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 <strong>Visualization Picker</strong> 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.

```plaintext
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.

```
<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.

```xml
<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;5&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;exclamation-circle&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;#545&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;2&lt;/option&gt;</td>
</tr>
</tbody>
</table>

Example Simple XML source

Here is an example dashboard panel.

```xml
<dashboard>
```

---

8
<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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**Font Awesome**

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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