.conf2015

Visualizing Data from the Ground Up: Raw Data to Interactive Graphics with Splunk

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splunk>

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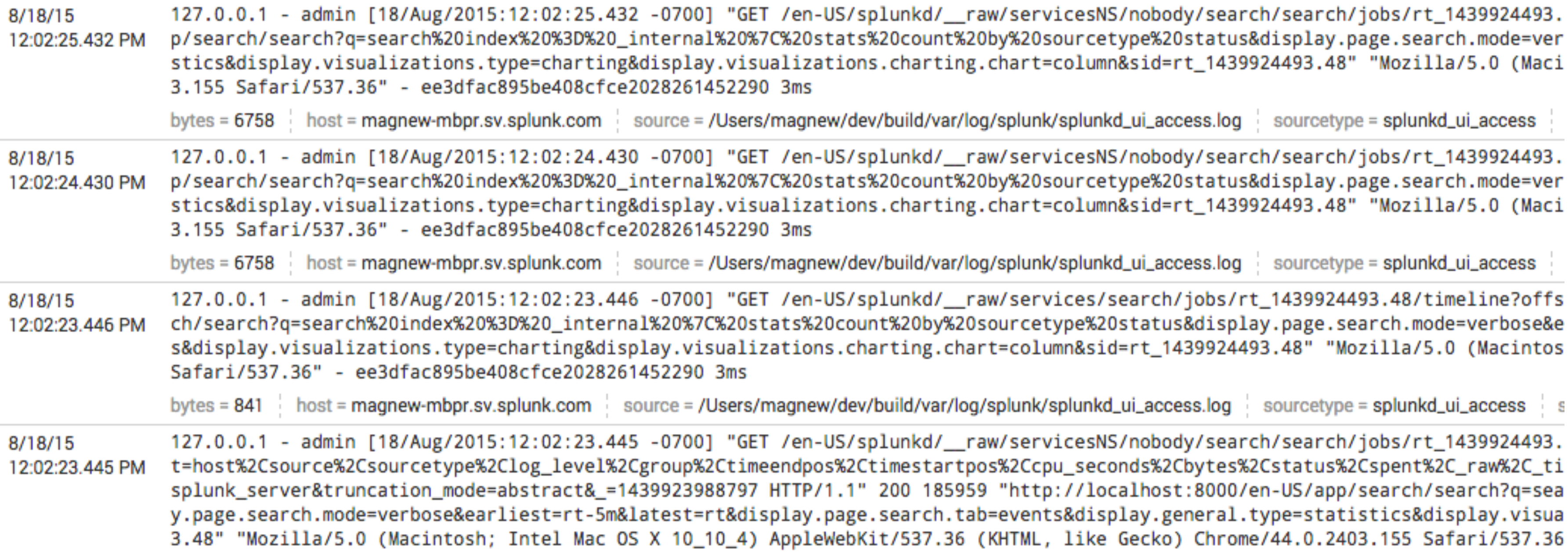
Why Visualization Matters

Splunk excels at understanding machine data



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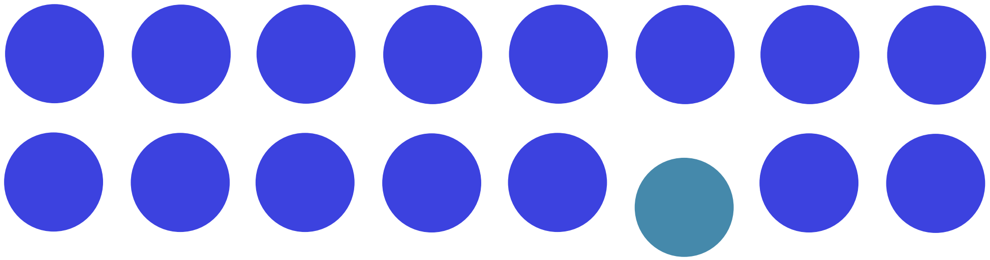
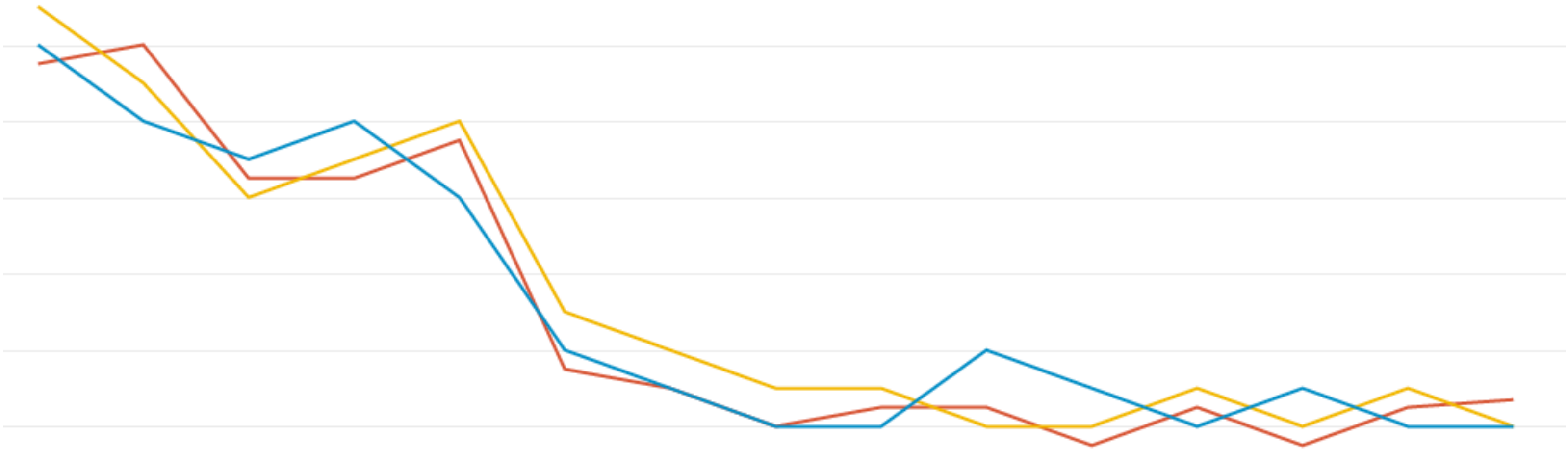
Why Visualization Matters

Humans are excellent at seeing visual patterns



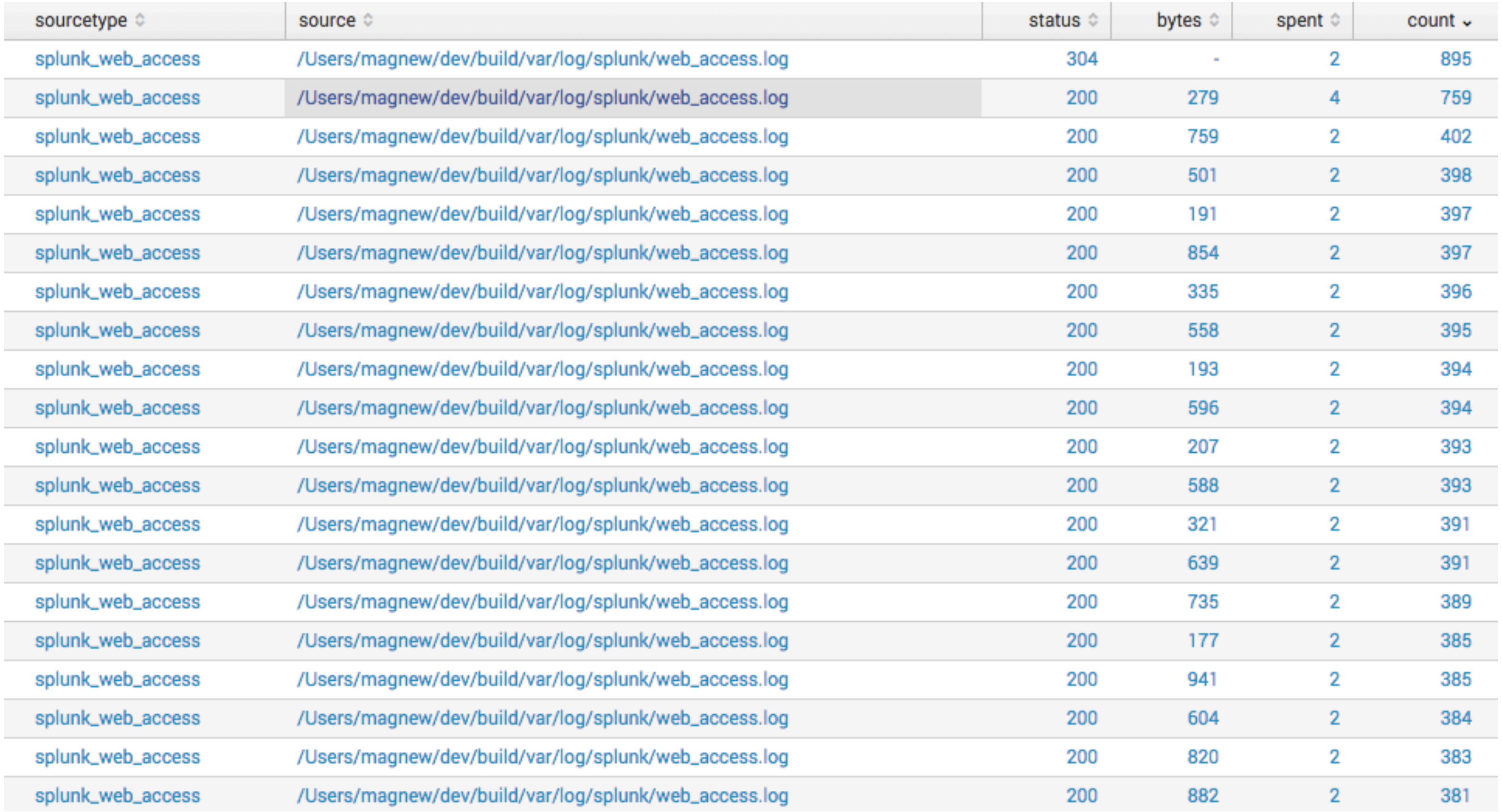
Why Visualization Matters

Visualization bridges the gap



Basic visualization

- Filter
- Format
- Sort
- Transform



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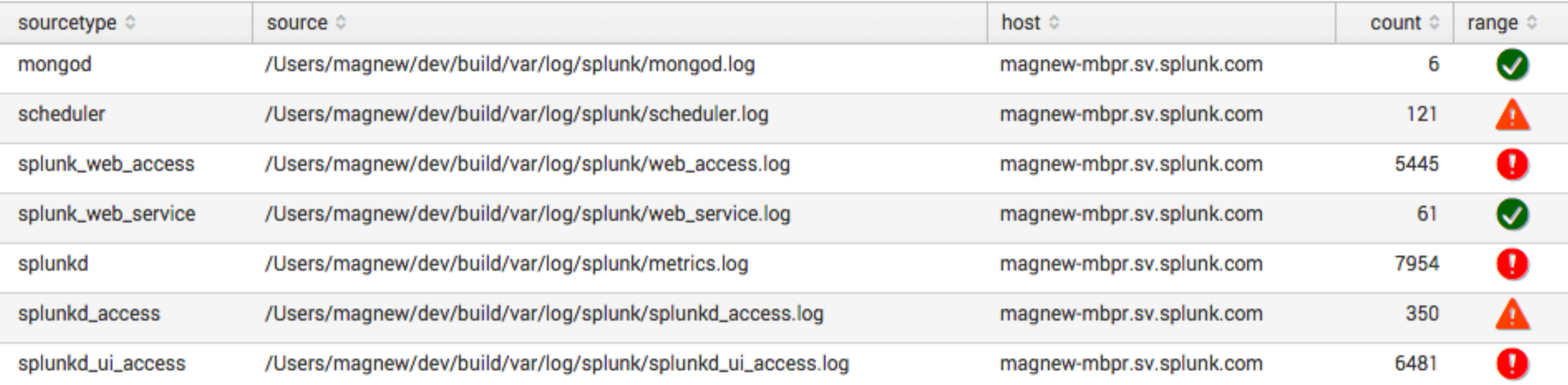
Doing Better

- Color
- Shape
- Size
- Knowledge



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splunk_web_access	/Users/magnew/dev/build/var/log/splunk/web_access.log	magnew-mbpr.sv.splunk.com	5445	❗
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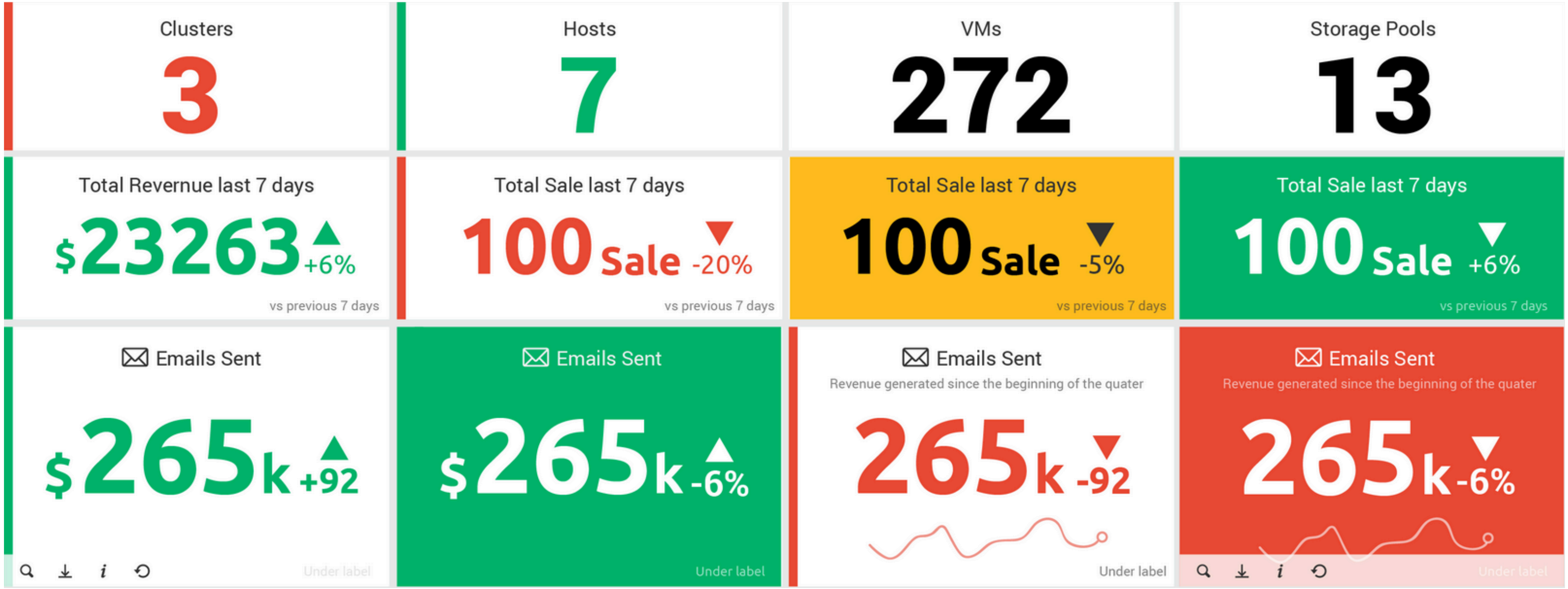
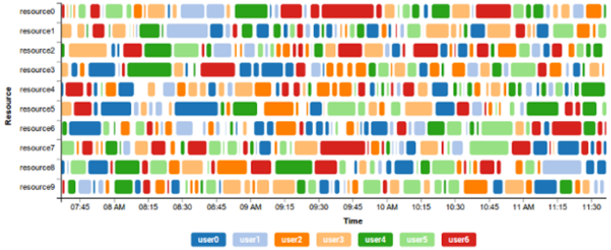
Doing Better

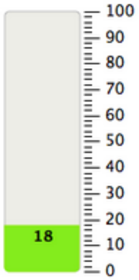
- Color
- Shape
- Size
- Knowledge



And Better

- More Knowledge
- Complexity
- Interaction





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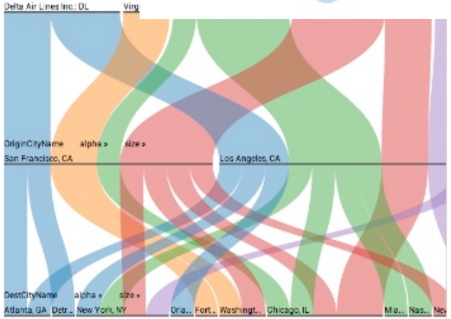

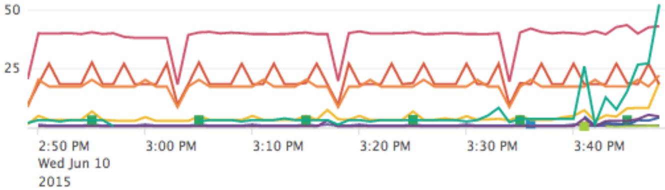

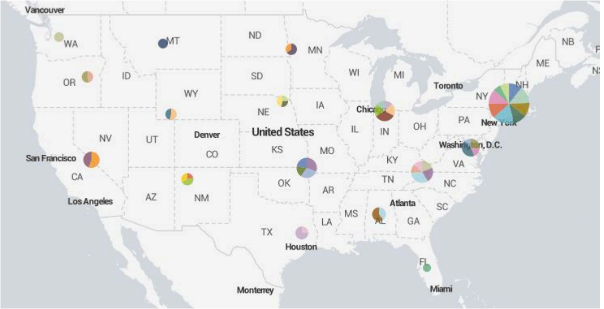

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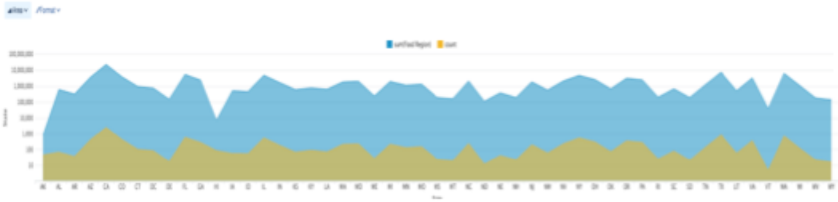
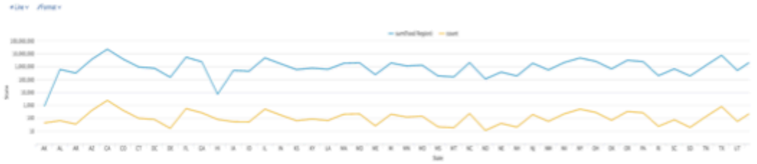
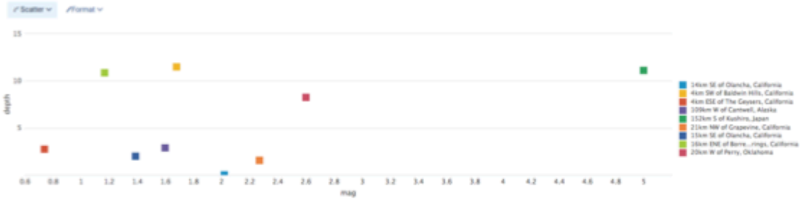


Splunk Built-in Visualizations

Axis charts: Line, Area, Column, Scatter, Bubble, Bar




Scatter
Format
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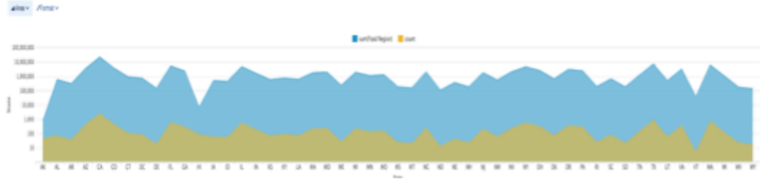
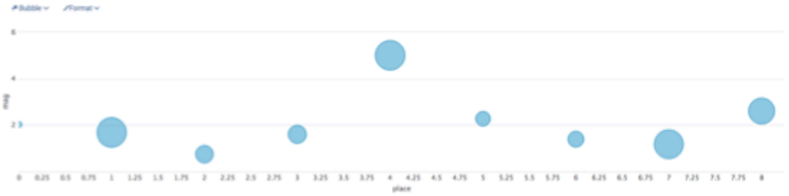
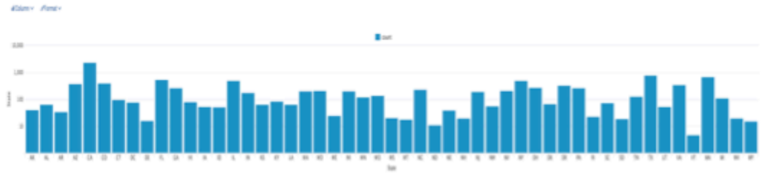
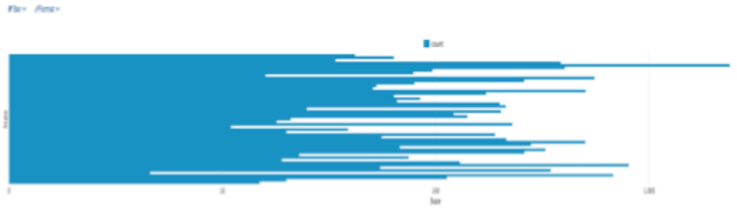
mag
14km SE of Olancha, California
4km SW of Baldwin Hills, California
4km ESE of The Geysers, California
109km W of Cantwell, Alaska
152km S of Kushiro, Japan
21km NW of Grapevine, California
15km SE of Olancha, California
16km ENE of Borre...rings, California
20km W of Perry, Oklahoma



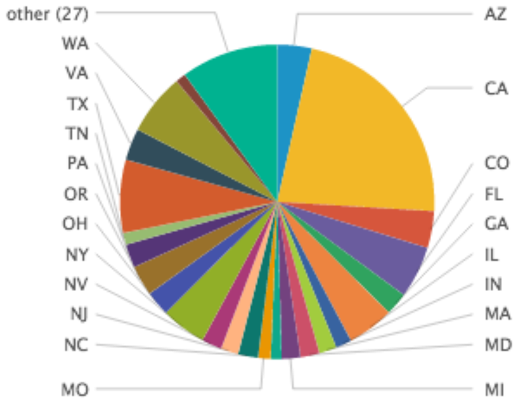


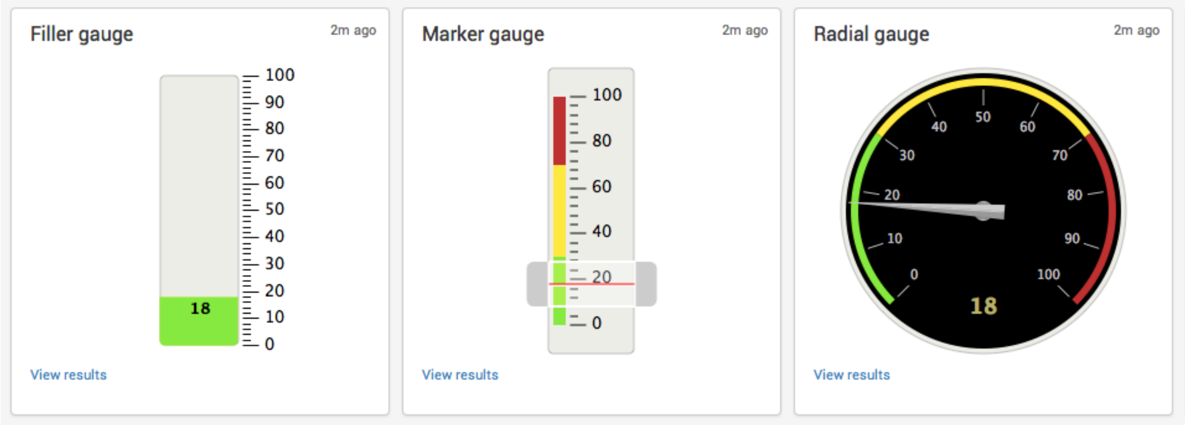




Splunk Built-in Visualizations

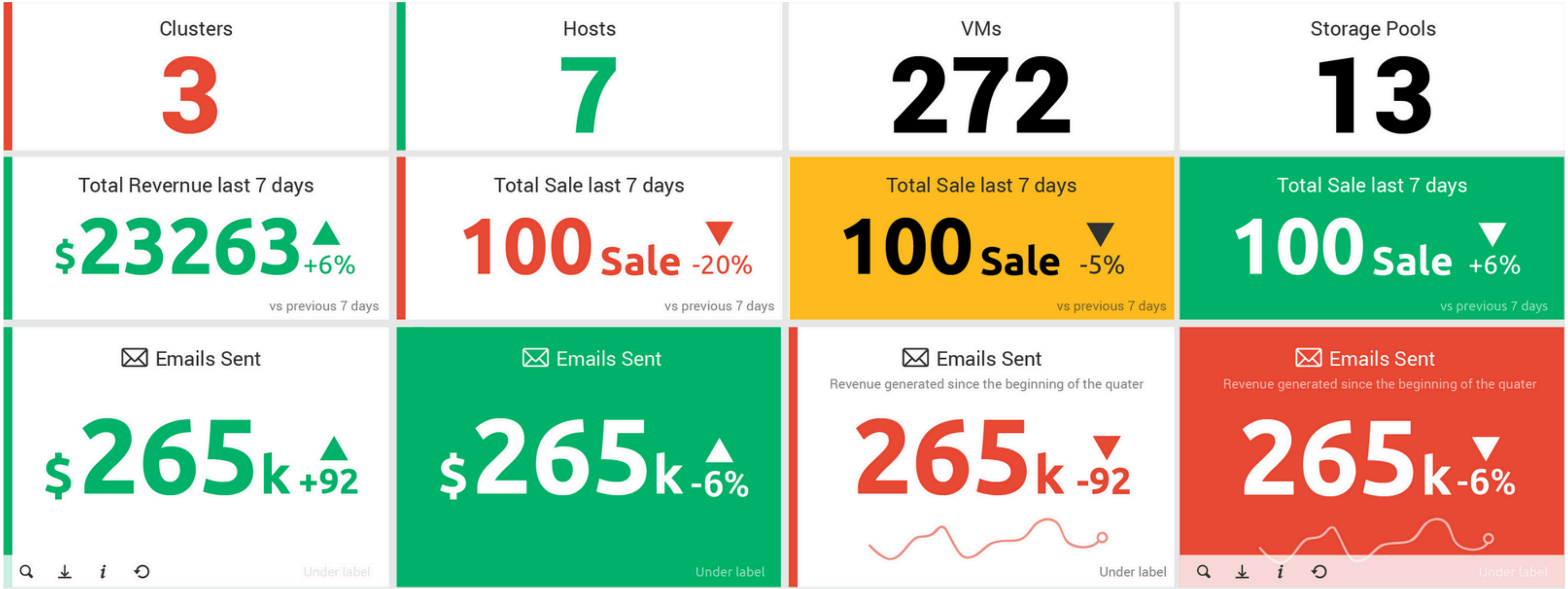
Counting: Pie, Filler Gauge, Marker Gauge, Radial Gauge, Single Value (now counting++)





Splunk Built-in Visualizations

Counting: Pie, Filler Gauge, Marker Gauge, Radial Gauge, Single Value (now counting++)



Clusters 3

Hosts 7

VMs 272

Storage Pools 13

Total Revenue last 7 days $23263 ▲ +6% vs previous 7 days

Total Sale last 7 days 100 Sale ▼ -20% vs previous 7 days

Total Sale last 7 days 100 Sale ▼ -5% vs previous 7 days

Total Sale last 7 days 100 Sale ▼ +6% vs previous 7 days

✉ Emails Sent $265k ▲ +92 Under label

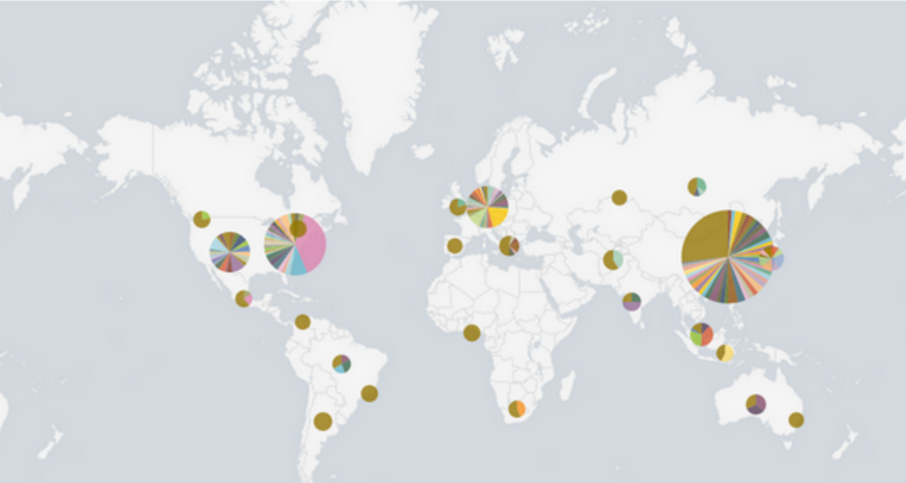
✉ Emails Sent $265k ▲ -6% Under label

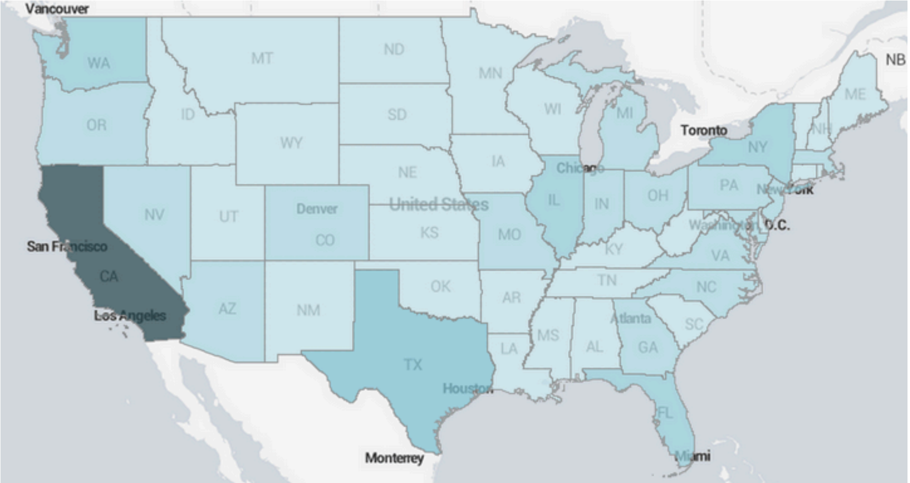
✉ Emails Sent Revenue generated since the beginning of the quater 265k ▼ -92 Under label

✉ Emails Sent Revenue generated since the beginning of the quater 265k ▼ -6% Under label

Splunk Built-in Visualizations

Maps: Marker Map, Choropleth Map

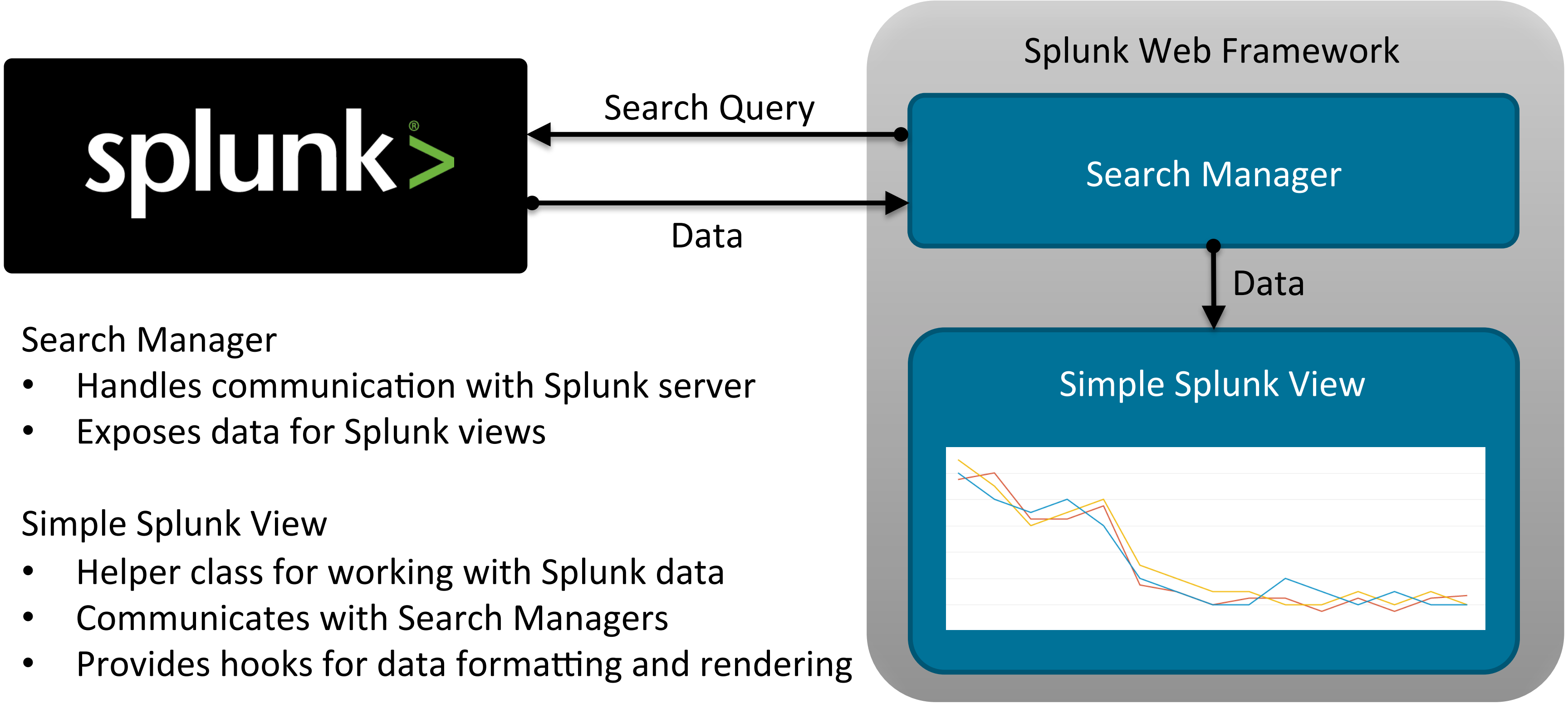




Extending Splunk's Capabilities

- Splunk Web Framework and JavaScript
- Splunk Dashboard Extensions, Standalone Views, or Standalone Splunk apps
- All share the same basic concepts

Overview



Search Manager

- Handles communication with Splunk server
- Exposes data for Splunk views

Simple Splunk View

- Helper class for working with Splunk data
- Communicates with Search Managers
- Provides hooks for data formatting and rendering

Coding Demo

Concepts Review

- Loading JavaScript
- Search Managers
- SimpleSplunkView
- Data Formatting
- Rendering
- Token Binding

Learning More

Other Sessions...

- Accelerating your Solution Development with Splunk Reference Apps – Grigori Melnik
- Enhancing Dashboards with JavaScript! – Satoshi Kawasaki
- Advanced Interactions Using SimpleXML – Mathew Elting and Siegfried Puchbauer

Learning More

- Developer guide: http://dev.splunk.com/view/dev-guide/SP-CAAAE2R
- Developer reference app: https://splunkbase.splunk.com/app/1934/
- Dashboard examples app: https://splunkbase.splunk.com/app/1603/
- Splunk Web Framework reference: http://dev.splunk.com/webframework
- Splunk Web Framework Toolkit: https://splunkbase.splunk.com/app/1613/

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THANK YOU

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