

CSS Styling for JavaScript Views and Widget/Quickform Nodes

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CSS Styling for JavaScript Views and Widget/Quickform Nodes

This guide is designed to be used as a reference for CSS styling in JavaScript views and Widget/Quickform nodes.

We have introduced **CSS classes**. CSS classes are used by designers to define different sections that can be styled in CSS. You can use them in KNIME Analytics Platform now to edit certain visual elements of a JavaScript view.

To help you get started, below you'll first find instructions on how to set up custom CSS and then we provide a list of all classes with a general description of what they represent.

Setup & Example

The CSS rules can be stored in a single string and passed to nodes through a flow variable. To output such a flow variable we need a CSS Editor node. The node's configuration dialog consists of three parts as shown in the screenshot below.

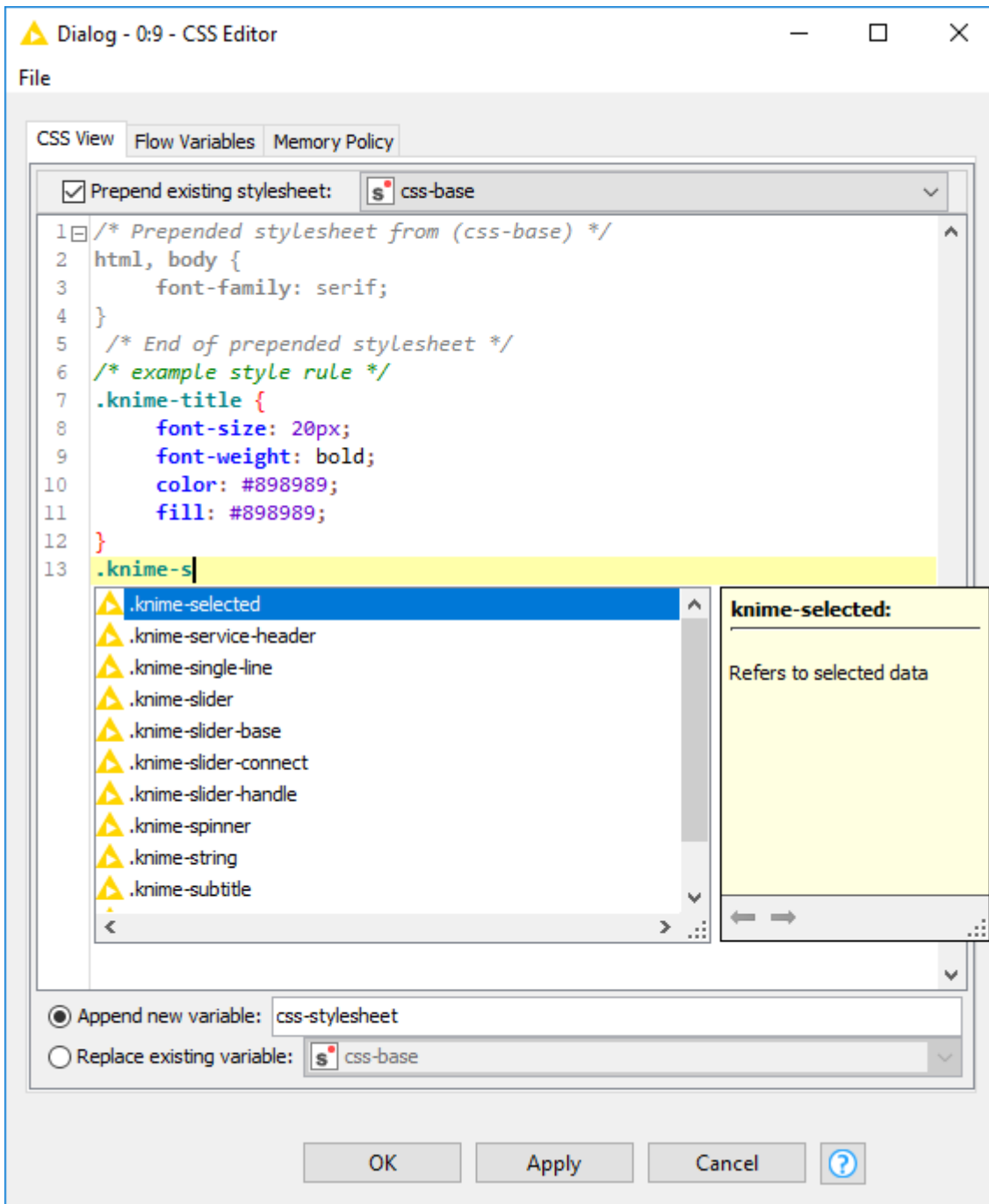


Figure 1. CSS Editor node, with which JavaScript views can be styled

The checkbox at the top allows you to add existing stylesheets to the beginning of the code. When you check this option you can subsequently choose a CSS stylesheet that has already been connected from the drop-down list. The content of that stylesheet is displayed in gray in the CSS Editor below for reference purposes. This functionality allows you to combine multiple stylesheets and reuse them in your nodes.

The custom CSS is now inserted underneath the preprended stylesheet (in gray). Press CTRL + Space to open a new window. Autocompletion can help you find the right CSS class.

After writing your custom CSS you can either append a new flow variable to the CSS code or

replace an existing one. The node appends a new flow variable, called "css-stylesheet" by default.

To use the newly created custom CSS **connect the flow variable** port of the "CSS Editor" to the flow variable port of the view it should customize. The resulting workflow could look like this:

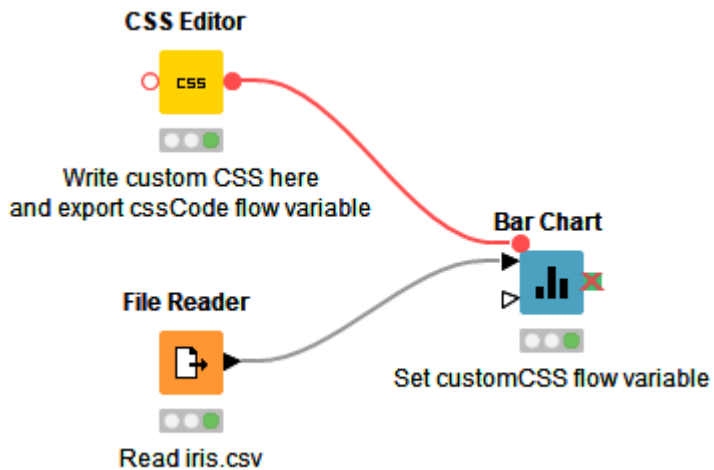


Figure 2. Example workflow, which styles a Bar Chart node

To apply custom styles in a bar chart, for example, you need to set the "customCSS" flow variable:

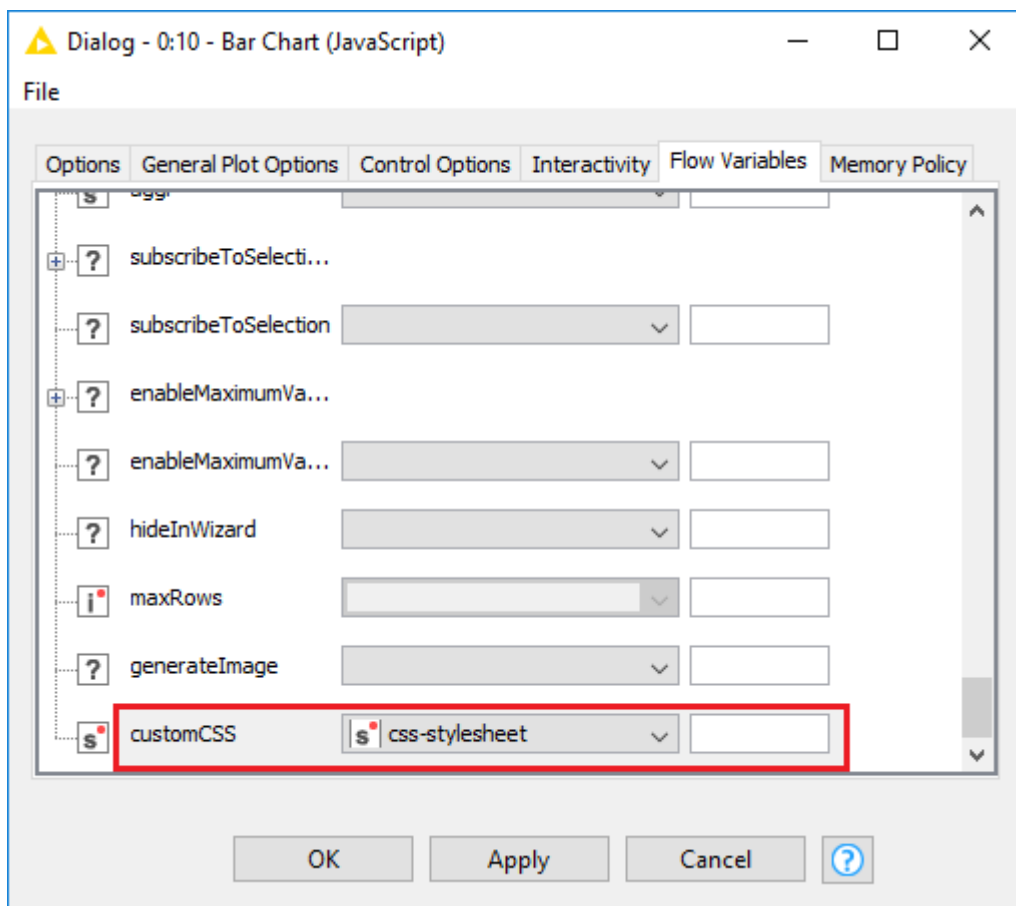


Figure 3. Selecting the newly created stylesheet in the customCSS row

In the example below the color of the title is changed to green, font weight is changed to bold, and the font style and size of the tick labels have also been changed to italic and 16 px.

```
.knife-title {
  fill: green;
  font-weight: bold;
}

text.knime-tick-label {
  font-style: italic;
  font-size: 16px;
}
```

After executing the node and opening its view you can see (on the right) that the styles have been successfully applied: the title is in green and the names on the x-axis are written in italics. The chart on the left shows a non styled view for reference:

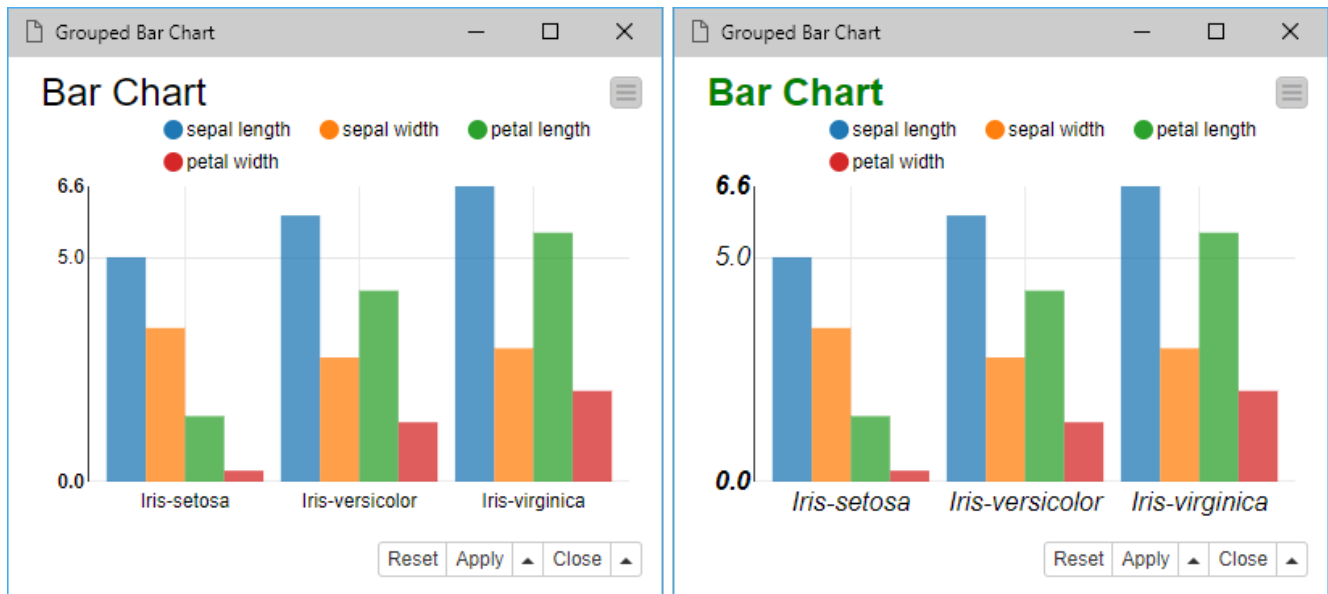


Figure 4. Unstyled bar chart (left) vs. styled bar chart (right): title color is changed to green and font-style on x-axis is changed to italic

Description of CSS Classes

What follows is a description of all the CSS classes and where they are used. We divided the classes into the following categories:

- **General** - classes related to general components that can be found in most views
- **Groups** - classes that are grouped by a parent class
- **Widgets and Quickforms** - classes relative to interaction forms and other redundant components common in Widget/Quickform nodes
- **Table Based** - classes used in views showing a table
- **Specifiers** - classes that can additionally be used to specify which of the displayed elements should be styled
- **Containers** - classes used to wrap together different elements in a separate section or division

General

`knife-title` - view's title

`knife-subtitle` - view's subtitle

`knife-label` - text component of the labels in the view (e.g. on sectors of pie chart, or values

of box plot)

Groups

Multiple CSS classes can have a hierarchical structure. An HTML or SVG tag with a given class (e.g. `knime-axis-label`) can belong to another tag with some parent class (e.g. `knime-axis`). Here we show you classes that belong to the same parent class as groups.

`knime-axis - group` of components representing a single axis. The tag with this class usually also uses one of those two specifier classes: `knime-x` or `knime-y`.

The user can style the x axis in the following way:

```
.knime-axis.knime-x {  
  display: none;  
}
```

or both axes like this:

```
.knime-axis {  
  display: none;  
}
```

In both cases all of the selected axis components are affected:

- `knime-axis-label` - text component of the axis label
- `knime-axis-line` - line or path component of the axis
- `knime-axis-max-min` - group of components related to max or min axis values
- `knime-tick` - group of components related to a certain axis tick (for slider it represents pips group)
 - `knime-tick-label` - text component of the axis tick (for slider it represents a pip label)
 - `knime-tick-line` - line or path component of the axis tick (for slider it represents a pip tick)

`knime-legend` - group of components representing the legend

- `knime-legend-symbol` - graphic component of the symbol legend (e.g. a colorful circle)
- `knime-legend-label` - text component of the legend

`knime-tooltip` - group of components representing the tooltip. This also serves as a styling for collapsed columns in the Data Explorer (when they are displayed in an extra row), using `knime-tooltip-caption` and `knime-tooltip-value`.

- `knime-tooltip-caption` - text component for tooltipcaption
- `knime-tooltip-color` - container for tooltip color guide
- `knime-tooltip-key` - text component representing tooltip key
- `knime-tooltip-value` - text component representing tooltip value

`knime-tab` - tab component, e.g. in the Data Explorer

`knime-spinner` - spinner component

`knime-slider` - slider component

- `knime-slider-base` - base of slider
- `knime-slider-handle` - handle(s) of slider
- `knime-slider-connect` - connect bar(s) of slider

Widgets / Quickforms

`knime-qp-title` - title of widget/quickform. This one is called "Label" in the node dialog, but don't mix it up with `knime-qp-label`

`knime-qp-label` - label in front of input controls (e.g. "Date", "Time" in Date&Time or "User", "Password" in Credentials)

`knime-qp-input` - input component. It can be used with a specifier (e.g. `knime-boolean`)

`knime-qp-select` - select component. It can be used with specifiers like `knime-single-line` or `knime-multi-line`

`knime-qp-button` - button control

`knime-qp-tree` - tree component

`knime-qp-text` - text of output components

`knime-qp-error` - element to display error messages

Table based

`knime-table - table`

`knime-table-control-text` - text of control elements, like Search, Paging etc.

`knime-table-search` - search group

`knime-table-paging` - pagination group

`knime-table-info` - info group

`knime-table-length` - length group

`knime-table-buttons` - buttons group

`knime-table-row` - table row

`knime-table-cell` - table cell

`knime-table-header` - table header specifier

`knime-table-footer` - table footer specifier

Specifiers

`knime-x`, `knime-y` - specifies the dimension when needed. It should be used in combination with other classes, e.g. `knime-axis`.

`knime-boolean` - checkboxes (e.g. in Boolean Input or row selection in Table View nodes)

`knime-double` - text box to type in a double number (e.g. in Double Input or Table Editor)

`knime-integer` - text box to type in an integer number

`knime-string` - text box to type in a string

`knime-datetime` - group of text boxes and other user interface components to type in a date and time. It can be combined with the following classes:

- `knime-date` - components to input dates
- `knime-time` - components to input a time of the Time part
- `knime-now` - the “Now button” with which you can insert the current date and time

- `knime-timezone` - components to input Timezone

`knime-image` - class to style a generic image

- `knime-png` - class to style a PNG image
- `knime-svg` - class to style an SVG image

`knime-single-line` - for single-line components

`knime-multi-line` - for multi-line components

`knime-editable` - refers to editable data

`knime-selected` - refers to selected data

`knime-filter` - refers to filter/search elements

Containers

`knime-service-header` - component with control buttons (menu, selection etc.)

`knime-layout-container` - wrapper component for a chart

`knime-svg-container` - component with svg plot

`knime-quickform-container` - wrapper container of a QuickForm control

`knime-table-container` - wrapper container of a table based view

Classes by Node

In the next section you can see a list of all the CSS classes for each node.

JavaScript

Bar Chart (JavaScript)

General: `knime-title`, `knime-subtitle`

Groups: `knime-axis`, `knime-axis-label`, `knime-axis-line`, `knime-axis-max-min`, `knime-tick`,

knime-tick-label, knime-tick-line, knime-legend, knime-legend-symbol, knime-legend-label, knime-tooltip, knime-tooltip-caption, knime-tooltip-color, knime-tooltip-key, knime-tooltip-value, knime-slider, knime-slider-base, knime-slider-handle, knime-slider-connect

Specifiers: knime-x, knime-y

Containers: knime-service-header, knime-layout-container, knime-svg-container

Box Plot (JavaScript)

General: knime-title, knime-subtitle, knime-label

Groups: knime-axis, knime-axis-line, knime-tick, knime-tick-label, knime-tick-line

Specifiers: knime-x, knime-y

Containers: knime-service-header, knime-layout-container, knime-svg-container

Conditional Box Plot (JavaScript)

General: knime-title, knime-subtitle, knime-label

Groups: knime-axis, knime-axis-label, knime-axis-line, knime-tick, knime-tick-label, knime-tick-line

Specifiers: knime-x, knime-y

Containers: knime-service-header, knime-layout-container, knime-svg-container

Data Explorer (JavaScript)

General: knime-title, knime-subtitle, knime-label

Groups: knime-axis, knime-axis-line, knime-tick, knime-tick-label, knime-tick-line, knime-tooltip, knime-tooltip-caption, knime-tooltip-value, knime-tab

Table Based: knime-table, knime-table-control-text, knime-table-search, knime-table-paging, knime-table-info, knime-table-length, knime-table-buttons, knime-table-row, knime-table-cell, knime-table-header, knime-table-footer

Specifiers: knime-x, knime-y, knime-boolean, knime-double, knime-integer, knime-string,

knime-image, knime-png, knime-svg, knime-single-line, knime-filter

Containers: knime-service-header, knime-table-container

Decision Tree View (JavaScript)

General: knime-title, knime-subtitle

Containers: knime-service-header, knime-layout-container, knime-svg-container

Tagged Document Viewer (JavaScript)

General: knime-title, knime-subtitle

Groups: knime-document-inner-title, knime-document-title

Table Based: knime-table, knime-table-control-text, knime-table-paging, knime-table-info, knime-table-length, knime-table-row, knime-table-cell

Containers: knime-service-header, knime-table-container

Generic JavaScript View

Containers: knime-service-header (if the settings menu is added in the code).

Heatmap (JavaScript)

General: knime-title, knime-subtitle, knime-label

Groups: knime-tooltip, knime-tooltip-caption, knime-tooltip-value, knime-double knime-axis, knime-x, knime-y, knime-tick, knime-tick-label, knime-tick-line knime-legend, knime-legend-symbol, knime-legend-label

Containers: knime-layout-container, knime-svg-container

Hierarchical Cluster Assigner (JavaScript)

General: knime-title, knime-subtitle, knime-axis-label

Groups: knime-axis, knime-x, knime-y, knime-tick, knime-tick-label, knime-tick-line

Containers: knime-layout-container, knime-svg-container

Lift Chart (JavaScript)

General: knime-title, knime-subtitle

Groups: knime-axis, knime-axis-label, knime-axis-line, knime-tick, knime-tick-label, knime-tick-line knime-legend, knime-legend-symbol, knime-legend-label

Specifiers: knime-x, knime-y

Containers: knime-service-header, knime-layout-container, knime-svg-container

Line Plot (JavaScript)

Containers: knime-service-header



Line Plot does not support other CSS classes at the moment.

Network Viewer (JavaScript)

General: knime-title, knime-subtitle

Containers: knime-service-header



Network Viewer cannot make use of CSS classes as it is drawn on a canvas.

OPTICS Cluster Assigner

General: knime-title, knime-subtitle, knime-label

Groups: knime-axis, knime-tick, knime-tick-label, knime-tick-line, knime-tooltip, knime-tooltip-value

Specifiers: knime-y, knime-selected

Containers: knime-service-header, knime-layout-container, knime-svg-container

Parallel Coordinates Plot (JavaScript)

General: knime-title, knime-subtitle, knime-label

Groups: knime-axis, knime-axis-label, knime-axis-line, knime-tick, knime-tick-label, knime-tick-line, knime-legend, knime-legend-symbol, knime-legend-label

Specifiers: knime-x, knime-y, knime-selected

Containers: knime-service-header, knime-layout-container, knime-svg-container

Partial Dependence/ICE Plot (JavaScript)

General: knime-title, knime-subtitle

Groups: knime-axis, knime-axis-label, knime-tick, knime-tick-label, knime-tick-line

Specifiers: knime-x, knime-y

Containers: knime-service-header, knime-layout-container, knime-svg-container

Pie/Donut Chart (JavaScript)

General: knime-title, knime-subtitle, knime-label

Groups: knime-legend, knime-legend-symbol, knime-legend-label, knime-tooltip, knime-tooltip-caption, knime-tooltip-color, knime-tooltip-key, knime-tooltip-value

Specifiers: knime-x

Containers: knime-service-header, knime-layout-container, knime-svg-container

ROC Curve (JavaScript)

General: knime-title, knime-subtitle

Groups: knime-axis, knime-axis-label, knime-axis-line, knime-tick, knime-tick-label, knime-tick-line, knime-legend, knime-legend-symbol, knime-legend-label, knime-tooltip, knime-tooltip-color, knime-tooltip-key, knime-tooltip-value

Specifiers: knime-x, knime-y

Containers: knime-service-header, knime-layout-container, knime-svg-container

Scatter Plot (JavaScript)

Containers: knime-service-header



Scatter Plot does not support other CSS classes at the moment.

Scorer (JavaScript)

General: knime-title, knime-subtitle, knime-label

Table Based: knime-table, knime-table-row, knime-table-cell, knime-table-header

Specifiers: knime-double, knime-integer, knime-string, knime-selected

Containers: knime-service-header

Stacked Area Chart (JavaScript)

General: knime-title, knime-subtitle

Groups: knime-axis, knime-axis-label, knime-axis-line, knime-axis-max-min, knime-tick, knime-tick-label, knime-tick-line, knime-legend, knime-legend-symbol, knime-legend-label, knime-tooltip, knime-tooltip-caption, knime-tooltip-color, knime-tooltip-key, knime-tooltip-value

Specifiers: knime-x, knime-y

Containers: knime-service-header, knime-layout-container, knime-svg-container

Sunburst Chart (JavaScript)

General: knime-title, knime-subtitle, knime-label

Groups: knime-legend, knime-legend-symbol, knime-legend-label, knime-tooltip, knime-tooltip-color, knime-tooltip-key, knime-tooltip-value

Specifiers: knime-selected

Containers: knime-service-header, knime-layout-container, knime-svg-container

Table Editor (JavaScript)

General: knime-title, knime-subtitle

Table Based: knime-table, knime-table-control-text, knime-table-search, knime-table-paging, knime-table-info, knime-table-length, knime-table-buttons, knime-table-row, knime-table-cell, knime-table-header, knime-table-footer

Specifiers: knime-boolean, knime-double, knime-integer, knime-string, knime-datetime, knime-date, knime-time, knime-timezone, knime-image, knime-png, knime-svg, knime-single-line, knime-editable, knime-selected, knime-filter

Containers: knime-service-header, knime-table-container

Table View (JavaScript)

General: knime-title, knime-subtitle

Table Based: knime-table, knime-table-control-text, knime-table-search, knime-table-paging, knime-table-info, knime-table-length, knime-table-buttons, knime-table-row, knime-table-cell, knime-table-header, knime-table-footer

Specifiers: knime-boolean, knime-double, knime-integer, knime-string, knime-datetime, knime-date, knime-time, knime-timezone, knime-image, knime-png, knime-svg, knime-single-line, knime-selected, knime-filter

Containers: knime-service-header, knime-table-container

Tag Cloud (JavaScript)

General: knime-title, knime-subtitle

Containers: knime-service-header

Tile View (JavaScript)

General: knime-title, knime-subtitle

Groups: knime-tiles, knime-tile-title, knime-tiles-rowtitle

Table Based: knime-table, knime-table-control-text, knime-table-search, knime-table-paging, knime-table-info, knime-table-length, knime-table-buttons, knime-table-row,

knime-table-cell, knime-table-header, knime-table-footer

Specifiers: knime-boolean, knime-double, knime-integer, knime-string, knime-datetime, knime-date, knime-time, knime-timezone, knime-image, knime-png, knime-svg, knime-single-line, knime-selected, knime-filter

Containers: knime-service-header, knime-table-container

Widgets / Quickforms

Autocomplete Text Widget / Autocomplete Text Input

Widgets and Quickforms: knime-qf-title, knime-qf-input, knime-qf-error

Specifiers: knime-string, knime-single-line

Containers: knime-service-header, knime-qf-container

Boolean Widget / Boolean Input

Widgets and Quickforms: knime-qf-title, knime-qf-input, knime-qf-error

Specifiers: knime-x, knime-y, knime-boolean

Containers: knime-service-header, knime-qf-container

Column Filter Widget / Column Filter

Widgets and Quickforms: knime-qf-title, knime-qf-select, knime-qf-button, knime-qf-error

Specifiers: knime-single-line, knime-multi-line

Containers: knime-service-header, knime-qf-container

Column Selection Widget / Column Selection

Widgets and Quickforms: knime-qf-title, knime-qf-select, knime-qf-error

Specifiers: knime-single-line, knime-multi-line

Containers: knime-service-header, knime-qf-container

Credentials Widget / Credentials Input

Widgets and Quickforms: knime-qf-title, knime-qf-label, knime-qf-input, knime-qf-error

Specifiers: knime-string, knime-single-line

Containers: knime-service-header, knime-qf-container

Date&Time Widget / Date&Time Input

Groups: knime-spinner

Widgets and Quickforms: knime-qf-title, knime-qf-label, knime-qf-input, knime-qf-select, knime-qf-button, knime-qf-error

Specifiers: knime-integer, knime-datetime, knime-date, knime-time, knime-now, knime-timezone, knime-single-line

Containers: knime-service-header, knime-qf-container

Double Widget / Double Input

Groups: knime-spinner

Widgets and Quickforms: knime-qf-title, knime-qf-input, knime-qf-error

Specifiers: knime-double

Containers: knime-service-header, knime-qf-container

File Chooser Widget / File Chooser

Widgets and Quickforms: knime-qf-title, knime-qf-tree, knime-qf-error

Containers: knime-service-header, knime-qf-container

File Download Widget / File Download

Widgets and Quickforms: knime-qf-title, knime-qf-error

Specifiers: knime-string, knime-single-line

Containers: knime-service-header, knime-qf-container

File Upload Widget / File Upload

Widgets and Quickforms: knime-qf-title, knime-qf-label, knime-qf-button, knime-qf-error

Specifiers: knime-string, knime-single-line

Containers: knime-service-header, knime-qf-container

Image Output Widget / Image Output

Widgets and Quickforms: knime-qf-title, knime-qf-error

Containers: knime-service-header, knime-qf-container

Integer Widget / Integer Input

Groups: knime-spinner

Widgets and Quickforms: knime-qf-title, knime-qf-input, knime-qf-error

Specifiers: knime-integer

Containers: knime-service-header, knime-qf-container

List Box Widget / List Box Input

Widgets and Quickforms: knime-qf-title, knime-qf-input, knime-qf-error

Specifiers: knime-string, knime-multi-line

Containers: knime-service-header, knime-qf-container

Molecule String Input

Widgets and Quickforms: knime-qf-title, knime-qf-error

Containers: knime-service-header, knime-qf-container

Multiple Selections Widget / Multiple Selections

Widgets and Quickforms: knime-qf-title, knime-qf-label, knime-qf-select, knime-qf-button, knime-qf-error

Specifiers: knime-single-line, knime-multi-line

Containers: knime-service-header, knime-qf-container

Interactive Range Slider Filter Widget / Range Slider Filter Definition

General: knime-label

Groups: knime-tick, knime-tick-label, knime-tick-line, knime-tooltip, knime-tooltip-value, knime-slider, knime-slider-base, knime-slider-handle, knime-slider-connect

Widgets and Quickforms: knime-qf-error

Containers: knime-service-header

Single Selection Widget / Single Selection

Widgets and Quickforms: knime-qf-title, knime-qf-label, knime-qf-select, knime-qf-error

Specifiers: knime-single-line

Containers: knime-service-header, knime-qf-container

Slider Widget / Slider Input

Groups: knime-tick, knime-tick-label, knime-tick-line, knime-tooltip, knime-tooltip-value, knime-slider, knime-slider-base, knime-slider-handle, knime-slider-connect

Widgets and Quickforms: knime-qf-title, knime-qf-error

Containers: knime-service-header, knime-qf-container

String Widget / String Input

Widgets and Quickforms: knime-qf-title, knime-qf-input, knime-qf-error

Specifiers: knime-string, knime-single-line, knime-multi-line

Containers: knime-service-header, knime-qf-container

Text Output Widget / Text Output

Widgets and Quickforms: knime-qf-title, knime-qf-text, knime-qf-error

Specifiers: knime-multi-line

Containers: knime-service-header, knime-qf-container

Interactive Value Filter Widget / Value Filter

Widgets and Quickforms: knime-qf-title, knime-qf-select, knime-qf-button, knime-qf-error

Specifiers: knime-single-line, knime-multi-line

Containers: knime-service-header, knime-qf-container

Value Selection Widget / Value Selection

Widgets and Quickforms: knime-qf-title, knime-qf-select, knime-qf-error

Specifiers: knime-single-line, knime-multi-line

Containers: knime-service-header, knime-qf-container

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