



Custom Visualizations And You

A How-To For Developers

Scott Haskell | Principal SE Architect @ Splunk

September 25, 2017 | Washington, DC

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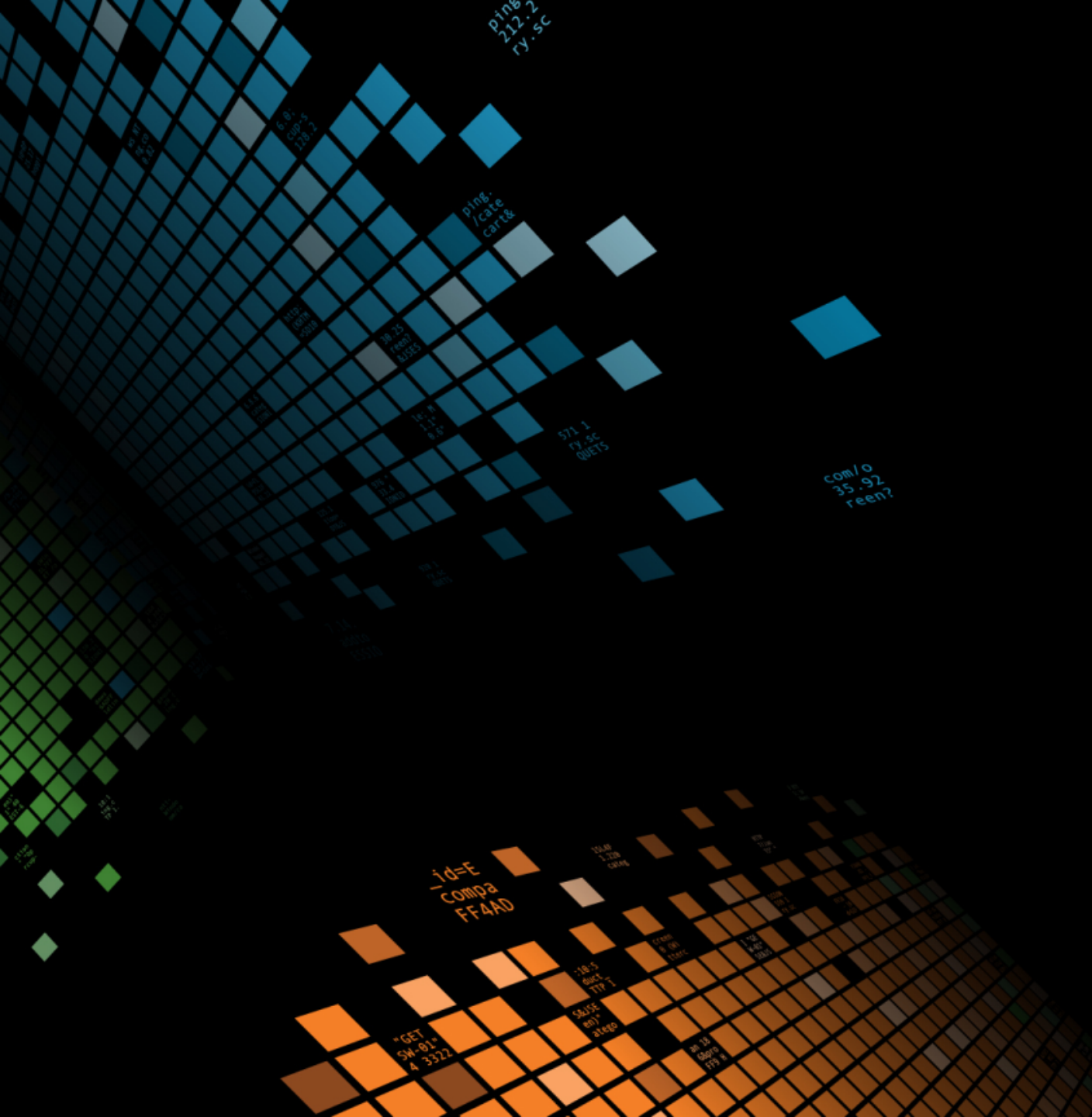
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About Me

- ▶ Principal SE Architect @ Splunk – 4.5 years
- ▶ Former Splunk Customer – 2 years
- ▶ Tools developer and Javascript tinkerer
- ▶ Custom Viz Author
 - Clustered Single Value Map Visualization
 - Custom Image Map Visualization
- ▶ Father of 3
- ▶ Lifelong A's fan

```
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD15L9FF1ADFF3 HTTP/1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10; Linux x86_64; rv:15.0 Gecko/20100101 Firefox/15.0"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD55L7FF6ADFF9 HTTP/1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=K9-CU-01" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_2; rv:42.0) Gecko/20100801 Firefox/42.0"
317.27.160.0 - - [07/Jan 18:10:56:150] "GET /oldlink?item_id=EST-26&JSESSIONID=SD55L9FF1ADFF3 HTTP/1.1" 200 1316 "http://buttercup-shopping.com/changequantity?itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD10SL9FF2ADFF9 HTTP/1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&product_id=K9-CU-01" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_2; rv:42.0) Gecko/20100801 Firefox/42.0"
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```

Viz Evolution

In The Beginning

splunk App: World Soccer Administrator Messages Settings Activity Help Find

Search Datasets Reports Alerts Dashboards World Soccer

English Premier League Home Team 2013/2014 Submit

Showing all 60 rows

Team	Fouls	Yellow Cards	Red Cards	Shots	Shots On Target	Half Time Goals	Full Time Goals	Result	id
Everton	7	3	0	15	7	3	3	Win	0
Sunderland	9	2	0	16	5	0	1	Loss	1
Stoke	14	2	0	6	1	0	0	Loss	2
Tottenham	16	5	0	9	4	1	1	Draw	3
Swansea	6	3	0	8	3	0	1	Loss	4
Southampton	11	1	0	9	4	0	2	Win	5
Man United	10	3	0	9	6	0	1	Loss	6
Hull	11	1	0	8	4	1	1	Win	7
Fulham	14	1	0	8	5	1	1	Loss	8

About Support File a Bug Documentation Privacy Policy © 2005-2017 Splunk Inc. All rights reserved.

130.60.4 - [07/Jan 18:10:57:123] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10.1; SV1; .NET CLR 1.1.4322" 468 125.17.14.10

128.241.220.82 - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD19SL9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1" "Opera/9.80.2013.10.1; SV1; .NET CLR 1.1.4322" 468 125.17.14.10

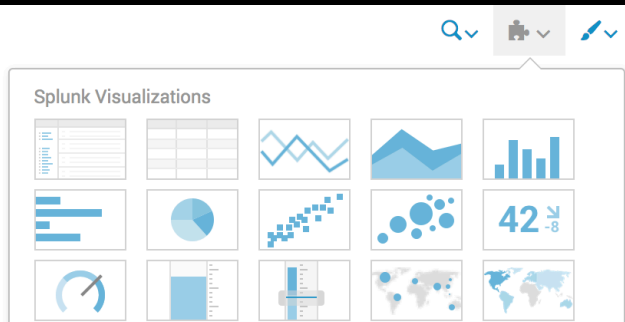
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A Better Way



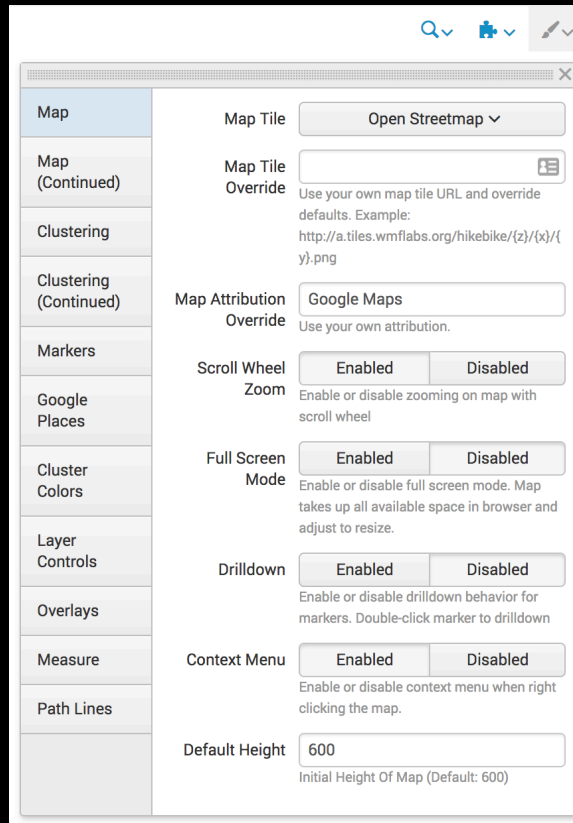
Splunk Visualizations

More

[Find more visualizations](#)

Clustered Single Value Map Visualization
 Ever wanted to plot massive amounts of single value lat/lons with clustering and drilldown to individual markers? Use this! No geostats aggregation at all! Tested with 1.7 million individual points.

Search Fragment
 | fillnull | eval description = "".description."" | table latitude, longitude, description



Map

Map Tile

Map (Continued)

Map Tile Override

Clustering

Clustering (Continued)

Map Attribution

Map Attribution Override

Markers

Scroll Wheel Zoom Enabled Disabled
 Enable or disable zooming on map with scroll wheel

Google Places

Full Screen Mode Enabled Disabled
 Enable or disable full screen mode. Map takes up all available space in browser and adjust to resize.

Cluster Colors

Layer Controls

Drilldown Enabled Disabled
 Enable or disable drilldown behavior for markers. Double-click marker to drilldown

Overlays

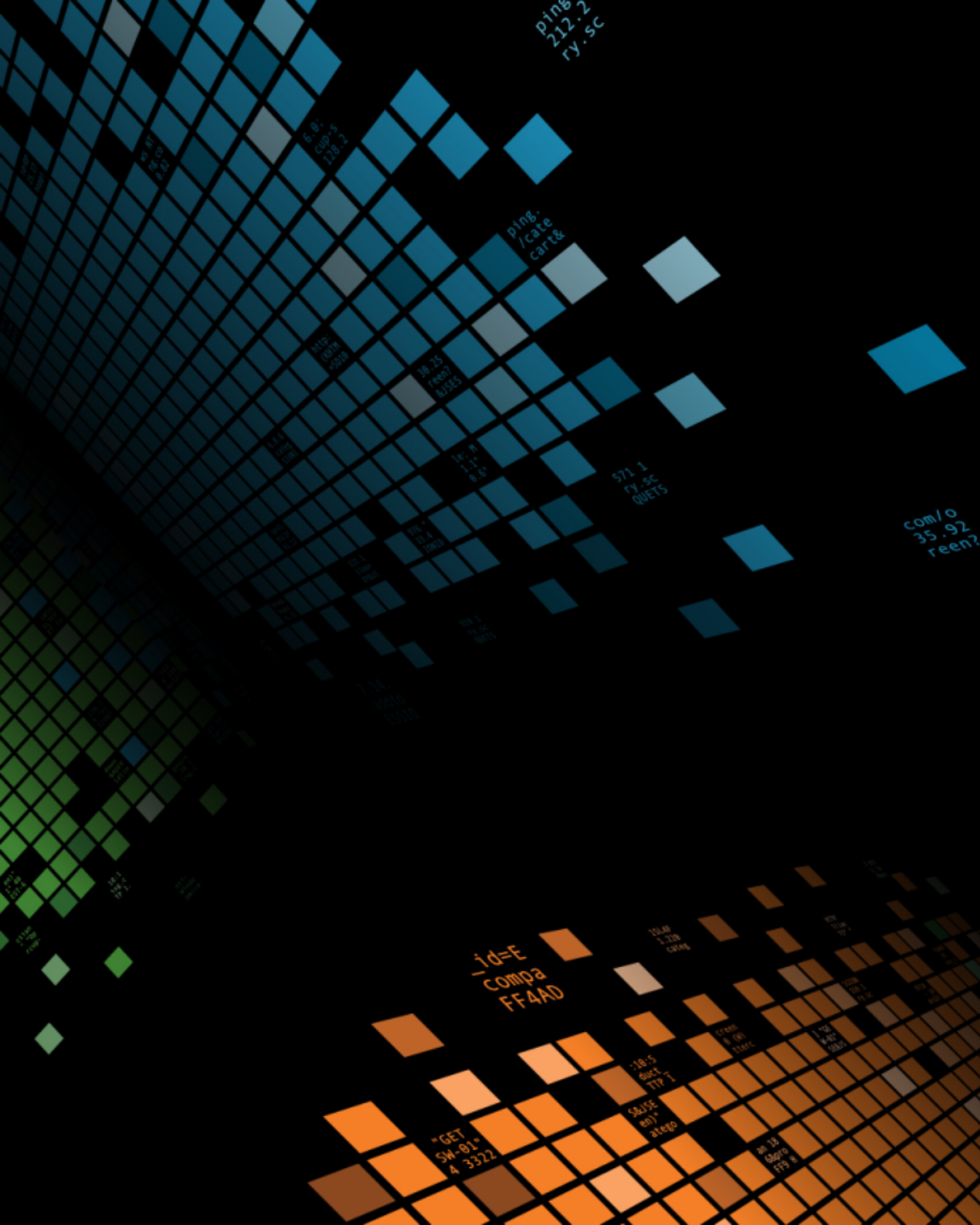
Context Menu Enabled Disabled
 Enable or disable context menu when right clicking the map.

Measure

Path Lines

Default Height
 Initial Height Of Map (Default: 600)

- ▶ Custom Viz API
- ▶ Standardization
- ▶ Consistent Behavior
- ▶ Packaging and distribution on Splunkbase
- ▶ ACL's & App Context Namespacing



Anatomy Of A Viz

API

Core Methods

► *updateView* *

- Called when search results are update or viz format changes
- *Data* and *config* parameters

► *getInitialDataParams* *

- Required for data to be returned from search.
- Specifies data output format and max number of results
 - Column Major, Row Major, Raw

► *formatData*

- Use to **error check/clean/transform** data passed into *updateView*

► *setupView*

- One-time view setup logic

```

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD5L9FF1ADFF3 HTTP/1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01"
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itemId=EST-16&product_id=RP-LI-02" 468 125.17.14.131 "GET /category.screen?category_id=FLOWERS&JSESSIONID=SD5L9FF1ADFF3 HTTP/1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&JSESSIONID=SD5L9FF1ADFF3"
opping.com/purchase&itemId=EST-18" 200 1316 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&JSESSIONID=SD5L9FF1ADFF3"
http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&JSESSIONID=SD5L9FF1ADFF3" 200 1316 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&JSESSIONID=SD5L9FF1ADFF3"

```


package.json

```

{
  "name": "leaflet_maps_app",
  "version": "1.5.7",
  "description": "Leaflet maps app with Markercluster plugin functionality.",
  "main": "visualization.js",
  "scripts": {
    "build": "node ./node_modules/webpack/bin/webpack.js",
  },
  "author": "Splunk",
  "license": "MIT",
  "devDependencies": {
    "imports-loader": "^0.6.5",
    "webpack": "^1.12.6"
  },
  "dependencies": {
    "jquery": "^2.2.0",
    "underscore": "^1.8.3",
    "leaflet": "^1.0.3",
  }
}

```


Browser Dev Tools

New Search

index=chicago_crime latitude=* longitude=* | head 5 | table latitude, longitude, description

5 events (7/11/17 12:00:00.000 AM to 8/10/17 4:49:43.000 AM) No Event Sampling

Events Patterns Statistics (5) Visualization

Clustered Single Value Map Visualization Format Trellis

Elements Console Sources Network Performance Memory Application Security Audits

top Filter Default levels 9 items hidden by filters

InboxSDK: Unsupported origin <http://192.168.99.185:8000> platform-implementation.js:sourcemap:104

DevTools failed to parse SourceMap: <https://www.inboxsdk.com/build/platform-implementation.js.map>

Data: (5) [{"latitude": "41.997341964", "longitude": "-87.712065116", "description": "DOMESTIC BATTERY SIMPLE"}, {"latitude": "41.794776864", "longitude": "-87.680572893", "description": "DELIVERY CONTAINER THEFT"}, {"latitude": "41.967738791", "longitude": "-87.770859578", "description": "DOMESTIC BATTERY SIMPLE"}, {"latitude": "41.998518774", "longitude": "-87.809345816", "description": "SIMPLE"}, {"latitude": "41.96939638", "longitude": "-87.786785759", "description": "AUTOMOBILE"}]

Offset: 5

Config:

```

display.visualizations.custom.drilldown: "all", display.visualizations.custom.leaflet_maps_app.leaflet_maps.mapTile: "http://{s}.tile.openst
display.visualizations.custom.drilldown: "all"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.allPopups: "0"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.animate: "1"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.autoFitAndZoom: "1"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.autoFitAndZoomDelay: "500"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.cluster: "1"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.contextMenu: "1"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.criticalThreshold: "80"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.defaultHeight: "600"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.drilldown: "0"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.fullScreen: "0"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.googlePlacesPosition: "topleft"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.googlePlacesSearch: "0"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.googlePlacesZoomLevel: "12"
display.visualizations.custom.leaflet_maps_app.leaflet_maps.layerControl: "1"

```

```

this.offset += dataRows.length;
console.log("Data: ", dataRows);
console.log("Offset: ", this.offset);
console.log("Config: ", config);
this.updateDataParams({count: this.chunk,
offset: this.offset});

```


Open Source Your Code

GitHub repository interface for **sghaskell / Clustered-Single-Value-Map-Visualization**. The repository has 1 Unwatch, 6 Stars, and 3 Forks.

Navigation: Code, Issues (3), Pull requests (0), Projects (0), Wiki, Settings, Insights.

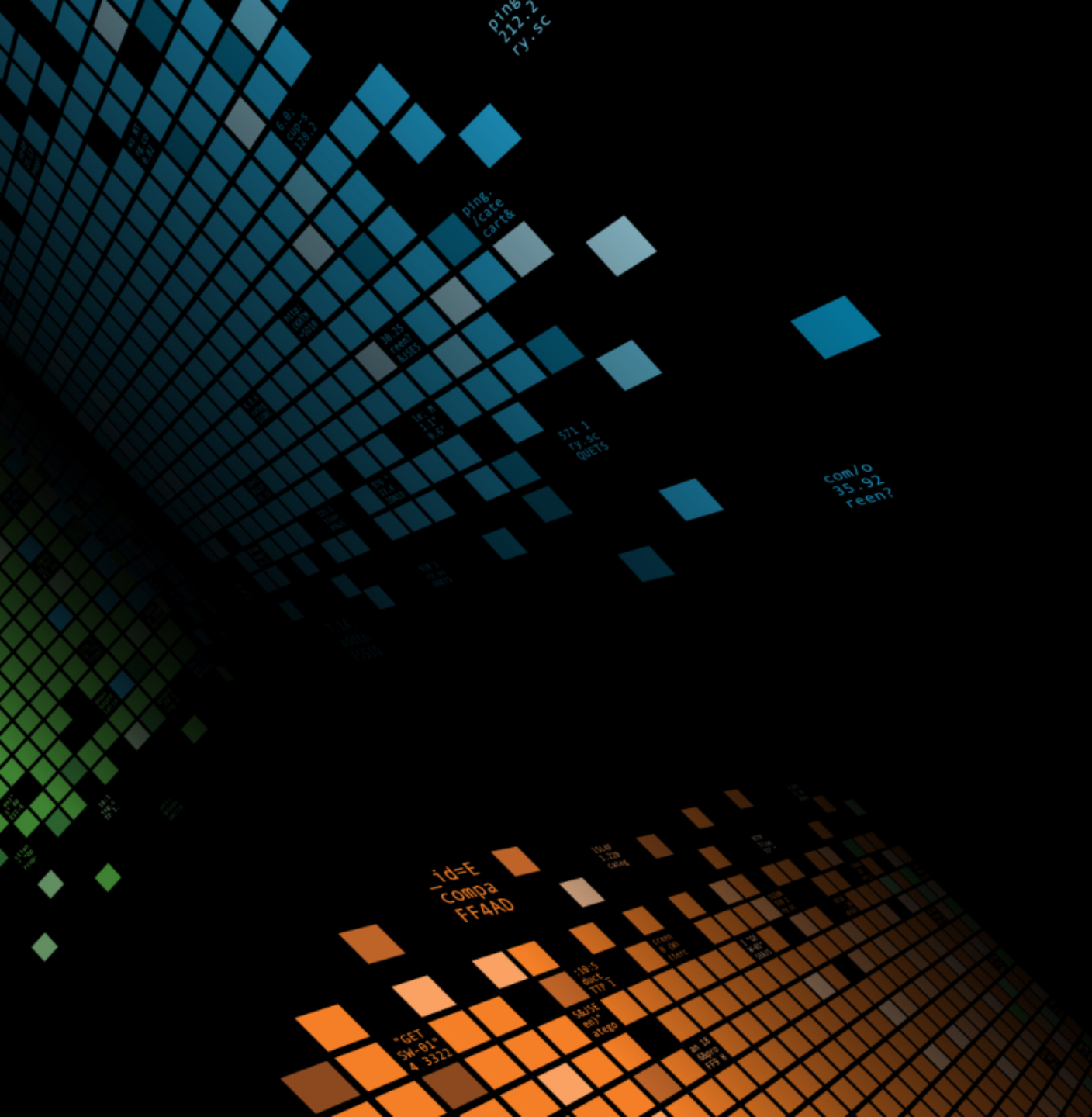
Filters: Search all issues, Labels, Milestones, New issue.

Clear current search query, filters, and sorts.

<input type="checkbox"/>	3 Open	7 Closed	Author	Labels	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>				bug				1
#10 opened 3 days ago by hettervik								
<input type="checkbox"/>				help wanted				1
#9 opened 15 days ago by meenalluktuke								
<input type="checkbox"/>				enhancement				19
#8 by pgthompson was closed on Jul 6								
<input type="checkbox"/>				bug				1
#7 by timgrossmann was merged on May 5								
<input type="checkbox"/>				enhancement		help wanted		3
#6 opened on Apr 25 by simcen								
<input type="checkbox"/>				enhancement				2
#5 by meenalluktuke was closed on Jul 10								
<input type="checkbox"/>				enhancement		help wanted		7
#4 by meenalluktuke was closed on Jul 10								
<input type="checkbox"/>				bug				1
#3 by sghaskell was closed on Apr 4								
<input type="checkbox"/>								
#2 by doodemeister was merged on Feb 28								
<input type="checkbox"/>								1
#1 by doodemeister was merged on Feb 16								

► Use GitHub for

- Documentation
- Issue Tracking
- Feature Requests
- Collaboration



Tips & Tricks

► **SplunkVisualizationUtils**

- `escapeHtml(inputString)` | Prevent XSS injection
- `makeSafeUrl(inputUrl)` | Strip dynamic content from unsafe URL schemes

► **default/visualizations.conf**

- `supports_drilldown = 0 | 1` (6.6.x)
- `supports_trellis = 0 | 1` (6.6.x)

```

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SLAFF10ADFF10 HTTP/1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP/1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-20&product_id=K9-CU-01" "Compaq/10.14.1
ows NT 5.1; SV1; .NET CLR 1.1.4322" "
130.60.4 - - [07/Jan 18:10:56:150] "GET /oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP/1.1" 200 1316 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD10SL01E2ADFF9 HTTP/1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1
130.60.4 - - [07/Jan 18:10:55:187] "GET /category.screen?category_id=FLOWERS&JSESSIONID=SD5SL7FF6ADFF9 HTTP/1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-11&product_id=K9-CU-01" "Compaq/10.14.1
130.60.4 - - [07/Jan 18:10:55:108] "GET /category.screen?category_id=FLOWERS&JSESSIONID=SD5SL7FF6ADFF9 HTTP/1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-11&product_id=K9-CU-01" "Compaq/10.14.1

```


Leverage Available Resources

- ▶ Download Splunk Built Viz
- ▶ [Follow the tutorial](#)
 - <https://docs.splunk.com/Documentation/SplunkCloud/6.6.0/AdvancedDev/CustomVizTutorial>
- ▶ Use NPM
 - Credit 3rd party software
- ▶ Learn Webpack loaders
- ▶ Gain inspiration
 - D3
 - Leaflet
 - Dygraphs
 - Ember Charts

Custom Image Map Visualization

- ▶ Plot markers on any custom image using x,y coordinates

The screenshot shows the Splunkbase interface for the 'Custom Image Map Visualization' app. At the top, the Splunkbase logo is on the left, and a search bar and navigation links ('My Account', 'My Splunk', 'Support & Services') are on the right. The main content area features a large image of the app's visualization, which is a floor plan with various colored markers and lines. Below the image, there are navigation arrows and a rating section showing 0 stars. A blue bar contains 'ADMINISTRATOR TOOLS' with links for 'Manage App', 'View App', and 'View Analytics'. The 'Overview' tab is selected, displaying a description: 'Custom image map visualization to plot x,y coordinates in pixels on a flat image using Leaflet Maps.' Below this is a paragraph: 'Have you ever wanted to map people in a building or retail space and trace their path across the store? Are you looking to plot gaming data on a custom game map? If you have an image, data and can convert or specify coordinates in x,y, use this custom visualization!'. To the right, there are statistics for '1 Install' and '5 Downloads', along with 'Download' and 'Rate this App' buttons. The 'Release Notes' section shows 'Version 1.0.1' dated 'April 12, 2017' with a note: '- Added feature to set background color of container for images that don't fill the entire panel.' At the bottom right, the version is listed as '1.0.1' and the developer is 'Scott Haskell'.

splunkbase

Search App by keyword, technology...

My Account > My Splunk > Support & Services

Custom Image Map Visualization

0 rating

ADMINISTRATOR TOOLS: Manage App | View App | View Analytics

Overview Details

Custom image map visualization to plot x,y coordinates in pixels on a flat image using Leaflet Maps.

Have you ever wanted to map people in a building or retail space and trace their path across the store? Are you looking to plot gaming data on a custom game map? If you have an image, data and can convert or specify coordinates in x,y, use this custom visualization!

Release Notes

Version 1.0.1 April 12, 2017

- Added feature to set background color of container for images that don't fill the entire panel.

1 Install 5 Downloads

Download Rate this App

VERSION 1.0.1

BUILT BY Scott Haskell

Clustered Single Value Map Visualization

The screenshot shows the Splunkbase interface for the 'Clustered Single Value Map Visualization' app. The top navigation bar includes the Splunkbase logo, a search bar, and links for 'My Account' and 'Support & Services'. The main content area features a large map visualization with numerous colored points clustered together. Below the map, there are navigation arrows and a rating of 5 stars with 14 ratings. The app title 'Clustered Single Value Map Visualization' is prominently displayed. Below the title, there are tabs for 'Overview' and 'Details'. The 'Overview' tab is active, showing a description of the app's capabilities, such as plotting massive amounts of single value lat/lons with clustering and drill-down to individual markers. To the right of the description, there are statistics for '609 Installs' and '3,845 Downloads', along with a 'LOGIN TO DOWNLOAD' button. Below the description, there is a 'Release Notes' section for 'Version 1.5.7' dated July 13, 2017, with two bullet points: '* Reverted event processing logic to old method due to reports of inconsistent behavior' and '* Supports version 6.4+ again'. On the right side of the page, there are sections for 'VERSION' (1.5.7), 'BUILT BY' (Splunk Works), 'CONTRIBUTORS' (Scott Haskell), and 'CATEGORY & CONTENTS' (Utilities).

splunkbase

Search App by keyword, technology...

My Account Support & Services

Clustered Single Value Map Visualization

★★★★★ 14 ratings

609 Installs 3,845 Downloads

[LOGIN TO DOWNLOAD](#)

VERSION 1.5.7

BUILT BY Splunk Works

CONTRIBUTORS Scott Haskell

CATEGORY & CONTENTS Categories: Utilities

Overview Details

Have you ever wanted to plot massive amounts of single value lat/lons with clustering and drill-down to individual markers? Use this app! No geostats aggregation at all! Tested with 1.7 million individual points. Lots of configuration options including the ability to add description popups with HTML support, color and style markers, add icons, disable clustering and plot nothing but single values. Native splunk maps can't do that!

Release Notes

Version 1.5.7 July 13, 2017

- * Reverted event processing logic to old method due to reports of inconsistent behavior
- * Supports version 6.4+ again

- ▶ Map massive amounts of Individual Points With Clustering
- ▶ 600+ Active Installs
- ▶ 4,000+ Downloads

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Scott Haskell
sghaskell
Principal SE Architect @ Splunk

Splunk
SF Bay Area
shaskell@splunk.com

Organizations

Popular repositories

- kafka-splunk-consumer**
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Python ★ 10 🍴 2
- Clustering-Single-Value-Map-Visualization**
Splunk Custom Visualization
JavaScript ★ 6 🍴 3
- splunk-add-on-for-zenoss**
Splunk Add-on for Zenoss 4.x and 5.x
Python
- custom-image-map-visualization**
Image Map Visualization For Splunk
JavaScript

14 contributions in the last year

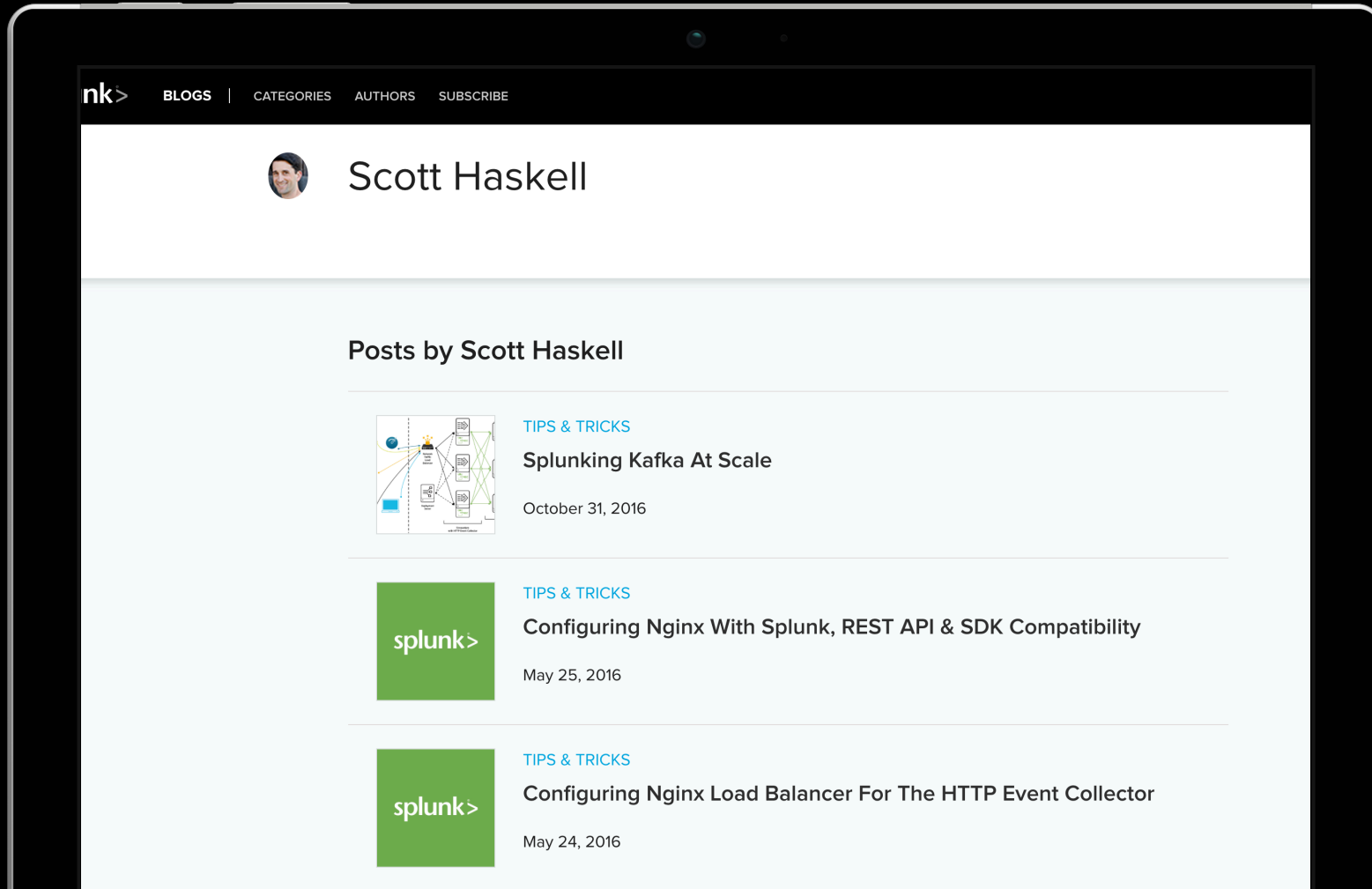
Contribution activity

July - August 2017
sghaskell has no activity yet for this period.

Created 1 repository

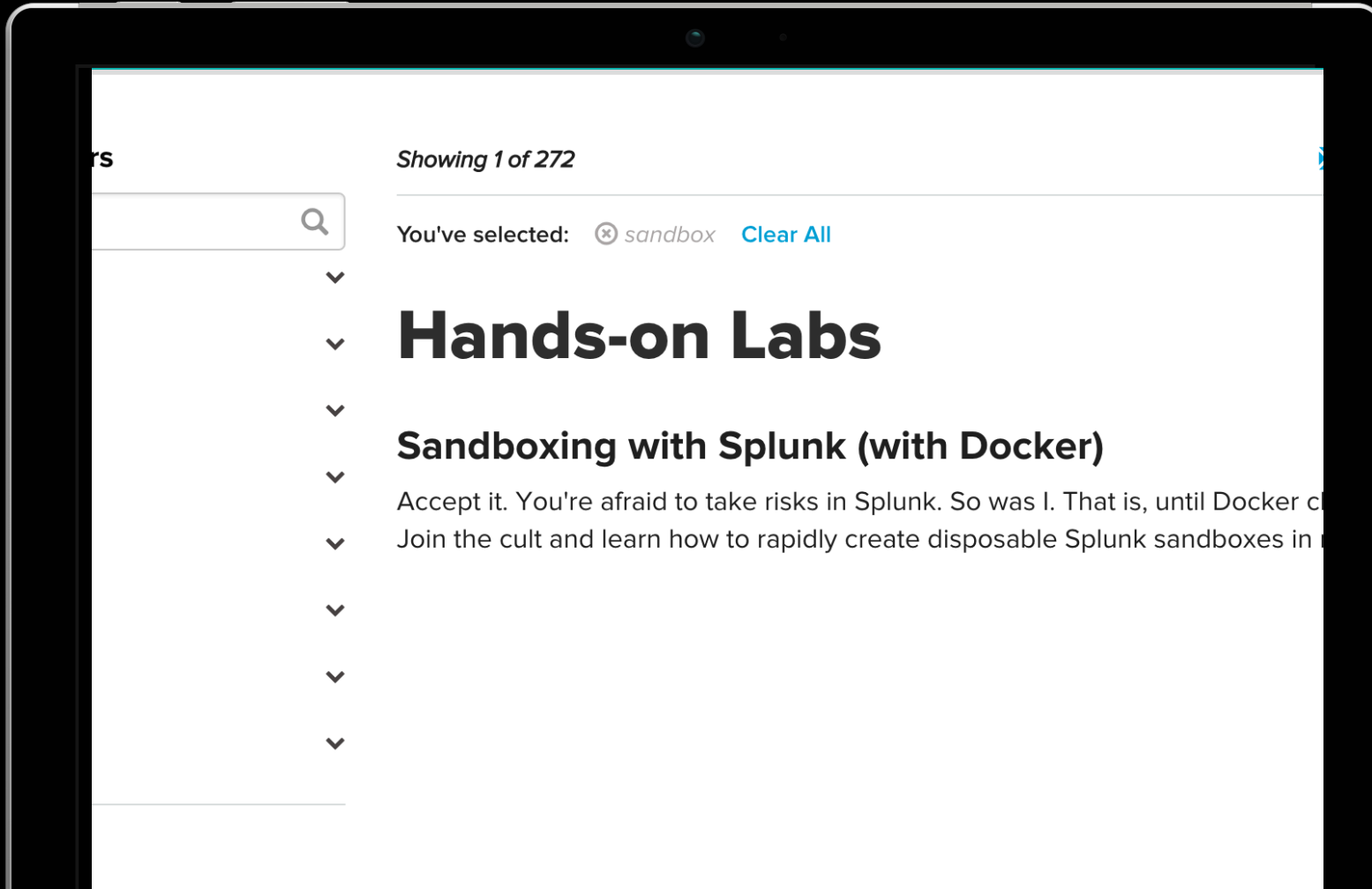
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