Status Indicator Status Indicator 1.3.0

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Introduction

Using status indicators

Learn how to visualize data with a status indicator.

What status indicators visualize

Status indicators show a value and an icon. You can use a status indicator to provide information at a glance.

Use cases

- Monitor sales or financial metrics.
- Watch server status.

Data for status indicators

Use data that includes a metric that you are tracking. Optionally, data can include a field that you can use to determine icons dynamically.

Status indicator installation

You can find the Status indicator custom visualization app on Splunkbase.

After an admin installs a custom visualization app, users can select the visualization using the Visualization Picker in the Search and Reporting app.
Custom visualization app permissions

By default, all custom visualizations have the following discovery and installation options for users and admins.

<table>
<thead>
<tr>
<th>Option</th>
<th>User permission</th>
<th>Admin permission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Browse Splunkbase for custom visualization apps.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use the Visualization Picker to find custom visualizations.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steps**

1. In the **Search and Reporting** app, run a query and select the **Visualizations** tab.
2. Open the **Visualization Picker**.
3. Select **Find more visualizations** to browse Splunkbase for custom visualization apps.

Install a custom visualization app from Splunkbase. | No |  |
Build

Create a status indicator query

To generate a status indicator, write a query that returns events in the correct data format.

Query syntax

To generate a status indicator, use the following query syntax.

```
...| table <count> <icon_field> <color_field>
```

Aggregate the value you are tracking and use the `table` command to order field values.

Query components

A status indicator query includes the following components.

<count>

- **Required**
  - This field represents the metric you are tracking. Use a `stats` function to aggregate field values.

<icon_field>

- Optional.
  - For dynamic icons from a query using the `rangemap` command, assign an icon name to a `range_field` value range. Use the Format menu to show icons and to enable field value icons.
  - To use a static icon, set the icon value to any icon from the Font-Awesome icon set. Use the Format menu to show icons and to enable field value icons.
<color_field>

- Optional. Use one or more times to specify multiple colors and ranges.
- For dynamic colors from a query using the `rangemap` command, assign a specific `<#hex_value>` to a `range_field` value range. Use the Format menu to enable field value colors.
- To use a static color, set the color value to any hex color. Use the Format menu to show icons and to enable field value icons.

Search result data formatting

The status indicator query syntax returns results in a table with multiple columns. Columns represent the aggregated metric, icon field, and color field.

Check the Statistics tab after running a query to make sure that the results table includes the correct columns in the required order.

Results table columns

<table>
<thead>
<tr>
<th>First</th>
<th>Second</th>
<th>Third</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>Icon (optional)</td>
<td>Color (optional)</td>
</tr>
</tbody>
</table>

Example query

Here is a status indicator query that specifies a static icon and color.

```bash
index=_internal
| head 100
| stats count
| eval count=count+random()%1000
| eval icon="exclamation-circle"
| eval color="#F58F39"
| table count icon color
```

This query generates a results table with columns for the aggregated metric count, icon, and color fields.
Interpret

Visualization components

Learn how status indicator components emphasize meaning.

Icon

Icons add context to a status indicator. The visualization can include a static icon or icons that change dynamically as new data is processed.

Value

A status indicator value represents an aggregation, such as a count, of the metric being tracked. The value can also be a string.

Color

Values and icons can appear in a single color. They can also appear in different colors to indicate where the value falls in a range.
Configure

Customize a status indicator

Use the Format menu to customize a status indicator. The menu has panels for the following settings.

General

Use this panel to choose whether to show the value, icon, or both in the status indicator.

Icon

Configure the status indicator to use dynamic icons based on the query or use a static icon and icon color.

Colors

Use this panel to enable or disable color in the visualization. If you opt to use color, select from the following options.

Static color

Select a single color for the visualization.

Field value

This option is available if the query includes color field ranges or a static color. Select this option to set color based on the query.

Foreground or background color

Choose whether to color the value and icon or the visualization background.
Number format

Use this panel to adjust decimal precision and enable or disable thousand separators.

Add a status indicator to a dashboard

After you create a query and configure a custom visualization, you can add the visualization to a dashboard. Custom visualizations have the same dashboard panel editing options as standard Splunk platform visualizations.

Prerequisites

- See Create a status indicator query.
- See Customize a status indicator.
- See Add panels to dashboards in Dashboards and Visualizations.

Steps

1. After running a search and configuring the visualization, select **Save as > Dashboard panel** to add the visualization to a new or existing dashboard.
2. (Optional) Edit the dashboard panel as needed.

Simple XML for status indicators

Custom visualizations use a namespaced syntax for Simple XML. Specific visualization properties are appended to the app and visualization context.

Add a status indicator to a dashboard panel

You can add a Sankey diagram to a dashboard panel using Simple XML. Use this syntax to specify the app and visualization context.

```xml
<viz type="status_indicator_app.status_indicator"/>
</viz>
```
Configure status indicator properties

To configure a status indicator property, add any of the following property names and a value to this syntax.

<option name="status_indicator_app.status_indicator.[property_name]">[property_value]
</option>

<table>
<thead>
<tr>
<th>Option name</th>
<th>Accepted values</th>
<th>Default</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>showOption</td>
<td>Number</td>
<td>3</td>
<td>&lt;option name=&quot;status_indicator_app.status_indicator.showOption&quot;&gt;3&lt;/option&gt;</td>
</tr>
<tr>
<td>icon</td>
<td>[ fix_icon</td>
<td>field_value]</td>
<td>fix_icon</td>
</tr>
<tr>
<td>fixIcon</td>
<td>Any fontAwesome icon name</td>
<td>warning</td>
<td>&lt;option name=&quot;status_indicator_app.status_indicator.fixIcon&quot;&gt;warning&lt;/option&gt;</td>
</tr>
<tr>
<td>useColors</td>
<td>[ true</td>
<td>false]</td>
<td>true</td>
</tr>
<tr>
<td>colorBy</td>
<td>[ static_color</td>
<td>field_value]</td>
<td>static_color</td>
</tr>
<tr>
<td>staticColor</td>
<td>Any valid CSS color string</td>
<td>#555</td>
<td>&lt;option name=&quot;status_indicator_app.status_indicator.staticColor&quot;&gt;#555&lt;/option&gt;</td>
</tr>
<tr>
<td>precision</td>
<td>A number between 0 - 4 to indicate level of decimal precision</td>
<td>0</td>
<td>&lt;option name=&quot;status_indicator_app.status_indicator.precision&quot;&gt;0&lt;/option&gt;</td>
</tr>
</tbody>
</table>

Example Simple XML source

Here is an example dashboard panel.

<dashboard>
<label>Status indicator Example</label>

<row>
  <panel>
    <title>Status indicator example dashboard</title>
    <viz type="status_indicator_app.status_indicator">
      <search>
        <query>index=_internal | stats count</query>
        <earliest>@w0</earliest>
        <latest>now</latest>
      </search>
      <option
        name="status_indicator_app.status_indicator.useColors">true</option>
      <option
        name="status_indicator_app.status_indicator.colorBy">field_value</option>
    </viz>
  </panel>
</row>
</dashboard>
Release notes

Known issues

The following are known issues in the current software version.

<table>
<thead>
<tr>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-290</td>
<td>In Windows, minor page scrolling issues when opening the Format menu for gallery visualizations.</td>
</tr>
</tbody>
</table>

Software credits

Some of the components included in this visualization app are licensed under free or open source licenses. We wish to thank the contributors to those projects.

*d3*

Version 3.5.16
https://github.com/mbostock/d3

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numeral

Version 1.5.3
https://github.com/adamwdraper/Numeral-js

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**FontAwesome**

Version 4.5.0  
https://github.com/FortAwesome/Font-Awesome

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**underscore**

Version 1.8.3  
http://underscorejs.org/

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