

# splunk<sup>></sup> 4rookies Dashboard Studio



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# Please introduce yourself!

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



# Workshop Agenda

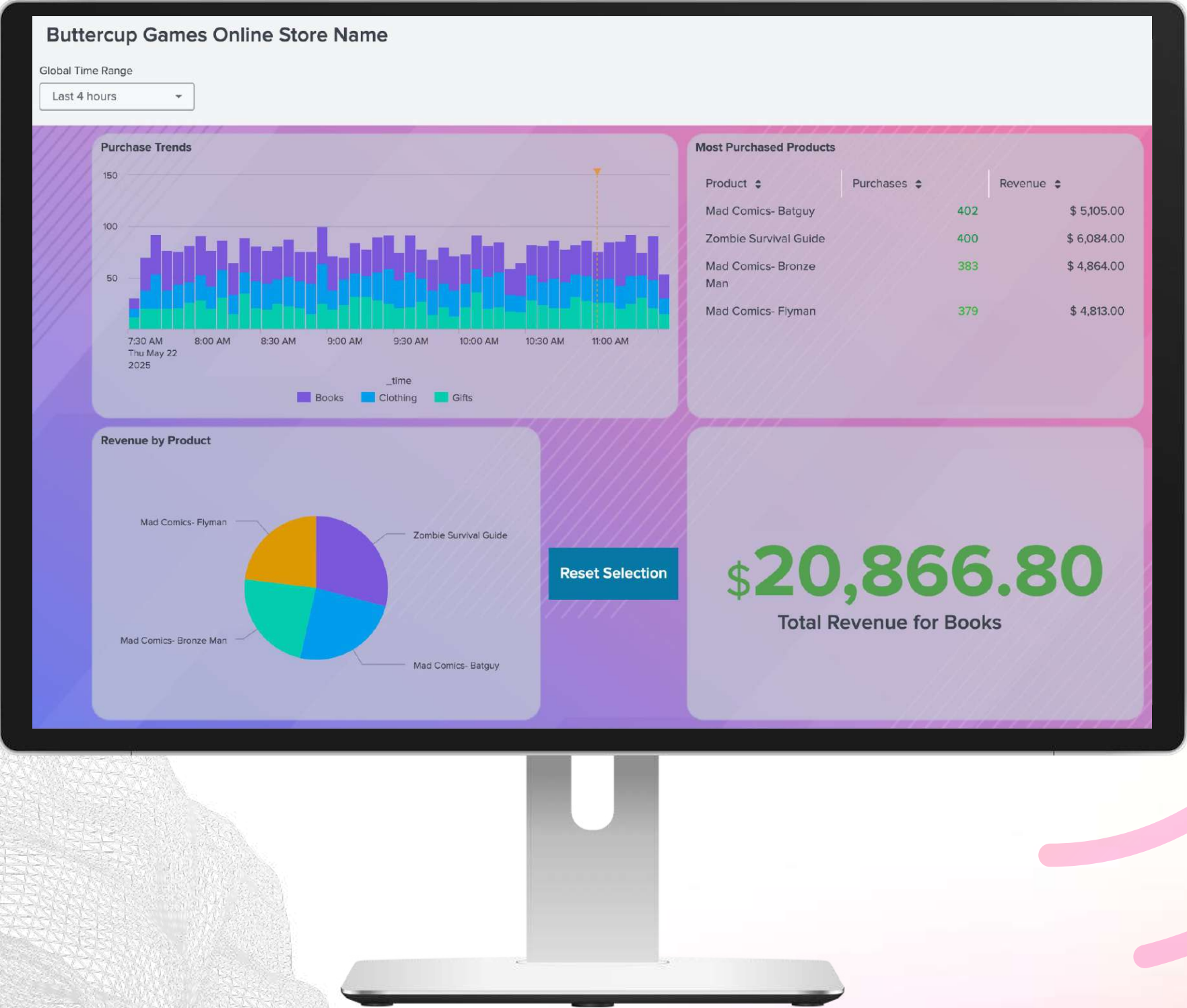
- What is Dashboard Studio?
- Creating a dashboard
- Add a table
- Add visualizations
- Create a chain search
- Add an input
- Add a reset button



# Objective

## Transform data to Storytelling!

```
9.167.143.32 -- [01/Nov/2016 20:48:22:143] "GET /category.screen?category_id=FLOWERS&JSESSIONID=SD5SL1FF4ADFF3 H
TTP 1.1" 200 1429 "http://www.myflowershop.com/cart.do?action=remove&itemId=EST-13&product_id=AV-CB-01" "Googlebot
/2.1 ( http://www.googlebot.com/bot.html) " 403
194.215.205.19 -- [01/Nov/2016 20:48:24:159] "GET /cart.do?action=changequantity&itemId=EST-76&product_id=FI-FW-02
&JSESSIONID=SD1SL2FF9ADFF9 HTTP 1.1" 503 3699 "http://www.myflowershop.com/category.screen?category_id=FLOWERS" "M
ozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 301
130.253.37.97 -- [01/Nov/2016 20:48:24:198] "GET /cart.do?action=purchase&itemId=EST-27&product_id=RP-SN-01&JSESS
IONID=SD3SL8FF4ADFF8 HTTP 1.1" 200 3350 "http://www.myflowershop.com/category.screen?category_id=FLOWERS" "Mozill
a/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 927
92.1.170.135 -- [01/Nov/2016 20:48:25:142] "GET /category.screen?category_id=TEDDY&JSESSIONID=SD1SL1FF10ADFF5 HT
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NT 5.1; en-GB; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6" 967
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n)" 389
125.17.14.100 -- [01/Nov/2016 20:48:26:174] "GET /product.screen?product_id=AV-CB-01&JSESSIONID=SD3SL10FF4ADFF2 H
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6.0; Windows NT 5.1)" 297
128.241.220.82 -- [01/Nov/2016 20:48:28:158] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD3SL10FF5ADFF5 H
TTP 1.1" 200 2438 "http://www.myflowershop.com/cart.do?action=view&itemId=EST-18&product_id=FL-DLH-02" "Opera/9.20
(Windows NT 6.0; U; en)" 681
131.178.233.243 -- [01/Nov/2016 20:48:30:128] "POST /cart.do?action=purchase&itemId=EST-18&product_id=K9-BD-01&JS
ESSIONID=SD3SL1FF9ADFF7 HTTP 1.1" 404 664 "http://www.myflowershop.com/product.screen?product_id=K9-BD-01" "Google
bot/2.1 ( http://www.googlebot.com/bot.html) " 387
94.229.0.21 -- [01/Nov/2016 20:48:31:177] "GET /category.screen?category_id=BOUQUETS&JSESSIONID=SD4SL7FF6ADFF10 H
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dows NT 5.1; en-GB; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6" 814
12.130.60.5 -- [01/Nov/2016 20:48:32:150] "GET /product.screen?product_id=AV-CB-01&JSESSIONID=SD1SL4FF5ADFF6 HTTP
1.1" 200 2676 "http://www.myflowershop.com/category.screen?category_id=TEDDY" "Mozilla/4.0 (compatible; MSIE 6.0;
Windows NT 5.1)" 177
130.253.37.97 -- [01/Nov/2016 20:48:33:155] "GET /cart.do?action=addtocart&itemId=EST-16&product_id=AV-CB-01&JSESS
IONID=SD10SL9FF9ADFF7 HTTP 1.1" 200 933 "http://www.myflowershop.com/product.screen?product_id=AV-CB-01" "Googlebo
t/2.1 ( http://www.googlebot.com/bot.html) " 493
130.253.37.97 -- [01/Nov/2016 20:48:35:178] "GET /product.screen?product_id=AV-SB-02&JSESSIONID=SD8SL3FF6ADFF10 H
TTP 1.1" 200 3491 "http://www.myflowershop.com/cart.do?action=addtocart&itemId=EST-66&product_id=AV-SB-02" "Googleb
ot/2.1 ( http://www.googlebot.com/bot.html) " 778
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ntel Mac OS X 10_6_3; en-US) AppleWebKit/533.4 (KHTML, like Gecko) Chrome/5.0.375.38 Safari/533.4" 936
131.178.233.243 -- [01/Nov/2016 20:48:35:172] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD8SL4FF9ADFF2
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IE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 402
141.146.8.66 -- [01/Nov/2016 20:48:37:141] "GET /product.screen?product_id=K9-BD-01&JSESSIONID=SD10SL8FF9ADFF8 HT
TP 1.1" 200 1452 "http://www.myflowershop.com/category.screen?category_id=TEDDY" "Mozilla/4.0 (compatible; MSIE 6.
0; Windows NT 5.1)" 118
```







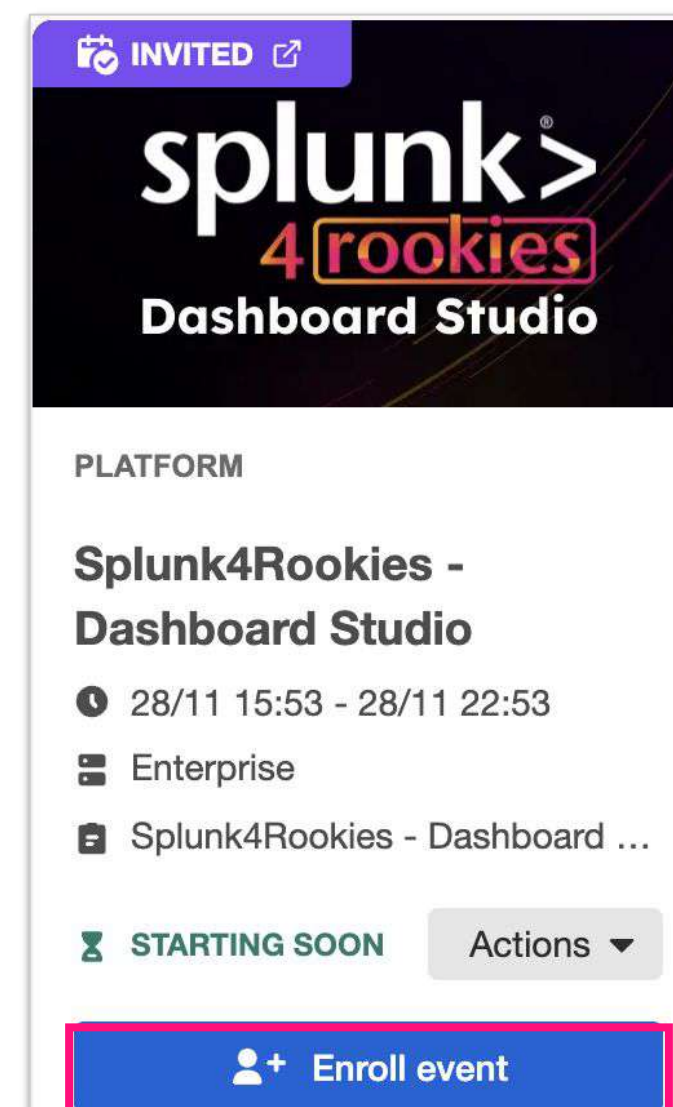
# Enroll in Today's Workshop

## Tasks

1. Get a splunk.com account if you don't have one yet:  
<https://splk.it/SignUp>
2. Enroll in the Splunk Show workshop event:  
<https://show.splunk.com/event/<eventID>>
3. Download the hands-on lab guide:  
<https://splk.it/DS4R-Lab-Guide>  

Contains step-by-step instructions for all of today's exercises!
4. Download a copy of today's slide deck:  
<https://splk.it/DS4R-Attendee>

## Goal



Enroll in today's event



# Our World Never Stops Evolving.

////////////////////////////////////  
New Ideas. New Devices. New Processes.

**splunk**>  
a **CISCO** company



# The Dashboard Journey

## Advanced XML

They were also a thing (RIP)

## Simple XML

With CSS & JS Extensions

## HTML Dashboards

HTML escape hatch

## Glass Tables

Premium app

## New Dashboard Framework

WYSIWYG



# 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



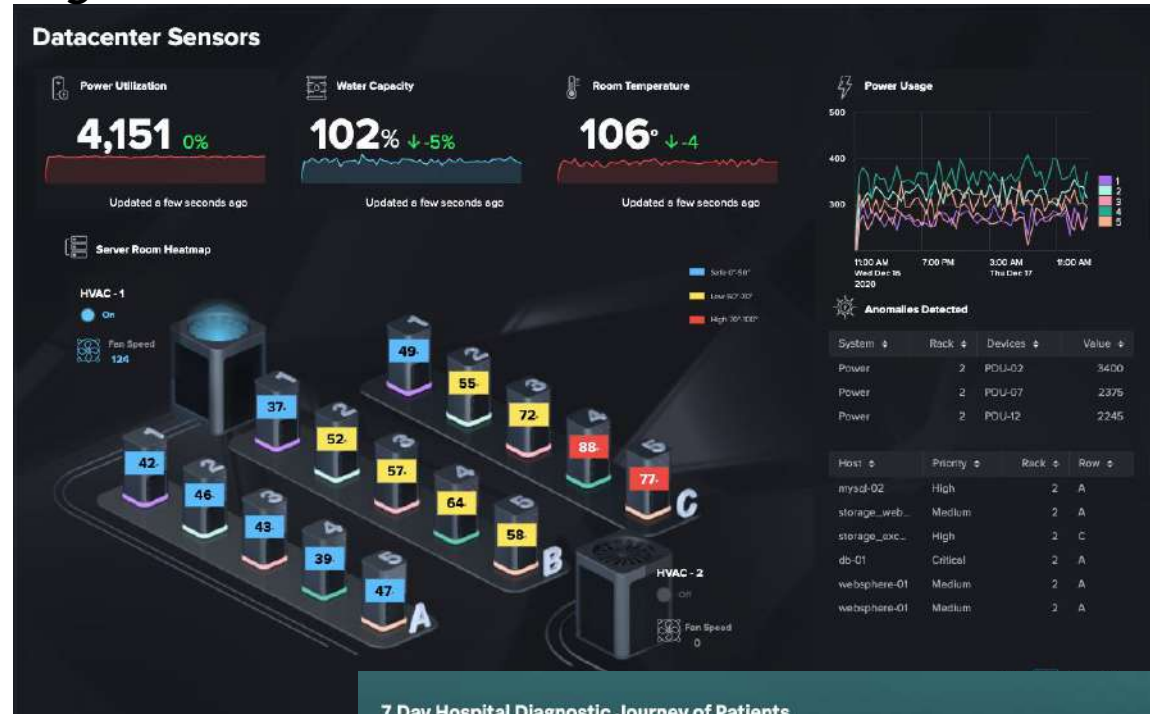
# Glass Tables

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

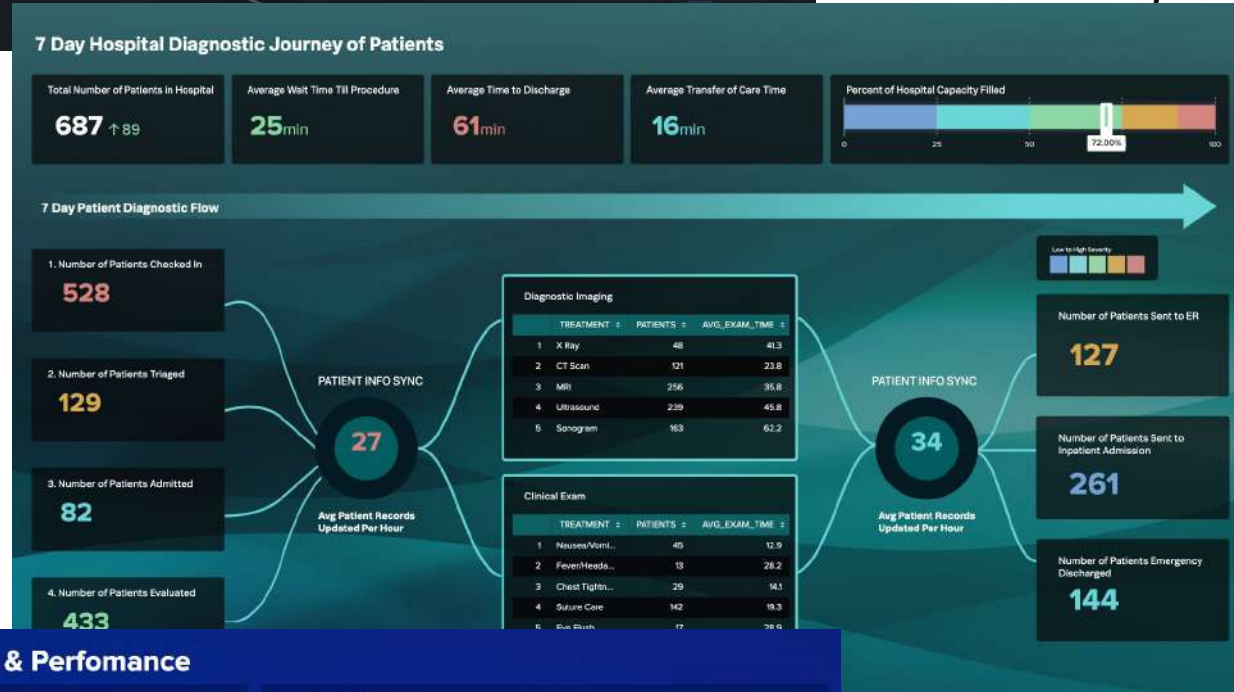




## Digital Twin



## Executive Report



## Monitoring



# 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**

# 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**



**BUTTERCUP**  
ENTERPRISES



# Workshop Time!



# 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**.

Create New Dashboard

Dashboard Title: Buttercup Games Online Store - Your Name  
buttercup\_games\_online\_store\_\_your\_name Edit ID

Description: Dashboard Studio Workshop

Permissions: Private

How do you want to build your dashboard? [What's this?](#)

Classic Dashboards  
The traditional Splunk dashboard builder

Dashboard Studio **NEW**  
A new builder to create visually-rich, customizable dashboards

Select layout mode

Absolute  
Full layout control

Grid  
Quick organization

Cancel Create



# Set Up the Dashboard Canvas

## Adding a background image

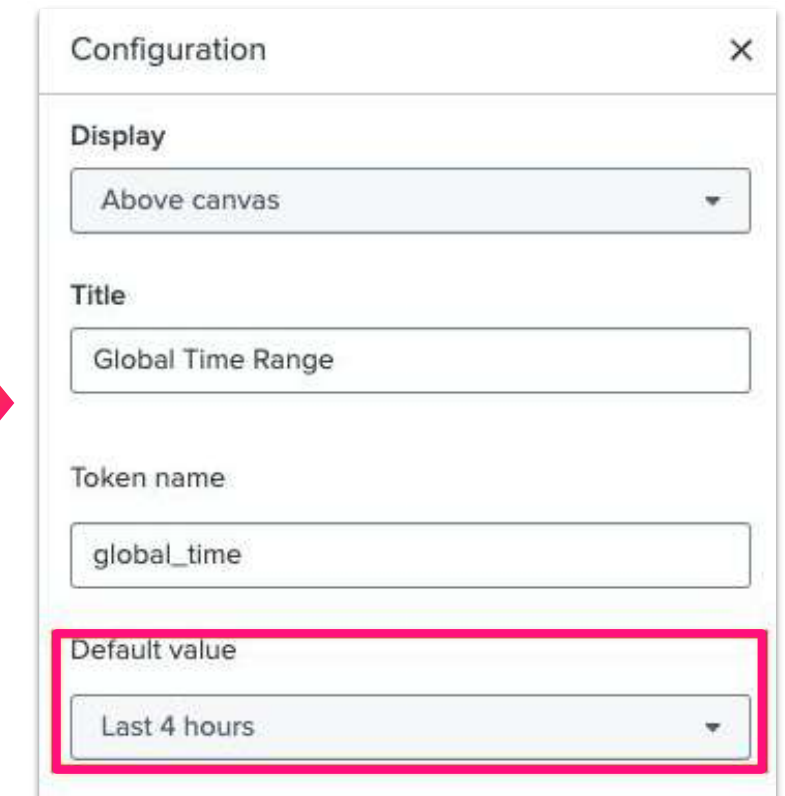
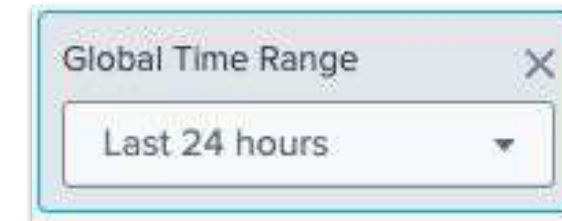
6. Using the **Configuration** panel, make sure the **Display Mode** is set to **Fit to Width**.
7. Change **Canvas Width** to 1300 and **Canvas Height** to 700.
8. In the **Background image** section, paste the following image URL into the **Enter URL** box: <https://splk.it/Buttercup-Games-Background>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



The screenshot shows the 'Configuration' panel for a dashboard canvas. The 'Canvas' section is expanded, showing 'Display mode' with three buttons: 'Auto', 'Actual size', and 'Fit to width'. The 'Fit to width' button is highlighted with a red box. Below this, 'Canvas width' is set to 1300 and 'Canvas height' is set to 700, both values highlighted with red boxes. The 'Background' section is also expanded, showing 'Background color' as #f2f4f5. The 'Background image' section has a text box containing the URL 'https://splk.it/Buttercup-Games-Background', which is highlighted with a red box. Below the text box is a preview of the background image. At the bottom, there is a dropdown menu for 'Background image size' with options: 'Contain', 'Custom', 'Cover', and 'Original size'. The 'Cover' option is selected and highlighted with a red box.

# Change the Time Range

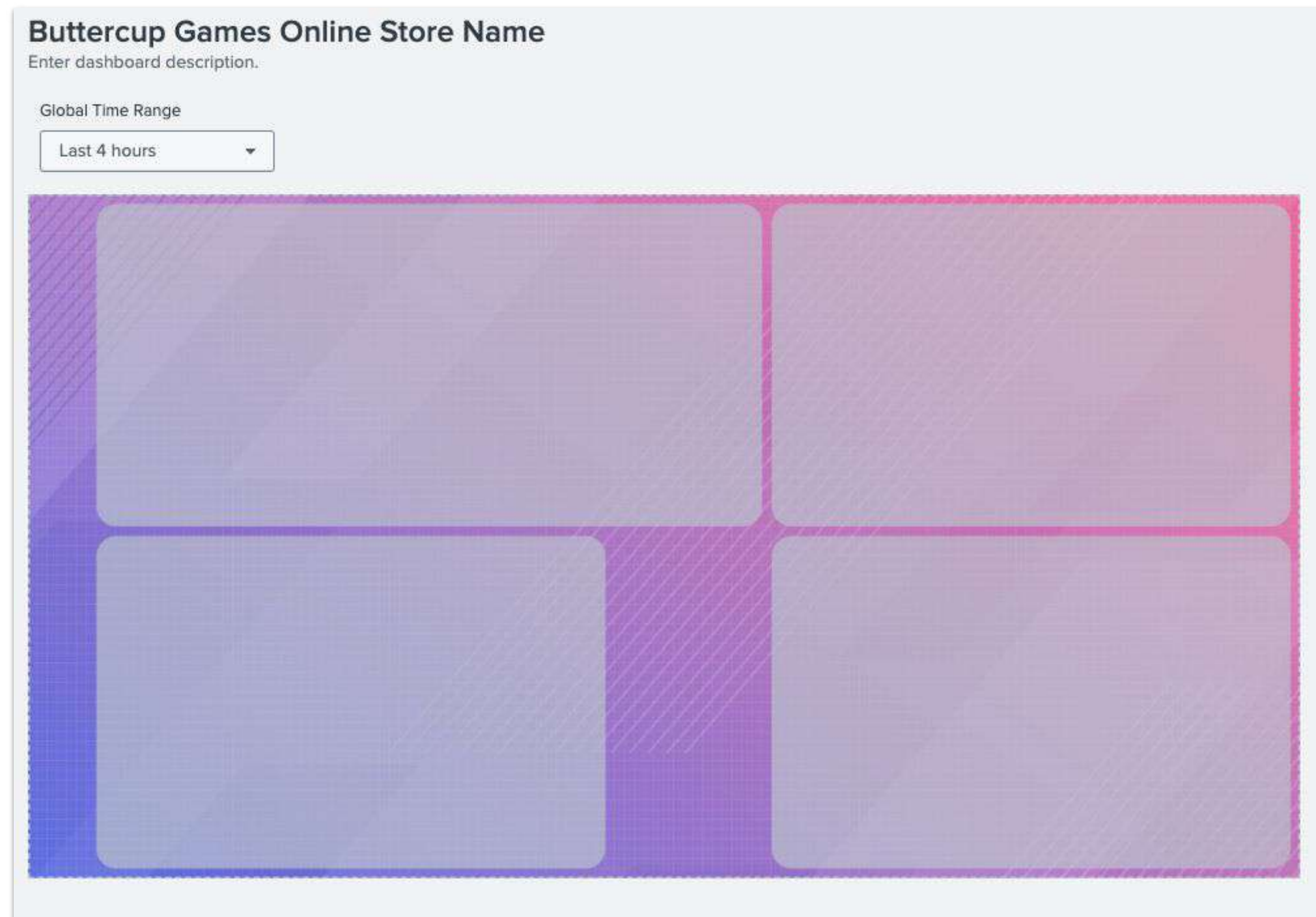
10. Change the default time range by selecting the Global Time Range input and change the default time from Last 24 hours to **Last 4 Hours**
  - This will be the time range used when you first load or refresh your dashboard
11. Save your dashboard

A screenshot of a 'Configuration' panel with a close button (X) in the top right corner. It contains several fields: 'Display' (set to 'Above canvas'), 'Title' (set to 'Global Time Range'), and 'Token name' (set to 'global\_time'). The 'Default value' field is highlighted with a red border and shows a dropdown menu with 'Last 4 hours' selected.



# 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:


```
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
```

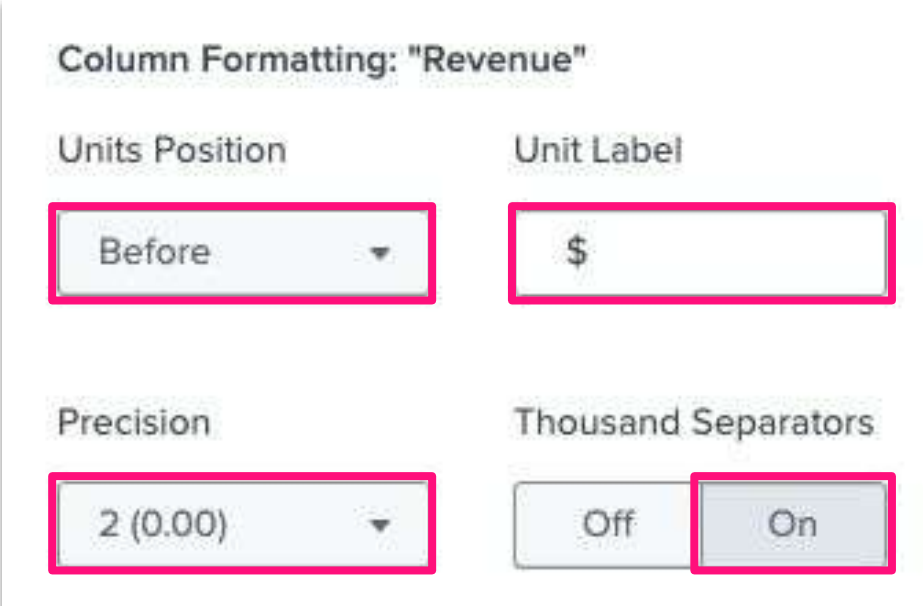
This search looks for all successful purchase events and outputs a table of the number of purchased and the associated revenue, broken down by product

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

# Configure the Table

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

6. In the **Configuration** panel, edit the **Most Purchased Products search** data source and set the **Time range** to **Input**. Click on **Apply and Close** to save it.
7. In the **Color and style** section, change the **Background** to **transparent**.
8. In the **Column-specific formatting** 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**.



Column Formatting: "Revenue"

Units Position	Unit Label
Before ▼	\$
Precision	Thousand Separators
2 (0.00) ▼	Off On



# Configure the Table

## Format the **Purchases** column

8. (Continued) 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. Edit the color range values as follows:

**400 and greater**

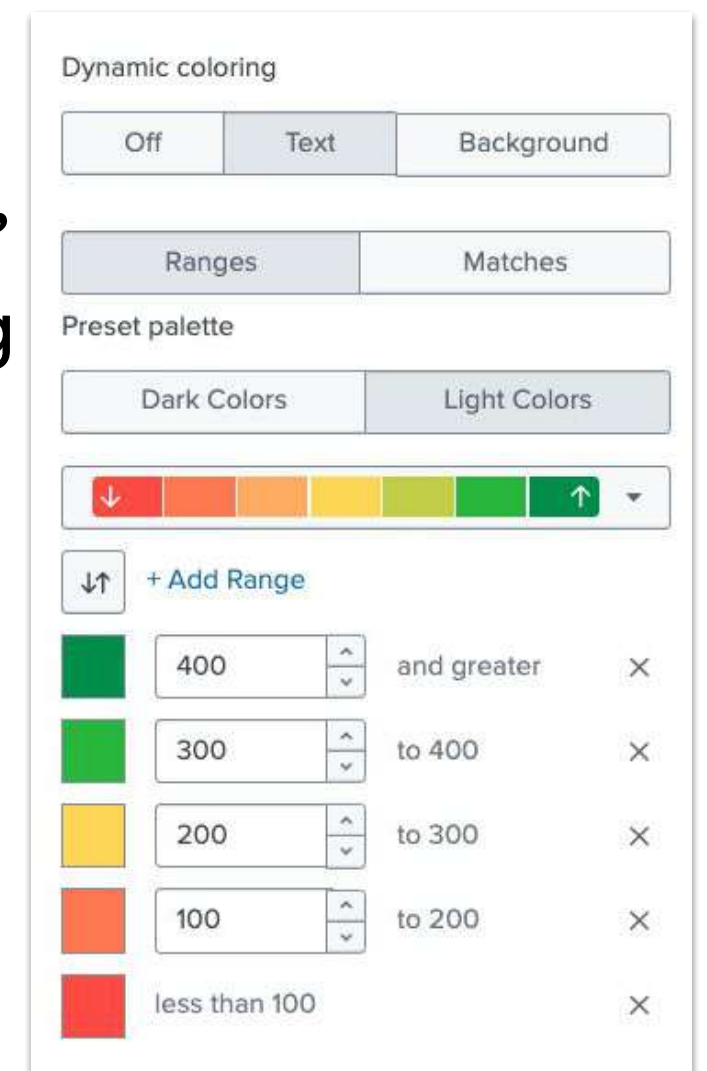
**300 to 400**

**200 to 300**

**100 to 220**

**Less than 100**

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

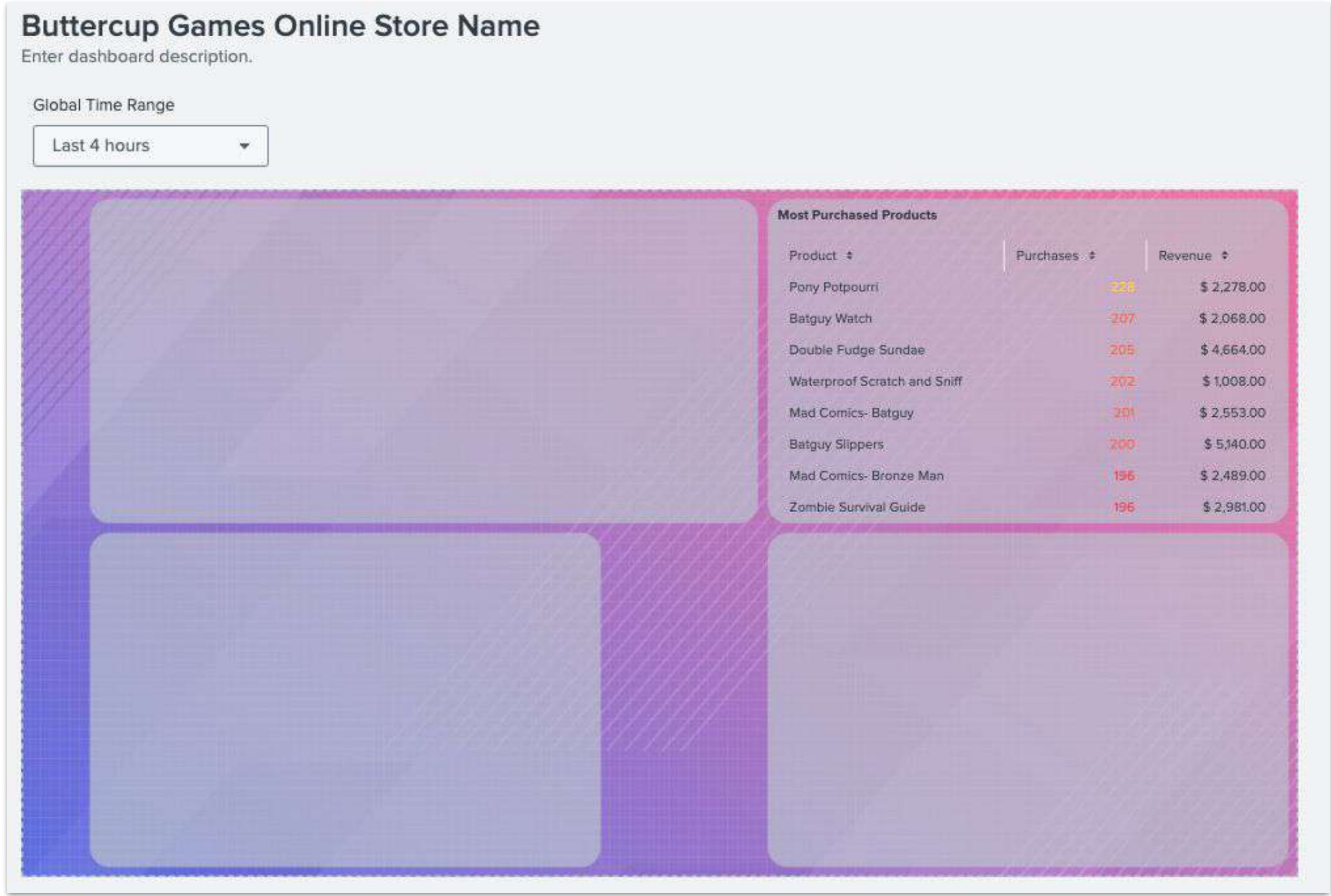


The screenshot shows the 'Dynamic coloring' configuration panel. At the top, there are three tabs: 'Off', 'Text' (which is selected), and 'Background'. Below the tabs are two sections: 'Ranges' and 'Matches'. Under 'Ranges', there is a 'Preset palette' section with two options: 'Dark Colors' and 'Light Colors'. Below these is a color bar with a gradient from red to green, with a dropdown arrow on the right. Below the color bar is a '+ Add Range' button. Below that is a table of ranges:

Color	Value	Operator	Action
Dark Green	400	and greater	X
Green	300	to 400	X
Yellow	200	to 300	X
Orange	100	to 200	X
Red	less than 100		X

# Configure the Table

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






**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
```

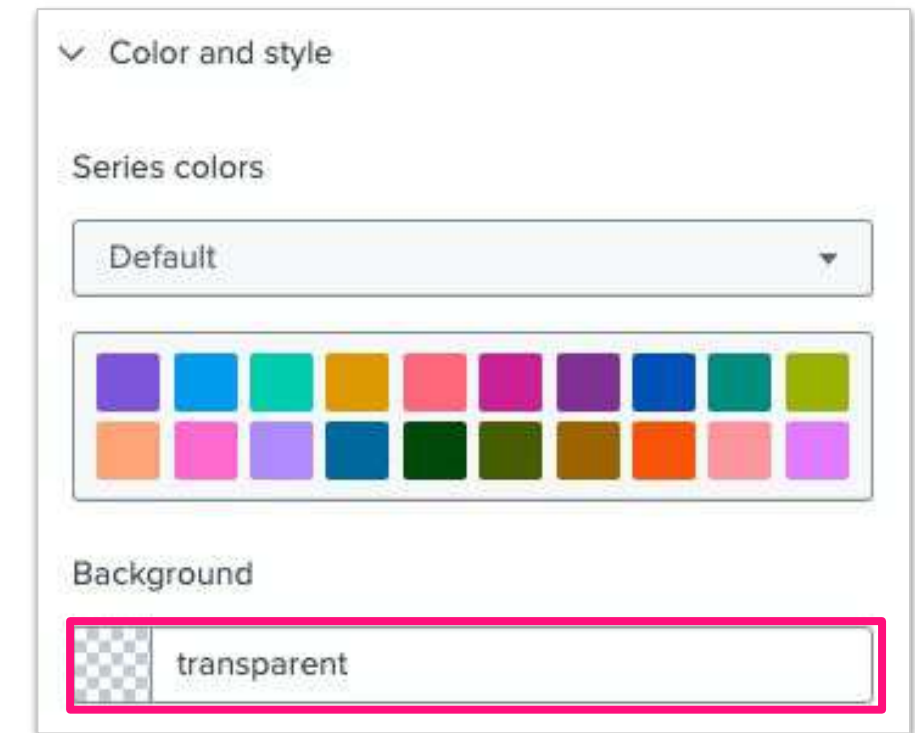
3. For the **Data source name** put **'Revenue by Product search'**
4. Set the **Time range** to **Input**
5. Select **Apply and Close**.
6. Title your pie chart **Revenue by Product** and leave the description box empty.



# Configure the Pie Chart Visualization

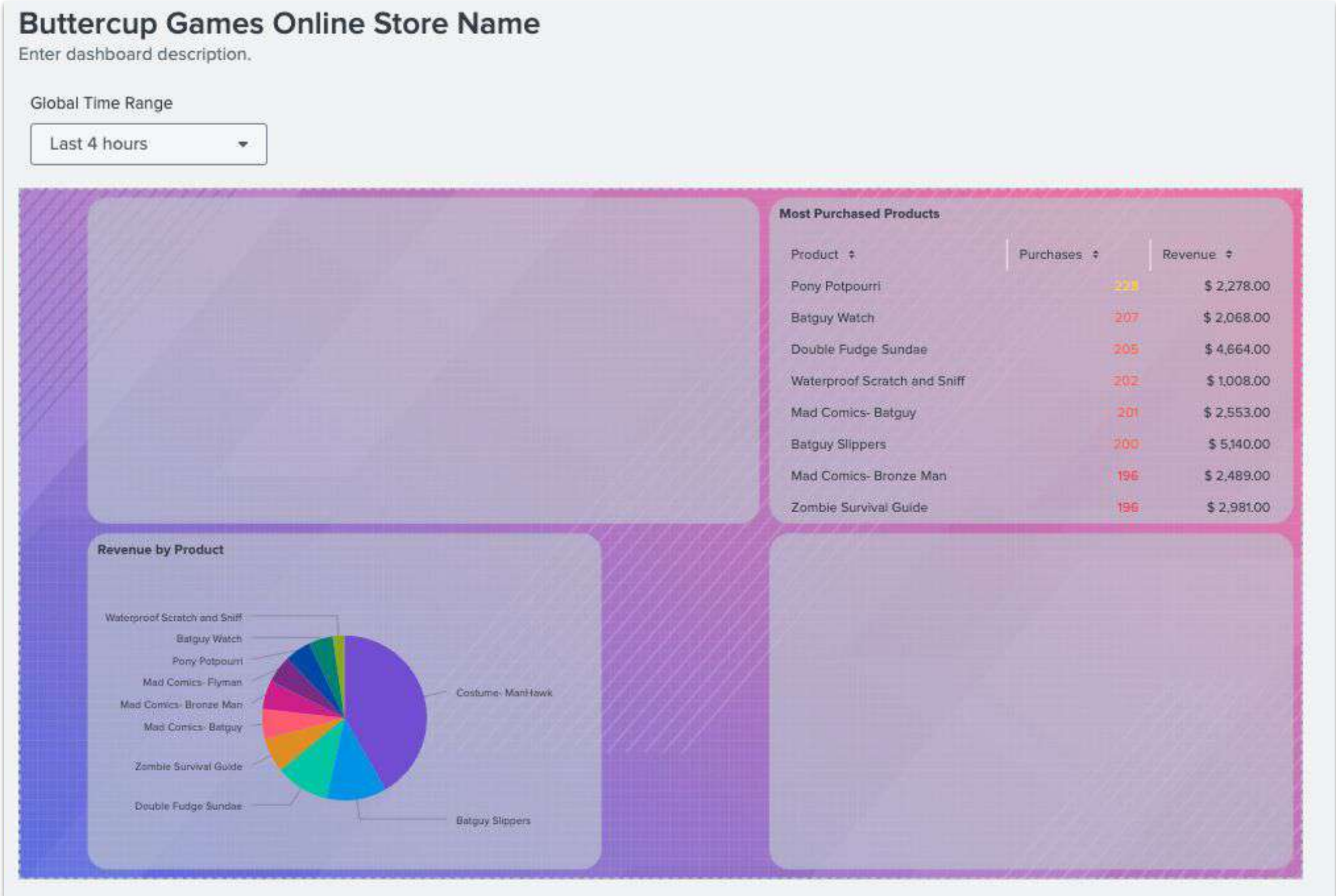
## Styling and labeling

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
```

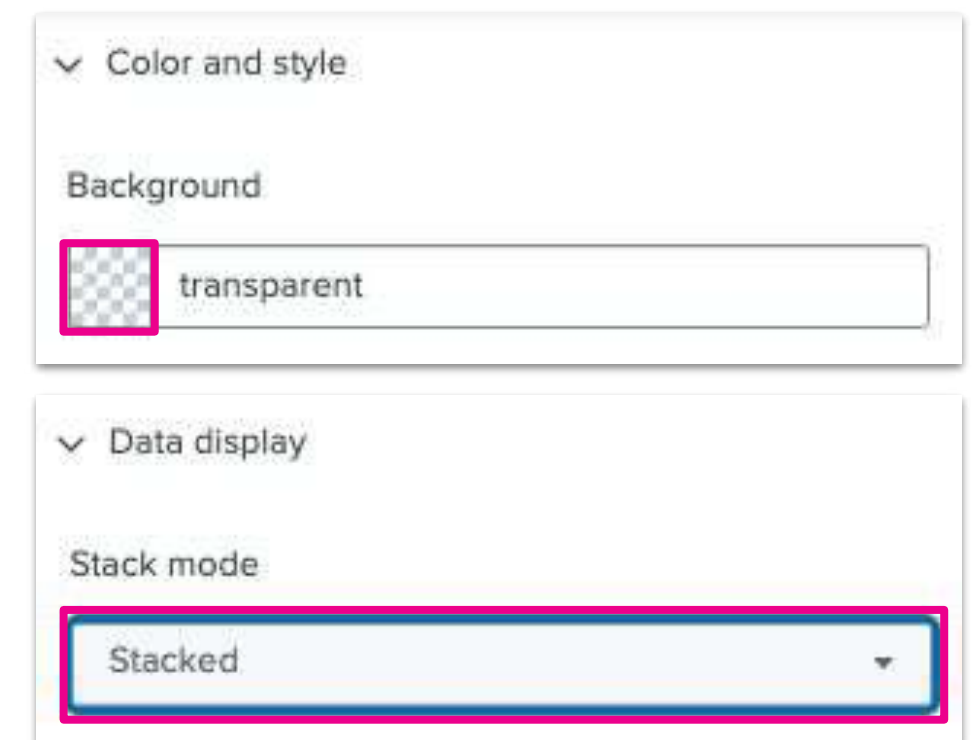
This search outputs a chart showing the count of successful purchases over time by product category

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

# Configure the Column Chart

## Styling

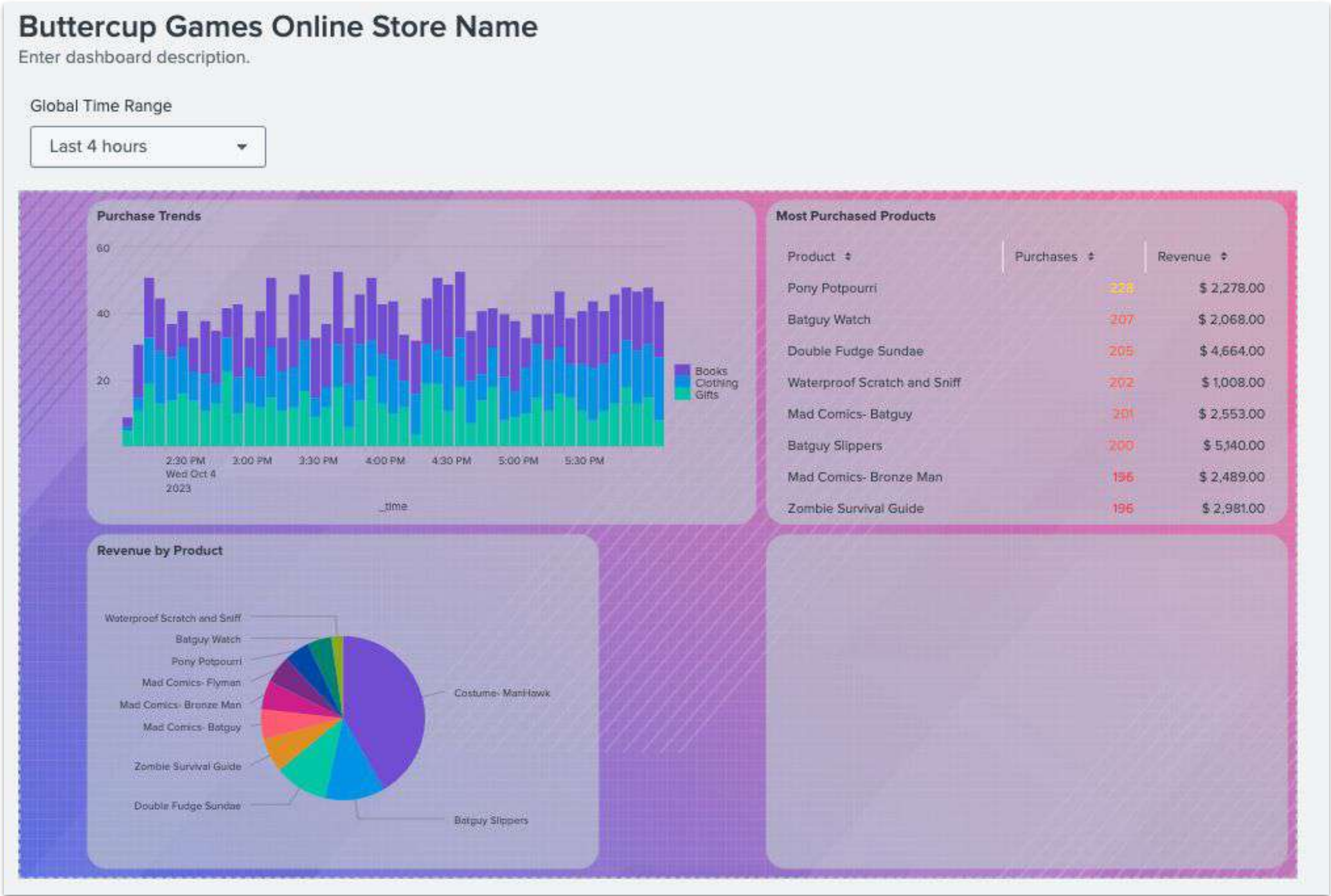
15. Title your chart **Purchase Trends** and leave the description box empty.
16. In the **Configuration** panel, follow these steps:
  - a. In the **Color and style** section, change the **Background** to **transparent**.
  - b. In the **Data display** section change the **Stack Mode** to **Stacked**.
    - 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 the **Right**.
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**





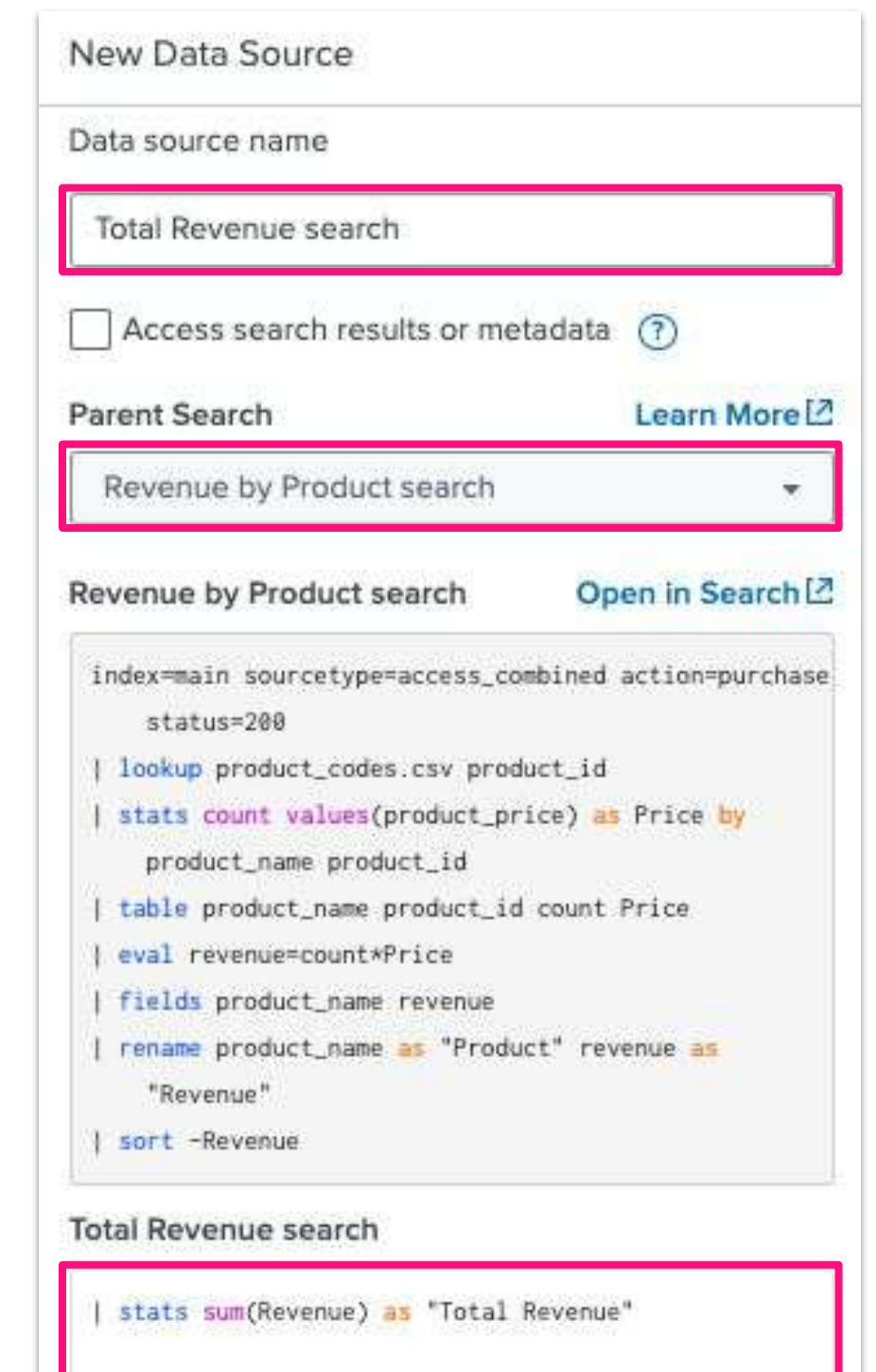
# Lab 4 - Create a Chain Search

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"
```

4. Select **Apply** and **Close**.



New Data Source

Data source name

Total Revenue search

☐ Access search results or metadata [?](#)

Parent Search [Learn More](#)

Revenue by Product search

Revenue by Product search [Open in Search](#)


```
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
```

Total Revenue search

```
| 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

▼ Data display

Unit position      Unit label

Before      \$

Precision

2

Trend display      Sparkline display

Absolute      Off

▼ Color and style

Dynamic elements

None

Major value

#53a051

Trend value


#171d21

Background

transparent

# Configure the Single Value Title

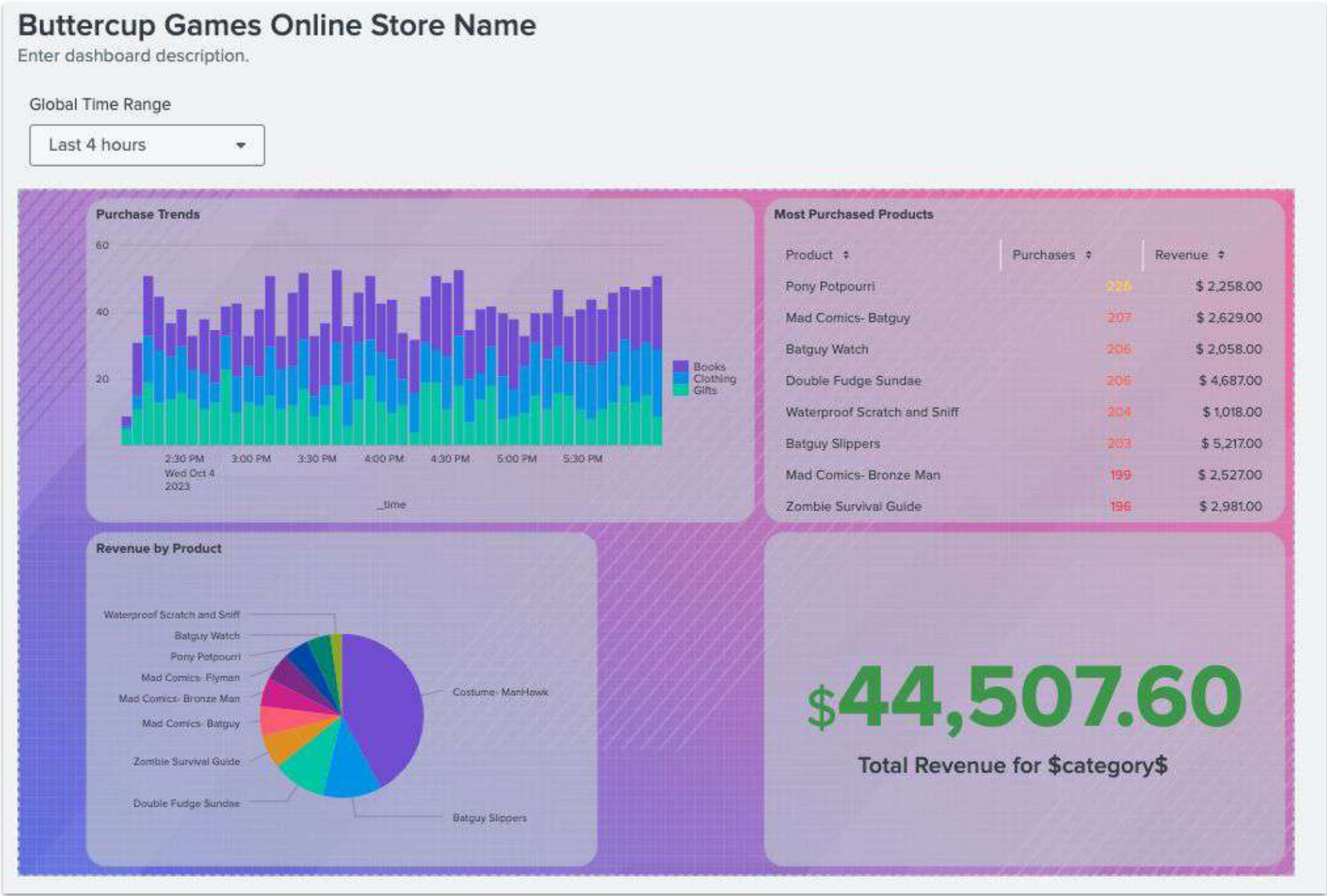
Adding a title a different way

11. In the main toolbar click the markdown (  ) 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 adds a custom **annotation\_label** field to our events

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



Annotation x

\_time (time)

Annotation labels

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**

The screenshot shows the 'On click' dropdown menu with 'Set tokens' selected. Below this, there is a section titled 'Set token (category)' with a 'Use predefined token' button. A description states: 'A predefined token captures information when a user clicks different visualization elements.' Below this, there are two input fields: 'Token name' with the value 'category' and 'Token value' with the value 'name'. At the bottom, there is a 'Default value' field with the value '\*'.

On click

Set tokens

Tokens are used to configure interactivity in the dashboard.

For example: `host = row.host.value`

Set token (category)

Use predefined token

A predefined token captures information when a user clicks different visualization elements.

Token name ? Token value

category = name


Default value ?

\*



# Configure Searches

## Using a token

12. Click on the **Data source overview** icon () 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 and 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!

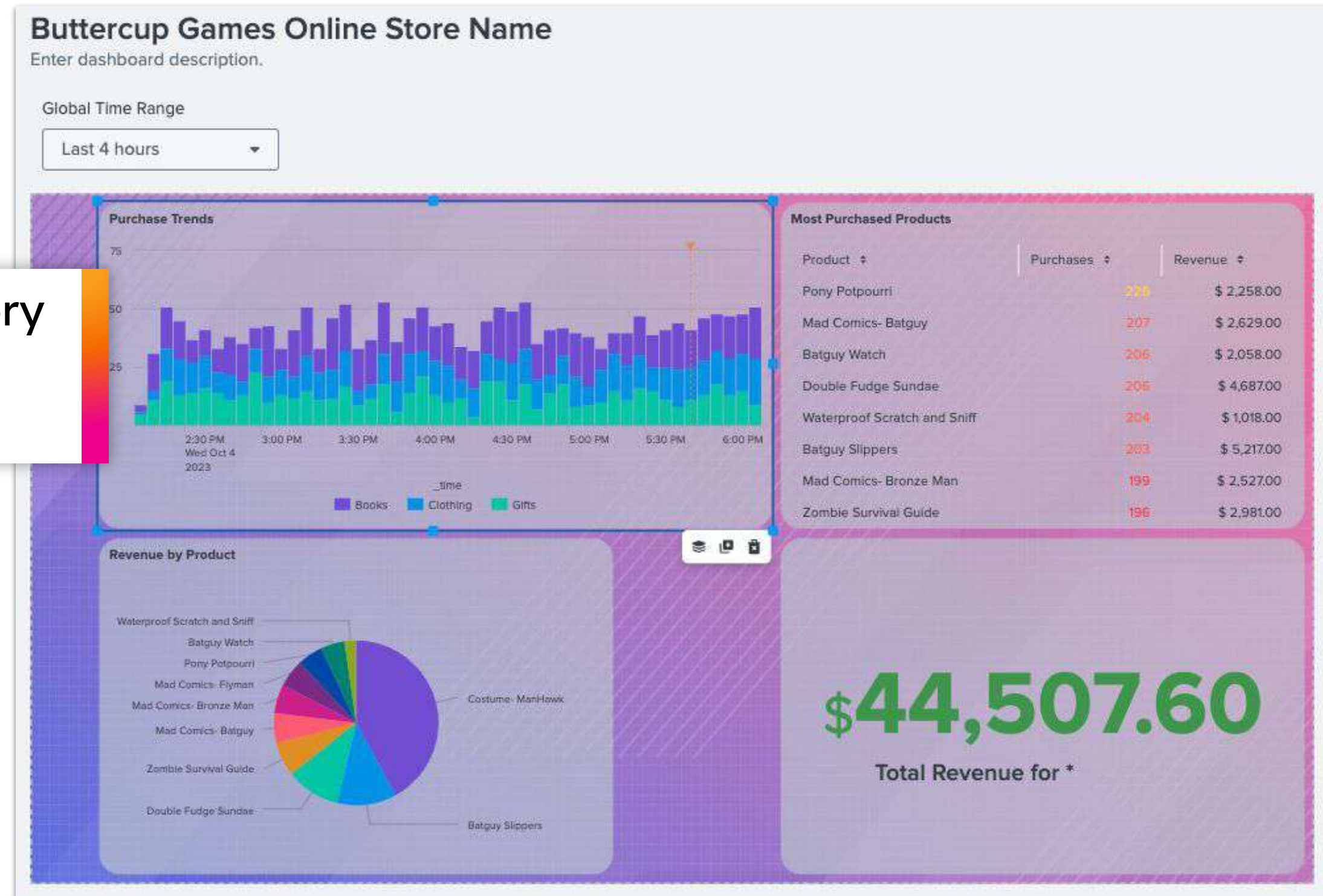
SPL query

[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:



Click on a category  
to see the other  
panels update!




**Try it Yourself**





# Lab 6 - Add a Reset Button

Create the “Reset Selection” button

1. Add a Rectangle
2. Move and resize the rectangle to fit in the space between the two bottom panels
3. Change the Fill and Stroke colors to blue ( #0877a6 )
4. Add the following markdown () text:  
**## Reset Selection**
5. Move and resize the markdown text box to fit inside the rectangle
6. Change the font color of the markdown text to white



# Add a Reset Button

## Configure the Set Token drilldown

7. Add another Rectangle
8. Move and resize the rectangle to cover the **"Reset selection"** text you previously added
9. Change the Fill and Stroke colors to **transparent**
10. In the **Configuration** panel, scroll down to **Interactions**.
11. Click on **+ Add interaction** and from the **On click** dropdown select **Set tokens**
12. Select **'Enter static value'** and set the following:
  - a. Set the **Token name** to **category**
  - b. Set the **Token value** to **\***
  - c. Leave **Default value** empty

The screenshot shows the 'On click' dropdown menu with 'Set tokens' selected. Below it, a text box explains that tokens are used for interactivity and provides an example: `host = row.host.value`. The 'Set token (category)' section has a dropdown menu with 'Enter static value' selected. Below this, a text box explains that a static token value is set to a specific string that does not change. The 'Token name' and 'Token value' fields are shown, with 'category' entered in the name field and '\*' entered in the value field. The 'Default value' field is empty. A text box at the bottom explains that this token is used in a drilldown event for another visualization and that changing the default value applies to all places the token is used.

On click

Set tokens

Tokens are used to configure interactivity in the dashboard.

For example: `host = row.host.value`

Set token (category)

Enter static value

A static token value is set to a specific string that does not change.

Token name		Token value
category	=	*

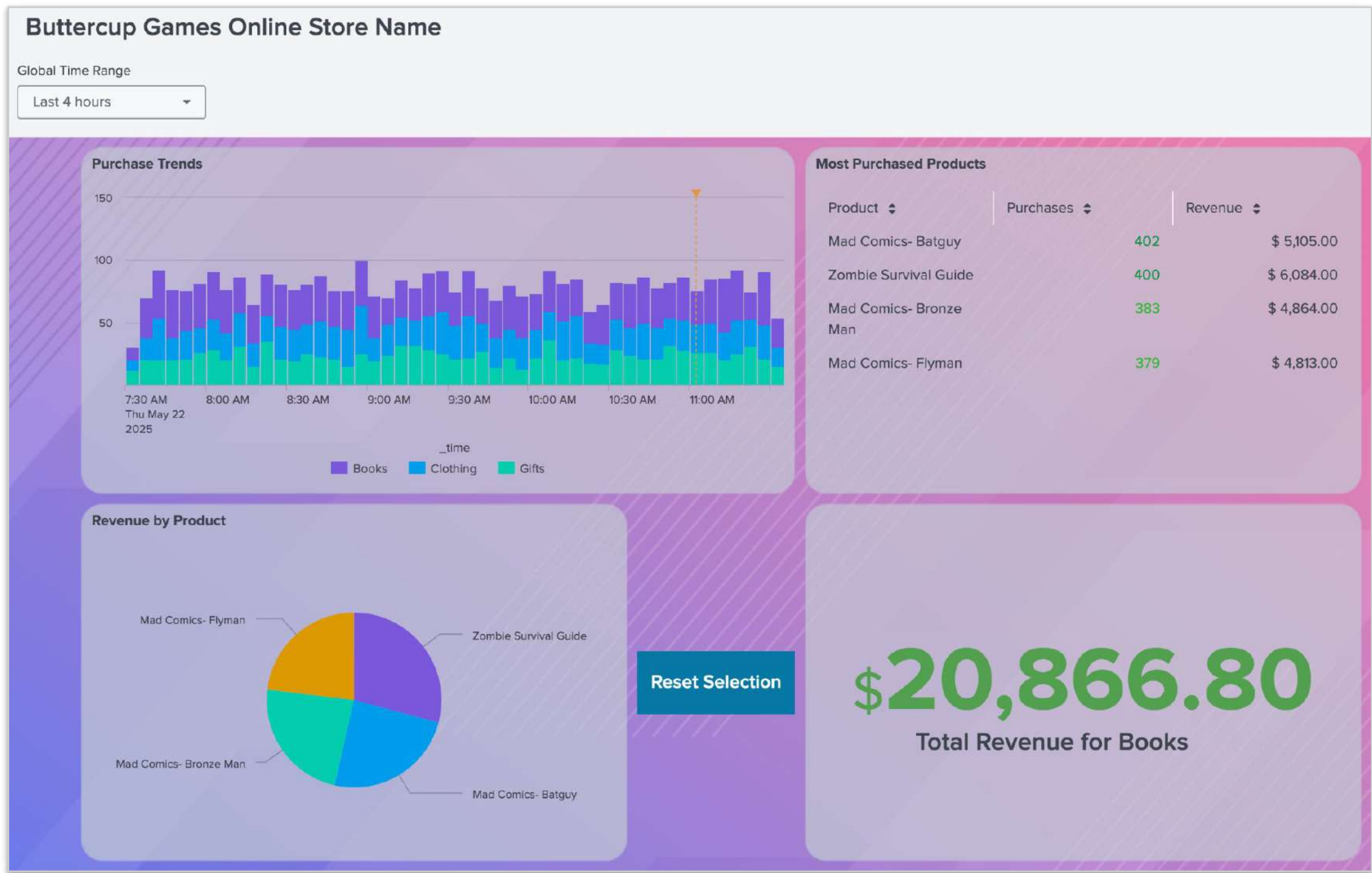
Default value

Enter a default value

This token is used in a drilldown event for another visualization. Changing the default value applies to all places the token is used.

# Add a Reset Button

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

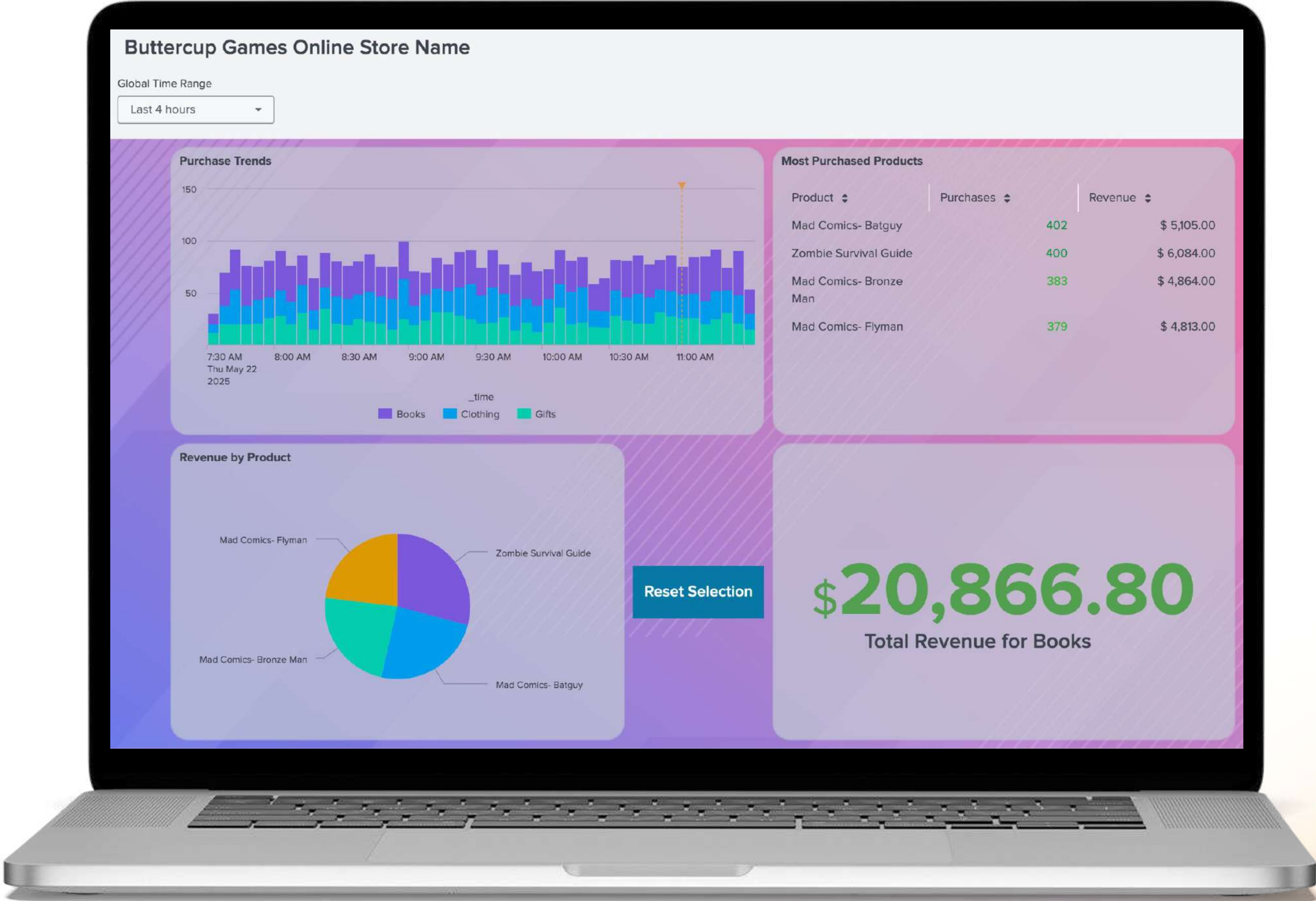




# Try it Yourself



You've finished!





# Splunk Resources

Where to go after today's workshop





# Additional Resources

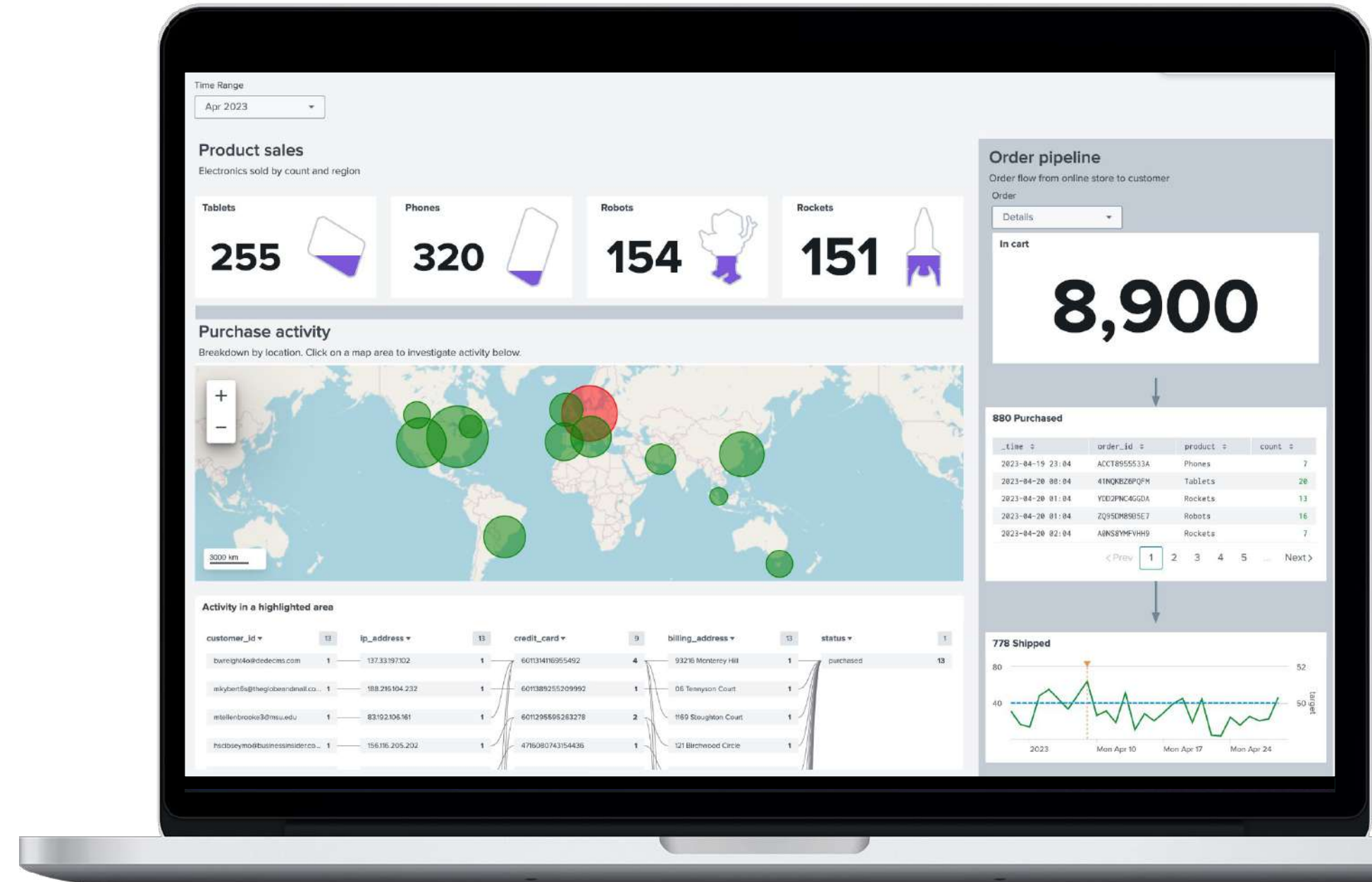
- Check out the in-built **Examples Hub** for more dashboard inspiration.
- Take one of our [Dashboard Studio education courses](#).
- Try converting your Classic dashboards today!
- Send Dashboard Studio product feedback to:
  - [dashboard-studio@splunk.com](mailto:dashboard-studio@splunk.com)
  - **#dashboard\_studio**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



Create an advanced  
Splunk dashboard!

# Thank you