ADAGE 3.0 Data Model Version 1.2

# Introduction

# The FAIC research group adheres to a specific set of conventions for data storage, as elaborated in this document. The ADAGE 3.0 Data Model is crafted to organize data efficiently, ensuring it is both integrable and comprehensible, thereby facilitating accessibility and understanding.

The data model's main goal is to bring together all kinds of different data into one clear and organized system. Think of it as a way to make sense of all the information from various places - like social media, weather stations, or financial reports - and put it together so it's easy to understand and use. The model does this by giving each piece of data a label based on where it comes from, what kind it is, and when it was gathered. It pays special attention to "events," or specific things that happen, making it easier to analyze when and why these events occurred. In short, this data model helps us combine and organize lots of different information.

**Questions and Comments**

For any inquiries or feedback, please contact Alan Ng at [siu\_lung.ng@unsw.edu.au](mailto:siu_lung.ng@unsw.edu.au)

**Code Examples**

Examples and templates can be found in our repository: [AdageDataModel](https://github.com/alanntl/AdageDataModel.git)

# Data Model Concept

The essence of a data model lies in its ability to deconstruct and organize the complex array of information within a dataset into a hierarchical structure. In our contemporary context, data is amassed from a myriad of sources, each varying in its nature and timing. The utility of a data model becomes evident as it facilitates the seamless merging of these diverse data streams. For the purposes of clarity and coherence, we can consider every dataset as an ensemble of "events." In this framework, each data point within a time series is treated as an individual event, whereas entire datasets from non-time-series sources can be conceptualized as singular, overarching events. This approach not only simplifies the organization of data but also enhances our ability to interpret and analyse it within a unified model. The below figure presents the structure of the data model:

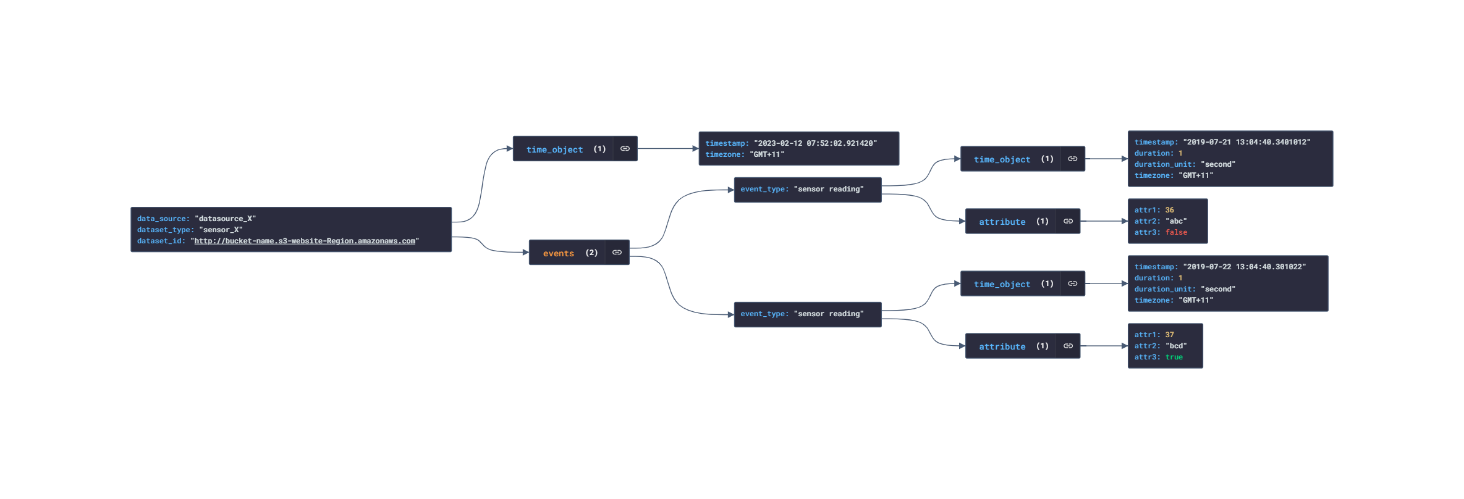


Figure 1. Data Model Concept

The data model provided is designed to encapsulate comprehensive details about datasets originating from various sources, specifically tailored for effective organization and accessibility of data events. Here's a detailed description:

* **Data Source**: Origin of the dataset. This field identifies the origin or provider of the dataset, which could range from sensor data to web scraping sources. It's essential for tracing data back to its roots and understanding its context.
* **Dataset Type**: Classification of the dataset. Categorizes the dataset into a specific type, such as sensor data, financial records, or social media analytics. This classification aids in filtering and processing datasets based on their inherent nature.
* **Dataset ID**: A unique identifier for the dataset, such as an AWS S3 link. This serves as a means to access or reference the dataset, indicating that the data is stored in an Amazon Web Services S3 bucket.
* **Dataset Time Object**: Contains temporal information about the dataset itself, including:
  + **Timestamp**: The timestamp marking the dataset's creation or last update.
  + **Time zone**: The time zone of this timestamp. This aspect is crucial for time-sensitive data analysis and synchronization across different geographic locations.
* **Event**: Represents a data point within the dataset, detailed further into:
  + **Event Time Object**:
    - **Timestamp**: Specifies the exact time an event occurred.
    - **Duration**: Time duration for the event (along with the unit of measurement, e.g., seconds).
    - **Time zone**: Time zone for the event. This granularity allows for precise temporal analysis of events.
  + **Event Type**: Nature of the event, such as "sensor reading". Describes the nature of the event, vital for understanding what the data represents and how it should be interpreted.
  + **Event Attributes**: Specific data points related to the event, such as attribute x, y, z, ..., n. It's a flexible structure to include any number of attributes related to the event, showcasing the model's adaptability to different data types and formats. Examples given include attributes like temperature (attr1), a string value (attr2), and a boolean value (attr3).

# Data Model Template

\*A JSON visualization tool like [JSONCrack](https://jsoncrack.com/editor) can be used to display the JSON structure graphically. Below is an example template: 

{ "data\_source": "datasource\_X", "dataset\_type": "sensor\_X", "dataset\_id": "http://bucket-name.s3-website-Region.amazonaws.com", "time\_object": { "timestamp": "2023-02-12 07:52:02.921420", "timezone": "GMT+11" }, "events": [ { "time\_object": { "timestamp": "2019-07-21 13:04:40.3401012", "duration": 1, "duration\_unit": "second", "timezone": "GMT+11" }, "event\_type": "sensor reading", "attribute": { "attr1": 36.0, "attr2": "abc", "attr3": false } } ] }

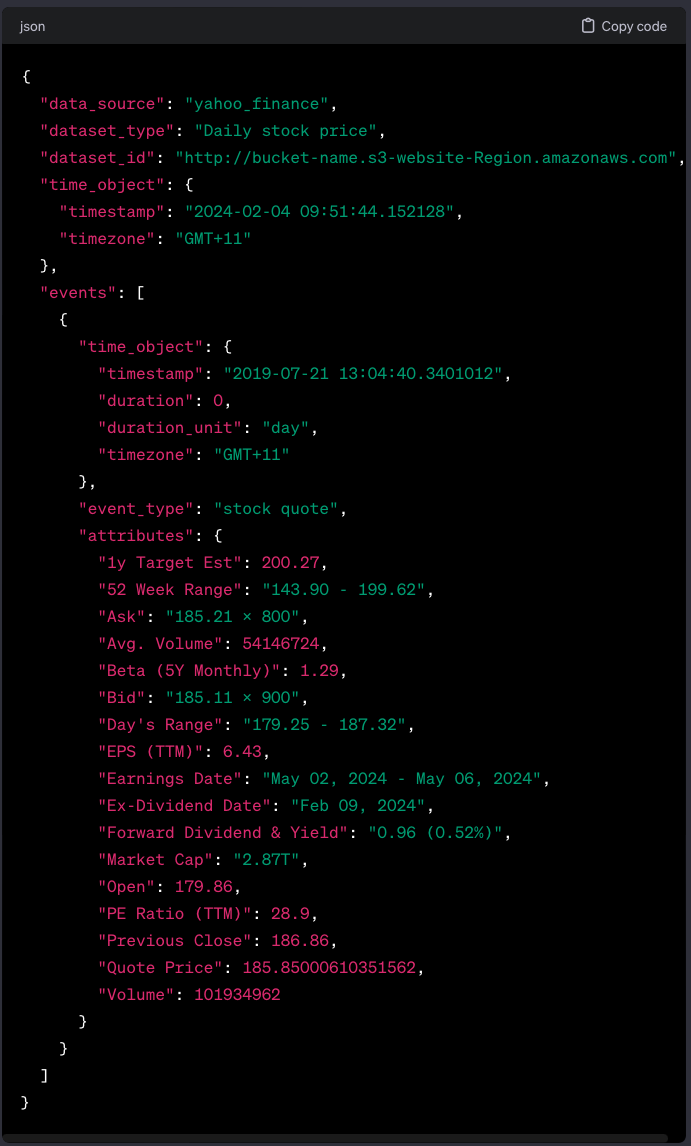
# **Case Study: Yahoo Finance**

Utilize the visualization tool provided above to inspect JSON structures. The case studies include examples such as stock quotes, OHLC (Open, High, Low, Close) data, and stock news events, showcasing the versatility of the data model in handling various types of financial data.

## Stock quote:

A screenshot of a computer

Description automatically generated with medium confidence



## Stock OHLC (timeseries):

Graphical user interface, Teams

Description automatically generated

A screenshot of a computer program

Description automatically generated

## Stock News (news event):

![Graphical user interface

Description automatically generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAEgoAAAnxCAYAAACRZR6+AAAAAXNSR0IArs4c6QAAIABJREFUeJzs3Ntrz3Ecx/HXdzZiNoftVlzM5ErKhZJD0lYiK6uNdu3KzfIPuJOLKeXKNW1lqykXlAsp5c4lm6VIMjGU0g6/zYVyya72+eLxuHrfvOv1FzwTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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A screen shot of a computer program

Description automatically generated

## 4. Mix all events above (Mixed):

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer screen

Description automatically generatedA screen shot of a computer code

Description automatically generated

# Appendix A: Data Dictionary

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Data source** | **Dataset type** | **Event type** | **Attribute name** | **Attribute value (e.g.)** | **Unit** | **Data format (Python)** |
| Yahoo finance | Daily stock data | Stock quote | 1y Target Est | 169.15 | USD | float |
| Yahoo finance | Daily stock data | Stock quote | 52 Week Range | 124.17 - 179.61 | USD | str |
| Yahoo finance | Daily stock data | Stock quote | Ask | 151.28 x 1100 | USD | str |
| Yahoo finance | Daily stock data | Stock quote | Avg. Volume | 76245434 | Number | int |
| Yahoo finance | Daily stock data | Stock quote | Beta (5Y Monthly) | 1.28 | Number | float |
| Yahoo finance | Daily stock data | Stock quote | Bid | 151.15 x 900 | USD | str |
| Yahoo finance | Daily stock data | Stock quote | Day's Range | 149.22 - 151.34 | USD | str |
| Yahoo finance | Daily stock data | Stock quote | EPS (TTM) | 5.89 | USD | float |
| Yahoo finance | Daily stock data | Stock quote | Earnings Date | Apr 26, 2023 - May 01, 2023 | N/A | str |
| Yahoo finance | Daily stock data | Stock quote | Ex-Dividend Date | Feb 10, 2023 | N/A | str |
| Yahoo finance | Daily stock data | Stock quote | Forward Dividend & Yield | 0.92 (0.61%) | USD | str |
| Yahoo finance | Daily stock data | Stock quote | Market Cap | 2.389T | USD | str |
| Yahoo finance | Daily stock data | Stock quote | Open | 149.46 | USD | float |
| Yahoo finance | Daily stock data | Stock quote | PE Ratio (TTM) | 25.64 | N/A | float |
| Yahoo finance | Daily stock data | Stock quote | Previous Close | 150.64 | USD | float |
| Yahoo finance | Daily stock data | Stock quote | Quote Price | 151.00999450683594 | USD | float |
| Yahoo finance | Daily stock data | Stock quote | Volume | 57295299 | Number | int |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Data source** | **Dataset type** | **Event type** | **Attribute name** | **Attribute value (e.g.)** | **Unit** | **Data format (Python)** |
| Yahoo finance | Daily stock data | Stock ohlc | Open | 149.46 | USD | float |
| Yahoo finance | Daily stock data | Stock ohlc | High | 150.64 | USD | float |
| Yahoo finance | Daily stock data | Stock ohlc | Low | 124.17 | USD | float |
| Yahoo finance | Daily stock data | Stock ohlc | Close | 151.00999450683594 | USD | float |
| Yahoo finance | Daily stock data | Stock ohlc | Adj Close | 151.00999450683594 | USD | float |
| Yahoo finance | Daily stock data | Stock ohlc | Volume | 57295299 | Number | Int |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data source** | **Dataset type** | **Event type** | **Attribute name** | **Attribute value** | **Data format (Python)** |
| Yahoo finance | Daily stock data | Stock news | summary | Instead, his core strategy is to buy quality stocks at reasonable valuations -- and his holdings include positions in the first two companies discussed here.  Apple (NASDAQ: AAPL), UPS (NYSE: UPS), and Alphabet (NASDAQ: GOOG) (NASDAQ: GOOGL) all face earnings headwinds in 2023, but they will likely emerge stronger from any recession that coult potentially kick off this year.  A combination of supply chain disruptions, a weakening environment for consumer discretionary spending, and adverse foreign currency exchange movements hit Apple in calendar 2022, and some of those issues are likely to extend well into 2023. | str |
| Yahoo finance | Daily stock data | Stock news | summary\_detail.type | text/html | str |
| Yahoo finance | Daily stock data | Stock news | summary\_detail.language | null | type(None) |
| Yahoo finance | Daily stock data | Stock news | summary\_detail.base | <https://feeds.finance.yahoo.com/rss/2.0/headline?s=aapl&region=US&lang=en-US> | str |
| Yahoo finance | Daily stock data | Stock news | summary\_detail.value | Instead, his core strategy is to buy quality stocks at reasonable valuations -- and his holdings include positions in the first two companies discussed here.  Apple (NASDAQ: AAPL), UPS (NYSE: UPS), and Alphabet (NASDAQ: GOOG) (NASDAQ: GOOGL) all face earnings headwinds in 2023, but they will likely emerge stronger from any recession that coult potentially kick off this year.  A combination of supply chain disruptions, a weakening environment for consumer discretionary spending, and adverse foreign currency exchange movements hit Apple in calendar 2022, and some of those issues are likely to extend well into 2023. | str |
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| Yahoo finance | Daily stock data | Stock news | link | <https://finance.yahoo.com/m/67e1c32c-4038-3483-83bd-ece504581fd0/the-smartest-investors-are.html?.tsrc=rss> | str |
| Yahoo finance | Daily stock data | Stock news | published | Sat, 11 Feb 2023 18:26:00 +0000 | str |
| Yahoo finance | Daily stock data | Stock news | published\_parsed | [2023, 2, 11, 18, 26, |  |