

Bootstrap Tableau

Using a Bootstrap 5.0 CSS extension to customize your UI

Bootstrap Table

Using

extension to customize your UI

Only for Tableau Desktop

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Overview



Customize Your UI With CSS

Easily integrate the Indeed Aurora color palette

Set background colors, gradients, and partial transparency

Set border colors, thickness, style, and position

Set corner rounding sizes and position

Set shadow sizes and position

Control the layering of these CSS elements

Object Name|bg-aurora-brand-blue

Object Name|border border-3

Object Name|rounded-20 bg-black

Object Name|shadow bg-aurora-gray-3

Object Name|rounded-5 bg-aurora-green-8 shadow border border-4

Object Name|rounded-top-50 bg-aurora-aqua-4 shadow border-bottom border-4 border-aurora-aqua-9

Object Name|rounded-end-10 bg-aurora-earth-7 shadow border border-2 border-white

Object Name|rounded-top-start-40 bg-aurora-orange-3 shadow-lg border-bottom border-end border-5 border-dark

Object Name|rounded-pill bg-aurora-gray-3 border border-3 border-aurora-brand-blue

Object Name|rounded-circle bg-aurora-ink-blue

Object Name|gradient-bg-dark

Object Name|border-dotted border-2 border-aurora-green-5 bg-aurora-gray-3

Object Name|preset-r20-sh-bgw-z1

Object Name|rounded-end-10 bg-aurora-purple-2 border-start border-5 border-aurora-purple-7

Examples of Styles Used In Combos

HEADER

HEADER

HEADER

HEADER

KPI 1

KPI 1

KPI 1

KPI 1

KPI 2

KPI 2

KPI 2

KPI 2

**Examples of
Styles Used
In Combos**

HEADER

Topic 1

Topic 2

Topic 3

Topic 4

Topic 5

Topic 6

HEADER

Topic 1

Topic 2

Topic 2

Topic 2

Topic 2

Topic 2

Examples of
Styles Used
In Combos

Dashboard Header Here

[Link 1](#)[Link 2](#)[Link 3](#)[Link 4](#)[Link 5](#)

Category

- ☒ (All)
- ☒ Fruit
- ☒ Meat
- ☒ Nuts
- ☒ Vegetable

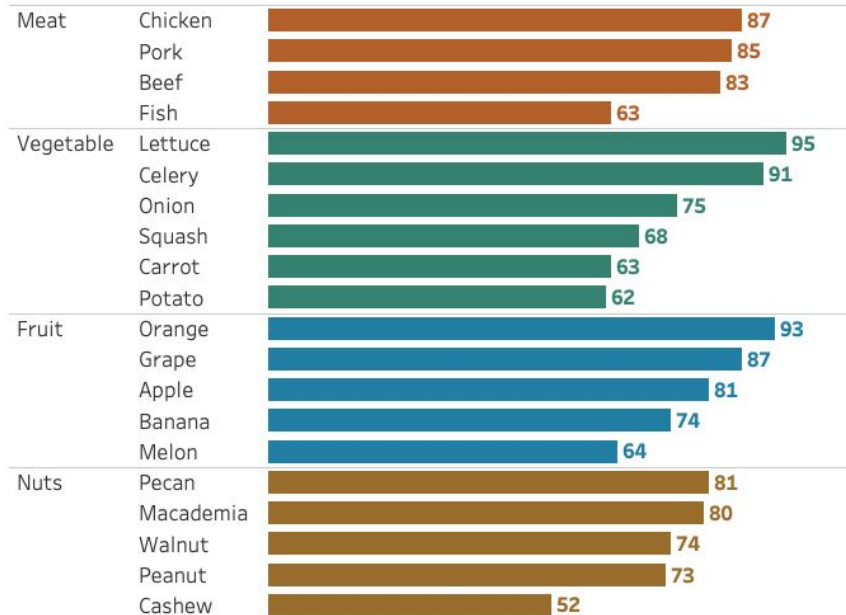
Item

Category

- Meat
- Vegetable
- Fruit
- Nuts

Some other information explaining this thing.

Quantities sold in July.



Before

Dashboard Header Here

[Link 1](#)[Link 2](#)[Link 3](#)[Link 4](#)[Link 5](#)

Category

- ☒ (All)
- ☒ Fruit
- ☒ Meat
- ☒ Nuts
- ☒ Vegetable

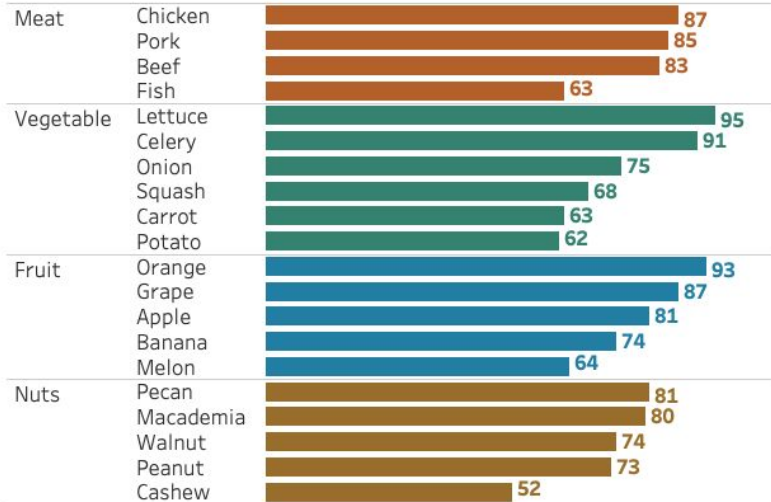
Item

Category

- Meat
- Vegetable
- Fruit
- Nuts

Some other information explaining this thing.

Quantities sold in July.



After

Cost

1

Total Cost Per Visit

2.7
Prior: 4.4
-33% ▼ (-1.6)



Office Average: 3.1
-7% ▼ (-0.4)
Portfolio Average: 2.2
10% ▲ (0.5)



Office Utilization

1

Peak Utilization

1.6
Prior: 2.1
-10% ▼ (-0.5)



Office Average: 1.5
1% ▲ (0.1)

Portfolio Average: 1.4
3% ▲ (0.2)



Utilization Variance

1.7
Prior: 1.1
12% ▲ (0.6)



Office Average: 1.7
1% ▲ (0.1)

Portfolio Average: 2.8
-21% ▼ (-1.1)



Utilization vs F&B Planning

4.6
Prior:



Office Average: 4.6
► (0.0)

Portfolio Average: 4.2
8% ▲ (0.4)



Occupancy Level

2.7
Prior: 4.0
-26% ▼ (-1.3)



Office Average: 3.4
-13% ▼ (-0.7)

Portfolio Average: 2.1
12% ▲ (0.6)



Space Utilization

In Practice

Limitations Of The Extension

Can be finicky to control when used on long dashboards

Always underlies Tableau content (always bottom layer)

Doesn't respond to show/hide toggles (persistent display)

Not customizable on-the-fly

Setting Up the Extension



1

Download the **tabcssIndeed.trex** extension file from github.com/nbookman/BootstrapTableau/tree/main

2

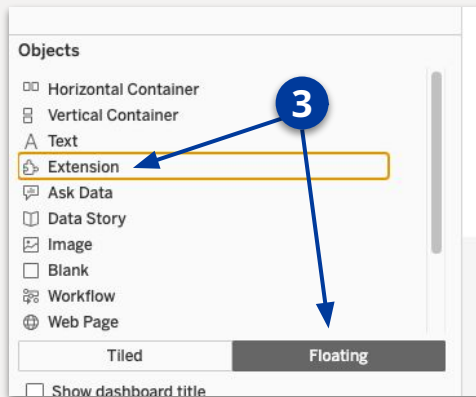
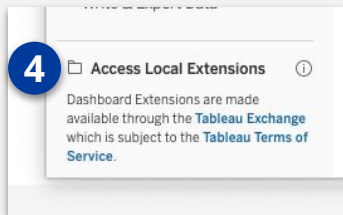
Place the file in the “Extensions” folder within your “My Tableau Repository” folder (probably in Documents)

3

Drag a *Floating* **Extension** container onto your dashboard

4

Click “Access Local Extensions” and select the file in the folder, then click “OK” on the popup



Install On Your Local Machine

DashboardLayout

Device Preview

SizeDesktop Browser (1000 x 800)

Sheets

- Profit WoW
- Quantity by Region
- Profit by Region
- Quantity by Buyer

Objects

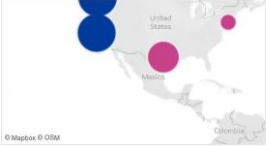
- Horizontal Container
- Vertical Container
- Text
- Extension
- Ask Data
- Data Story
- Image
- Blank
- Workflow
- Web Page

TiledFloating

Show dashboard title

Tableau - Tableau CSS Extension Demo

Quantities sold by location



Total profit this week


\$21.20

-54.3%▼

Week-over-Week

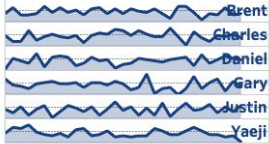
Percent of total profit by region

Central & East Coast45%



West Coast55%

Daily quantities by buyer



Extension container

DashboardLayout

Device Preview

SizeDesktop Browser (1000 x 800)

Sheets

- Profit WoW
- Quantity by Region
- Profit by Region
- Quantity by Buyer

Objects

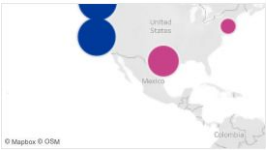
- Horizontal Container
- Vertical Container
- Text
- Extension
- Ask Data
- Data Story
- Image
- Blank
- Workflow
- Web Page

TiledFloating

Show dashboard title

Tableau - Tableau CSS Extension Demo

Quantities sold by location



Total profit this week


\$21.20

-54.3%▼

Week-over-Week

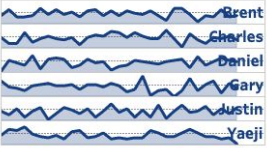
Percent of total profit by region

Central & East Coast45%



West Coast55%

Daily quantities by buyer



Select Floating Order, Send to Back

Reset Permissions

About...

Reload

Add Show/Hide Button

✓ Floating

Floating Order

Deselect

Remove from Dashboard

Copy Dashboard Item

Rename Dashboard Item...

Bring to Front

Bring Forward

Send to Back

Send Backward

Tableau - Tableau CSS Extension Demo

Dashboard

Layout

Selected item
TabCSSIndeed

☐ Show title

☒ Floating

☐ Control visibility using value

Position

x y

0 0

Size

w h

1,000 800

Border

None

Background

None

Outer Padding

0 0 0 0

Inner Padding

0 0 0 0

Item hierarchy

- Horizontal Container[bg-a...
- Horizontal Container
 - Blank
 - Vertical Container
 - Blank
 - Quantity by Region
 - Blank
 - Profit by Region
 - Blank
 - Blank
 - Vertical Container
 - Blank
- TabCSSIndeed

Quantities sold by location

Total profit this week

\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region

Central & East Coast 45%

West Coast 55%

Daily quantities by buyer

Brent
Charles
Daniel
Gary
Justin
Yaeji

Set the extension *Position* values to $x=0$ and $y=0$

and set the *Size* values to the same as the dashboard

Tableau - Tableau CSS Extension Demo

Dashboard Layout

Selected item
Horizontal Container

☐ Show title

☒ Floating

☐ Control visibility using value

Position
x: 59 y: 36

Size
w: 776 h: 614

Border
None

Background
None

Outer Padding
0 0 0 0


Inner Padding
0 0 0 0

Item hierarchy

- Horizontal Container
 - Horizontal Container
 - Blank
 - Vertical Container
 - Blank
 - Quantity by Region
 - Blank
 - Profit by Region
 - Blank
 - Blank
 - Vertical Container
 - Blank

TabCSSIndeed

Quantities sold by location




Total profit this week

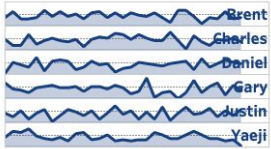
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region



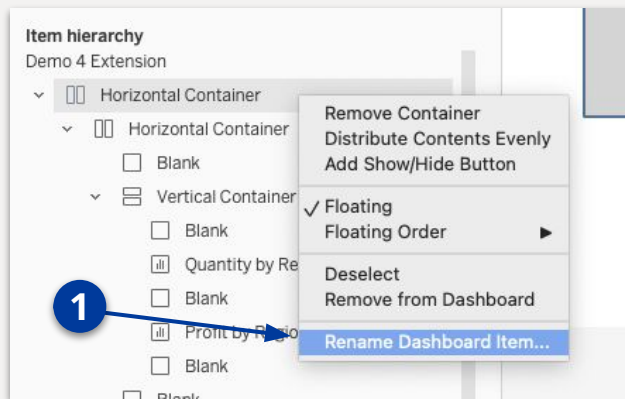
Daily quantities by buyer



Remove any border or background settings applied natively in Tableau where you intend to use the extension

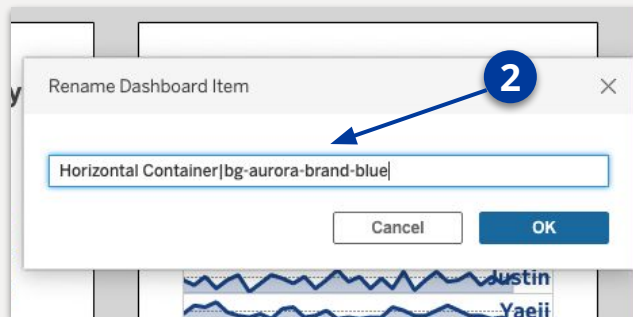
1

Right click on the container you want to modify and select "Rename Dashboard Item"



2

Add a pipe ("|") immediately after the object name, followed immediately by the style codes used*, separated by spaces



Change The Object Name To Control CSS Styles

*Reference the list of available style codes in the **main.css** file at github.com/nbookman/BootstrapTableau/blob/main/src/css

Tableau - Tableau CSS Extension Demo

Dashboard Layout

Selected item
Horizontal Container[bg-aurora-brand-blue]

☐ Show title

☒ Floating

☐ Control visibility using value

Position
x y
59 36

Size
w h
776 614

Border
None

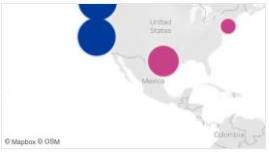
Background
None

Outer Padding
0 0 0 0

Inner Padding
0 0 0 0

Item hierarchy
Demo 4 Extension
Horizontal Container[bg-a...
Horizontal Container
Blank
Vertical Container
Blank
Quantity by Region
Blank
Profit by Region
Blank
Blank
Vertical Container
Blank

Quantities sold by location




Total profit this week

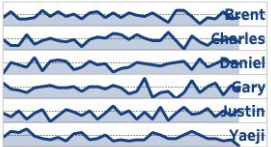
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region



Daily quantities by buyer



Container styled using the extension

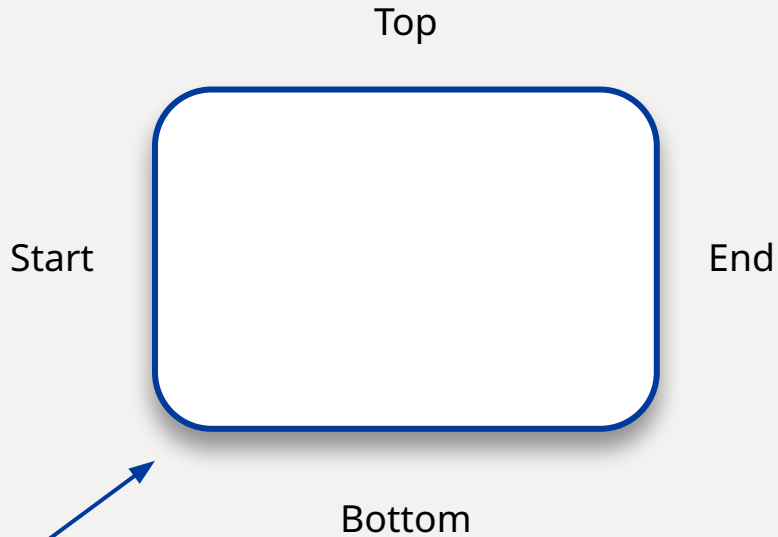
Using the Extension



.bg-black	.rounded-5
.bg-white	.rounded-10
.bg-black-o25 (25% opacity)	.rounded-20
.bg-white-o25 (25% opacity)	.shadow
.bg-aurora-ink-blue	.bg-gradient-end
.bg-aurora-brand-blue	.border-top
.bg-aurora-a11y-blue	.border-bottom
.bg-aurora-magenta-10	.rounded-top-30
.bg-aurora-green-10	.rounded-top-end-40
.bg-aurora-aqua-10	.z-1
.border-2	.z-2
.border-3	.z-3
.border-aurora-earth-7	
.border-aurora-purple-4	

Object Name | **bg-white border-3 border-aurora-brand-blue shadow z-1**

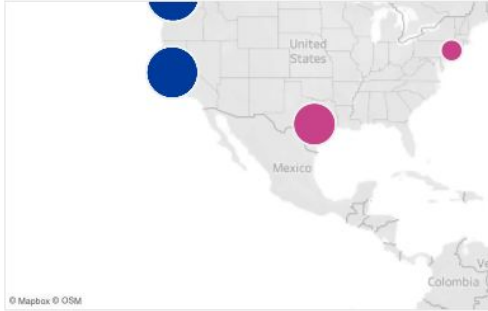
Example Style Codes



|bg-white border-3 border-aurora-brand-blue shadow rounded-20

Positional Settings

Quantities sold by location

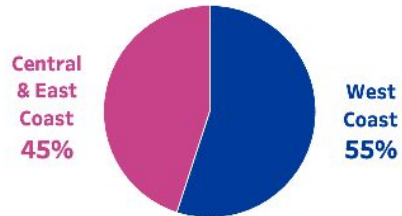


Total profit this week

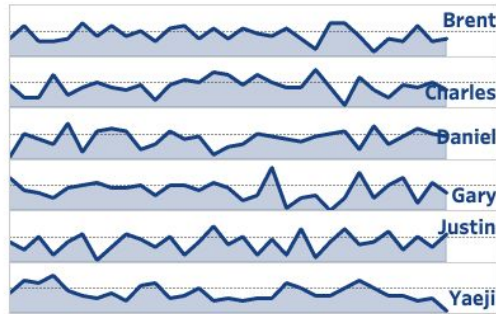
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region

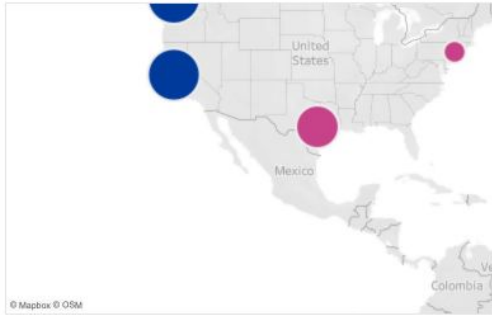


Daily quantities by buyer



Setting
Colors

Quantities sold by location



Total profit this week

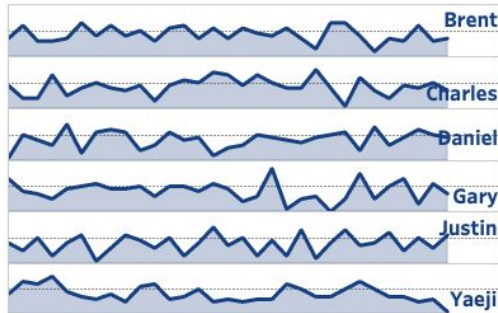
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region



Daily quantities by buyer



**Setting
Borders**

Quantities sold by location

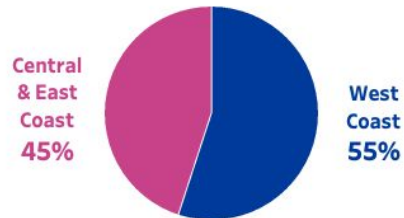


Total profit this week

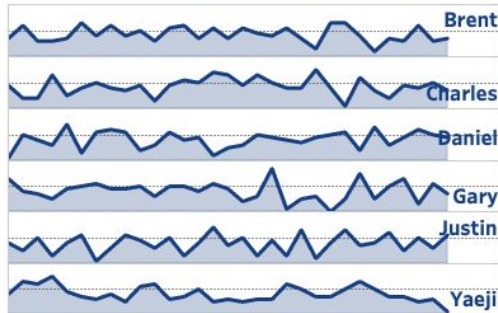
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region

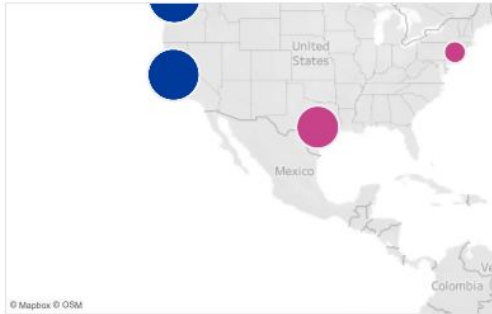


Daily quantities by buyer



Setting Rounding

Quantities sold by location

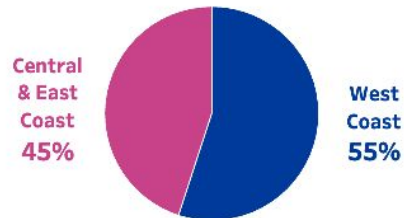


Total profit this week

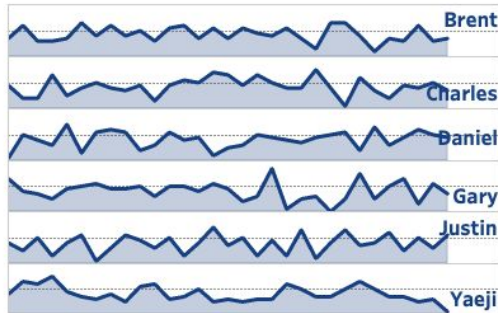
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region



Daily quantities by buyer



Setting Shadows & Rounding

Quantities sold by location

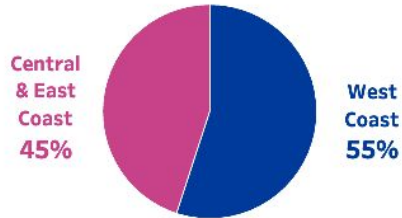


Total profit this week

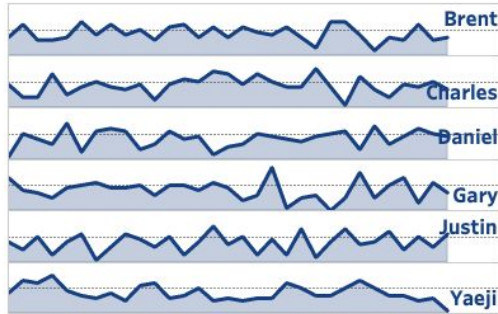
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region



Daily quantities by buyer



**Setting
Color,
Borders, &
Rounding**

Object Name|bg-aurora-brand-blue

Object Name|border border-3

Object Name|rounded-20 bg-black

Object Name|shadow bg-aurora-gray-3

Object Name|rounded-5 bg-aurora-green-8 shadow border border-4

Object Name|rounded-top-50 bg-aurora-aqua-4 shadow border-bottom border-4 border-aurora-aqua-9

Object Name|rounded-end-10 bg-aurora-earth-7 shadow border border-2 border-white

Object Name|rounded-top-start-40 bg-aurora-orange-3 shadow-lg border-bottom border-end border-5 border-dark

Object Name|rounded-pill bg-aurora-gray-3 border border-3 border-aurora-brand-blue

Object Name|rounded-circle bg-aurora-ink-blue

Object Name|gradient-bg-dark

Object Name|border-dotted border-2 border-aurora-green-5 bg-aurora-gray-3

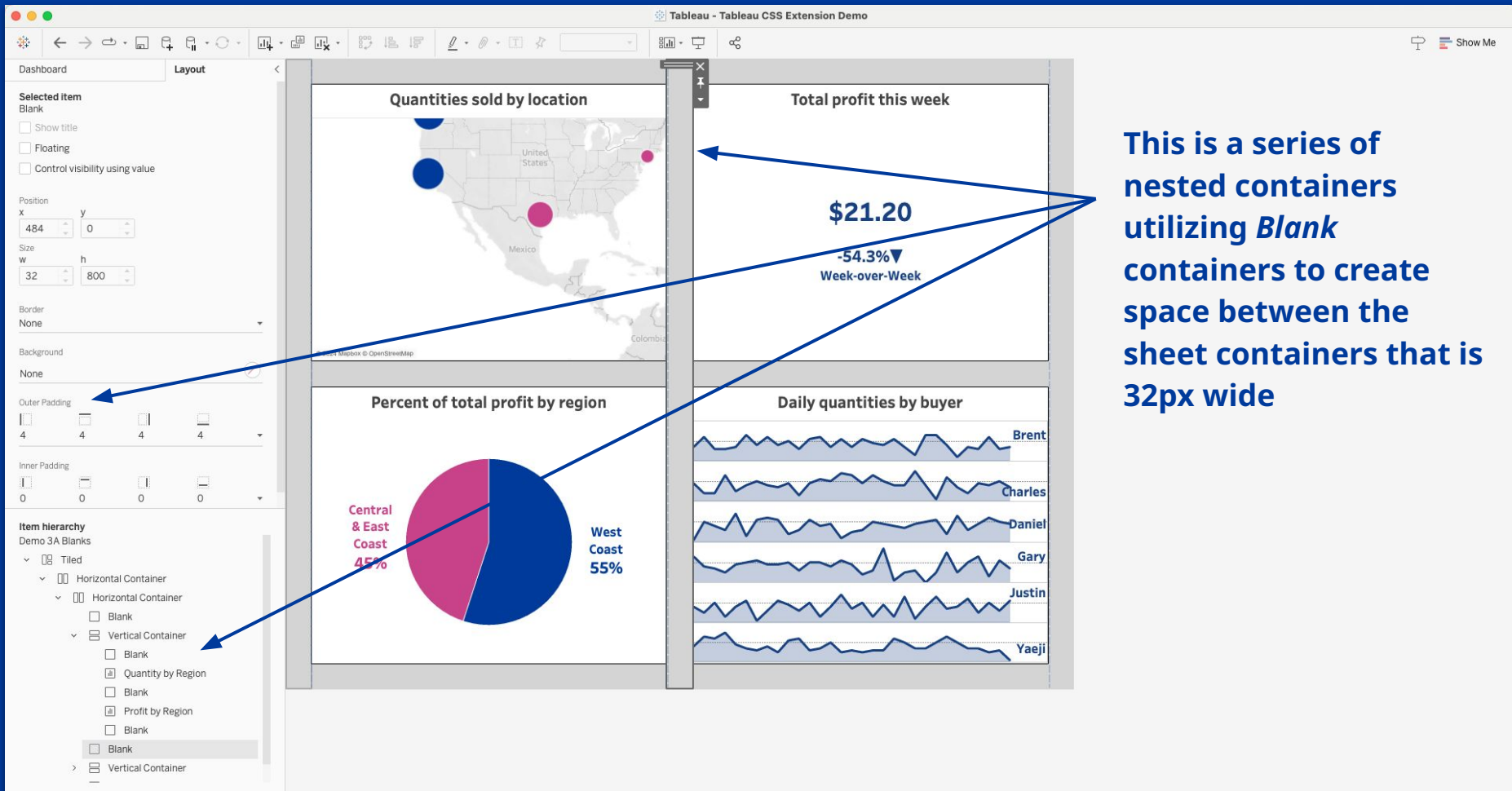
Object Name|preset-r20-sh-bgw-z1

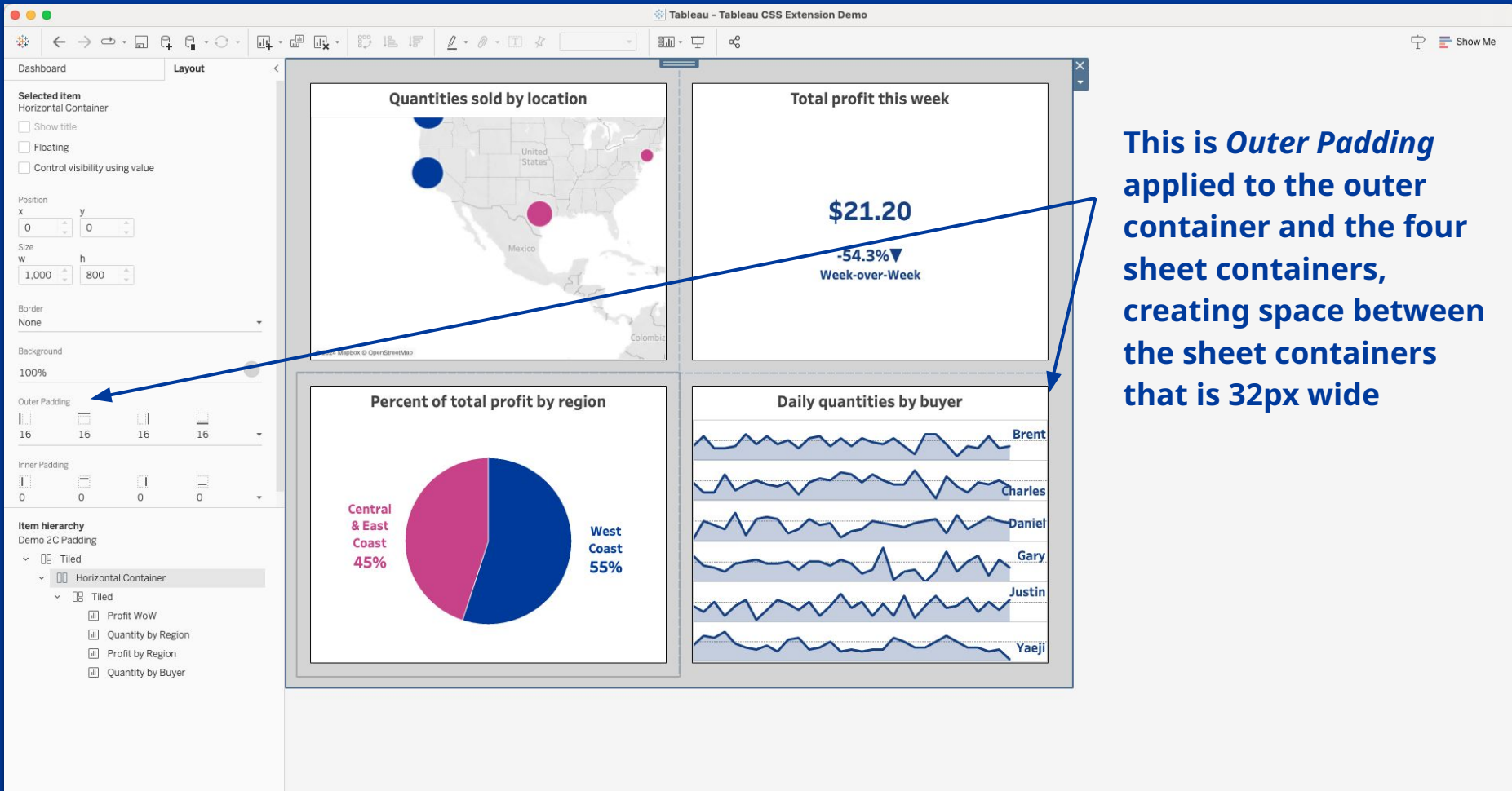
Object Name|rounded-end-10 bg-aurora-purple-2 border-start border-5 border-aurora-purple-7

Examples of Styles Used In Combos

A Word On Padding







Dashboard

Layout

Selected item

Demo 2D Padding 2C

Show title

Floating

Control visibility using value

Position

x

y

Size

w

h

1,000

800

Border

None

Background

None

Outer Padding

Inner Padding

Item hierarchy

Demo 2D Padding 2C

Horizontal Container

Tiled

Profit WoW|bg-aurora-mage...

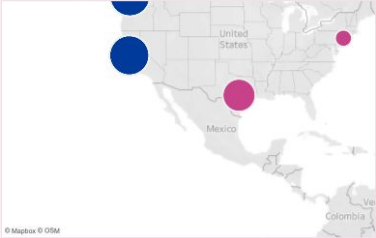
Quantity by Region|bg-aur...

Profit by Region|bg-auror...

Quantity by Buyer|bg-auro...

TabCSSIndeed

Quantities sold by location



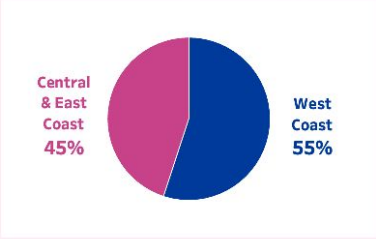
Total profit this week

\$21.20

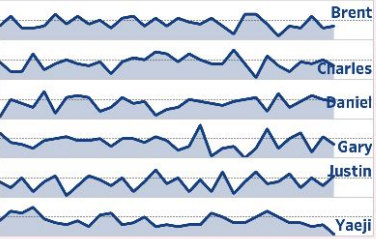
-54.3%▼

Week-over-Week

Percent of total profit by region



Daily quantities by buyer



This is what happens to *Outer Padding* when the CSS styles are applied; the outer padding is not recognized

Use blanks as spacers

Tips and Troubleshooting



Limitations Of The Extension

Can be finicky to control when used on long dashboards

Always underlies Tableau content (always bottom layer)

Doesn't respond to show/hide toggles (persistent display)

Not customizable on-the-fly

Quantities sold by location

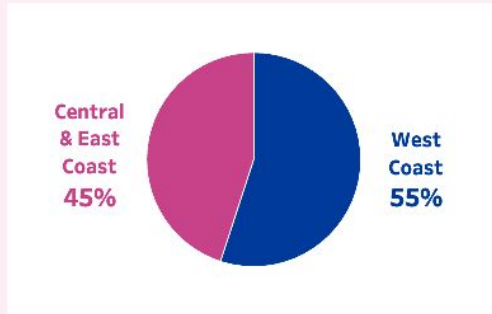


Total profit this week

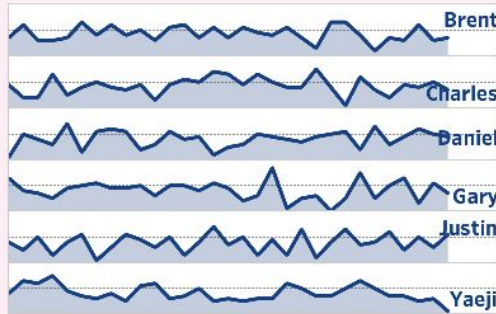
\$21.20

-54.3%▼
Week-over-Week

Percent of total profit by region



Daily quantities by buyer



The extension works by creating invisible HTML containers under the dashboard, then applying the CSS styles to those containers, rather than directly to the Tableau containers

Layer Control

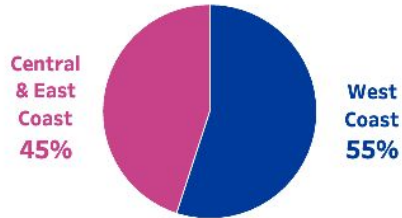
Quantities sold by location



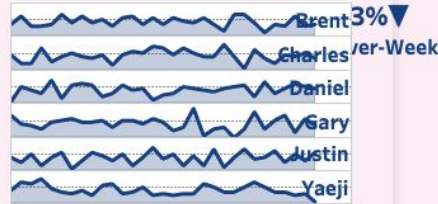
Total profit this week

As a result, the CSS elements can overlap each other, but will always underlie the native Tableau contents

Percent of total profit by region



Daily quantities by buyer



Layer Control

Quantities sold by location

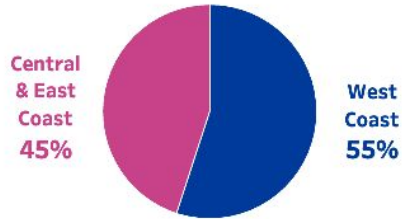


z-3

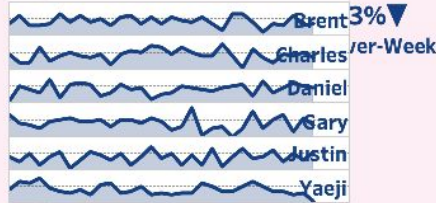
Total profit this week

z-1

Percent of total profit by region



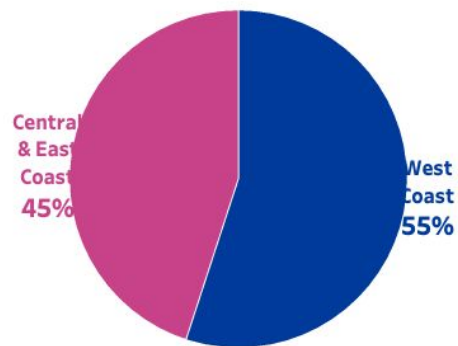
Daily quantities by buyer



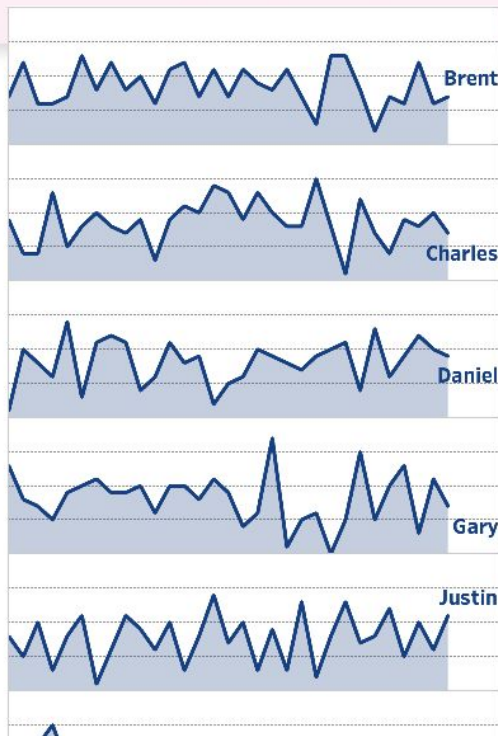
Use z-index to control the layering of the CSS elements; the higher the number, e.g., z-3 vs z-1, the closer to the front/top layer (again, this all sits beneath the Tableau contents)

Layer Control

Percent of total profit by region

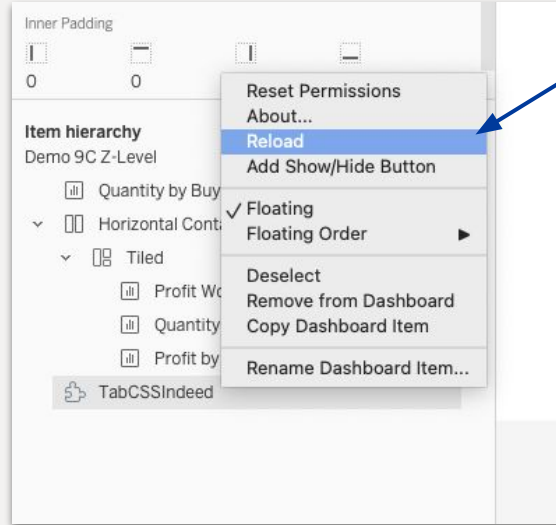


Daily quantities by buyer



Sometimes, the CSS elements can mis-load their position when activated while the dashboard is scrolled to the bottom

Alignment Control



If this happens, scroll to the top of the dashboard, then right-click the extension and select *Reload*

Alignment Control



Total profit this week

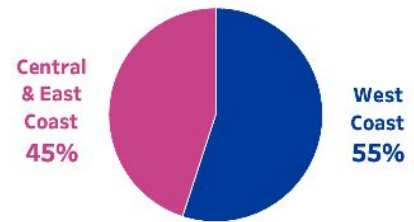
\$21.20

-54.3%▼
Week-over-Week

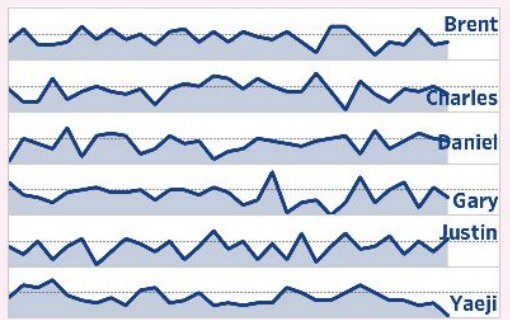


Because the extension loads once at the same time the page loads, it doesn't respond to show/hide toggles

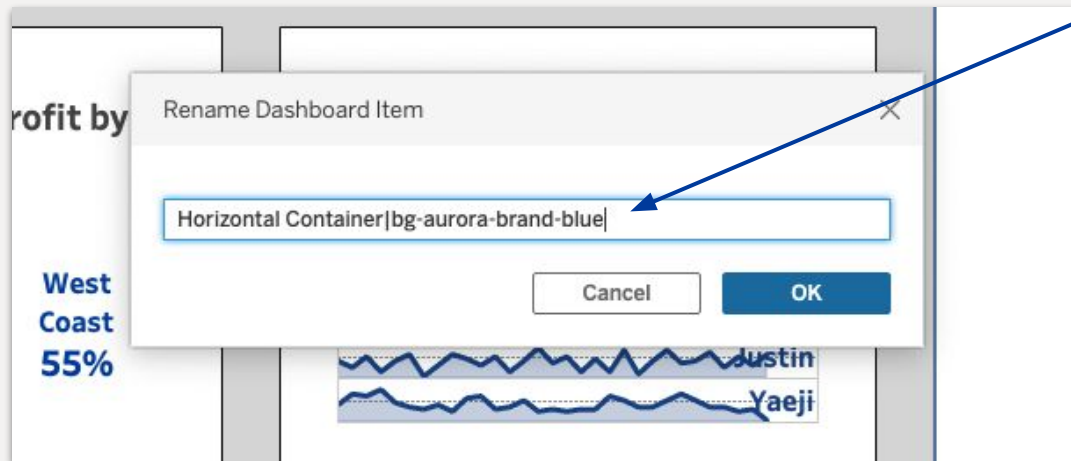
Percent of total profit by region



Daily quantities by buyer



Visibility Control



The available style codes are fixed in the main.css file and can not be dynamically changed or combined

Also, object names can't be dynamically changed by actions, parameters, or filters

Style Control

Thank You



**Got Thoughts?
Let's Chat.**



Nic Bookman

Senior Workplace Data Analyst
Real Estate

 **@nbookman**

Appendix



Primary		Gray	Green	Aqua	Blue	Purple	Magenta	Orange	Earth	Status		Status	Skin Tones	
Ink Blue #001C40	G100	#2D2D2D	#19332D	#123141	#0D2D5E	#2C2071	#4F1C36	#462615	#3D2B12	G100	#358271	#358271	#C99A83	#A27A50
	G90	#424242	#234840	#1D465C	#164081	#3F2F9B	#74234E	#623721	#553D1C	G90	#E0A961	#C08A38	#DFAE95	#866251
	G80	#595959	#2B6256	#1F5F7B	#2557A7	#5644BF	#9D2B6B	#89471E	#735324	G80	#A9252B	#A9252B	#EEC3A9	#AB8672
Charts/Viz	G70	#767676	#358271	#237EA3	#3F73D3	#7461E7	#C74289	#B4602B	#996E2C	G70	On Light Background	On Dark Background	#F0D8C7	#C7A28F
	G60	#949494	#4CA38F	#409EC8	#6792F0	#9288EE	#E867A8	#DF7838	#C08A38	G60	Button	Button	#F5DFCB	#E0C2B1
	G50	#B4B2B1	#7BC0AE	#7ABBDf	#9BB1F0	#B1ABF4	#EE99BF	#F39E78	#E0A961	G50		Default	#3F73D3	#4A3730
	G40	#D4D2D0	#B9DAD0	#B6D7EE	#C7D2F6	#D2CEF6	#F3C7D9	#F7C8B8	#F5CB9D	G40		Hover	#2557A7	#675043
	G30	#E4E2E0	#CDE8E1	#CDE6F9	#DBE2FD	#E2E0FD	#F9DAE8	#F9DDD3	#F9DEC5	G30		Pressed	#164081	#724222
#E0A961	G20	#F3F2F1	#E6F5F1	#E8F3FC	#EEF1FE	#F2F1FE	#FCEEf4	#FCEfEB	#FCF0E6	G20		On Light Background	On Dark Background	#834E2A
	G10	#FAF9F8	#F5FBF9	#F5FAFE	#F8F9FE	#F9F9FE	#FDF8FA	#FEF8F7	#FEF8F4	G10			#996334	#66361C