Dashboard Studio SVG Choropleth Instruction

First I recommend that you read the Splunk article Painting with Data: Choropleth SVG as this will give you the basics for defining and building simple image based dashboards that react to both filters and searches.

In this page I'm going to take things a step further and create an image that is layered to give you multiple options within the same image. Our example will have three alert status blocks that will graphically represent the current status with a colour and shape. The three blocks will be OK, Warning and Error and will look like the following:

The SVG code Inkscape will produce for this is:

```
<?xml version="1.0" encoding="UTF-8"?>
<svg id="svg5" width="300" height="100" version="1.1" viewBox="0 0 300 100"
xmlns="http://www.w3.org/2000/svg">
<g id="layer1" fill="#dddddd">
<path id="alert-1-ok" d="m50 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0 0
0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0 1-38 38 38 38 0 0
1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0 0 36 36 36 36 0 0
0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35 4.025-11.3
10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.6-3.8625 2.7875-
4.6875 3.5625-0.325-1.175-1.0375-3.1-2.1375-5.775l-1.05-2.4375c-1.5-3.5-2.9-
6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375 2.7-2.85 5.175-
4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.2257.125 9.65-14.05 16.275-20.775s13.1-
11.888 19.425-15.488z"/>
<path id="alert-1-warn" d="m148.4 11.206-38.4 77.186c0 1.608 0 1.608 1.6
1.608h76.8c1.6 0 1.6 0 1.6-1.608l-38.4-77.186c-1.6-1.608-1.6-1.608-3.2
0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672 14.323c1.43011.4934 4.6301-1.4934 6.2301
0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm0.16987 38.708h6.4v6.4322h-6.4z" stroke-linejoin="round"
strokewidth="6.0624"/>
<path id="alert-1-error" d="m210 18v64c0 8 0 8 8 8h64c8 0 8 0 8-8v-64c0-8 0-
8-8-8h-64c-8 0-8 0-8 8zm4-4h72v72h-72zm4 12v48c0 8.0573-0.10514 8 8 8h48c8 0
8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-
1.6 1.6-4.8 1.6-6.4 0zm0 38.4h6.4v6.4h-6.4z" stroke-linejoin="round" strokewidth="6.0472"/>
</g>
</svg>
```

If you take the above code and copy into a text editor then save the file as something.svg the resulting file will be a fully compliant SVG image that can then be used in Splunk as a Choropleth SVG image.

A interesting quirk on the fill element is if all three paths <p> have the same fill element Inkscape will move this to the group part <g> to make it more efficient. Splunk on the other hand will not be able to add colour to the the fill elements in the path element. To make this work you would either need to pick three separate colours for the path elements or in a text editor change the file so that the fill element is declared in all three of the path elements, as below (Changes in bold) [Link: https://github.com/jami1701/splunk-dashboard-studio/blob/main/workfiles/svg-1.svg]:

```
<?xml version="1.0" encoding="UTF-8"?>
<svg id="svg5" width="300" height="100" version="1.1" viewBox="0 0 300 100"
xmlns="http://www.w3.org/2000/svg">
 <g id="layer1">
  <path id="alert-1-ok" fill="#dddddd" d="m50 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0 0 0 40-40 40 40 0 0
0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0
1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0
0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35
4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.63.8625 2.7875-4.6875 3.5625-0.325-1.175-
1.0375-3.1-2.1375-5.775l-1.05-
2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375
2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-
20.775s13.1-11.888 19.425-15.488z"/>
  <path id="alert-1-warn" fill="#dddddd" d="m148.4 11.206-38.4 77.186c0 1.608
0 1.608 1.6 1.608h76.8c1.6 0 1.6 0 1.6-1.608l-38.4-77.186c-1.6-1.608-1.6-
1.608-3.2 0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672
14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987
38.708h6.4v6.4322h-6.4z" stroke-linejoin="round" stroke-width="6.0624"/>
  <path id="alert-1-error" fill="#dddddd" d="m210 18v64c0 8 0 8 8 8h64c8 0 8
0 8-8v-64c0-8 0-8-8-8h-64c-8 0-8 0-8 8zm4-4h72v72h-72zm4 12v48c0 8.0573-
0.10514 8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-1.6 1.6-4.8 1.6-6.4
0zm0 38.4h6.4v6.4h-6.4z" strokelinejoin="round" stroke-width="6.0472"/>
 </g>
</svg>
```

As you can see all the images are grey (#dddddd), the image above in a Splunk Studio Dashboard would allow you to turn each of these in to any colour you want but would be a bit of a waste of space.

Lets think about this slightly differently; for space efficiency and aesthetics we only want one of the three to be on screen at a time showing the current status. We could colour the background of the image the same as the grey (#dddddd) used, effectively hiding the not active parts of the image.

In this case we would rather not use three times the space to show one alert as at some point we may want to have many more of these. Our solution involves being a little creative with some some code manipulation in the Splunk Studio Dashboard to allow us to only see one shape at a time.

First, we redraw the image with all three paths on top of each other, like so:

Now the image is a bit of a mess but we will straighten that out in Splunk.

The SVG code Inkscape will produce for this is:

```
<?xml version="1.0" encoding="UTF-8"?>
<svg id="svg5" width="100" height="100" version="1.1" viewBox="0 0 100 100"
xmlns="http://www.w3.org/2000/svg">
 <g id="layer1" fill="#dddddd">
  <path id="alert-1-ok" d="m50 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0
0 0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0 1-38 38 38 38 0
0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0 0 36 36 36 36 0
0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35 4.025-11.3
10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.6-3.8625 2.7875-
4.6875 3.5625-0.325-1.175-1.0375-3.1-2.1375-5.775l-1.05-2.4375c-1.5-3.5-2.9-
6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375 2.7-2.85 5.175-
4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.2257.125 9.65-14.05 16.275-20.775s13.1-
11.888 19.425-15.488z"/>
  <path id="alert-1-warn" d="m48.4 11.206-38.4 77.186c0 1.608 0 1.608 1.6
1.608h76.8c1.6 0 1.6 0 1.6-1.608l-38.4-77.186c-1.6-1.608-1.6-1.608-3.2
0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672 14.323c1.43011.4934 4.6301-1.4934 6.2301
0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm0.16987 38.708h6.4v6.4322h-6.4z" stroke-linejoin="round"
strokewidth="6.0624"/>
  <path id="alert-1-error" d="m10 18v64c0 8 0 8 8 8h64c8 0 8 0 8-8v-64c0-8 0-
8-8-8h-64c-8 0-8 0-8 8zm4-4h72v72h-72zm4 12v48c0 8.0573-0.10514 8 8 8h48c8 0
8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c1.6 1.6-4.8 1.6-6.4 0zm0 38.4h6.4v6.4h-
6.4z" stroke-linejoin="round" strokewidth="6.0472"/>
 </g>
</svg>
```

Once again the fill has been moved to the group part <g> and using a text editor change it to (changes in bold) [link: https://github.com/jami1701/splunk-dashboard-studio/blob/main/workfiles/svg-2.svg]:

```
<?xml version="1.0" encoding="UTF-8"?>
<svg id="svg5" width="100" height="100" version="1.1" viewBox="0 0 100 100"
xmlns="http://www.w3.org/2000/svg">
 <g id="layer1">
  <path id="alert-1-ok" fill="#dddddd" d="m50 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0 0 0 40-40 40 40 0 0
0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0
```

```
1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0
0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35
4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.63.8625 2.7875-4.6875 3.5625-0.325-1.175-
1.0375-3.1-2.1375-5.775l-1.05-
2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375
2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625
2.625c4.225-7.125 9.65-14.05 16.275-20.775s13.1-11.888 19.425-15.488z"/>
  <path id="alert-1-warn" fill="#dddddd" d="m48.4 11.206-38.4 77.186c0 1.608
0 1.608 1.6 1.608h76.8c1.6 0 1.6 0 1.6-1.608l-38.4-77.186c-1.6-1.608-1.6-
1.608-3.2 0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672
14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987
38.708h6.4v6.4322h-6.4z" stroke-linejoin="round" stroke-width="6.0624"/>
  <path id="alert-1-error" fill="#dddddd" d="m10 18v64c0 8 0 8 8 8h64c8 0 8 0 8-8v-64c0-8 0-8-8-8h-64c-8 0-8 0-
8zm4-4h72v72h-72zm4 12v48c0 8.0573-0.10514
8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8zm28.8 8c1.6-1.6 4.8-1.6
6.4 0v32c-1.6 1.6-4.8 1.6-6.4 0zm0 38.4h6.4v6.4h-6.4z" strokelinejoin="round" stroke-width="6.0472"/>
 </g>
</svg>
```

Now we have an image we can use in Splunk Studio Dashboard I've called mine svg-inst-basic2.svg (copied the above code in to a text editor and saved the file as svg-inst-basic-2.svg).

Next step is to build a page in Splunk Dashboard Studio to show this Choropleth SVG and make it change according to the data used.

For our example we will make up the data using the Splunk makeresults command. To make this work we need three separate results one for each layer path ID in the image (alert-1-ok, alert1-warn, alert-1-error) [Link: https://github.com/jami1701/splunk-dashboard-studio/blob/main/workfiles/spl-1.txt]:

```
| makeresults format=csv data="alertbase alert-1-base
"
| eval alertvalue = round(((random() % 3)/(3)) * (3.2) ,0)+1

| appendpipe
   [
   | eval alertlabel = replace(alertbase,"-base","-ok")
   | eval alertout = if(alertvalue=1,1,0)
   |  appendpipe
      [
      | eval alertlabel =  replace(alertbase,"-base","-warn")
      | eval alertout = if(alertvalue=2,2,0)
      | appendpipe
         [
         | eval alertlabel =  replace(alertbase,"-base","-error")
         | eval alertout = if(alertvalue=3,3,0)
         ]
      ]
   ]
```

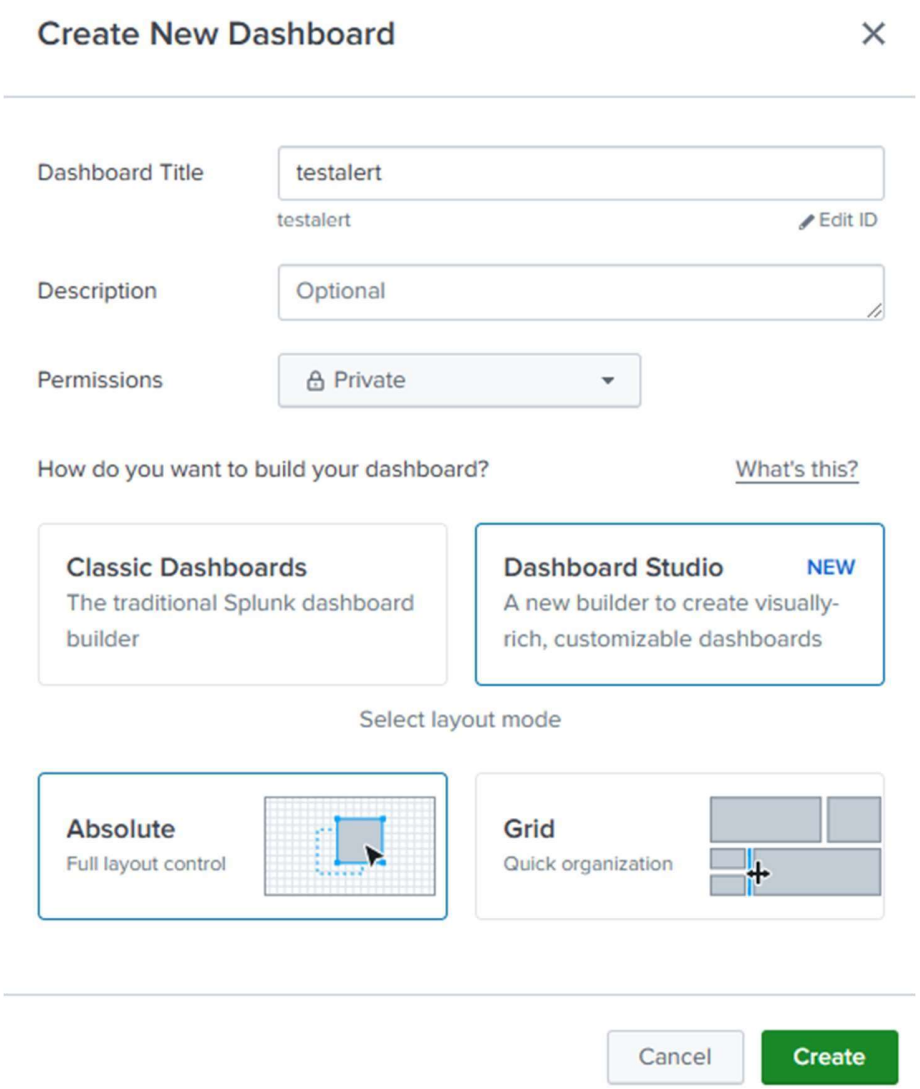
```
| where !isnull(alertlabel)

| eval _time=now()
| table _time alertlabel alertout
```

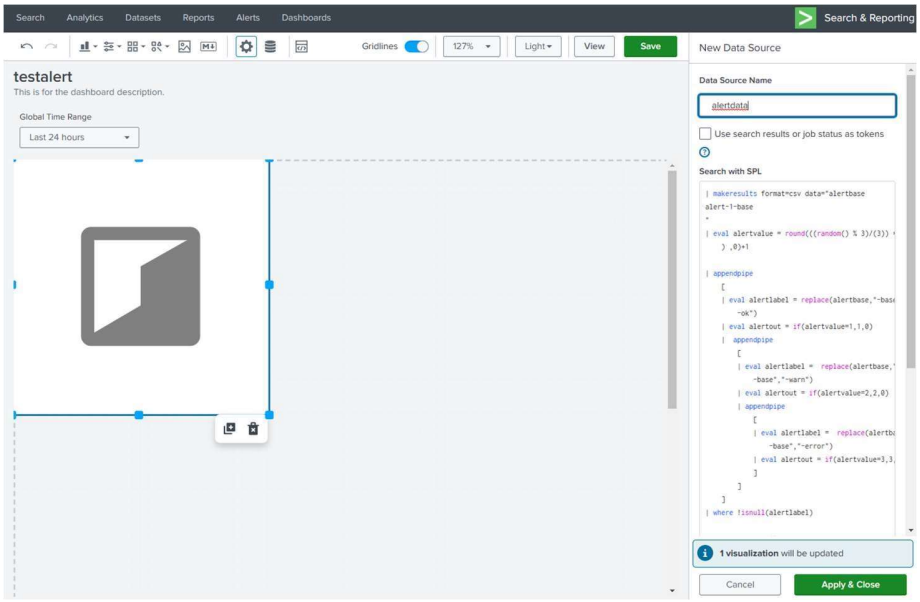
Although the above search is a little over engineered for what we need it has been written like this to take advantage of later stages in this document. For now it will produce a table of three rows with alertlabel(s) alert-1-ok, alert-1-warn, alert-1-error. It will also add a 0,1,2 or 3 to the alertout field for each of the rows (this is just for proving and testing and with any search written in Splunk there are a million of right ways to do anything this is just my preferred way of working).

Time to put the whole thing together as we have our image and we have our search.

Create a new absolute positioned dashboard in the studio style:

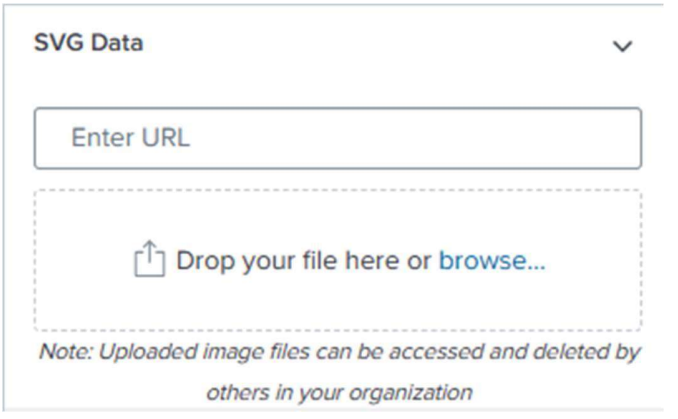


Once created and in edit mode we add a Choropleth SVG to the page we will also add the search needed to generate the results when we do this as the New Data Source side panel is already open. Note: give the search a meaningful name so that anyone editing this Splunk Studio Dashboard can easily identify the data it relates to plus it's good practice.



Click Apply and close.

Add the image to this by dropping it on to the Configuration side panel.



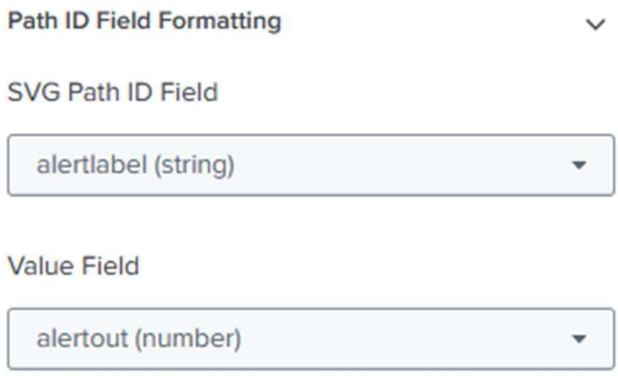
To

You should now have a Choropleth SVG image in your dashboard that looks like the following:

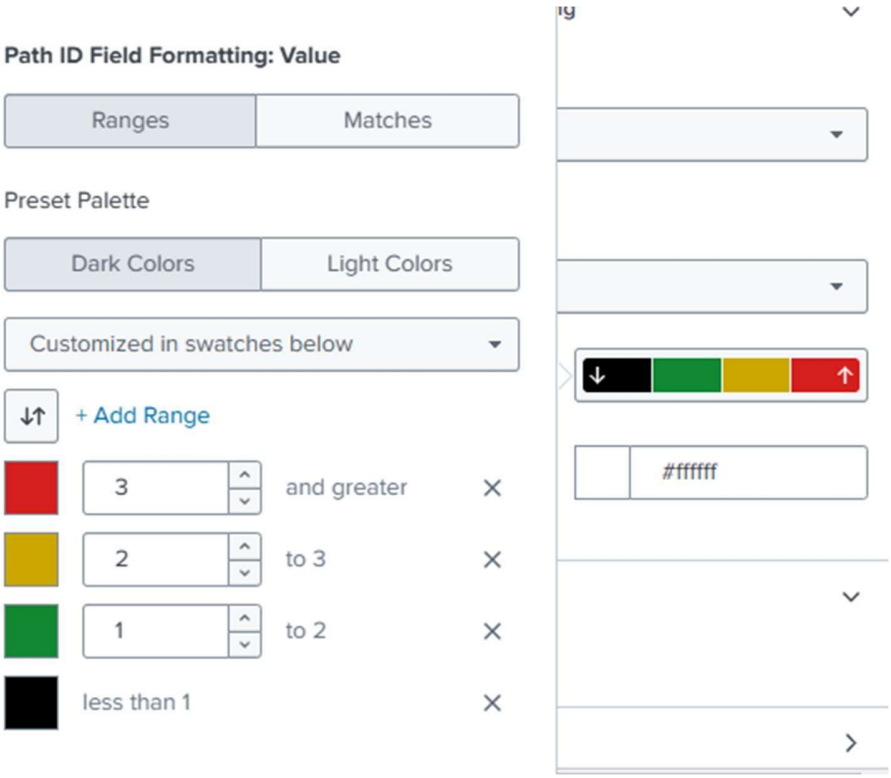
The colour might be different from mind but the image should no longer be grey (#dddddd).

We can now start to refine the output of the Choropleth SVG image properties.

In the Path Id Field Formatting section of the configuration panel check that it has the following for SVG Path ID Field and Field Value.



Next open the coloring dropdown and adjust it to look like this:



Ensure that 3 is red (#d41f1f), 2 is amber (#cba700), 1 is green (#118832) and less than 1 is black (#000000). Remove any other elements.
Were almost done... this will make the Choropleth SVG image on the dashboard look something like:

This is because in this case the error path element in the Choropleth SVG is showing as red but the warn and ok path elements are showing as black (yours may differ but the results will be similar , one of the three colour set above will be partially seen and the other two path elements will be black.

We need to hide the black path elements. This will need to be done in code as trying to enter transparent in the coloring drop will not work. Quickest way to do this is to change the code in the code section of the configuration side panel. Original code would be:

```
{
  "type": "splunk.choropleth.svg",
  "options": {
    "svg": "splunk-enterprise-kvstore://63e53f6393b8ef4632666a84",
    "areaColors": "> areaValues | rangeValue(areaColorsEditorConfig)"    },
  "dataSources": {
    "primary": "ds_sJQw39lU"
  },
  "context": {
    "areaColorsEditorConfig": [          {
          "value": "#000000",
          "to": 1
        },
        {
          "value": "#118832",
          "from": 1,
          "to": 2
        },
        {
          "value": "#cba700",
          "from": 2,
          "to": 3
        },
        {
          "value": "#d41f1f",
          "from": 3
        }
    ]
  },
  "showProgressBar": false,
  "showLastUpdated": false }
```

New code would be (change on line 13):

```
{
  "type": "splunk.choropleth.svg",
  "options": {
    "svg": "splunk-enterprise-kvstore://63e53f6393b8ef4632666a84",
    "areaColors": "> areaValues | rangeValue(areaColorsEditorConfig)"
  },
  "dataSources": {
    "primary": "ds_sJQw39lU"
```

```
},
"context": {
   "areaColorsEditorConfig": [
      {
         "value": "transparent",
         "to": 1
      },
      {
         "value": "#118832",
         "from": 1,
         "to": 2
      },
      {
         "value": "#cba700",
         "from": 2,
         "to": 3
      },
      {
         "value": "#d41f1f",
         "from": 3
      }
   ]
},
"showProgressBar": false,
"showLastUpdated": false }
```

Now our image should appear as one of the following.



At this point, I'd also add a table to the dashboard alongside the Choropleth SVG to check that I get the correct results each time.
The table should connect to the same data source as the Choropleth SVG so that they will share the results.

_time	alertlabel	alertout
2023-02-10T09:55:12+00:00	alert-1-ok	0
2023-02-10T09:55:12+00:00	alert-1-warn	0
2023-02-10T09:55:12+00:00	alert-1-error	3

We can then refresh this as many times as we like (in view mode) to see the different responses.

That is the basic workflow, we can now expand on this to add many more path elements to the Choropleth SVG as long as we follow some rules, first if we extend the alertdata search to the following [Link: https://github.com/jami1701/splunk-dashboard-studio/blob/main/workfiles/spl-final.txt]:

```
| makeresults format=csv data="alertbase
alert-1-base
alert-2-base
alert-3-base
alert-4-base
alert-5-base"
| eval alertvalue = round(((random() % 3)/(3)) * (3.2) ,0)+1

| appendpipe
   [
   | eval alertlabel = replace(alertbase,"-base","-ok")
   | eval alertout = if(alertvalue=1,1,0)
   |  appendpipe
      [
      | eval alertlabel =  replace(alertbase,"-base","-warn")
      | eval alertout = if(alertvalue=2,2,0)
      | appendpipe
         [
         | eval alertlabel =  replace(alertbase,"-base","-error")
         | eval alertout = if(alertvalue=3,3,0)
         ]
      ]
   ]
| where !isnull(alertlabel)

| eval _time=now()
| table _time alertlabel alertout
```

The Splunk Studio Dashboard will look like:

_time	alertlabel	alertout
2023-02-10T10:13:52+00:00	alert-1-ok	0
2023-02-10T10:13:52+00:00	alert-2-ok	1
2023-02-10T10:13:52+00:00	alert-3-ok	0
2023-02-10T10:13:52+00:00	alert-4-ok	0
2023-02-10T10:13:52+00:00	alert-5-ok	0
2023-02-10T10:13:52+00:00	alert-1-warn	0

As the Choropleth SVG only contains paths relating to alert-1-* only those will be affected. but if we added more path elements with the correct id(s) for alert-2,3,4,5 then we can manage all the changes in the same Choropleth SVG at once from a single search run.

The code for this SVG is (including the change in a text editor to add the fill element on each path) [Link: https://github.com/jami1701/splunk-dashboard-studio/blob/main/workfiles/svg-final.svg]:

```
<?xml version="1.0" encoding="UTF-8"?>
<svg id="svg5" width="500" height="100" version="1.1" viewBox="0 0 500 100"
xmlns="http://www.w3.org/2000/svg">
 <g id="layer1">
  <path id="alert-1-ok" fill="#dddddd" d="m50 10a40 40 0 0 0-40 40 40 40 0 0
0 40 40 40 0 0 0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0
1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0
0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35
4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.63.8625 2.7875-4.6875 3.5625-0.325-1.175-
1.0375-3.1-2.1375-5.775l-1.05-
2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375
2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-
20.775s13.1-11.888 19.425-15.488z"/>
  <path id="alert-1-warn" fill="#dddddd" d="m48.4 11.206-38.4 77.186c0 1.608
0 1.608 1.6 1.608h76.8c1.6 0 1.6 0 1.6-1.608l-38.4-77.186c-1.6-1.608-1.6-
1.608-3.2 0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672
14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987
38.708h6.4v6.4322h-6.4z" stroke-linejoin="round" stroke-width="6.0624"/>
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8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6
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1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0
0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35
4.025-11.3 10.225-17.85 18.6-6.55 8.375-11.55 16.2-15 23.475l-2.775 1.875c-
2.3 1.6-3.8625 2.7875-4.6875 3.5625-0.325-1.175-1.0375-3.1-2.1375-5.775l-
1.05-2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-
3.3375 2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125
7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-20.775 6.625-6.725 13.111.888 19.425-15.488z"/>
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1.608-3.2 1e-6zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672
14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987
38.708h6.4v6.4322h-6.4z" stroke-linejoin="round" stroke-width="6.0624"/>
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0.10514 8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-1.6 1.6-4.8 1.6-6.4
0zm0 38.4h6.4v6.4h-6.4z" strokelinejoin="round" stroke-width="6.0472"/>
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0 40 40 40 0 0 0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0
1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0
0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35
4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.63.8625 2.7875-4.6875 3.5625-0.325-1.175-
1.0375-3.1-2.1375-5.775l-1.05-
2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375
2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-
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```

```
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1.608-3.2 0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672
14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987
38.708h6.4v6.4322h-6.4z" stroke-linejoin="round" stroke-width="6.0624"/>
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0.10514 8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-1.6 1.6-4.8 1.6-6.4
0zm0 38.4h6.4v6.4h-6.4z" strokelinejoin="round" stroke-width="6.0472"/>
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0 40 40 40 40 0 0 0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0
1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0
0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.69 11.306 1.32 1.875c-5.35
4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.78 1.875c-2.3 1.6-3.86
2.7875-4.69 3.5625-0.32-1.175-1.03-3.1-2.13-5.775l-1.05-2.4375c-1.5-3.5-2.9-
6.0875-4.2-7.7625-1.28-1.675-2.72-2.7875-4.32-3.3375 2.7-2.85 5.18-4.275
7.43-4.275 1.92 0 4.06 2.6125 6.41 7.8375l1.16 2.625c4.23-7.125 9.65-14.05
16.28-20.775 6.62-6.725 13.1-11.888 19.42-15.488z"/>
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1.608-3.2 0zm1.84 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.27
14.323c1.43-1.4934 4.63-1.4934 6.23 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.17 38.708h6.4v6.4322h-6.4z"
stroke-linejoin="round" strokewidth="6.0624"/>
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8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6
6.4 0v32c-1.6 1.6-4.8 1.6-6.4 0zm0 38.4h6.4v6.4h-6.4z" strokelinejoin="round" stroke-width="6.0472"/>
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1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0
0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35
4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.63.8625 2.7875-4.6875 3.5625-0.325-1.175-
1.0375-3.1-2.1375-5.775l-1.05-
2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375
2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-
20.775s13.1-11.888 19.425-15.488z"/>
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1.608-3.2 0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672
14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987
38.708h6.4v6.4322h-6.4z" stroke-linejoin="round" stroke-width="6.0624"/>
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0.10514 8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-1.6 1.6-4.8 1.6-6.4
0zm0 38.4h6.4v6.4h-6.4z" strokelinejoin="round" stroke-width="6.0472"/>
 </g>
</svg>
```

Once this SVG has replaced the original in the Choropleth SVG configuration, your dashboard should look like:

_time	alertlabel	alertout
2023-02-10T10:13:52+00:00	alert-1-ok	0
2023-02-10T10:13:52+00:00	alert-2-ok	1
2023-02-10T10:13:52+00:00	alert-3-ok	0
2023-02-10T10:13:52+00:00	alert-4-ok	0
2023-02-10T10:13:52+00:00	alert-5-ok	0
2023-02-10T10:13:52+00:00	alert-1-warn	0

Scrolling through the table, you should be able to check that each symbol in the Choropleth SVG is responding to the correct colour values we set up earlier.

Some other ways improve this would be to:

- Change the Dashboard title to 'Alerting using a Choropleth SVG' rather that 'testalert'.
- In the table instead of just linking to the alertdata search we would create a chained search that only show rows that have an alertout>0 as the only rows we are interested in seeing are the rows that are alerting.
- Set the table to show only the alertlabel and alertout fields, sort them in order of the label and rename the columns to 'Alert' and 'Alert Status'.
- Colour the 'Alert Status' column colour in the same way we colour the Choropleth SVG (maintains consistency).

- Escape the SVG image to web safe text (add a \ to escape " and any other special character as needed) so we can add it in to the source code as text rather than as a stored image, allowing for the dashboard to be deployed as part of an app.
- Change the Choropleth svg background to transparent so that the Splunk Studio Dashboard will fit better with both light and dark themes.
- Add another chained search to extract the latest _time in a Single Value element to show the last time the Splunk Studio Dashboard was updated - format this to only show the time.
- Add a refresh to the alertdata search so that new values would presented every 30 seconds.
- Remove the Global Time Range and set the alertdata search to look back a few minutes as this is a makeresult search the time is irrelevant.
- Lastly, add some labels above the 5 alerts to show what each represents and re-align the page the elements on the Splunk Studio Dashboard to better highlight important information.

The step to produce this we've included above are available in the full code so you can copy/paste in to a new empty dashboard and everything should just work.

The code incorporating all of the above improvements is as below and can be copied and pasted in to a new Splunk Studio Dashboard source screen:

```
{
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                        "viz_OFhZk2nu": {
                                "type": "splunk.choropleth.svg",
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"svg": "<?xml version=\"1.0\" encoding=\"UTF-8\"?>\n<svg id=\"svg5\" width=\"500\" height=\"100\" version=\"1.1\" viewBox=\"0 0 500 100\" xmlns=\"http://www.w3.org/2000/svg\">\n<g id=\"layer1\">\n<path id=\"alert-1-ok\" fill=\"#dddddd\" d=\"m50 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0 0 0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0 1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0 0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35 4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.6-3.8625 2.7875-4.6875 3.5625-0.325-1.175-1.0375-3.1-2.1375-5.775l-1.05-2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375 2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-20.775s13.1-11.888 19.425-15.488z\"/>\n<path id=\"alert-1-warn\" fill=\"#dddddd\" d=\"m48.4 11.206-38.4 77.186c0 1.608 0 1.608 1.6 1.608h76.8c1.6 0 1.6 0 1.6-1.608l-38.4-77.186c-1.6-1.608-1.6-1.608-3.2 0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672 14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c1.6 1.608-4.8 1.608-6.4 0zm-0.16987 38.708h6.4v6.4322h-6.4z\" strokelinejoin=\"round\" stroke-width=\"6.0624\"/>\n<path id=\"alert-1-error\" fill=\"#dddddd\" d=\"m10 18v64c0 8 0 8 8 8h64c8 0 8 0 8-8v-64c0-8 0-8-8-8h-64c-8 0-8 0-8 8zm4-4h72v72h-72zm4 12v48c0 8.0573-0.10514 8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-1.6 1.64.8 1.6-6.4 0zm0 38.4h6.4v6.4h-6.4z\" stroke-linejoin=\"round\" strokewidth=\"6.0472\"/>\n<path id=\"alert-2-ok\" fill=\"#dddddd\" d=\"m150 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0 0 0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0 1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0 0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35 4.025-11.3 10.225-17.85 18.6-6.55 8.375-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.6-3.8625 2.7875-4.6875 3.5625-0.325-1.175-1.0375-3.1-2.1375-5.775l-1.05-2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375 2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-20.775 6.625-6.725 13.1-11.888 19.425-15.488z\"/>\n<path id=\"alert-2-warn\" fill=\"#dddddd\" d=\"m148.4 11.206-38.4 77.186c0 1.608 0 1.608 1.6 1.608h76.8c1.6 0 1.6 0 1.6-1.608l-38.4-77.186c-1.6-1.608-1.6-1.608-3.2 1e-6zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672 14.323c1.4301-1.4934 4.6301-1.4934 6.2301 0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm0.16987 38.708h6.4v6.4322h-6.4z\" stroke-linejoin=\"round\" strokewidth=\"6.0624\"/>\n<path id=\"alert-2-error\" fill=\"#dddddd\" d=\"m110 18v64c0 8 0 8 8 8h64c8 0 8 0 8-8v-64c0-8 0-8-8-8h-64c-8 0-8 0-8 8zm4-4h72v72h-72zm4 12v48c0 8.0573-0.10514 8 8 8h48c8 0 8 0 8-8v-48c0-8 0-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-1.6 1.6-4.8 1.6-6.4 0zm0 38.4h6.4v6.4h-6.4z\" stroke-linejoin=\"round\" stroke-width=\"6.0472\"/>\n<path id=\"alert-3-ok\" fill=\"#dddddd\" d=\"m250 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0 0 0 40-40 40 40 0 0 0-40-40zm0 2a38 38 0 0 1 38 38 38 38 0 0 1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36 36 0 0 0-36 36 36 36 0 0 0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694 11.306 1.3125 1.875c-5.35 4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15 23.475l-2.775 1.875c-2.3 1.6-3.8625 2.7875-4.6875 3.5625-0.325-1.175-1.0375-3.1-3.753.1-2.1375-5.775l-1.05-2.4375c-1.5-3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-2.7125-2.7875-4.3125-3.3375 2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625 2.6125 6.4125 7.8375l1.1625 2.625c4.225-7.125 9.65-14.05 16.275-20.775s13.111.888 19.425-15.488z\"/>\n<path id=\"alert-3-warn\" fill=\"#dddddd\" d=\"m248.4 11.206-38.4 77.186c0 1.608 0 1.608 1.6 1.608h76.8c1.6 0 1.6 0 1.61.608l-38.4-77.186c-1.6-1.608-1.6-1.608-3.2 0zm1.837 2.8313 36 72.362h-72zm0 5.2434-32 64.322h64zm-3.2672 14.323c1.4301-1.4934 4.6301-1.4934 6.2301
```

```
0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987 38.708h6.4v6.4322h-6.4z\" stroke-linejoin=\"round\" stroke-width=\"6.0624\"/>\n<path id=\"alert-3error\" fill=\"#dddddd\" d=\"m210 18v64c0 8 0 8 8 8h64c8 0 8 0 8-8v-64c0-8 08-8-8h-64c-8 0-8 0-8 8zm4-4h72v72h-72zm4 12v48c0 8.0573-0.10514 8 8 8h48c8 0
8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c1.6 1.6-4.8 1.6-6.4 0zm0 38.4h6.4v6.4h-6.4z\" stroke-linejoin=\"round\" stroke-width=\"6.0472\"/>\n<path id=\"alert-4-ok\" fill=\"#dddddd\" d=\"m350 10a40 40 0 0 0-40 40 40 40 0 0 0 40 40 40 40 0 0 0 40-40 40 40 0 0 0-40-40zm0
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2a36 36 0 0 0-36 36 36 36 0 0 0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-
36zm24.69 11.306 1.32 1.875c-5.35 4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15
23.475l-2.78 1.875c-2.3 1.6-3.86 2.7875-4.69 3.5625-0.32-1.175-1.03-3.1-2.135.775l-1.05-2.4375c-1.5-3.5-2.9-
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7.8375l1.16 2.625c4.23-7.125 9.65-14.05 16.28-20.775 6.62-6.725 13.1-11.888
19.42-15.488z\"/>\n<path id=\"alert-4-warn\" fill=\"#dddddd\" d=\"m348.4
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38.4-77.186c-1.6-1.608-1.6-1.608-3.2 0zm1.84 2.8313 36 72.362h-72zm0 5.243432 64.322h64zm-3.27 14.323c1.43-
1.4934 4.63-1.4934 6.23 0.11464v32.161c-1.6
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48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c-1.6 1.6-4.8
1.6-6.4 0zm0 38.4h6.4v6.4h-6.4z\" stroke-linejoin=\"round\" strokewidth=\"6.0472\"/>\n<path id=\"alert-5-ok\"
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38 0 0 1 38 38 38 38 0 0 1-38 38 38 38 0 0 1-38-38 38 38 0 0 1 38-38zm0 2a36
36 0 0 0-36 36 36 36 0 0 0 36 36 36 36 0 0 0 36-36 36 36 0 0 0-36-36zm24.694
11.306 1.3125 1.875c-5.35 4.025-11.3 10.225-17.85 18.6s-11.55 16.2-15
23.475l-2.775 1.875c-2.3 1.6-3.8625 2.7875-4.6875 3.5625-0.325-1.175-1.03753.1-2.1375-5.775l-1.05-2.4375c-1.5-
3.5-2.9-6.0875-4.2-7.7625-1.275-1.675-
2.7125-2.7875-4.3125-3.3375 2.7-2.85 5.175-4.275 7.425-4.275 1.925 0 4.0625
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5.2434-32 64.322h64zm-3.2672 14.323c1.4301-1.4934 4.6301-1.4934 6.2301
0.11464v32.161c-1.6 1.608-4.8 1.608-6.4 0zm-0.16987 38.708h6.4v6.4322h-6.4z\" stroke-linejoin=\"round\" stroke-
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8 0 8-8v-48c0-8 0-8-8-8h-48c-8 0-8 0-8 8zm28.8 8c1.6-1.6 4.8-1.6 6.4 0v32c1.6 1.6-4.8 1.6-6.4 0zm0 38.4h6.4v6.4h-
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round(((random() % 3)/(3)) *
(3.2) ,0)+1\n\n| appendpipe \n [\n | eval alertlabel = replace(alertbase,\"-base\",\"-ok\")\n | eval alertout =
if(alertvalue=1,1,0)\n | appendpipe \n [\n | eval alertlabel = replace(alertbase,\"-base\",\"-warn\")\n |
eval alertout = if(alertvalue=2,2,0) \n | appendpipe \n [\n | eval alertlabel = replace(alertbase,\"-
base\",\"-error\")\n | eval alertout = if(alertvalue=3,3,0) \n ]\n ]\n ]\n| where !isnull(alertlabel)\n\n|
eval _time=now()\n| table _time alertlabel alertout",
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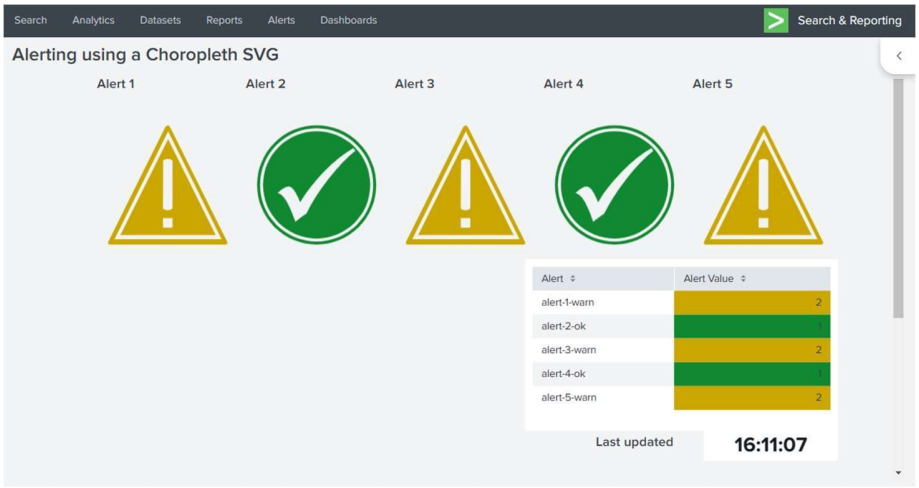
Screen grab of the above code:



Using the above method you can do several things in the same visible spaces at once. Your SVG image and the Splunk search needed to produce the correct results will need to be carefully crafted to ensure that the right element (paths) in the image are either coloured correctly or made to be transparent.

A concept for this would be:

- Have a grid of available services that all have a connection to one of two places.
- Each service would have an arrow point up/down to indicate which direction the service was flowing.
- Each of the services could have an individual RAG status
- Each would have pipe could show which direction each service in feeding in.
- Other information should be available on the page to show what each sites name is.
- Totalled and overview information should be available.

Producing this in an image will always show more information that the raw stats. Such a dashboard could look like:

The service names are listed on the left.

Top middle is the status and pipe each service is using.

Top right a graph showing the flow percentages north v south.

Bottom middle and right showing the total GB incoming and outgoing for North and South.

And the code for this (using makeresults and random data + embedded SVG images) would be:

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```

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                        "query": "| makeresults count=24\n| streamstats count\n| eval showavail=20\n| eval cnsp = \"cnsp-\" + count \n| eval cnsp_n = \"cnsp-n-\" + count \n| eval cnsp_s = \"cnsp-s-\" + count \n| eval cnsp_t_n = \"cnsp-t-n-\" + count \n| eval cnsp_t_s = \"cnsp-t-s-\" + count \n\n| eval alert_level = if(count<=showavail,round(((random() % 5.2)/(5.2)) * (5.2 - 1) ,0) + 10 ,99)\n| eval isnorth = if(count<=showavail,round(((random() % 2.2)/(2.2)) * (2.2 - 1) ,0),0)\n| eval issouth = if(count<=showavail,if(isnorth=1,0,1) ,0)\n| eval alert_n = if(count<=showavail,if(isnorth=1,alert_level+10,0) ,99)\n| eval alert_s = if(count<=showavail,if(issouth=1,alert_level,0),99)\n\n| rename count as Number \n| table Number cnsp alert_n alert_s isnorth issouth cnsp_n cnsp_s cnsp_t_n cnsp_t_s item alert showavail\n``` numbers ```\n| appendpipe \n    [| where isnull(item) \n    | eval item = cnsp\n    | eval alert = if( Number<=showavail,1,0)]\n    ```blocks North``` \n| appendpipe \n    [| where isnull(item ) \n    | eval item = cnsp_n \n    | eval alert = alert_n ]\n    ```blocks South``` \n| appendpipe \n [| where isnull(item ) \n    | eval item = cnsp_s \n    | eval alert = alert_s ] \n    ```track North ``` \n| appendpipe \n    [ | where isnull(item ) \n    | eval item = cnsp_t_n \n    | eval alert = isnorth ]\n    ```track south ``` \n| appendpipe \n    [ | where isnull(item ) \n    | eval item = cnsp_t_s \n    | eval alert = issouth ]\n| search item=* \n| table item alert\n| append\n    [ | makeresults \n    | eval item = \"alloff\"\n    | eval alert=0| table item alert ]",
                        "queryParameters": {
                            "earliest": "-15m",
                            "latest": "now"
                        }
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                    "name": "trafic_flows"
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                "ds_tiSCVx8B": {
                    "type": "ds.chain",
                    "options": {
                        "extend": "ds_vzNWM78n",
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                    },
                    "name": "trafic_split"
                },
                "ds_19Nj61Us": {
                    "type": "ds.search",
                    "options": {
                        "query": "| makeresults count=21\n| streamstats count as Number | eval Provider = \"CNSP\" + Number\n| table Number Provider \n|  eval Name = \"Service \" + Number\n| sort Number \n|  table Number Name
\n| rename Number as \"Service Number\"",
```

```
                                "queryParameters": {
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                                    "latest": "now"
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1500)/(1000)) * (1000 - 1) ,0)+800\n| eval in_ssh = round(((random() %
300)/(300)) * (300 - 1) ,0)+800\n| eval in_ldap = round(((random() %
300)/(300)) * (300 - 1) ,0)+600\n| eval in_other = round(((random() % 300)/(300)) * (300 - 1) ,0)+200\n| eval in_total =
in_http+ in_https+ in_ssh+ in_ldap+ in_other\n| eval out_http = round(((random() % 5.2)/(5.2)) * (5.2 -
1) ,0)\n| eval out_https = round(((random() % 1000)/(1000)) * (1000 - 1)
,0)+800\n| eval out_ssh = round(((random() % 400)/(300)) * (300 - 1)
,0)+800\n| eval out_ldap = round(((random() % 300)/(300)) * (300 - 1)
,0)+600\n| eval out_other = round(((random() % 300)/(200)) * (300 - 1) ,0)+200\n| eval out_total = out_http+
out_https+ out_ssh+ out_ldap+ out_other\n",
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                                "query": "| table  out* \n| stats sum(*) as *\n| fields - out_total\n| table out*\n|
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                            },
                            "name": "outbreakdown"
                        },
                        "ds_BpbuzRN8": {
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                            "options": {
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                                "query": "| table out* \n| stats sum(*) as *\n|
fields out_total\n| table out*\n| transpose\n| eval column = upper(trim(replace(column, \"out_\", \"\")))"
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                            "name": "outtotal"
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```

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fields - in_total\n| transpose\n| eval column = upper(trim(replace(column,
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                                                                "query": "| table  in* \n| stats sum(*) as *\n|
fields in_total\n| transpose\n| eval column = upper(trim(replace(column,
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                                  "ds_SYpQnA7O": {
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                                        "options": {
                                                    "extend": "ds_vzNWM78n",
                                                "query": "   | search item=\"cnsp-n-*\" OR item=\"cnsp-s-*\"\n    | eval item =
if(like(item,\"cnsp-n-%\")
,\"north\",\"south\")\n| stats avg(alert) as alert by item\n| appendpipe \n
[eval item=\"total\"\n    | stats avg(alert) as alert by item]"
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                "h": 50
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                "y": 100,
                "w": 440,
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            "type": "block",
```

```
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                "h": 190
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                "y": 550,
                "w": 270,
                "h": 50
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                "w": 550,
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            "type": "block",
```

```
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}
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What is a SVG?

A Scalable Vector Graphic (SVG) is a unique type of image format. Unlike other varieties, SVGs don't rely on unique pixels to make up the images you see. Instead, they use 'vector' data.

By using SVGs, you get images that can scale up to any resolution, which comes in handy for web design among plenty of other use cases. In this article, we'll ask the question: What is an SVG file? We'll then teach you how to use the format. For more information: https://en.wikipedia.org/wiki/SVG

What is Inkscape?

You can find information about Inkscape at:

https://inkscape.org/about/overview/

And can download from the link on that page.

The Splunk makeresults command

https://docs.splunk.com/Documentation/Splunk/9.0.3/SearchReference/Makeresults

The Splunk eval command

https://docs.splunk.com/Documentation/Splunk/9.0.3/SearchReference/Eval The

Splunk statistical function

https://docs.splunk.com/Documentation/SCS/current/SearchReference/StatisticalFunctions
[random() function]

Other Links

Escape function to make image safe as a string within the dashboard.

https://onlinestringtools.com/escape-string