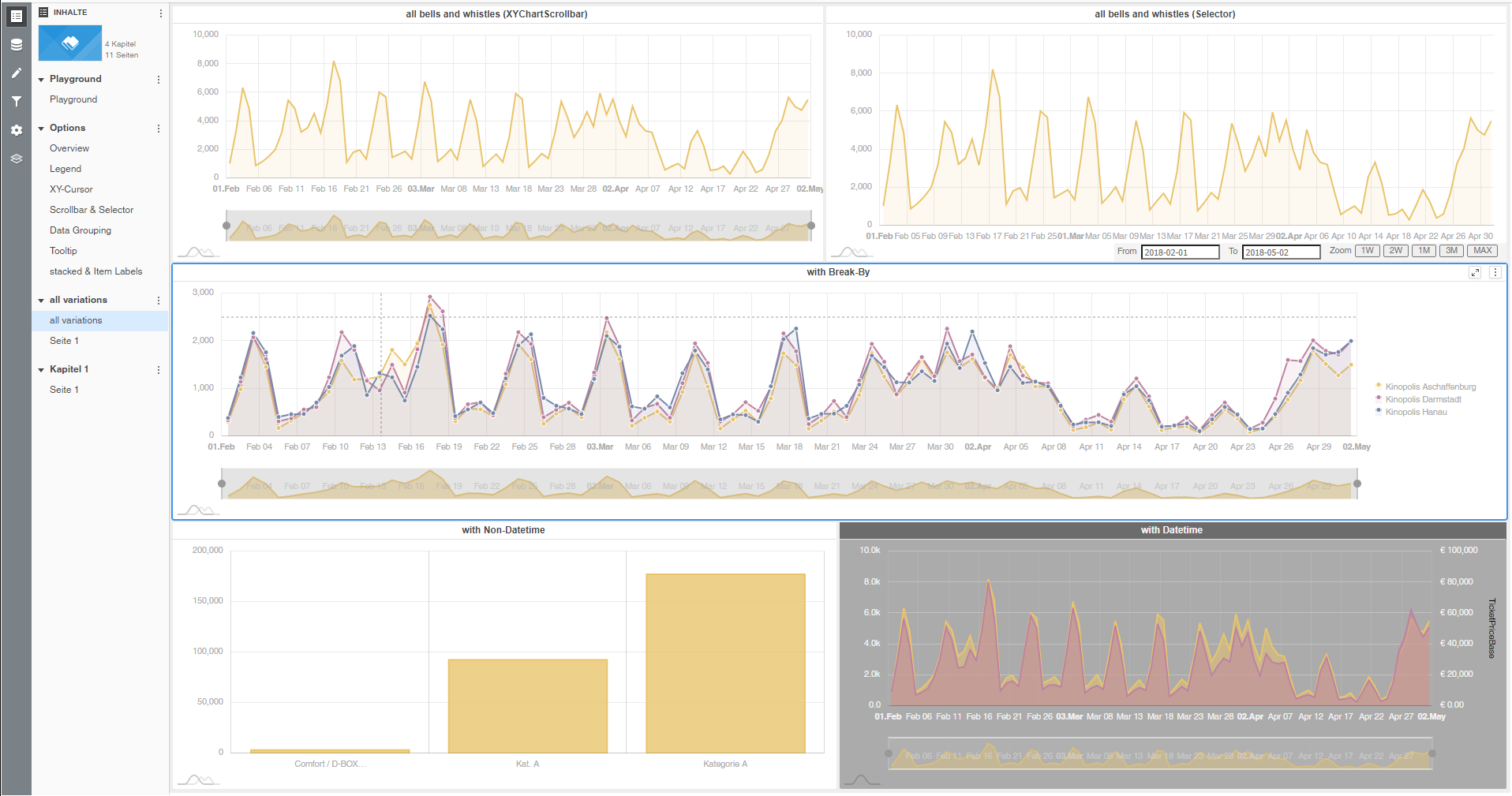
AZoomableDateTime is a flexible custom visualization to display one or more Metrics along a Datetime, Date or Category-Axis while along to zoom and pan along the X-Axis.

AZoomableDateTime Chart for MicroStrategy Dossier

With this custom visualization you can easily create Timeline-Series or Category-Series, which can be zoomed and panned.  
This visualization is free to use.

# Basic Usage

The visualization requires at least 1 attribute and 1 metric.



**Attribute-Forms:**

Currently three Attribute-Forms are supported:

* Categories
* Date(dd.MM.yyyy)
* DateTime(dd.MM.yyyy HH:mm)

The Time Attribute for Date or DateTime needs to be sorted ASC. In addition to the time-Attribute you can have an additional categorical attribute which will then be used for a break-by. Break-By is only possible with one metric.

The Viz can process either of the two combinations:

* 1 (Time)Attribute and 1 or more Metrics
* 2 (Time)Attributes and 1 Metric

As for the Date and DateTime Attributes the Viz tries to support different formats. As for the time portion of DateTime the only two possibilities are HH:mm:ss or HH:mm. For the Date portion these separators are supported: [whitespace], [,], [.], [-], [/], [\], [:]. These separators are ignored during processing. As for the format the following is possible:

* dd-mm-yyyy
* mm-dd-yyyy
* yyyy-dd-mm
* yyyy-mm-dd

# Format Panel

## amChart Timeline Options

### Legend:

The Legend can be switched on or off. Its position can be changed (left, right, top, bottom). The “Legend Padding” can be used to adjust the spacing of the legend items. Depending on the legend position paddings are added to top/bottom or left/right of the items. Max width and max height can be set to control the overall size of the legend and either create breathing or use space more efficiently. If the vertical space for the legend becomes too small a scrollbar appears. However as of Aug 2021: “Horizontal scrolling of legends is not (yet) supported”. The Marker Size can be adjusted freely, even though values between 20 and 40 seem to be most useful.

“Values in Legend” allows for Metric-Values to be presented right next to the corresponding Series in the Legend. This will switch off Tooltips on the Graph. Basically it acts as a static tooltip incorporated into the legend.

### Options:

Show XY-Cursor (enables Zoom) is pretty much self-explaining. “Hide Cursor Lines” deactivated the cross hairs when hovering over the Chart.

Show Axis Tooltip: enables/disables the current position of the cursor on the axis.

Full Width Cursor: shows a X-Bar in full unit width instead of a hair line.

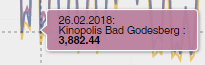
Show XYChartScrollbar:  

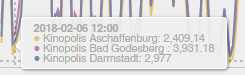

A scrollbar at the bottom with two handlers.

Show Selector:  


Hide Y-Axis-Labels:

Drill on Click (X-Axis)

**Single Tooltip**: displays just the closest value:  


**Combine Tooltip**: combines values into one tooltip. Combining tooltips is only possible with single tooltip active.  


**YAxis begins with 0**: either the Visualization determines the range of the Y-Axis depending on the displayed values or the Y-Axis always starts at Zero.

**Stacked Series** (category-Axis only): allows to stack series rather than showing them next to each other.

**Enable Data Grouping:**

Groups data items when zoomed out automatically into larger periods, using some configurable aggregate value (🡪 Aggregation (X-Axis))

**Aggregation (X-Axis):**

sum, avg, open, close, min, max).

**WheelScroll behavior:**

The wheel scroll can be used to either zoom into the data or pan. Options: None, Zoom, Pan

### Show item labels

(category-Axis only): Positions item labels on each bar. Depending on the width of the bars in the chart, the labels will be shown or hidden if the space is too small. Available positions: left, right, center, top, bottom, middle.

### Show weekend

This highlights the range segments for dates correlating with weekends (in this case Saturday and Sunday). The highlights will only be visible with a time unit of days in the axis. So every day has to be rendered, no skipping intervals and no aggregation taking place. Lower than days is of course possible and the highlights will display also on a datetime axis.

### Min Grid Distance

Minimum distance in pixels between grid elements. Use it to control density of the grid/labels on the axis.element.

## amChart Timeline Format

### Customizting fills

Fill area underneath line. Can have a value between 0 and 10, where 1 = 10%. Has no effect on the bar chart variant.

### Fonts and Colors

|  |  |
| --- | --- |
| Gridline-X | Grid lines color X-Axis |
| Gridline-Y | Grid lines color Y-Axis |
| Axisline-X | Base Axis line color X-Axis |
| Axisline-Y | Base Axis line color Y-Axis |
| Axis Font | categoryAxis labels, dateAxis labels, valueAxis labels, combined tooltip labels |
| Label Font |  |
| Selector font |  |
| Selector Background |  |
| Scrollbar thumb |  |
| Scrollbar unselected |  |

### Options

## Metric Options

### Metric Colors and Axis

For each metric in the graph you can define a color, transparency, a metric format and a opposite Axis.

**Metric Format**: This will try to change the formatting of the metric according to the pattern selected.

**Opposite Axis**: This will generate an axis on the right side for the selected metric.