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4rookies

Dashboard Studio

X #Splunk4Rookies



splunk>
a CISCO company

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#whoami

- Randy Holloway
- rholloway@splunk.com

Based in Houston, TX

- 25+ Years IT and Security Experience
- 16+ Years SIEM Experience
- Came Over from ArcSight
- Enjoys Michigan Football and Baseball



Please introduce yourself!

- Name
- Company/organisation
- Role
- Are you currently using Splunk?
- What are you interested in using Splunk for?



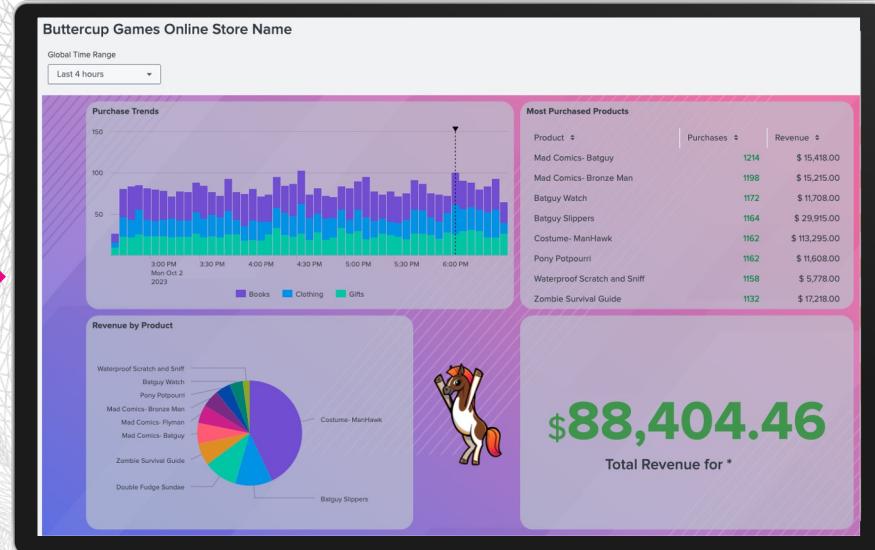
Workshop Agenda

- What is Dashboard Studio?
- Creating a Dashboard
- Add a Table
- Add Visualizations
- Create a Chain Search
- Add an Input
- Polish Up the Dashboard

Objective

Transform data to Storytelling!

```
89.167.143.33 -- [01/Nov/2016 20:48:22:143] "GET /category.screen?category_id=FLOWERS&SESSIONID=50551FF4A0FF33 H  
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/2.1 ( http://www.googlebot.com/bot.html )" 403  
184.235.205.19 -- [01/Nov/2016 20:48:24:159] "GET /cart/do?action=changequantity&item_id=EST-7&product_id=F1-FW-02 H  
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180.253.37.97 -- [01/Nov/2016 20:48:24:198] "GET /cart/do?action=purchase&item_id=EST-27&product_id=PN-01&SESS  
IONID=50551FF4A0FF33 H HTTP 1.1" 200 1429 "http://www.myflowershop.com/category.screen?category_id=FLOWERS" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 301  
02.1.179.135 -- [01/Nov/2016 20:48:25:142] "GET /category.screen?category_id=EDDY&SESSIONID=50551FF4A0FF33 H  
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NT; 5.1; en-US) AppleWebKit/525.20.1 (KHTML, like Gecko) Chrome/1.0.247.109 Safari/525.20" 301  
77.101.68.49 -- [01/Nov/2016 20:48:25:180] "GET /product.screen?product_id=FL-DLH-02&SESSIONID=50551FF4A0FF6 HTTP  
1.1" 200 3994 "http://www.myflowershop.com/product.screen?product_id=FL-DLH-02" "Opera/9.01 (Windows NT 5.1; U; e  
n-us) 389  
185.134.14.100 -- [01/Nov/2016 20:48:26:174] "GET /product.screen?product_id=AV-CB-01&SESSIONID=50551FF4A0FF33 H  
HTTP 1.1" 503 2474 "http://www.myflowershop.com/product.screen?product_id=AV-CB-01" "Mozilla/4.0 (compatible; MSIE  
6.0; Windows NT 5.1)" 297  
185.134.14.100 -- [01/Nov/2016 20:48:28:158] "GET /category.screen?category_id=FTS&SESSIONID=50551FF4A0FF33 H  
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Windows NT 6.0; U; en-us" 681  
131.178.233.243 -- [01/Nov/2016 20:48:30:128] "POST /cart/do?action=purchase&item_id=EST-18&product_id=AV-CB-01&SESS  
IONID=50551FF4A0FF33 H HTTP 1.1" 200 3771 "http://www.myflowershop.com/product.screen?product_id=PN-01" "Google  
bot/2.1 ( http://www.googlebot.com/bot.html )" 301  
94.229.0.21 -- [01/Nov/2016 20:48:31:177] "GET /category.screen?category_id=800-QUEST&SESSIONID=50551FF4A0FF10 H  
HTTP 1.1" 200 3771 "http://www.myflowershop.com/category.screen?category_id=800-QUEST" "Mozilla/5.0 (Windows; U; Min  
t OS; zh-CN) AppleWebKit/525.20.1 (KHTML, like Gecko) Chrome/1.0.247.109 Safari/525.20" 301  
12.130.66.5 -- [01/Nov/2016 20:48:32:150] "GET /product.screen?product_id=AV-CB-01&SESSIONID=50551FF4A0FF6 HTTP  
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IONID=50551FF4A0FF7 HTTP 1.1" 200 931 "http://www.myflowershop.com/cart/do?screen?product_id=AV-CB-01" "Googlebo  
t/2.1 ( http://www.googlebot.com/bot.html )" 403  
180.253.37.97 -- [01/Nov/2016 20:48:33:178] "GET /product.screen?product_id=AV-SF-02&SESSIONID=50551FF4A0FF10 H  
HTTP 1.1" 200 3491 "http://www.myflowershop.com/cart/do?action=adddtocart&item_id=EST-18&product_id=AV-CB-02" "Googleb  
ot/2.1 ( http://www.googlebot.com/bot.html )" 778  
131.178.233.243 -- [01/Nov/2016 20:48:35:111] "POST /product.screen?product_id=AV-SF-02&SESSIONID=50551FF4A0FF10 H  
HTTP 1.1" 200 1023 "http://www.myflowershop.com/product.screen?product_id=AV-SF-02" "Mozilla/5.0 (Macintosh; U; I  
ntel Mac OS X 10.6.3; en-US) AppleWebKit/534.4 (KHTML, like Gecko) Chrome/5.0.375.38 Safari/533.4" 938  
131.178.233.243 -- [01/Nov/2016 20:48:35:172] "GET /product.screen?product_id=DSH-05H-02&SESSIONID=50551FF4A0FF2 H  
HTTP 1.1" 200 1452 "http://www.myflowershop.com/category.screen?product_id=EST-15&product_id=DSH-05H-01" "Mozilla/4.0 (compatible; MS  
IE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 403  
141.146.8.66 -- [01/Nov/2016 20:48:37:141] "GET /product.screen?product_id=K9-80-01&SESSIONID=501058FF9ADFF8 H  
HTTP 1.1" 200 1428 "http://www.myflowershop.com/category.screen?category_id=TEDDY" "Mozilla/4.0 (compatible; MSIE 6.  
0; Windows NT 5.1)" 298
```

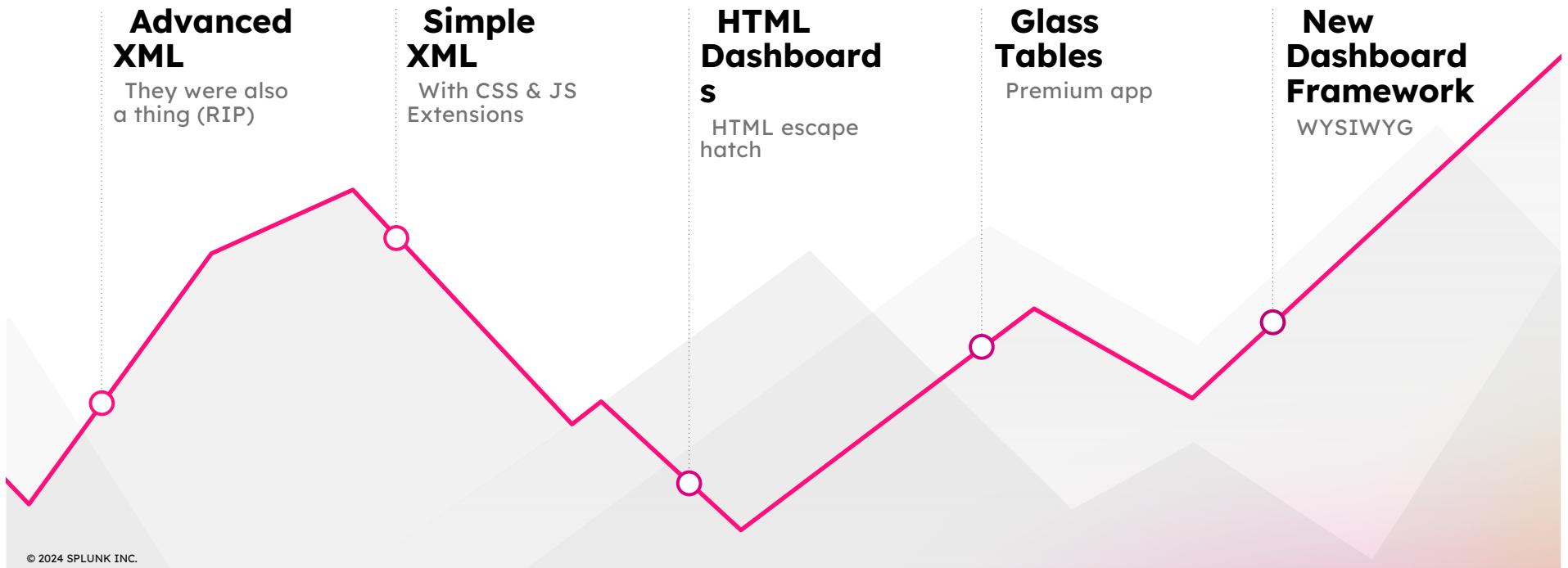


Our World Never Stops Evolving.

New Ideas. New Devices. New Processes.

splunk > turn data into doing®

The Dashboard Journey



Current Dashboarding Options

Simple XML (CSS & JS Extension)

Cascaded rows and panels layout

Styling and control through CSS & JS

Custom visualizations

HTML

One-way trip - lose out on UI editing

Some Simple XML features will not work

HTML, JS/CSS and SplunkJS-based code

Glass Tables

Drag/drop, resize, copy/paste

UI-based editing, no source code

No chaining or custom visualization

New Dashboard Framework

What You See Is What You Get

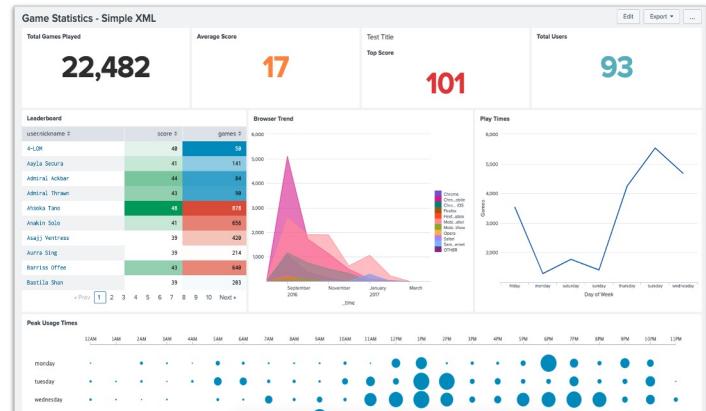
JSON-based code

Used in Dashboard Studio, ITSI and ES

Dashboards Before

Simple XML (now Classic dashboards)

- Easy to deploy a wide variety of data viz, but hard to craft a story
 - Flexible and extensible, but time consuming to build something truly beautiful (custom JS, CSS)
 - PDF export loses look/feel of dashboard



Glass Tables

- Easy to craft a story with absolute layout and text
 - Easy for non-technical users to start, but limited viz and interactivity
 - No export





Dashboards Now

- Create **powerful, story-telling** dashboards with advanced visualization tools
- Efficiently build dashboards with a **streamlined editing experience** and fully **customizable formats**
- With **no custom code required**, empower **more dashboard creators and users**

splunk>

Today's Scenario

Your Company

- Buttercup Enterprises is a large national online retailer operating in the US, which sells a variety of books, clothing and other gifts through its online webstore
- Buttercup Enterprises invested in Splunk for security and now want to start making use of it for Sales Analytics

Your Role

- Your responsibility is to provide dashboards to users throughout the company around Sales Analytics
- You gather data and statistics, and report on:
 - **Most Purchased Products**
 - **Revenue by Product**
 - **Purchase Trends**
 - **Total Revenue**



Workshop Time!



Access Class Material

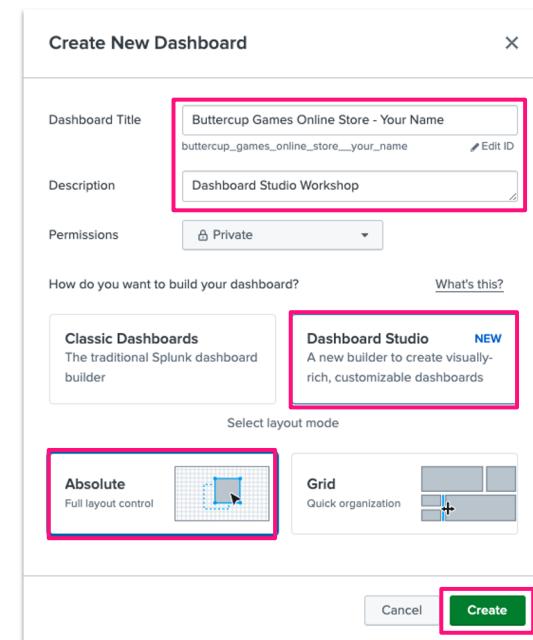
Items of Interest can be found by going to this Google Drive:

1. This link will have your Lab Guide, Splunk Instance Details and more:
<https://tinyurl.com/splunkworkshops>
2. Follow the guidance of your instructor on accessing / noting which instance you will use for this workshop, along with getting access to the slides and lab guide.

Lab 1 - Create a Dashboard

Tell a story about the revenue and purchasing trends of Buttercup Games

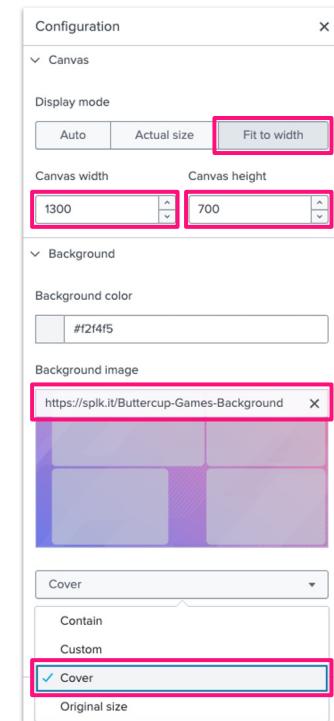
1. From the **Dashboards** tab select **Create New Dashboard**.
2. Title your dashboard **Buttercup Games Online Store <your name>** and add a description (optional).
3. Select the **Dashboard Studio** option to build your dashboard.
4. Select the **Absolute** layout.
5. Select **Create**.



Set Up the Dashboard Canvas

Adding a background image

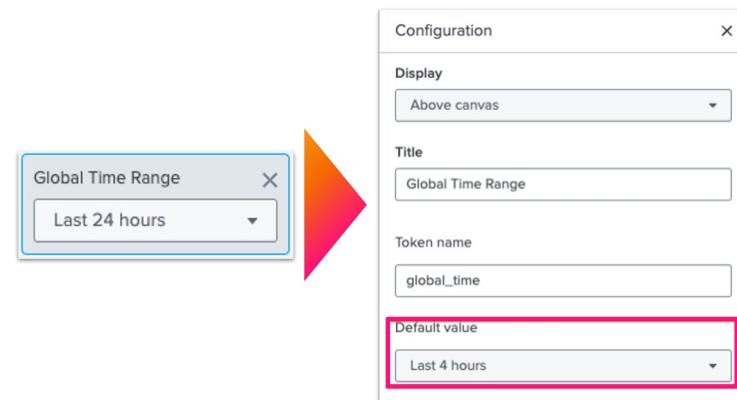
6. Using the **Configuration** panel, make sure the **Display Mode** is set to **Fit to Width**.
7. Change **Canvas Width** to 1300 and **Canvas Height** to 700.
8. In the **Background Image** section, paste the following image URL into the **Enter URL** box:
<https://splk.it/Buttercup-Games-Background>
9. Change the background image size setting from **Contain** to **Cover**.



Change the Time Range

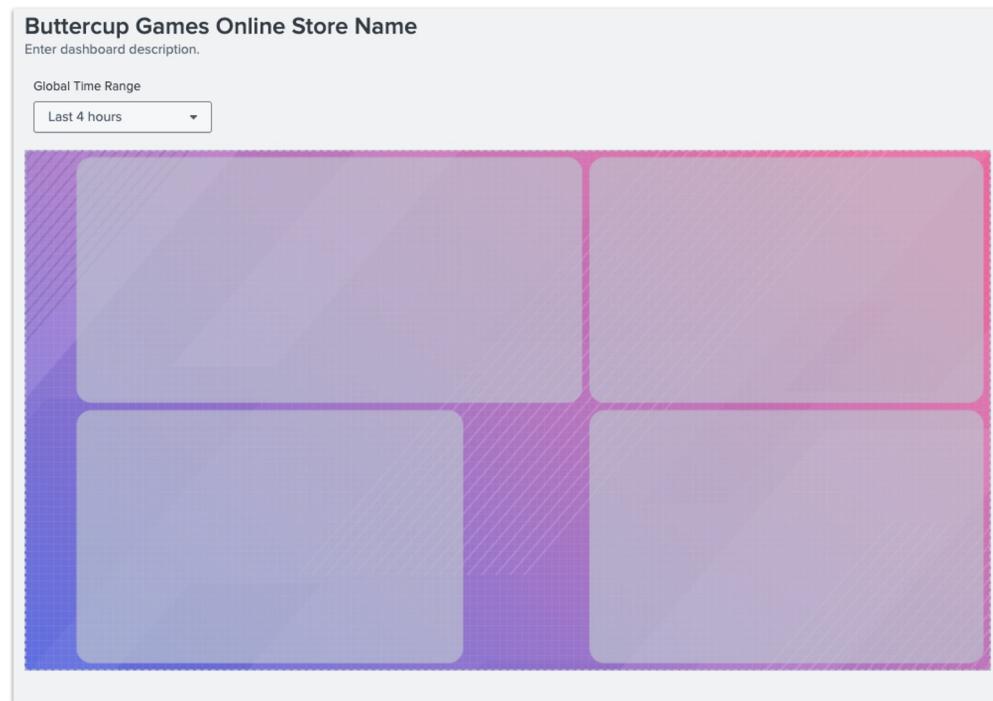
10. Change the default time range by selecting the Global Time Range input and change the default time from Last 24 hours to **Last 4 Hours**
 - This will be the time range used when you first load or refresh your dashboard

11. Save your dashboard



Set Up the Dashboard Canvas

At this point in the workshop, the Buttercup Games dashboard looks like this:



Try it Yourself



Lab 2 - Add a Table

Add the visualization and connect to data

1. Navigate to the Search tab
2. Add the following search into the Search bar and execute the search (last 4 hours):

```
index=main sourcetype=access_combined action=purchase status=200
| lookup product_codes.csv product_id
| stats count as Purchases by product_name product_price
| table product_name Purchases product_price
| eval Revenue=Purchases*product_price
| table product_name Purchases Revenue
| sort -Purchases
| rename product_name as "Product"
| head 8
```

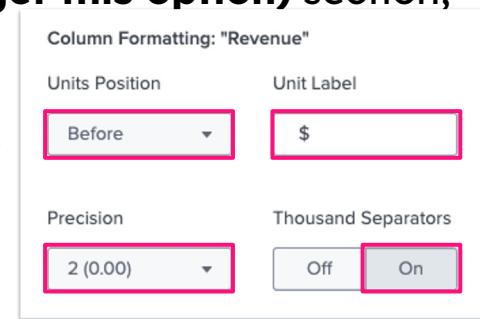
This search looks for all successful purchase events and outputs a table of the number of purchased and the associated revenue, broken down by product

1. Click on **Save As > Existing Dashboard**
2. Select the dashboard you just created and title the panel **Most Purchased Products**
3. Click on **Save to Dashboard** and then on **View Dashboard**

Configure the Table

Position the table and format the **Revenue** column

7. Select to edit the dashboard
8. In the **Configuration** panel, edit the **Most Purchased Products** search data source and set the **Time range** to **Input**. Click on **Apply & Close** to save it.
9. In the **Color and style** section, change the **Background** to **transparent**.
10. In the **Column-specific formatting (select the table to get this option)** section, follow these steps:
 - a. Select **+ Add column to format** and select the **Revenue - number** column.
 - b. Select the edit icon ().
 - c. Change the **Units Position** option to **Before** and for the **Unit Label** enter a dollar symbol (\$).
 - d. Increase the **Precision** value to “**2 (0.00)**” and set **Thousand Separators** to **On**.



Configure the Table

Format the Purchases column

9. (continued from previous slide) In the **Column-specific formatting** section, follow these steps:

- e. Select **+ Add column to format** again, but this time choose the **Purchases - number** column.
- f. Click on the edit icon ().
- g. Change the **Dynamic Coloring** option to **Text**.
- h. Select a color palette.

Note: For the best contrast, choose Dark Colors if you're using the Light theme and choose Light Colors if you're using the Dark theme (i.e. "dark mode").

- e. Edit the color range values as follows:

240 and greater

230 to 240

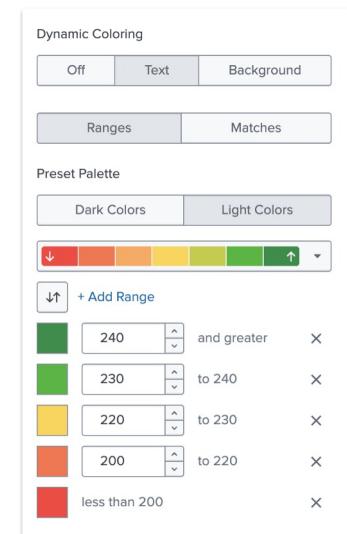
220 to 230

200 to 220

Less than 200

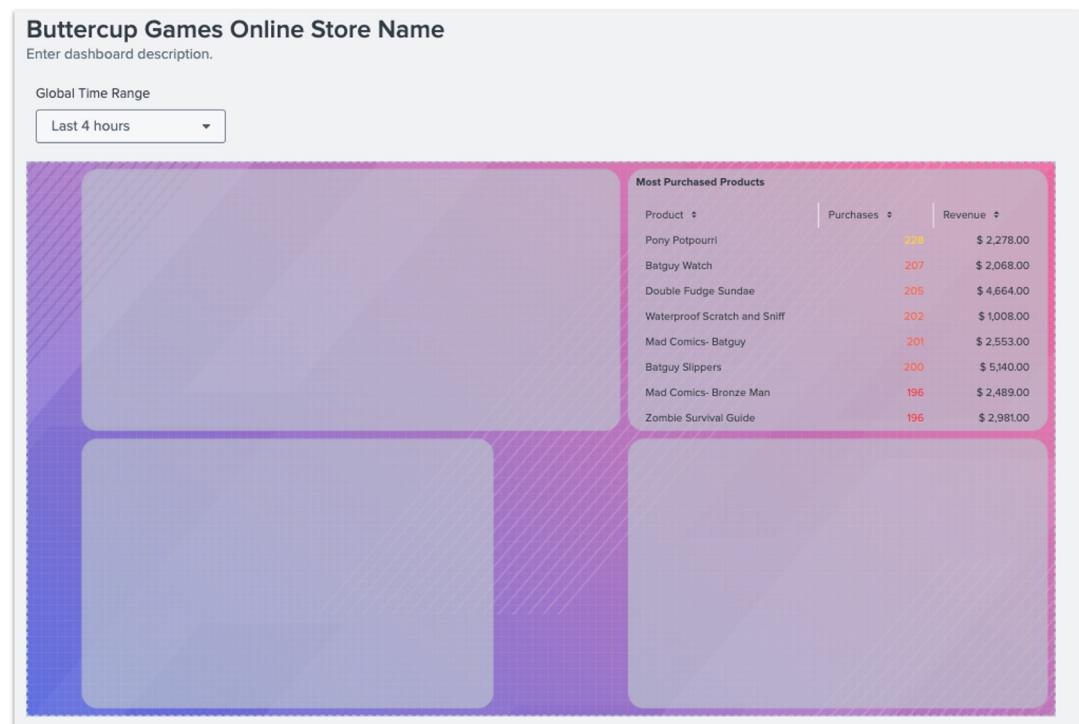
10. Move and resize your table to center it in the top right panel

11. Make sure your background is set to transparent



Configure the Table

At this point in the workshop,
the Buttercup Games
dashboard looks like this
(note: If your product text is
white and you want black,
change your overall
dashboard view from dark to
light):



Try it Yourself



Lab 3 – Add a Pie Chart Visualization

Add the visualization and connect to data

1. Select the add chart icon () in the editing toolbar, and then select **Pie**.
2. In the **Select data source** panel, click on **+ Create Search** and add your following search into the **SPL query** box:

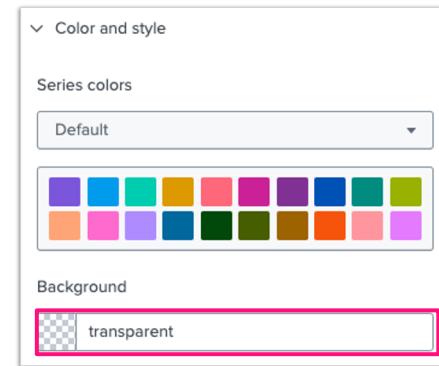
```
index=main sourcetype=access_combined action=purchase status=200
| lookup product_codes.csv product_id
| stats count values(product_price) as Price by product_name product_id
| table product_name product_id count Price
| eval revenue=count*Price
| fields product_name revenue
| rename product_name as "Product" revenue as "Revenue"
| sort -Revenue
```

1. For the **Data source name** put ‘**Revenue by Product search**’
2. Set the **Time range to Input**
3. Select **Apply & Close**.
4. Title your pie chart **Revenue by Product** and leave the description box empty.

Configure the Pie Chart Visualization

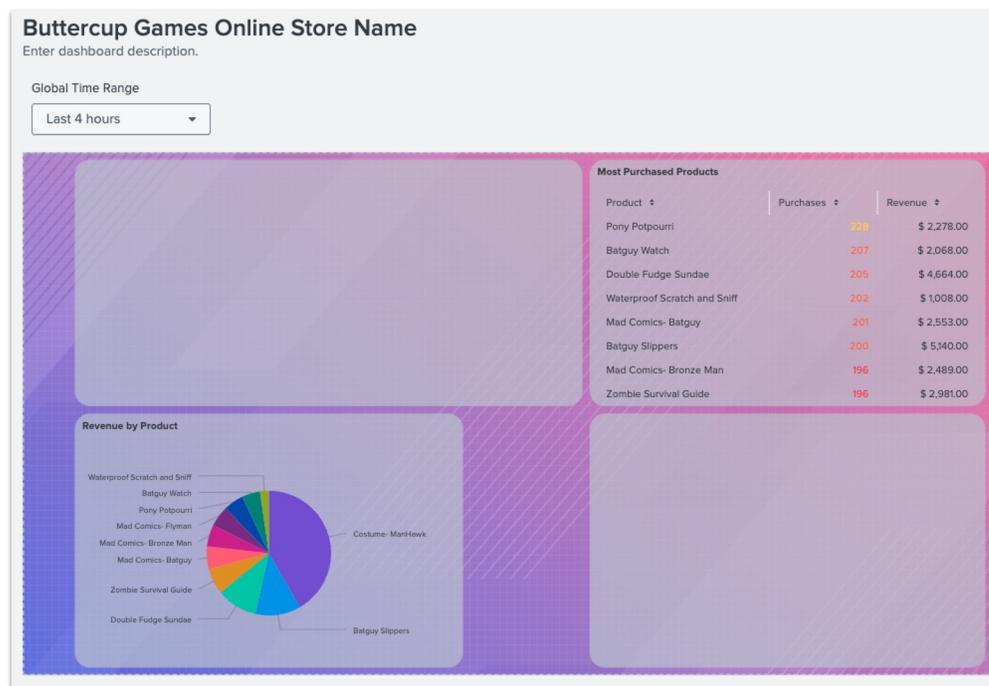
Styling and labeling

7. In the **Color and style** section of the **Configuration** panel, change the Background to be **transparent**
8. Move and resize your pie chart to center it on the bottom left gray rectangle.



Configure the Pie Chart Visualization

At this point in the workshop, the Buttercup Games dashboard looks like this:



Add a Column Chart

Add the visualization and connect to data

9. Select the add chart icon () in the editing toolbar, and then select **Column**.
10. Create a search as you did previously and paste the following into the **SPL** box:

```
index=main sourcetype=access_combined action=purchase status=200  
| lookup product_codes.csv product_id  
| fields _time category clientip  
| timechart count by category
```

This search outputs a chart showing the count of successful purchases over time by product category

9. Name the data source **Purchase Trends search**
10. Set the **Time range** to **Input**
11. Check the **Access search results or metadata** box
12. Select **Apply & Close**

Configure the Column Chart

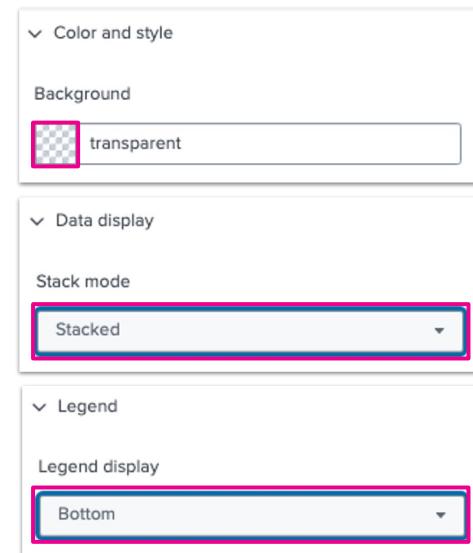
Styling

15. Title your chart **Purchase Trends** and leave the description box empty.

16. In the **Configuration** panel, follow these steps:

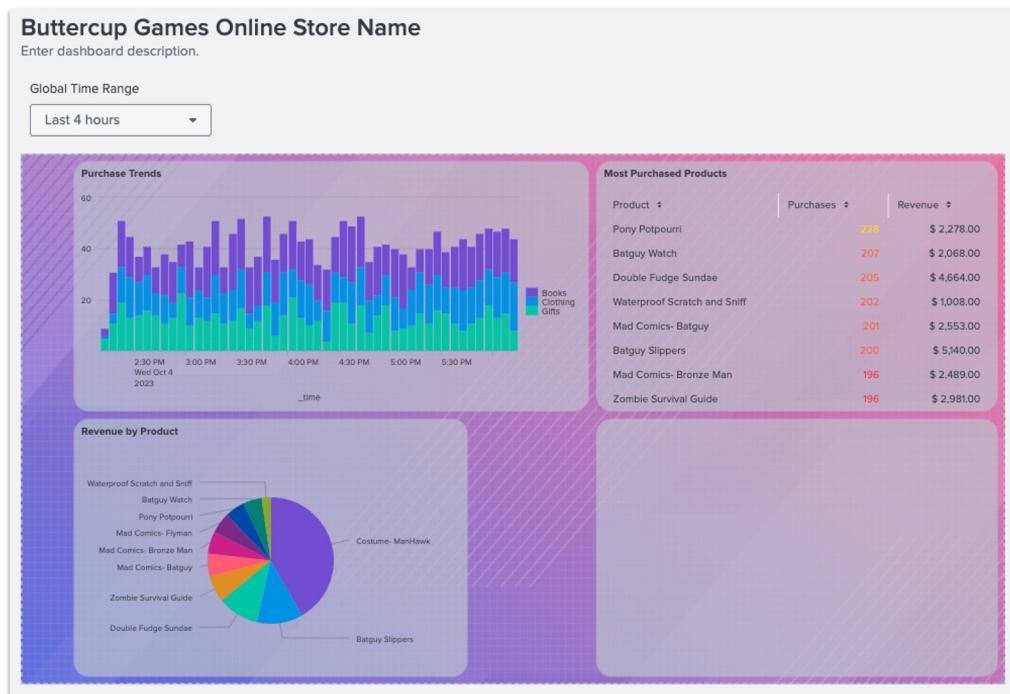
- a. In the **Color and style** section, change the **Background** to **transparent**.
- b. In the **Data display** section change the **Stack Mode** to **Stacked**.
 - The stacked option builds the area for each value vertically on top of one another instead of creating layers beginning at the x-axis.
- c. In the **Legend** section change the **Legend display** to **Bottom**.

17. Move and resize your area chart to the center of the top left gray rectangle.



Configure the Column Chart

At this point in the workshop, the Buttercup Games dashboard looks like this:



Try it Yourself



Lab 4 - Create a Chain Search

Using base and chain searches

1. In the **Data source overview** (☰) panel, select **+ Create Chain Search**.
2. Name the source **Total Revenue search** and for the **Parent Search** select **Revenue by Product search**.
3. Add your extended search. For this workshop, copy and paste the following search into the **Total Revenue search** box:

```
| stats sum(Revenue) as "Total Revenue"
```

1. Select **Apply & Close**.

The screenshot shows the 'New Data Source' configuration page. The 'Data source name' field is filled with 'Total Revenue search'. The 'Parent Search' dropdown is set to 'Revenue by Product search'. Below this, the search definition is shown in a code editor with syntax highlighting. The search command is '| stats sum(Revenue) as "Total Revenue"'. At the bottom, the 'Total Revenue search' is listed in the search history.

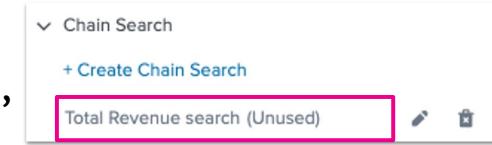
```
index=main sourcetype=access_combined action=purchase  
status=200  
| lookup product_codes.csv product_id  
| stats count values(product_price) as Price by  
product_name product_id  
| table product_name product_id count Price  
| eval revenue=count*Price  
| fields product_name revenue  
| rename product_name as "Product" revenue as  
"Revenue"  
| sort -Revenue
```

```
| stats sum(Revenue) as "Total Revenue"
```

Add a Single Value Visualization

Add the visualization and connect to data

5. Click on the add chart icon () in the editing toolbar, and then select **Single Value**.



6. In the **Select Data** panel, under the **Chain Search** section, click on **Total Revenue search (Unused)**

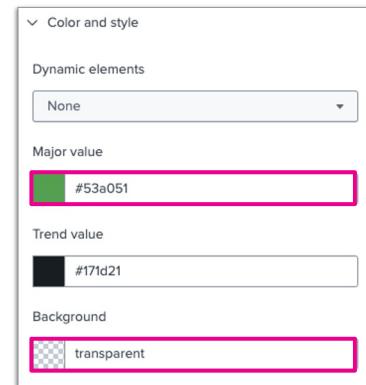
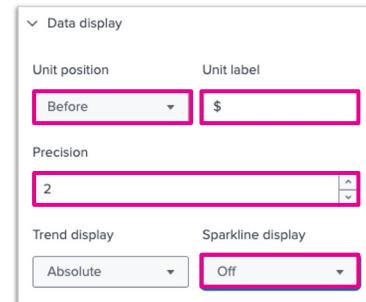


7. Under the **Data configurations** section, for the **Value** select '**Total Revenue (number)**'

Configure the Single Value Visualization

Formatting and styling

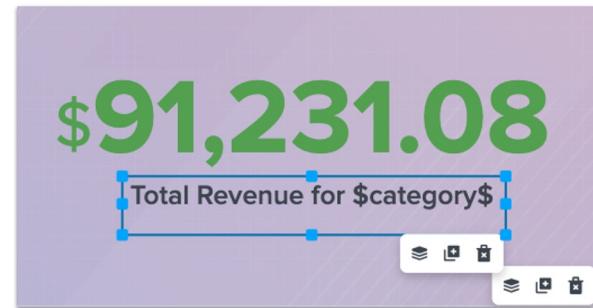
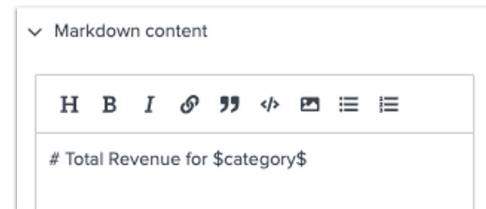
8. Under the **Data display** section, set the following:
 - a. Change the **Unit Position** to **Before**
 - b. Set the **Unit Label** to **\$**
 - c. Increase the **Precision** value to **2**
 - d. Set **Sparkline display** to **Off**
9. Under the **Color and style** section, set the following:
 - a. Change the **Major value** to **#53a051**
 - b. Change the **Background** to **transparent**.
10. Move and resize the single value so that it fits inside the bottom right corner box of your dashboard



Configure the Single Value Title

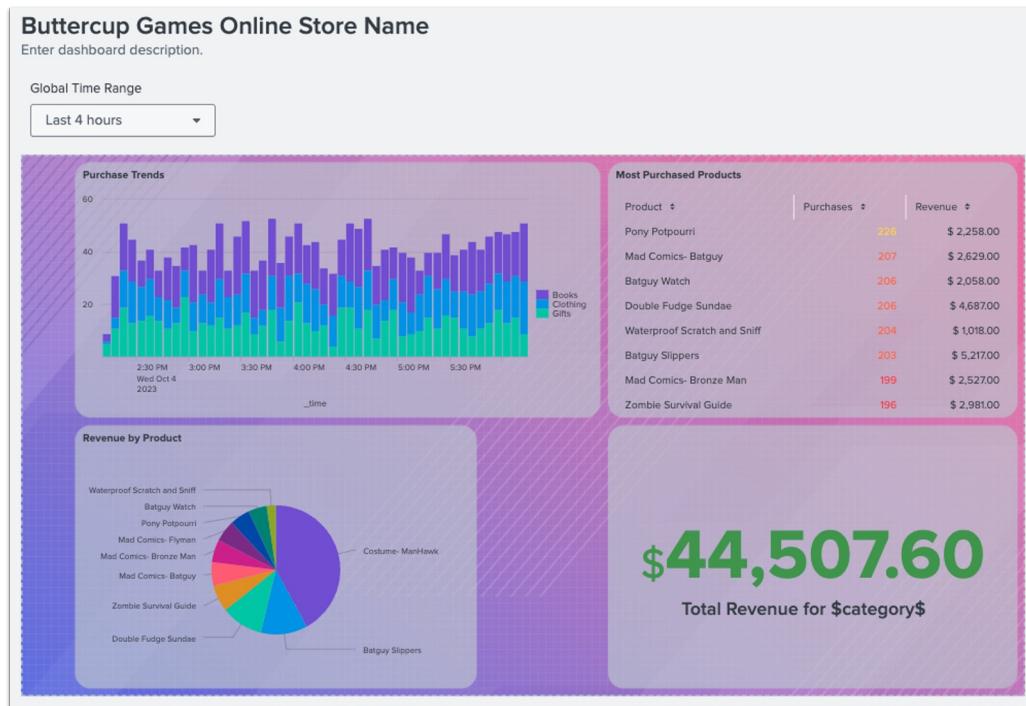
Adding a title a different way

11. In the main toolbar click the markdown (M+) button.
12. Type **# Total Revenue for \$category\$** into the **Markdown content** text box.
 - The # makes the text extra large
13. Place the title beneath the total revenue visualization.
14. Click on the **Save** button in the top right corner.



Configure Chain Search

At this point in the workshop, the Buttercup Games dashboard looks like this:



Try it Yourself



Lab 5 – Setup Annotation and Token

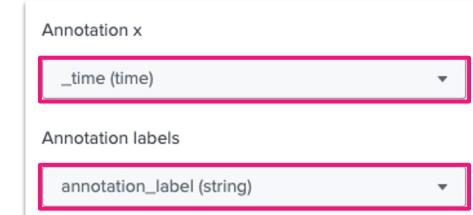
Create Book Sale Annotation

1. Click on your **Purchase Trends** chart. Under **Data sources**, click on **+ Set up annotation data source**.
2. Click on **+ Create search** and add the following into the **SPL query** box:

```
| makeresults count=1  
| streamstats count  
| eval annotation_label= case(count=1 , "Book Sale Starts")  
| eval _time=now()-count*2000
```

This search outputs a chart showing the count of successful purchases over time by product category

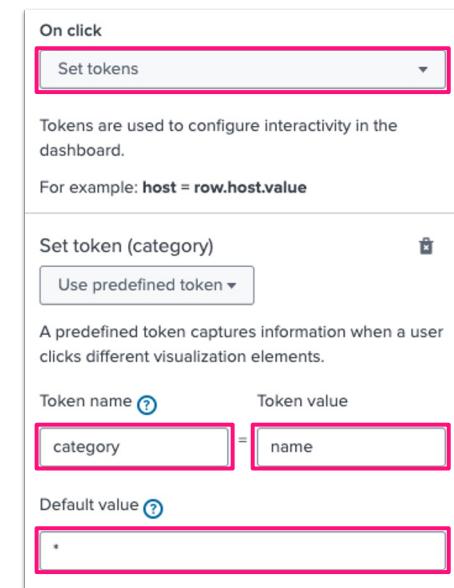
1. Set the **Time range** to **Input**
2. Name the data source **Book Sale**
3. Click on **Apply & Close**
4. With your **Purchase Trends** chart still selected, under the **Data configurations** section for **Annotation x**, select **_time (time)**.
5. For **Annotation labels** choose **annotation_label (string)**



Configure Searches

Using a token

8. In the **Configuration** panel, scroll down to **Interactions**.
9. Click on **+ Add interaction** and from the **On click** dropdown select **Set tokens**
10. Set the following:
 - a. Set the **Token name** to **category**
 - b. Set the **Token value** to **name**
 - c. Set the **Default value** to *
11. Click on **Apply**



Configure Searches

Using a token

12. Click on the **Data source overview** icon (cilostack) and open the **Most Purchased Products search** search with the edit icon.

13. Add your input token to the search by copying and pasting the following SPL after the | `lookup...` line:

```
| search category=$category$
```

14. Click on **Apply & Close**.

15. Repeat steps 12–14 for **Revenue by Product search**

16. Save your dashboard and click on **View**

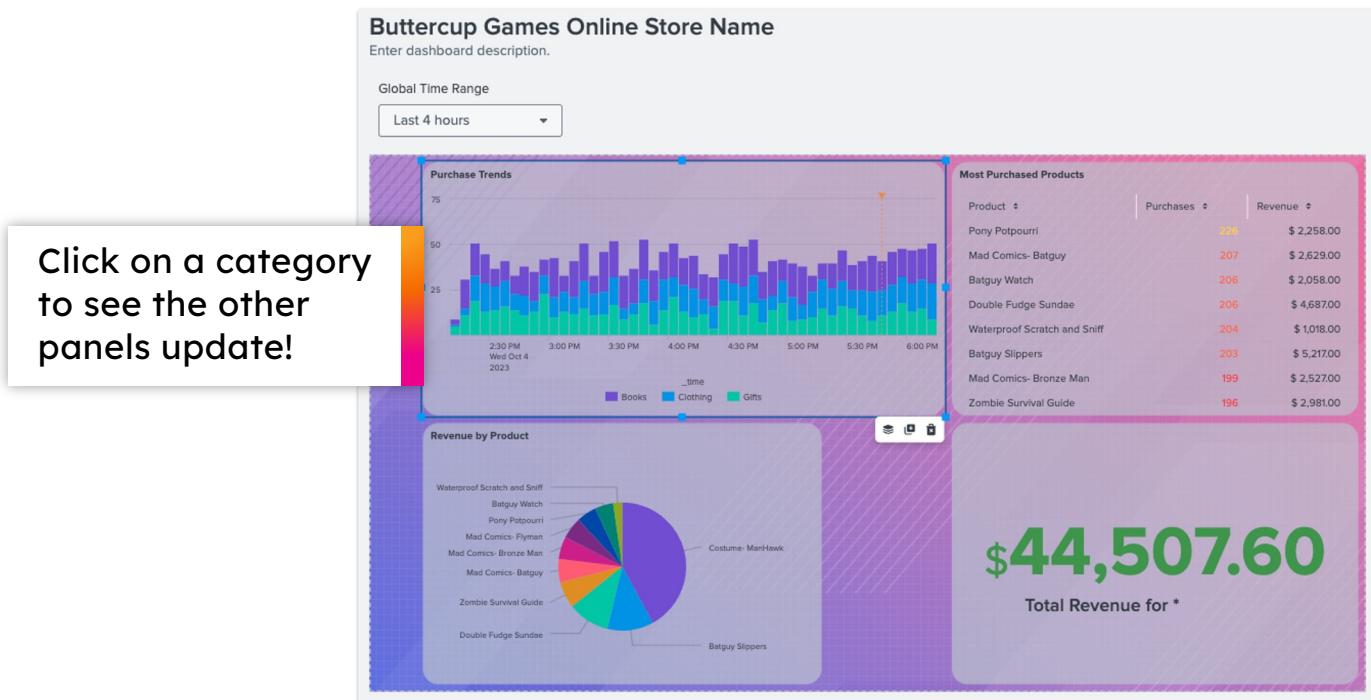
17. Click on a category on the **Purchase Trends** chart to see your visualizations update!

SPL query Open in Search ↗

```
index=main sourcetype=access_combined action=purchase
status=200
| lookup product_codes.csv product_id
| search category=$category$
| stats count as Purchases by product_name
product_price
| table product_name Purchases product_price
| eval Revenue=Purchases*product_price
| table product_name Purchases Revenue
| sort -Purchases
| rename product_name as "Product"
| head 8
```

Setup Annotation and Token

At this point in the workshop, the Buttercup Games dashboard looks like this:



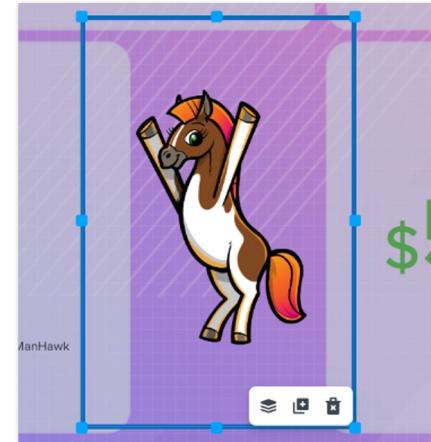
Try it Yourself



Lab 6 - Polish Up Your Dashboard

Add an image

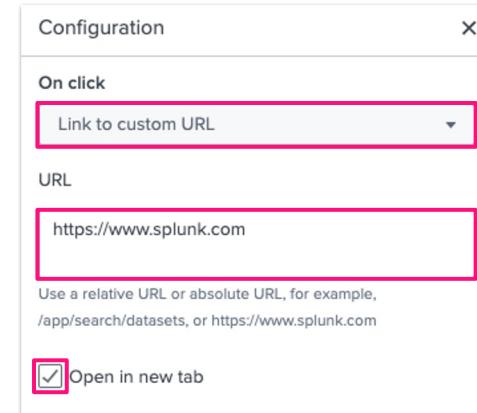
1. Download the **ButtercupMascot.png** custom image: <https://splk.it/Buttercup-Mascot>
2. Select the add image icon () in the editing toolbar.
3. Using the **Configuration** panel, under **Image content**, click on **upload file...** and upload your **ButtercupMascot.png** file.
4. Resize and position the Buttercup mascot between the two bottom panels.



Polish Up Your Dashboard

Add Drilldown

5. Select the Buttercup Mascot, and under **Interactions** click on **+ Add Interaction**.
6. In the **On click** dropdown select **Link to custom URL**
7. In the **URL** box type: **https://www.splunk.com**
8. Check the **Open in a new tab** box
9. Click **Apply**
- 10. Save** the dashboard and view it. Click on Buttercup!



Polish Up Your Dashboard

Add a shape

11. Put your dashboard back into edit mode and using the editing toolbar, add an ellipse by clicking the **Add Shape** (⊕) button.
12. Adjust the color and opacity of the ellipse by opening the **Source code** section in the **Configuration** panel:

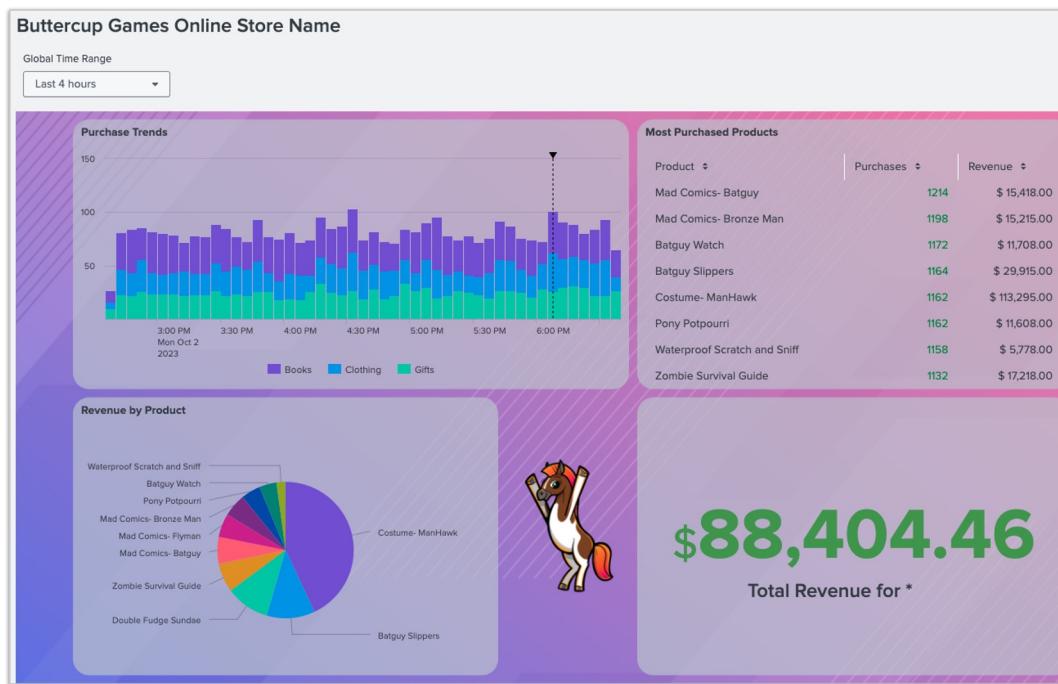
```
"options": {  
    "stroke": "transparent",  
    "fillOpacity": 0.2,  
    "fill": "#000000",  
    "strokeColor": "transparent",  
    "fillColor": "#000000"  
},
```



11. Resize and position the ellipse beneath the Buttercup mascot for a shadowing effect.
 - You can also use the Buttercup mascot's action panel to layer the mascot in front of the ellipse.

Polish Up Your Dashboard

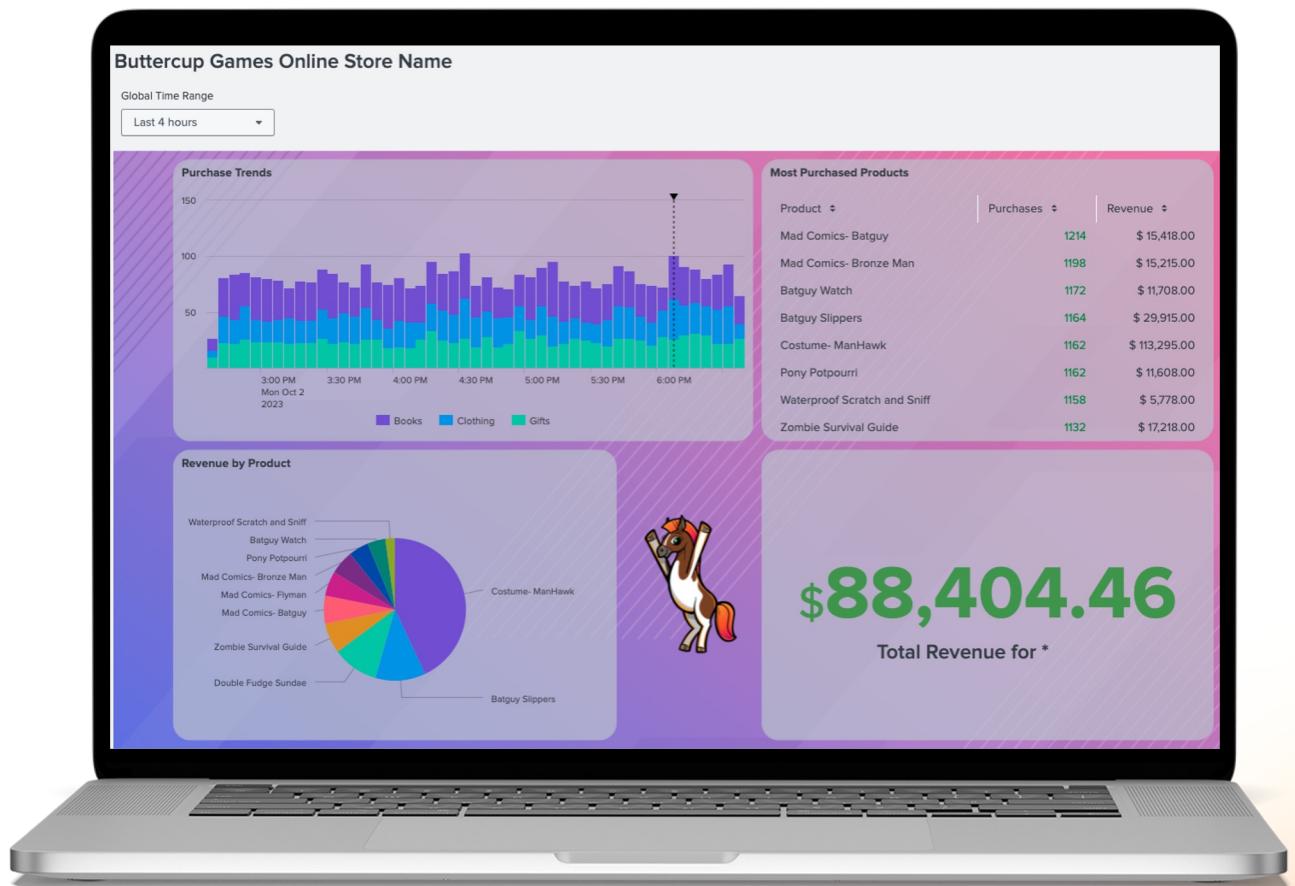
At this point in the workshop, the Buttercup Games dashboard looks like this:



Try it Yourself



You've finished!



Splunk Resources

Where to go after today's workshop



Additional Resources

- Check out the in-built **Examples Hub** for more dashboard inspiration.
- Take one of our [Dashboard Studio education courses](#).
- Try converting your Classic dashboards today!
- Send Dashboard Studio product feedback to:
 - dashboard-studio@splunk.com
 - **#dashboard_studio** in **Splunk User Groups** Slack

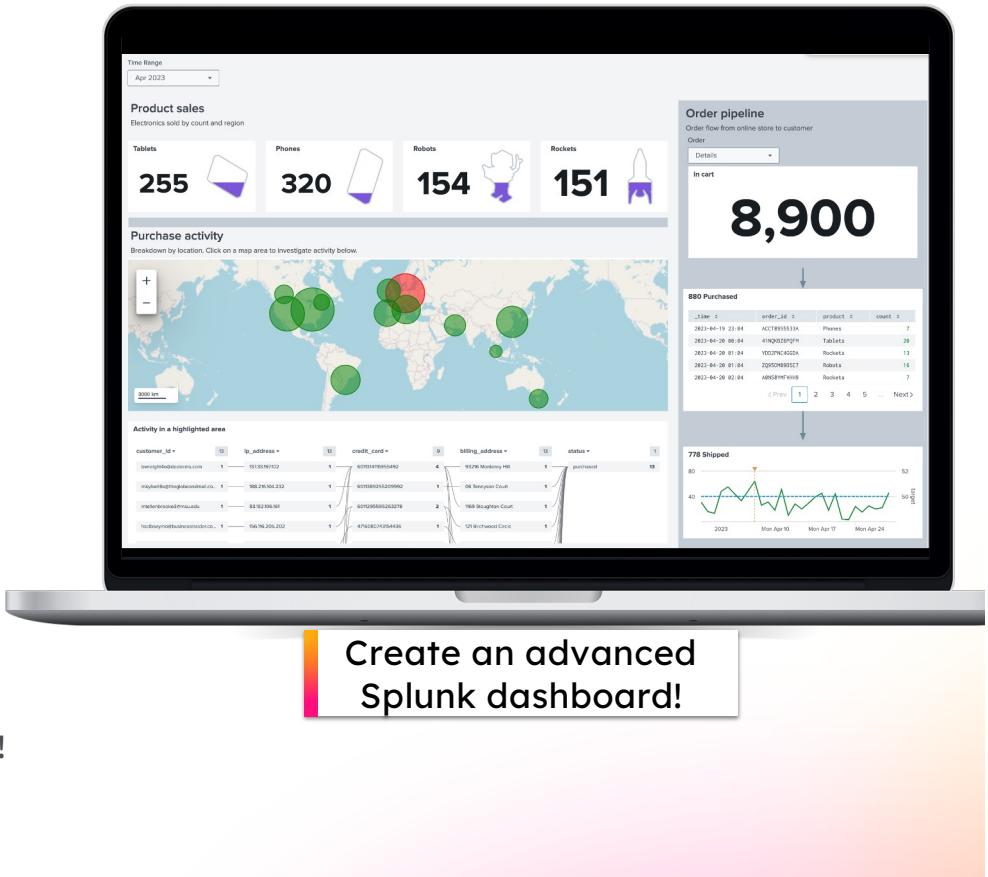
Splunk4Ninjas - Dashboard Studio

Hands-on Workshop

- Go from dashboard zero to hero in 2 hours!
In person and remote options available
- Advanced dashboard configuration
Discover how to eval tokens in search and modify advanced visualizations options
- Learn and apply dashboard best practices
Improve performance and learn dashboard design best practices & tips!
- For people with basic Splunk Dashboard Studio experience
Take your Dashboard Studio skills to the next level!

 [Workshop Flyer](#)

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Create an advanced Splunk dashboard!

Thank you

