198.46928	200.74726	198.05704	198.47837	20,578,935	170,458	4128179399	1.215302	0.61%	201.22	4,300	201.24	400	198.7952
Aug 19, 2019	200.88824	200.83701	197.69803	198.20824	20,328,208	217,845	4041882006	4.586689	2.30%	200.85	8,700	200.89	400	198.8814
Aug 19, 2019	202.38832	204.30372	202.32804	203.49889	17,205,938	181,286	3265877889	-8.173319	-0.89%	204.24	100	204.28	35,700	203.4224
Aug 19, 2019	202.51046	203.84846	201.02998	201.63038	11,392,245	93,126	2174748318	1.71341	0.83%	204.11	900	204.12	100	202.9845
Aug 19, 2019	200.87463	202.30444	200.02825	200.92825	15,925,217	105,847	3427941998	1.26743	0.63%	203.71	300	203.72	100	201.5411
Aug 19, 2019	202.49192	203.71805	198.89804	200.78713	27,216,738	226,170	5033196819	3.61626	1.83%	201.95	100	201.70	300	201.5495
Aug 20, 2019	197.87788	192.22911	195.28416	197.10872	21,142,424	162,823	8188814022	-1.023161	-0.51%	197.81	88,100	197.24	21,600	197.2378
Aug 20, 2019	195.93192	200.80708	198.41403	198.38384	20,899,717	150,443	5227175048	-9.008773	-4.53%	189.72	15,500	199.74	800	198.4649
Aug 20, 2019	197.07441	200.22925	196.61303	199.84375	28,367,512	203,263	5275148058	4.213869	2.16%	198.78	400	199.80	1,000	198.2263
Aug 20, 2019	197.87842	198.35691	198.62867	198.62974	17,370,334	178,380	4179476038	-2.88821	-1.52%	198.52	100	198.58	100	198.3488
Aug 20, 2019	198.80284	199.40284	197.82878	197.82878	18,220,621	132,488	3788301348	-3.98261	-2.15%	198.54	8,000	198.55	100	198.4583
Aug 20, 2019	198.04754	200.88093	197.40860	198.02916	18,020,165	180,783	8022116448	8.677746	4.39%	198.70	4,100	198.80	1,700	198.4687
Aug 20, 2019	198.61136	199.88828	197.28544	198.28544	21,633,689	162,783	4484946238	1.53386	0.78%	198.21	37,200	198.40	800	198.5444
Aug 19, 2019	198.80431	199.12584	198.58182	197.12082	21,124,225	165,795	4187882599	-3.577098	-1.76%	197.82	300	197.87	300	197.5222
Aug 19, 2019	195.39751	199.31892	194.41113	197.69887	20,561,064	213,383	5278344448	4.022712	2.04%	198.48	100	198.51	200	198.0984
Aug 17, 2019	192.46824	194.22276	191.44537	193.14654	14,669,144	114,811	264704789	1.434647	0.74%	193.94	1,600	193.95	100	193.3518
Aug 14, 2019	190.80882	192.85775	187.57715	192.85747	18,761,474	144,375	3605191299	-1.444802	-0.73%	192.74	200	192.75	12,800	191.4284
Aug 13, 2019	193.38381	196.14613	192.84512	193.14625	21,441,625	163,846	4217614648	-1.013318	-0.51%	193.87	1,400	193.88	24,200	193.3518
Aug 12, 2019	193.21689	193.62638	193.46491	193.21689	15,829,189	129,879	3641406648	3.817051	2.43%	194.18	100	194.19	600	193.8669
Aug 11, 2019	194.12245	195.25814	192.86724	194.07244	20,232,862	160,822	5204286099	2.221098	1.16%	194.80	1,000	194.81	100	193.9146
Aug 10, 2019	191.80388	194.83026	190.82918	193.22911	18,929,811	146,790	3687921728	2.408826	1.26%	194.80	3,000	194.80	600	193.8940
Aug 7, 2019	185.80426	191.19203	183.08881	184.43022	20,884,303	226,580	5822226019	4.81134	2.63%	188.14	8,200	189.16	1,100	188.071
Aug 6, 2019	182.28742	184.78729	181.45486	184.51884	22,526,311	180,118	414381009	2.88826	1.57%	188.21	100	188.28	200	183.1218
Aug 5, 2019	183.15625	188.42663	181.64366	181.64366	29,773,427	229,226	5443480059	2.88826	1.57%	188.21	100	188.28	200	182.1462
Aug 4, 2019	174.77986	178.14843	173.80028	176.80028	30,967,381	239,221	5510242198	3.115002	1.76%	178.05	100	178.06	27,600	171.3841
Aug 3, 2019	174.80584	177.34673	172.34673	174.80584	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 2, 2019	175.26289	177.31638	174.31638	175.26289	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 1, 2019	177.27849	178.52114	176.52114	177.27849	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 24, 2019	178.17942	181.45095	177.17942	178.17942	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 23, 2019	178.17942	181.45095	177.17942	178.17942	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 22, 2019	183.98182	185.30788	181.45095	183.98182	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 21, 2019	184.51884	187.26842	181.45095	184.51884	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 20, 2019	183.98182	185.30788	181.45095	183.98182	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 19, 2019	183.98182	185.30788	181.45095	183.98182	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 18, 2019	183.98182	185.30788	181.45095	183.98182	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 17, 2019	183.98182	185.30788	181.45095	183.98182	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841
Aug 16, 2019	183.98182	185.30788	181.45095	183.98182	27,346,773	212,848	4041882006	1.7821	1.01%	178.05	100	178.06	27,600	171.3841

Portfolio Heatmaps, Watchlist Heatmaps, Index and Sector Heatmaps

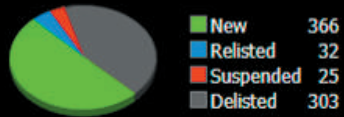
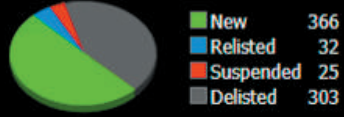
The Heatmaps Module offers an intuitive look at an entire portfolio or watchlist, as well as insight into the markets via visualizations of Index Constituents and Sector breakdowns. Color coding provides Up /Down change information at a glance, and each Heatmap can be sorted by Change or alphabetical criteria.



Heatmaps									
S&P/TSX 60 Capped Index									
Sort By: % Change (Desc.)									
WPM:TSX	K:TSX	SHOP:TSX	ABX:TSX	AEM:TSX	KL:TSX	BHC:TSX	SAP:TSX	GIB:A:TSX	
3.28%	1.63%	1.53%	1.51%	1.47%	1.40%	1.36%	1.32%	1.31%	
FM:TSX	TECK:B:TSX	DOL:TSX	CAR.UN:TSX	BPY.UN:TSX	CNQ:TSX	WN:TSX	IMO:TSX	WCN:TSX	
1.24%	1.04%	1.01%	0.88%	0.79%	0.78%	0.67%	0.66%	0.61%	
TRP:TSX	OTEX:TSX	RY:TSX	FTS:TSX	CSU:TSX	BNS:TSX	MRU:TSX	L:TSX	NTR:TSX	
0.53%	0.53%	0.50%	0.46%	0.38%	0.36%	0.35%	0.33%	0.32%	
MFC:TSX	AQN:TSX	WEED:TSX	BCE:TSX	BMO:TSX	QSR:TSX	NA:TSX	SJR.B:TSX	EMA:TSX	
0.31%	0.20%	0.17%	0.14%	0.12%	0.12%	0.10%	0.09%	0.07%	
RCI.B:TSX	CCO:TSX	SNC:TSX	CTC.A:TSX	CM:TSX	ENB:TSX	TD:TSX	FNV:TSX	ATD.B:TSX	
0.05%	-0.08%	-0.08%	-0.19%	-0.22%	-0.22%	-0.23%	-0.24%	-0.35%	
SLF:TSX	T:TSX	CP:TSX	PPL:TSX	TRI:TSX	POW:TSX	SU:TSX	MG:TSX	CCL.B:TSX	
-0.39%	-0.40%	-0.46%	-0.47%	-0.58%	-0.63%	-0.83%	-0.84%	-0.90%	
CNR:TSX	GIL:TSX	BIP.UN:TSX	IPL:TSX	CVE:TSX	BAM.A:TSX				
-0.99%	-1.04%	-1.31%	-1.55%	-2.13%	-2.53%				



IPO Data

Quotestream Professional also provides access to IPO information. In addition to Initial Public Offerings, other key Listing Events are also provided, such as companies that are Suspended, Delisted, or Relisted.

IPOs - North America					
IPO and Listing Events - USA					More Listing Events
Date	Exchange	Company Name	Symbol	Status	
11/30/2020	NMF	BlackRock Funds Liquid Environmentally Aware Fd Mischler Finl Group	PDFXX	New Listing	Summary For November 2020  <ul style="list-style-type: none"> New 366 Relisted 32 Suspended 25 Delisted 303
11/30/2020	NMF	Morgan Stanley Institutional Fund Trust High Yield Ptf Cl W	MSYWX	New Listing	
11/30/2020	NMF	Domini Investment Trust Intl Opportunities Fd Instl Shs	LEADX	New Listing	
11/30/2020	NMF	Domini Investment Trust Intl Opportunities Fd Inv Shs	RISEX	New Listing	
11/30/2020	NMF	Wasatch Funds Inc Greater China Fd Instl Cl	WGGCX	New Listing	
IPO and Listing Events - Canada					More Listing Events
Date	Exchange	Company Name	Symbol	Status	
11/25/2020	TSX	Manulife Smart Core Bond ETF Common Units	BSKT:CA	New Listing	Summary For November 2020  <ul style="list-style-type: none"> New 366 Relisted 32 Suspended 25 Delisted 303
11/25/2020	TSX	Manulife Smart U.S. Dividend ETF Unhedged Units	UDIV.B:CA	New Listing	
11/25/2020	TSX	Manulife Smart U.S. Dividend ETF Hedged Units	UDIV:CA	New Listing	
11/25/2020	TSX	Manulife Smart Corporate Bond ETF Common Units	CBND:CA	New Listing	

ETF Overview

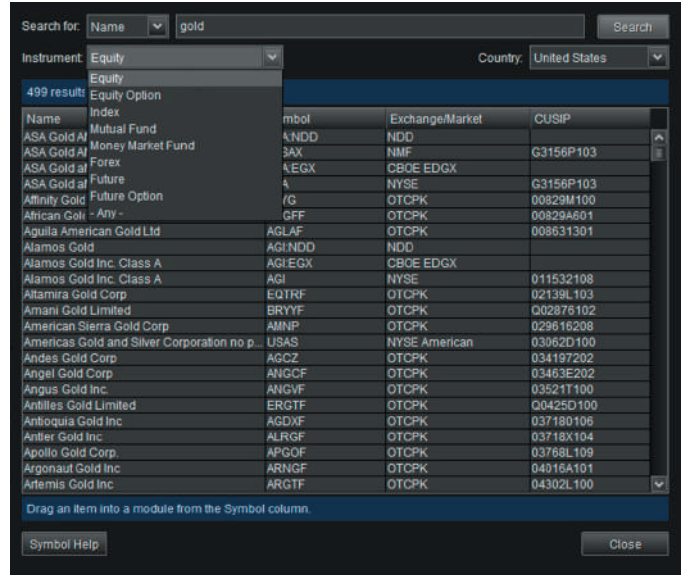
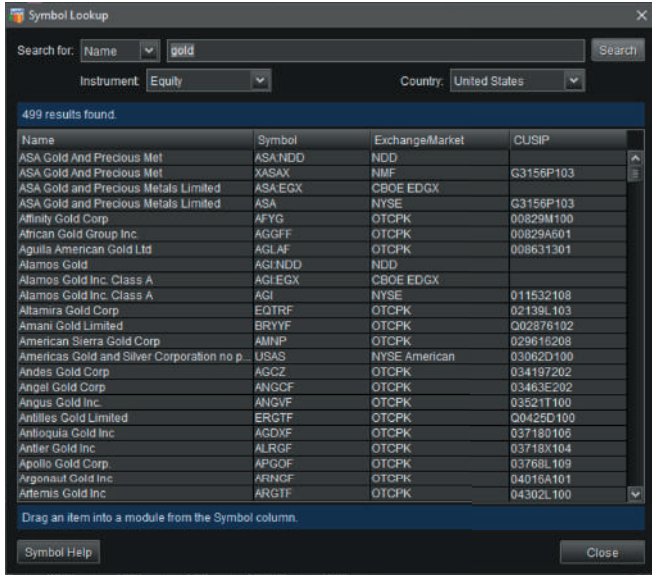
Quotestream Professional provides an Exchange Traded Funds Overview for both Canadian and US ETFs. The ETF Overview displays information on the best and worst performing ETFs, as well as an ETF Snapshot broken down by Fund Family.

ETF Performance Overview								
							1d	 
Best Performers								
ETF	Symbol	Last	\$ Chg	% Chg	52Wk High	52Wk Low		
DIREXION SH ETF TR	ERY	33.93	1.27	3.89%	379.37	32.51		
DIREXION SH ETF TR	NUGT	62.13	2.21	3.69%	214.10	24.15		
PROSHARES TRUST	DUG	28.27	0.87	3.18%	184.95	27.22		
PROSHARES TRUST II	UCO	32.85	0.90	2.82%	553.25	11.00		
PROSHARES TRUST	UBR	29.64	0.76	2.63%	94.40	12.29		

[More](#)

Symbol Search

The easily accessed Symbol Lookup window allows you to perform a refined search when you have some information about a company, but need to know the ticker symbol. You can search by Company Name, Instrument Type, as well as Country. Search results can provide Company name, Symbol, Exchange/Instrument, CUSIP, SEDOL, and ISIN. The Symbol Lookup provides results for not only US, Canadian, and UK instruments, but also for global international equities.



RTD and DDE Integration With Excel Spreadsheets

Quotestream Professional also has the ability to access the Windows Messaging Layer (Microsoft's RTD protocol), which links streaming real-time data to Excel spreadsheets and other third party applications.

RTD and DDE links extend market data access beyond Quotestream Professional, allowing you to manage unlimited client portfolios, import market data into third party applications, and run your own calculations through spreadsheets. QuoteMedia provides ready-to-use templates of commonly used datasets for MS Excel. However, any application that supports RTD and DDE can incorporate dynamically updating real-time intra-day data.

C	D	E	F
Name	Category	Price	Shares
Vanguard Emerging Markets	Stock	\$42.34	46.18
Vanguard Developed Market	Stock	\$80.60	43.07
iShares Core MSCI EAFE	Stock	\$63.79	0.21
Vanguard Small-Cap Value	Stock	\$139.28	6.46
Vanguard Mid-Cap Value	Stock	\$113.14	9.04
Vanguard Total Stock Market	Stock	\$145.23	33.09
Vanguard Value	Stock	\$106.86	11.65
Apple, Inc.	Stock	\$192.41	141.20
Google, Inc.	Stock	\$1,206.50	101.26
Cash	Cash	N/A	N/A

Real-time Alerts

Quotestream Professional provides real-time access to on-screen and email alerts. Users can be alerted on such criteria as when stocks reach a certain Price, Volume, Bid, Ask, Price Change, or when they hit their 52 Week High or Low. The user can also be notified when a filing is released, when a news release hits the wire, and can choose to receive an end-of-day summary. Alerts can be set to pop up on the user's screen, or the alert can be sent to the user's mobile device or email address. Users can also access their personal Alerts History, with dates and times of when alerts were triggered in the past.

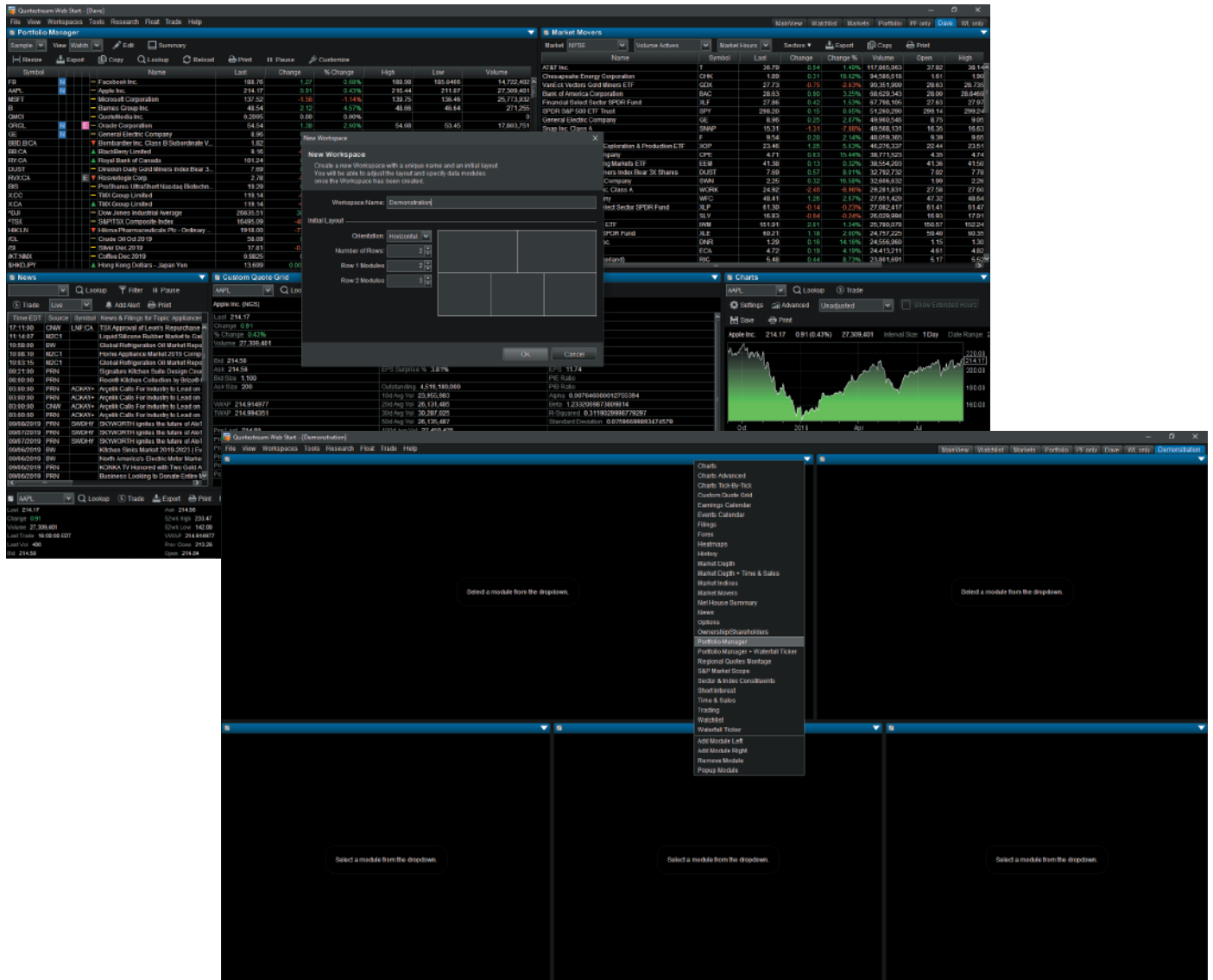
The screenshot shows the 'Alerts' window in Quotestream Professional. At the top, there are tabs for 'Settings' and 'History'. Below the tabs, it indicates '9 of 100 alerts created' and provides buttons for 'All On', 'All Off', and 'Add a New Alert'. The main area lists alerts for various stocks, each with a status indicator (On/Off) and buttons for 'Modify', 'Clone', and 'Delete'.

Stock	Alert Description	Status	Modify	Clone	Delete
\$CADUSD	Price Change is greater than 0.9	On	Modify	Clone	Delete
AAPL	News	On	Modify	Clone	Delete
AAPL	52 Week Low	Off	Modify	Clone	Delete
GOOG	Price is greater than 190	On	Modify	Clone	Delete
GOOG	End of Day Summary	Off	Modify	Clone	Delete
GOOG	Price Change is greater than 10	On	Modify	Clone	Delete
MFC:CA	News	On	Modify	Clone	Delete
MSFT	52 Week High	On	Modify	Clone	Delete
WORK	52 Week High	On	Modify	Clone	Delete

User-Created Custom Workspaces / Easy Modification

Quotestream Professional is completely customizable, allowing you to create as many different workspaces or layouts as you need. The Workspace Wizard is extremely easy to use and allows for various designs in horizontal and vertical formats, with as few or as many internal modules as you like.

Each workspace can be modified at any time, allowing the user to change the various modules on the fly. Switching back and forth between workspaces or modules inside the workspaces is also very easy, giving you quick access to different information and the ability to switch back again.



Custom Color and Font Settings

Quotestream Professional may be viewed in various light or dark color layouts. Fonts can be increased in size for easier viewing, and color sets are provided for users who have problems with reds and greens. In addition, Quotestream Professional provides the ability for the user to alter how areas of the modules change when a stock goes up or down. Some users prefer to have text colors change, while others prefer to have the entire row background color change. All of these settings are custom to the user.

The image displays a complex financial software interface with multiple overlapping windows. The primary window is titled 'Market Movers' and features a table with columns for 'Market Mover', 'Volume', 'Change %', 'Open', 'High', and 'Low'. The table lists various financial instruments such as 'AT&T Inc.', 'Chevron Energy Corporation', and 'Vodafone Group Plc'. Below this, there are several smaller windows, including 'Custom Quote Grid' which shows a grid of stock prices and 'Charts' which displays a line graph of stock price movement over time. The interface includes various navigation buttons like 'View', 'Refresh', and 'Print', and a top menu bar with options like 'File', 'Edit', and 'View'. The overall layout is dense with data and interactive elements.

Equity/Fund/ETF Reports (Tear Sheets)

Quotestream Professional provides custom auto-generated reports that are printable or downloadable at any time. Reports can be modified to specify specific data sets as preferred. Example data sets include Company Profile, Stock Performance, Charts, News, Filings, Corporate Events, Share Information, Key Ratios, Analyst Ratings and Financials.

The screenshot displays the Quotestream Professional interface with a 'Company Overview' report for Apple Inc. (AAPL) open. The report is divided into several sections:

- Company Profile:**
 - Company Name:** Apple Inc. (AAPL)
 - Exchange:** NASD Global Select Market
 - Company Address:** One Apple Park Way, Cupertino, CA, USA, 95014
 - Contact:** Website (<http://www.apple.com>), Phone (+1 408 996-1010), Fax (+1 408 974-2483), Email (investor_relations@apple.com)
 - Description:** Apple designs a wide variety of consumer electronic devices, including smartphones (iPhone), tablets (iPad), PCs (Mac), smartwatches (Apple Watch), and TV boxes (Apple TV), among others. The iPhone makes up the majority of Apple's total revenue. In addition, Apple offers its customers a variety of services such as Apple Music, iCloud, Apple Care and Apple Pay, among others. Apple's products run internally developed software and semiconductors, and the firm is well known for its integration of hardware, software and services. Apple's products are distributed online as well as through company-owned stores and third-party retailers. The company generates about 40% of its revenue from the Americas, with the remainder earned internationally.
 - Sector:** Technology
 - Industry:** Computer Hardware
 - SIC:** Electronic Computers (3571)
 - CEO:** Timothy D. Cook
 - Employees:** 132,000
 - Auditor:** Ernst & Young LLP
- Stock Performance:**
 - 3 Month Price - AAPLUS:** A line chart showing price movement from June to September 2019, with a current price of **\$214.17** (up 0.91 or 0.43%).
 - Key Metrics:**
 - Open: 214.84
 - High: 216.44
 - Low: 211.07
 - Volume: 27,309,401
 - Trade Volume: 298,879
 - Market Cap: 967.87b
 - EPS: 11.74
 - P/E Ratio: N/A
 - Ask (size): 214.56 (200)
 - Prev Close: 213.26
 - 52wk High: 233.47
 - 52wk Low: 142.00
 - VWAP: 214.915
 - Beta: 1.234
 - Shares Out: 4.52b
 - Dividend: 1.44
 - P/B Ratio: N/A
- Recent News & Filings:**
 - Sep 10, 2019, 12:01 AM: [A New Wave of M&A? The Corporate Debt & Mortgage Equation](#) - Stockhouse
 - Sep 9, 2019, 8:45 PM: [Apple's Big Event: What to Watch](#) - Motley Fool
 - Sep 9, 2019, 8:14 PM: [Buy Google \(GOOGL\) Stock Ahead of Q4 2019 Earnings?](#) - Zacks

Trade A.I.

Quotestream Professional's Trade A.I. platform provides real-time trading ideas, analytics and advanced risk management with respect to options and equities trading. Trade A.I. provides nine different perspectives of calculating options probability, and allows the trader to build and analyze a trade in order to help mitigate risk.

Our proprietary statistical modeling engine also serves up profitable trading ideas around optionable stocks. It provides probabilistic analysis of a stock's past and future moves, options sentiment, fundamental information, as well as sector and industry analysis to deliver a full view of the underlying asset.

quotedia
Options Trade Analysis

AMBA (Ambarinda Inc.)
Thursday, 11/29/19 Time: 9:42:27 EST

Current Bid: \$21.48 Ask: \$21.57 Last: \$21.48 Change: -0.11 (-0.5%)
Earnings Date: 11/25/19 After Market Close

Implied Volatility: 57.69% Change: +3.26%

Intrinsic Volatility for Nov. 29 Exp.: 95.56%

Expiration Date: 11/29/2019 (0 Days to Expiration) W

Exp. Month	Strike Price	Option Price			%IVM %OTM	Yield to Strike	Annual Yield	IV Skew	Probability of Stock Price not reaching Strike Price								
		Bid	Ask	Mid					Normal	Short	Long	RSI	SO	PPD			
Nov-29	49.50	4.91	4.83	4.87	9.17	2.42	193.30	180.24	97.81	74.18	96.53	99.63	97.85	84.00	96.1	88.16	94.1

Click on any probability field below to see the related chart

STOCK TREND RATE ▲ 3.1% trends

OPTIONS SENTIMENT RATE ▲ 2.4% trends

SECTOR Basic Materials

Symbol	Price	Stock Rate	Option Sentiment	Overall Rate
ACM	55.6	▲	▲	▲
AFD	226.33	▲	▲	▲
ALI	19.04	▲	▲	▲
BEL	44.42	▲	▲	▲
BCC	37.02	▲	▲	▲

INDUSTRY Metals & Mining

Symbol	Price	Stock Rate	Option Sentiment	Overall Rate
ACM	55.6	▲	▲	▲
AJ	19.04	▲	▲	▲
BRL	44.42	▲	▲	▲
BHP	51.53	▲	▲	▲
BTC	3.48	▲	▲	▲

AAPL (Apple Inc.) Monday, 12/02/19 Time: 14:41:12 EST

Current Bid: \$265.38 Ask: \$265.43 Last: \$265.38 Change: -0.5 (-0.17%)

Implied Volatility: 20.84% Change: +0.01%

Intrinsic Volatility for Dec. 13 Exp.: 10.72%

Expiration Date: 12/13/2019 (11 Days to Expiration) W

%IVM %OTM	Yield to Strike	Annual Yield	IV Skew	Option Price	Build Trades	Exp. Month	Strike Price	Build Trades	Option Price	%IVM %OTM	Yield to Strike	Annual Yield	IV Skew
6.02	0.19	6.41	34.79	23.26	29.00	Dec-13	242.00	Buy	0.20	0.29	8.62	0.07	4.00

Select if you want to Buy/Sell Stock

Trades	Cost/B	Probability of Profit					
		Normal	Short Hat	Short ST	Long Hat	Long ST	PPD
Buy Dec-13 250.00 Put Sell Dec-13 265.00 Put	0.37	80.48	86.4	87.6	86.96	65.52	88.42

Theoretical vs. Historical Probability Distribution Chart

WMT - Walmart Inc.
Based on Nov. 29w expiration

Mean: 123.16 Median: 123.3 Stand Dev: 6.41 Skewness: -0.72 Kurtosis: 4.26
 Current Price as Mean: 119.6975 Stand Dev: 7.29 Skewness: 0.72 Kurtosis: 2.71

1 year ■ Hist. Occur. — Theor. Occur.

Historical Probability on Expiration Chart

WMT - Walmart Inc.
Based on Nov. 29w expiration

— Theor. Prob. — HT Prob 1-Yr

Trade Integration

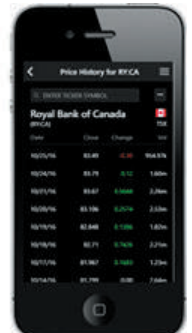
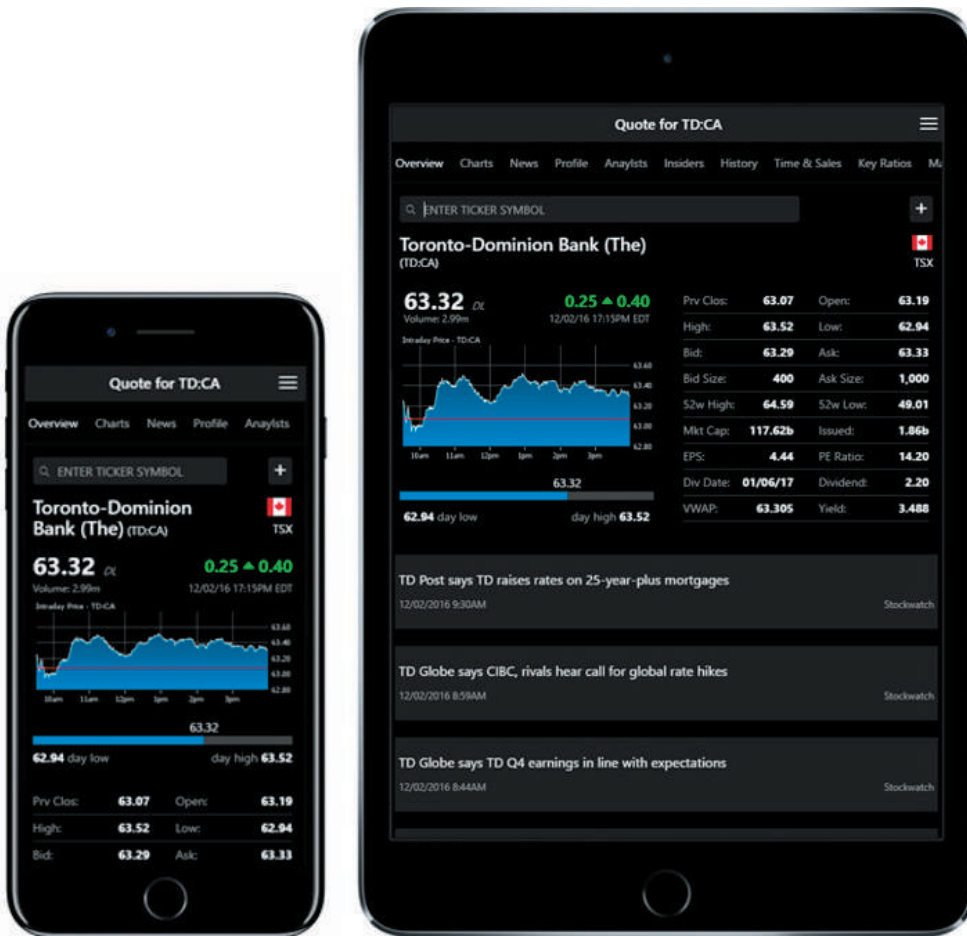
Quotestream Professional was designed to integrate with any trading platform. As Quotestream Professional is already modular in design, adding trading modules can be done quickly and effectively, creating a custom interface to any trading and order management system. Users can access a trading interface from any module by clicking on a symbol, a Level 2 montage, or even a chart.

Trade links can also be incorporated into the main navigation, and custom trading modules can be created, providing quick access to buying, selling, checking open orders, reviewing account history, or accessing any other trade specific information.



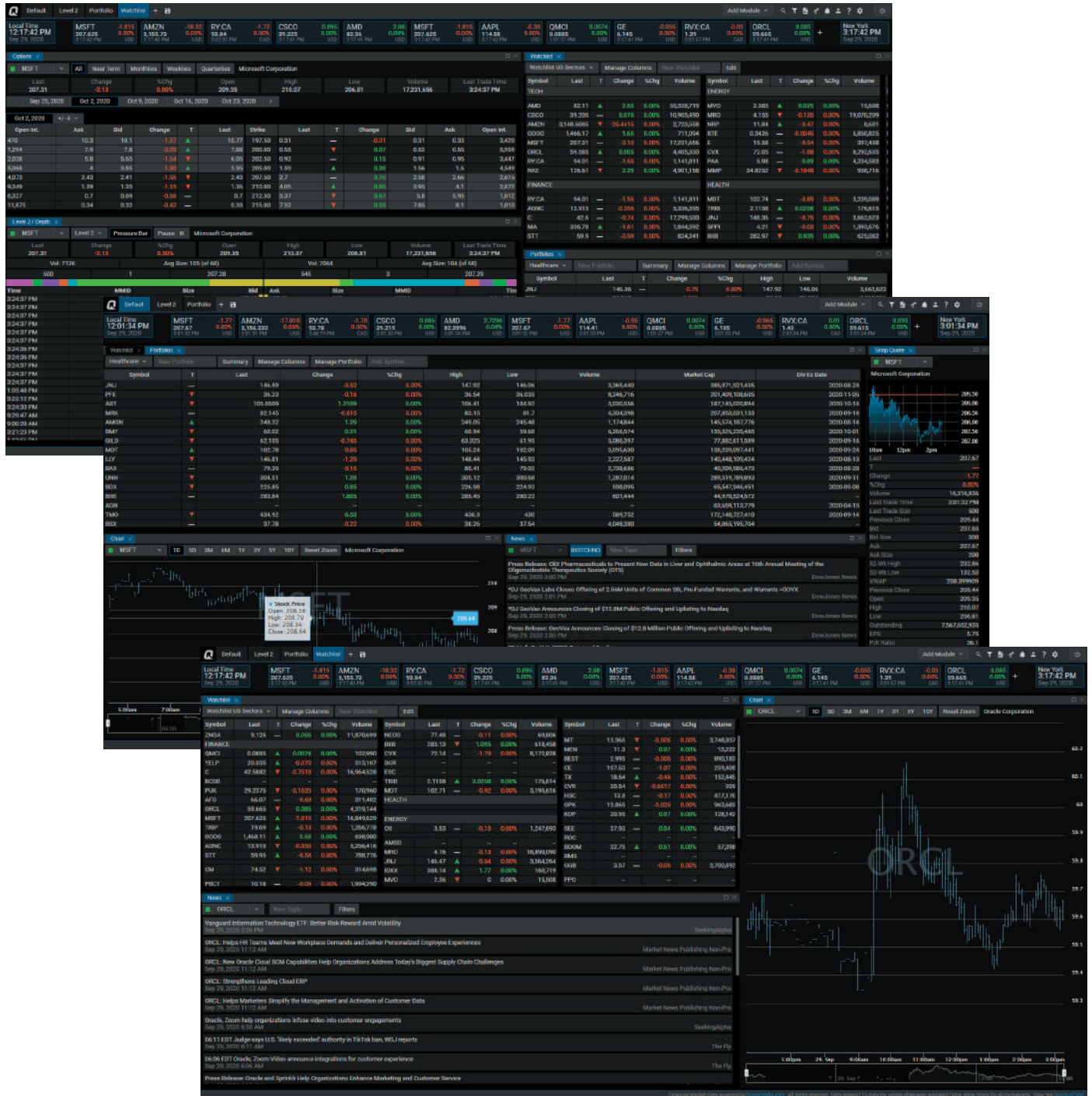
Quotestream Mobile

Quotestream Professional also features the Quotestream Mobile App, available on Android and IOS tablets and phones (Apple App Store and Android Google Play). The app provides access to all the same Portfolios and Watchlists, as well as the same market data. The Desktop application and the Mobile app work in a co-companion relationship, where any changes made on one device immediately transfer to the other.



Quotestream Web

Quotestream Web is a new HTML 5, browser-based application by QuoteMedia. It delivers real-time streaming data to a browser. Much like Quotestream Professional, it features customizable workspaces, draggable modules, and provides feature rich portfolios, watchlists, charts, news, research and more.



Administration Area for Account Maintenance and Reports

QuoteMedia can provide access to QuoteMedia's Client Admin system. This provides real-time access to view user entitlements to product levels and data.

The Client Admin also provides monthly reports for submitting to the exchanges, indicating real-time streaming users, snap quote counts, and users that are capped. QuoteMedia's quote counting system caps users once they have reached their maximum threshold, so as to not incur unnecessary additional exchange fees.



Integration with 3rd Party Data and Information

Because Quotestream Professional was built with modular technology, the product has the ability to seamlessly integrate 3rd party information, data, trading systems, and even external applications. Companies with proprietary information or specific trading requirements can benefit from the advantages of total integration into a single application. The Quotestream Professional application can readily incorporate proprietary content.

Integration with Websites

This capability provides embedded access to Adviser sites for users that have login access. Quotestream Professional is also capable of single sign-on, for a seamless user experience between two systems.

Integration with Wealth Management

QuoteMedia has integrated Ndex System's scalable web-based portfolio management platform with Quotestream Professional. This brings to entitled users features including consolidated views of client accounts, easy performance measurement, custom reporting, automated compliance, CRM capabilities, as well as Fee Billing, Securities and Trade Order Management and comprehensive Reporting features for the Advisor, Branch Manager and Head Office.



Ndex is excited and pleased with the partnership and integration with QuoteMedia's Quotestream Professional. We know this relationship will be beneficial for our clients from both an economic and powerful functionality point of view. I believe with the power of both the Quotestream Professional product and our F-Engine, clients will find their productivity increased dramatically.

Additional QuoteMedia Solutions

Web Content Solutions

QuoteMedia offers a wide range of content solutions, from simple scrolling stock tickers to full-scale market research portals. All of QuoteMedia's user-friendly products are completely customizable, easily embed directly into your web pages for seamless integration with your existing content, and comprise only a single line of code for quick installation and fast loading efficiency.



Quotestream Active Trader (for Non-Professional Retail Clients)

Quotestream Active Trader is the latest in streaming real-time portfolio management for retail, non-professional users. This robust application is the perfect solution for Banks, Brokerage firms, and Online Portals that want to provide their customers with streaming real-time market data, news, research, and full-featured portfolio management. The monthly non-professional per-user fee is very attractive for enterprise customers wanting to offer the best for their clients.

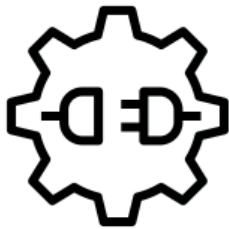


Additional QuoteMedia Solutions



Streaming Data Feeds

QuoteMedia's Data Feed technology is built on a scalable system that aggregates, manages, and streams information from the stock exchanges, and from other information and content feeds, to power all of our applications with the highest quality low latency data in the industry.



Quotestream Connect APIs

Quotemedia provides streaming and request-based data feed services for powering applications on a per-user basis. This entitlement driven product will stream data over an open socket to power 3rd party products.



XML and JSON Raw Data Delivery

QuoteMedia's on-demand data services offer a comprehensive array of XML and JSON request-based data. XML and JSON facilitate bringing financial data to third party applications or powering web interfaces. Clients can pull real-time data, fundamentals, news, research, historical data and much more.

Additional QuoteMedia Solutions

QuoteMedia's QMod - Full Content Modular Web Solutions

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AC TSX EXCHANGE
NOV 27, 2020 5:05 PM ET

Air Canada Voting and Variable Voting Shares

SECTOR INDUSTRIALS INDUSTRY TRANSPORTATION

REAL TIME PRICE: \$24.86
CHANGE: ↑1.04 (+4.36%)
VOLUME: 9,619,740

+ ADD TO WATCHLIST | SUBSCRIBE TO ALERTS

TIMEFRAME: 1D 5D 1M 3M 6M 1Y 5Y 10Y

Key Data

LAST UPDATED: NOV 27, 2020, 4:04 PM ET, SOURCE: QUOTEMEDIA

OPEN: 23.81 | DAY HIGH/LOW: 25.95/23.00 | 52 WEEK HIGH/LOW: 52.71/9.24

MARKET CAP: 7,374,490,995 | MARKET CAP (ALL CLASSES): 7,367,239,856 | LISTED SHARES OUT: 294,729,324

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General Electric Company (GE) Option Chain

GE \$9.36 ↑0.22 ↑2.41%

*Delayed data as of Sep. 11, 2019 - Find a broker to begin trading GE now

Exchange: NYSE
Industry: Energy
Community Rating: Bullish

GE

Save Stocks

Call and put options are quoted in a table called a chain sheet. The chain sheet shows the price, volume and open interest for each option strike price and expiration month.

Option Chain | Most Actives | Greeks

GE Options: Composite | Calls & Puts | Near the Money | Type: All (Types) | Go

Sep 19 | Oct 19 | Dec 19 | Jan 20 | Mar 20 | Jun 20 | Jan 21 | Near Term | All

Option Chain for General Electric Company (GE)

Call/Put	Last	Chg	Bid	Ask	Vol	Open Int	Root	Strike	Puts	Last	Chg	Bid	Ask	Vol	Open Int
Sep 06, 2019	0.21	0	0	0	0	0	GE	8.5	Sep 06, 2019	0.01	0	0	0	0	12422
Sep 06, 2019	0.01	0	0	0	19000	0	GE	9	Sep 06, 2019	0.20	0	0	0	0	0
Sep 06, 2019	0.01	0	0	0	4253	0	GE	9.5	Sep 06, 2019	0.02	0	0	0	0	0
Sep 06, 2019	0.01	0	0	0	6095	0	GE	10	Sep 06, 2019	1.32	0	0	0	0	0
Sep 13, 2019	0.05	0.23	0.03	0.05	1177	3414	GE	8.5	Sep 13, 2019	0.01	0.01	0.01	0.01	616	12247
Sep 13, 2019	0.05	0.02	0.04	0.05	14700	21507	GE	9.5	Sep 13, 2019	0.22	-0.20	0.21	0.22	1344	2192
Sep 13, 2019	0.02	0.01	0.02	0.02	987	4727	GE	10	Sep 13, 2019	0.00	-0.21	0.00	0.00	794	529
Sep 20, 2019	0.07	0.10	0.06	0.09	501	29735	GE	8.5	Sep 20, 2019	0.04	-0.02	0.04	0.05	1173	11140
Sep 20, 2019	0.43	0.13	0.43	0.44	10564	43292	GE	9	Sep 20, 2019	0.11	-0.08	0.10	0.11	12829	137712
Sep 20, 2019	0.70	0.14	0.65	0.90	30	2773	GE1	9	Sep 20, 2019	0.11	0.05	0.13	0	0	78011
Sep 20, 2019	0.14	0.04	0.14	0.15	10400	10907	GE	8.5	Sep 20, 2019	0.30	-0.16	0.30	0.31	2007	1455
Sep 20, 2019	0.03	0.03	0.03	0.04	4500	73633	GE	10	Sep 20, 2019	0.70	-0.21	0.69	0.71	551	81052
Sep 20, 2019	0.09	-0.01	0.02	0.11	1	6067	GE1	10	Sep 20, 2019	0.50	0.39	0.50	0	0	10923
Sep 27, 2019	0.00	0.10	0.01	0.04	305	5501	GE	8.5	Sep 27, 2019	0.00	-0.04	0.00	0.00	537	7510
Sep 27, 2019	0.51	0.11	0.51	0.52	934	17300	GE	9	Sep 27, 2019	0.10	-0.08	0.10	0.10	482	1040
Sep 27, 2019	0.23	0.07	0.22	0.23	836	6282	GE	9.5	Sep 27, 2019	0.40	-0.15	0.37	0.39	87	1133
Sep 27, 2019	0.00	0.02	0.00	0.00	426	4420	GE	10	Sep 27, 2019	0.03	-0.02	0.03	0.05	3	410

Options Center

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QuoteMedia has a variety of market data solutions. We would be happy to discuss all of your options, and help you find the solution that best fits your business model.

Please contact a QuoteMedia account representative and we will answer any further questions you might have regarding Quotestream Professional, or any of QuoteMedia's other financial information solutions.

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