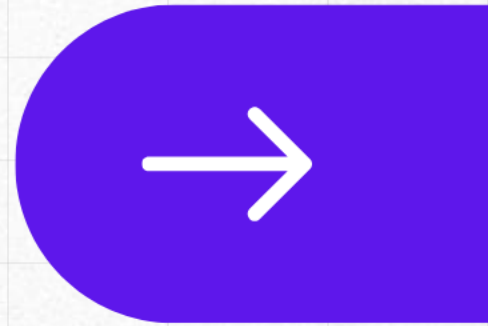


SVG in Power BI



Mina Saad

Agenda



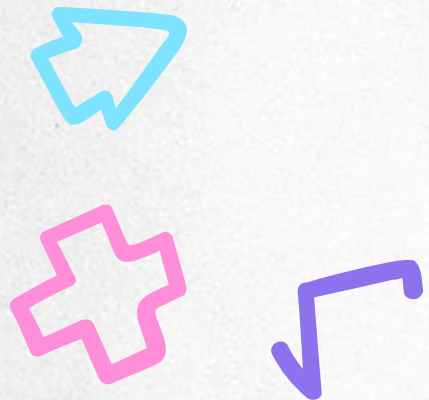
What is SVG Code?



Why Use SVG in Power BI?



How to Implement SVG in Power BI?



What is
SVG Code?

What is SVG Code?

SVG

Scalable Vector Graphics

**XML-based markup language designed
to describe two-dimensional graphics**

SVG

Scalable Vector Graphics

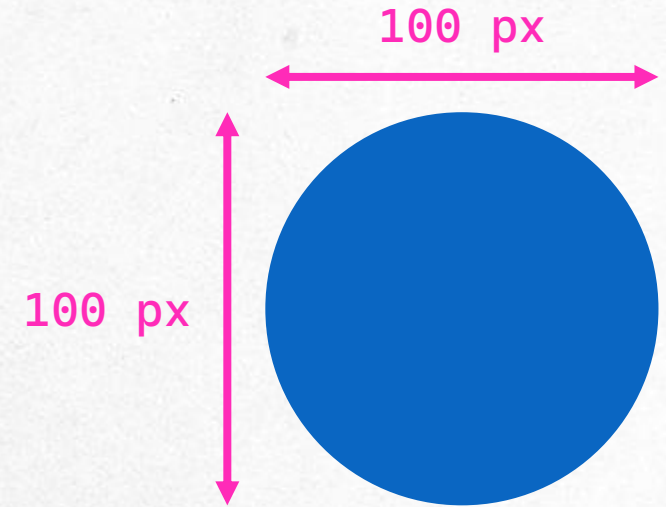


```
<svg fill="#000000" height="800px" width="800px" version="1.1" id="Capa_1"
xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" viewBox="0 0 22.773
22.773" xml:space="preserve">
  <g>
    <g>
      <path d="M15.769,0c0.053,0,0.106,0,0.162,0c0.13,1.606-0.483,2.806-1.228,3.675c-0.731,0.863-
1.732,1.7-3.351,1.573
                                c-0.108-1.583,0.506-2.694,1.25-
3.561C13.292,0.879,14.557,0.16,15.769,0z" />
      <path d="M20.67,16.716c0,0.016,0,0.03,0,0.045c-0.455,1.378-1.104,2.559-1.896,3.655c-
0.723,0.995-1.609,2.334-3.191,2.334
                                c-1.367,0-2.275-0.879-3.676-0.903c-1.482-0.024-
2.297,0.735-3.652,0.926c-0.155,0-0.31,0-0.462,0
                                c-0.995-0.144-1.798-0.932-2.383-1.642c-1.725-2.098-3.058-
4.808-3.306-8.276c0-0.34,0-0.679,0-1.019
                                c0.105-2.482,1.311-4.5,2.914-5.478c0.846-0.52,2.009-
0.963,3.304-0.765c0.555,0.086,1.122,0.276,1.619,0.464
                                c0.471,0.181,1.06,0.502,1.618,0.485c0.378-0.011,0.754-
0.208,1.135-0.347c1.116-0.403,2.21-0.865,3.652-0.648
                                c1.733,0.262,2.963,1.032,3.723,2.22c-1.466,0.933-
2.625,2.339-2.427,4.74C17.818,14.688,19.086,15.964,20.67,16.716z" />
    </g>
  </g>
</svg>
```

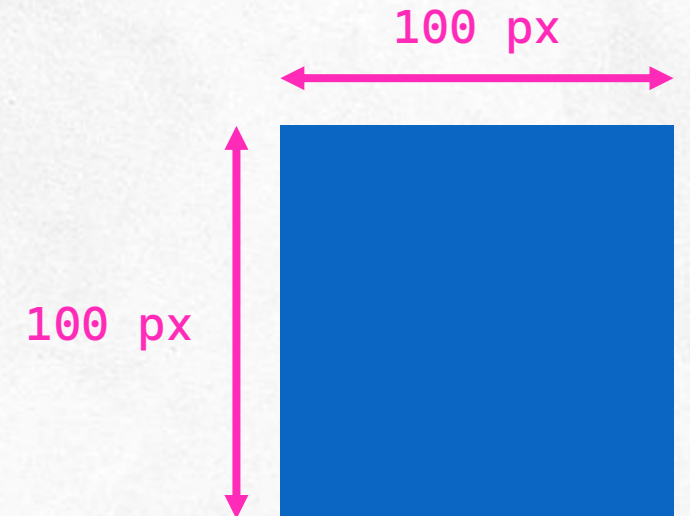
SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<circle cx="50" cy="50" r="50" fill="blue" />  
</svg>
```



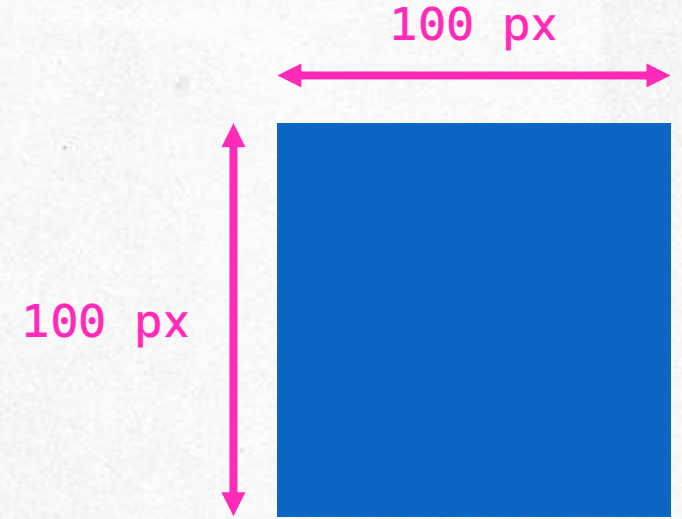
```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



<svg

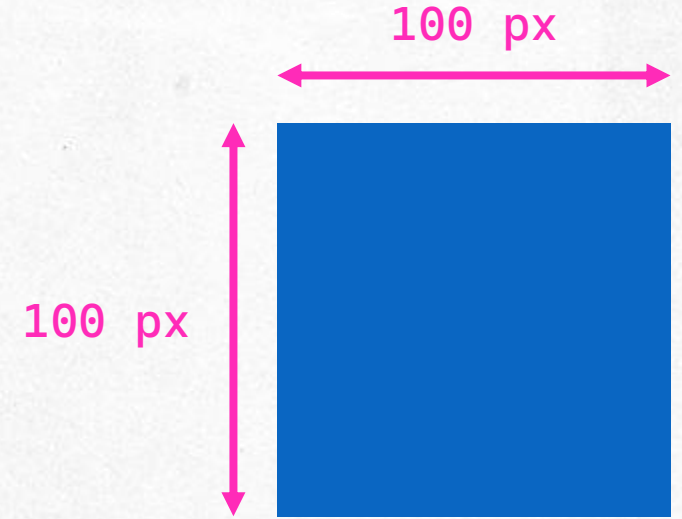
</svg>

A diagram showing the opening and closing tags of an SVG element. A green line starts from the opening tag '<svg' and ends with an arrow pointing to the closing tag '</svg>'. The tags are written in pink.

SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



<svg

width="100" height="100"

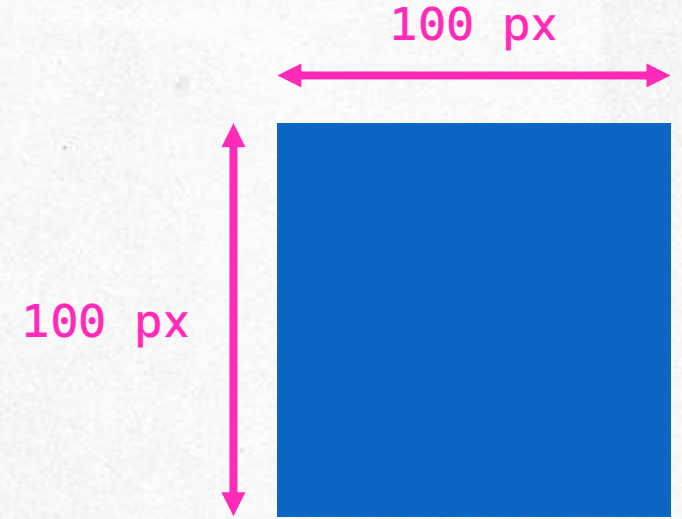
</svg>

Canvas Size

SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



<svg

width="100" height="100"

xmlns="http://www.w3.org/2000/svg">

</svg>

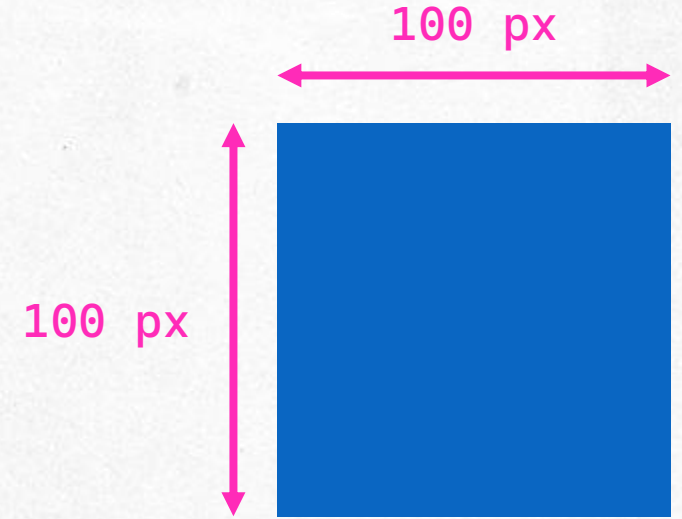
XML namespace for SVG



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



<svg

width="100" height="100"

xmlns="http://www.w3.org/2000/svg">

<rect



Shape

</svg>

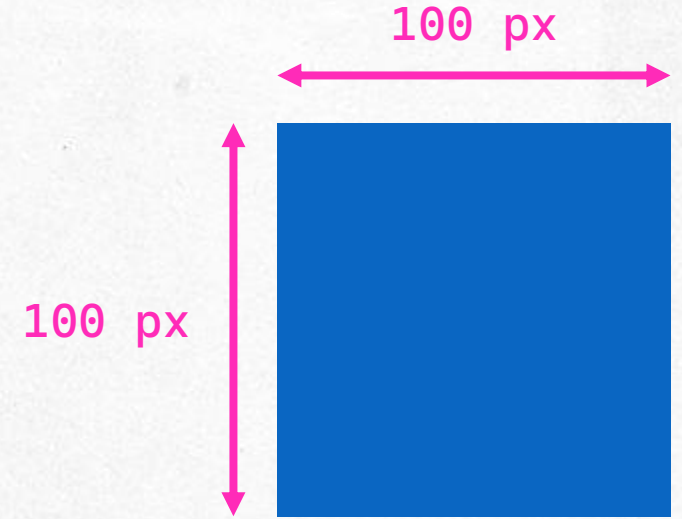
Canvas Size



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



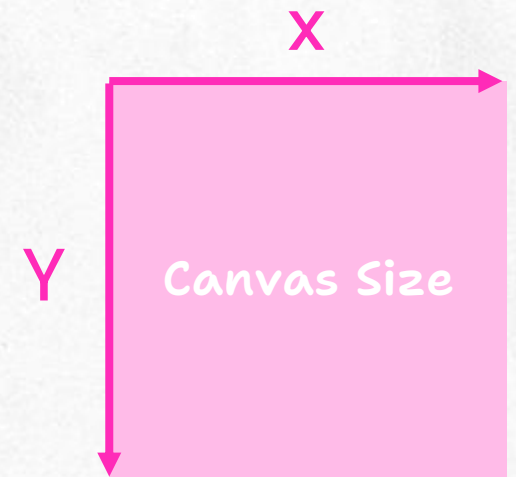
<svg

width="100" height="100"

xmlns="http://www.w3.org/2000/svg">

<rect x="0" ← X-coordinate

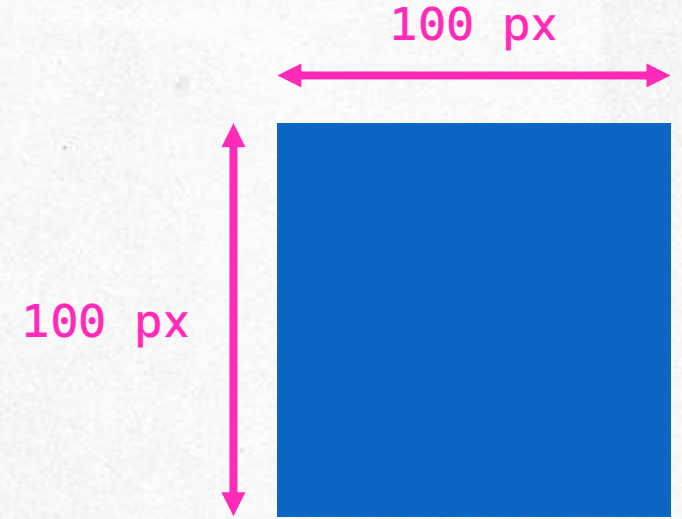
</svg>



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



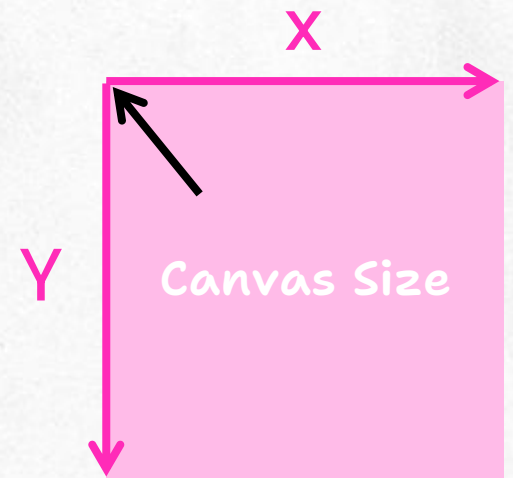
<svg

width="100" height="100"

xmlns="http://www.w3.org/2000/svg">

<rect x="0" y="0" ← Y-coordinate

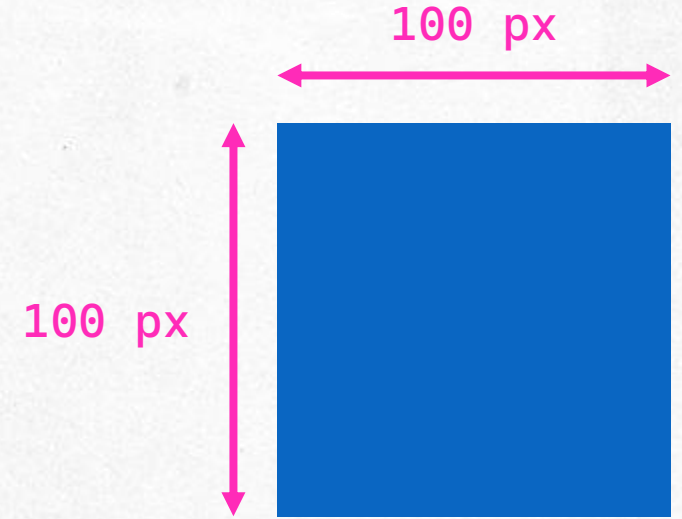
</svg>



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



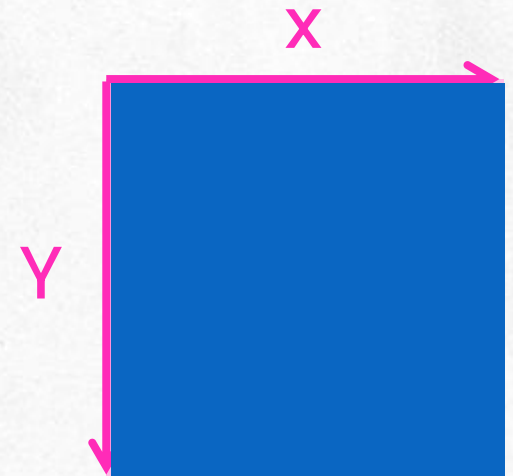
<svg

width="100" height="100"

xmlns="http://www.w3.org/2000/svg">

<rect x="0" y="0" width="100" height="100" fill="blue"

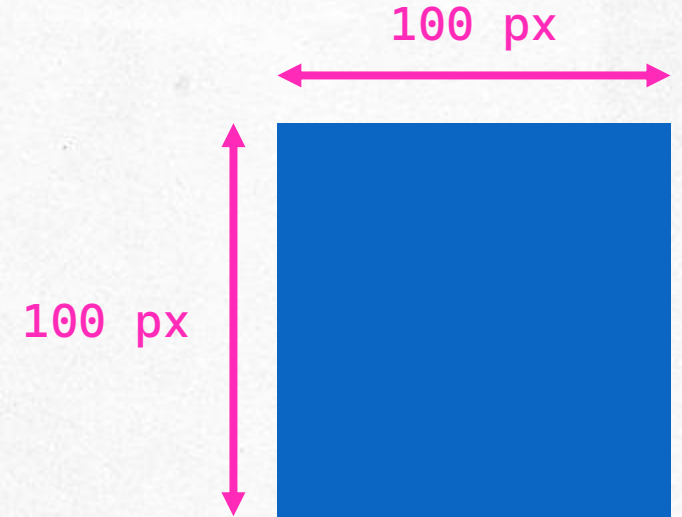
</svg>



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue" />  
</svg>
```



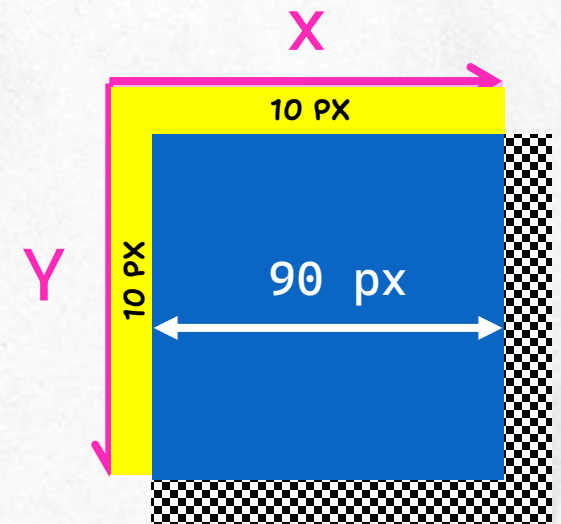
<svg

width="100" height="100"

xmlns="http://www.w3.org/2000/svg">

<rect x="10" y="10" width="100" height="100" fill="blue"

</svg>



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue"  
rx="10" ry="10"  
</svg>
```



SVG

Scalable Vector Graphics

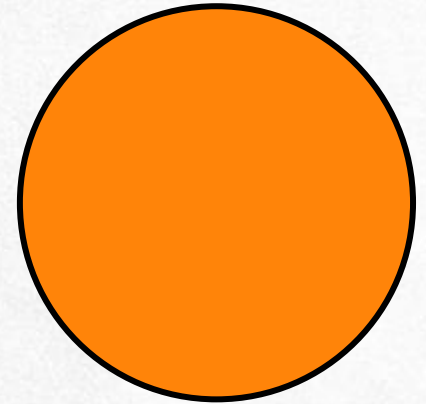
```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
<rect x="0" y="0" width="100" height="100" fill="blue"  
fill-opacity="0.5" stroke="black" stroke-width="3"/>  
</svg>
```



SVG

Scalable Vector Graphics

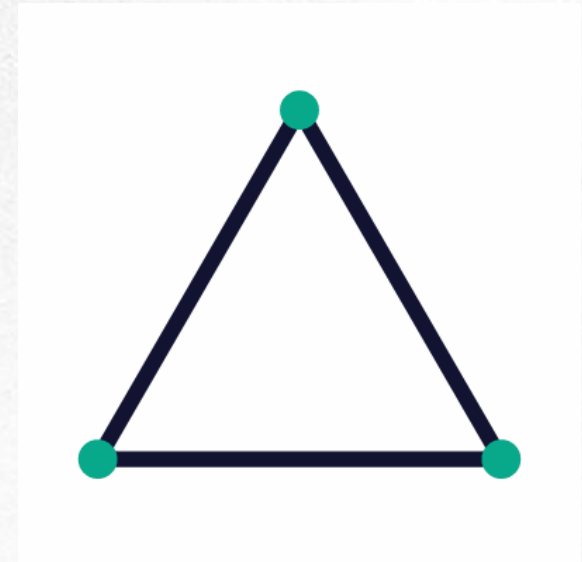
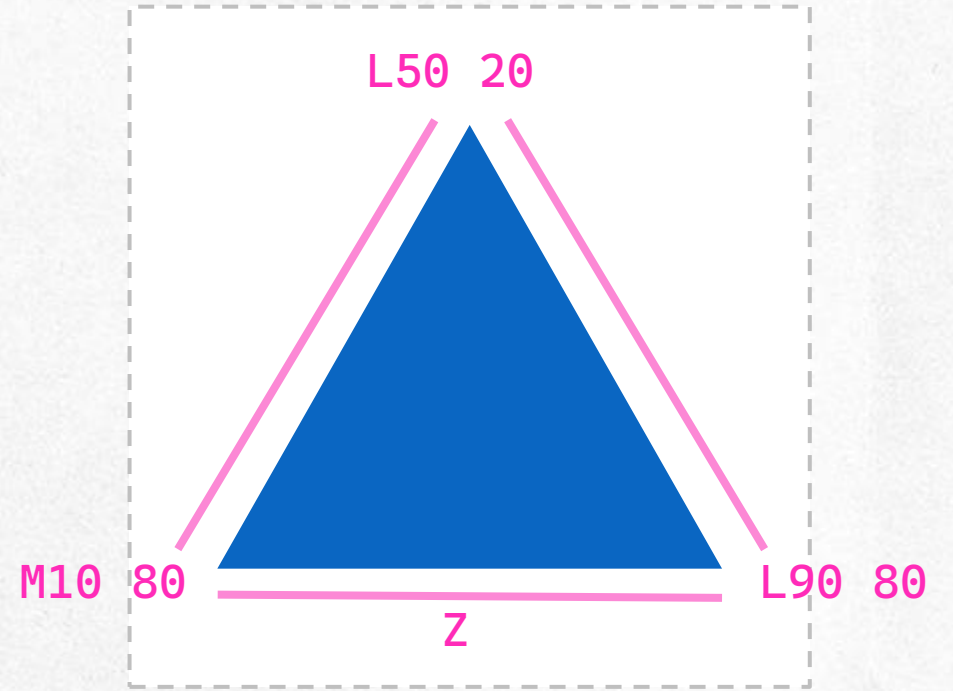
```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
  
<circle cx="50" cy="50" r="40"  
fill="orange" stroke="black" stroke-width="2"/>  
  
</svg>
```



SVG

Scalable Vector Graphics

```
<svg  
width="100" height="100"  
xmlns="http://www.w3.org/2000/svg">  
  
<path d="M10 80 L50 20 L90 80 Z" fill="blue"/>  
  
</svg>
```



SVG

Scalable Vector Graphics

How to use it in



Power BI

"

`data:image/svg+xml;utf8`



encode the SVG as a data URL

`<svg`

`width='100' height='100'`



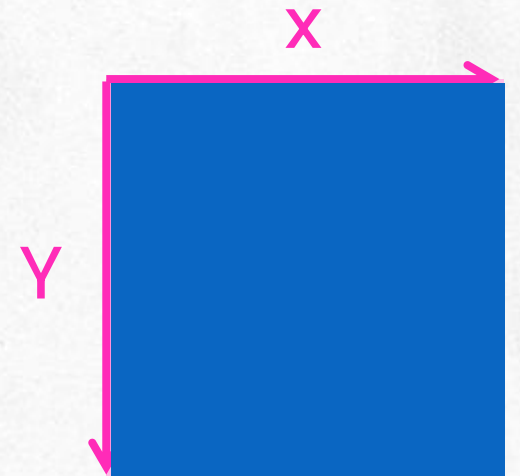
'instead of'

`xmlns='http://www.w3.org/2000/svg'>`

`<rect x='0' y='0' width='100' height='100' fill='blue'`

`</svg>`

"



Why Use SVG
in Power BI?

Why Use SVG in Power BI?

Conditional Formatting

Dynamically adjusts visual properties based on data

Branding and Theming

Ensures consistent style across reports










Enhanced Data Visualization

Expands visualization capabilities beyond Native Power BI Visuals

Custom Icons and KPIs

Provides instant data change reflection in visuals

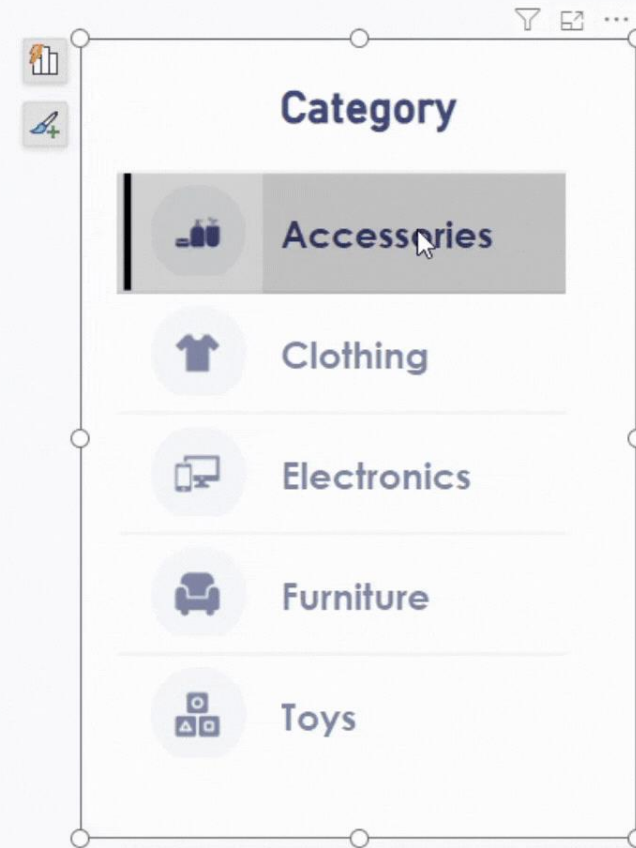
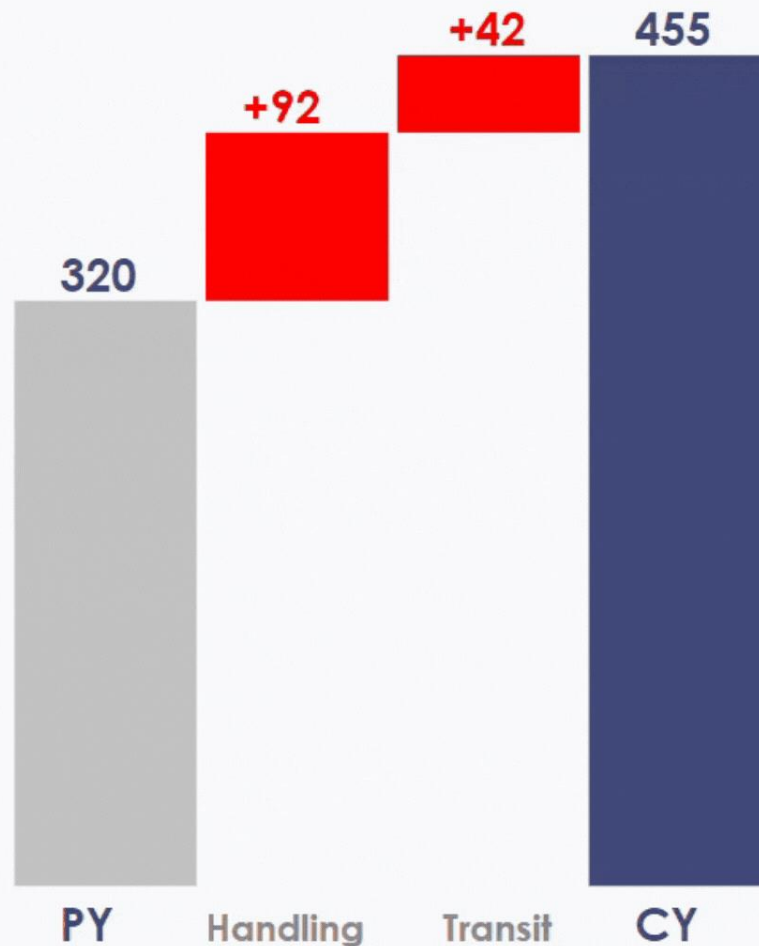
Examples of SVG in Power BI

Supplier Name	Value
Rhodes	 \$992,285
Perry	 \$377,546
Mann	 \$463,083
Williams	 \$367,272
Gilbertaz	 \$231,609
Short	 \$641,510
Stewart	 \$281,509

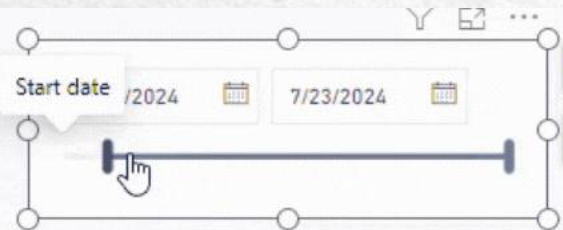
Examples of SVG in Power BI



Examples of SVG in Power BI

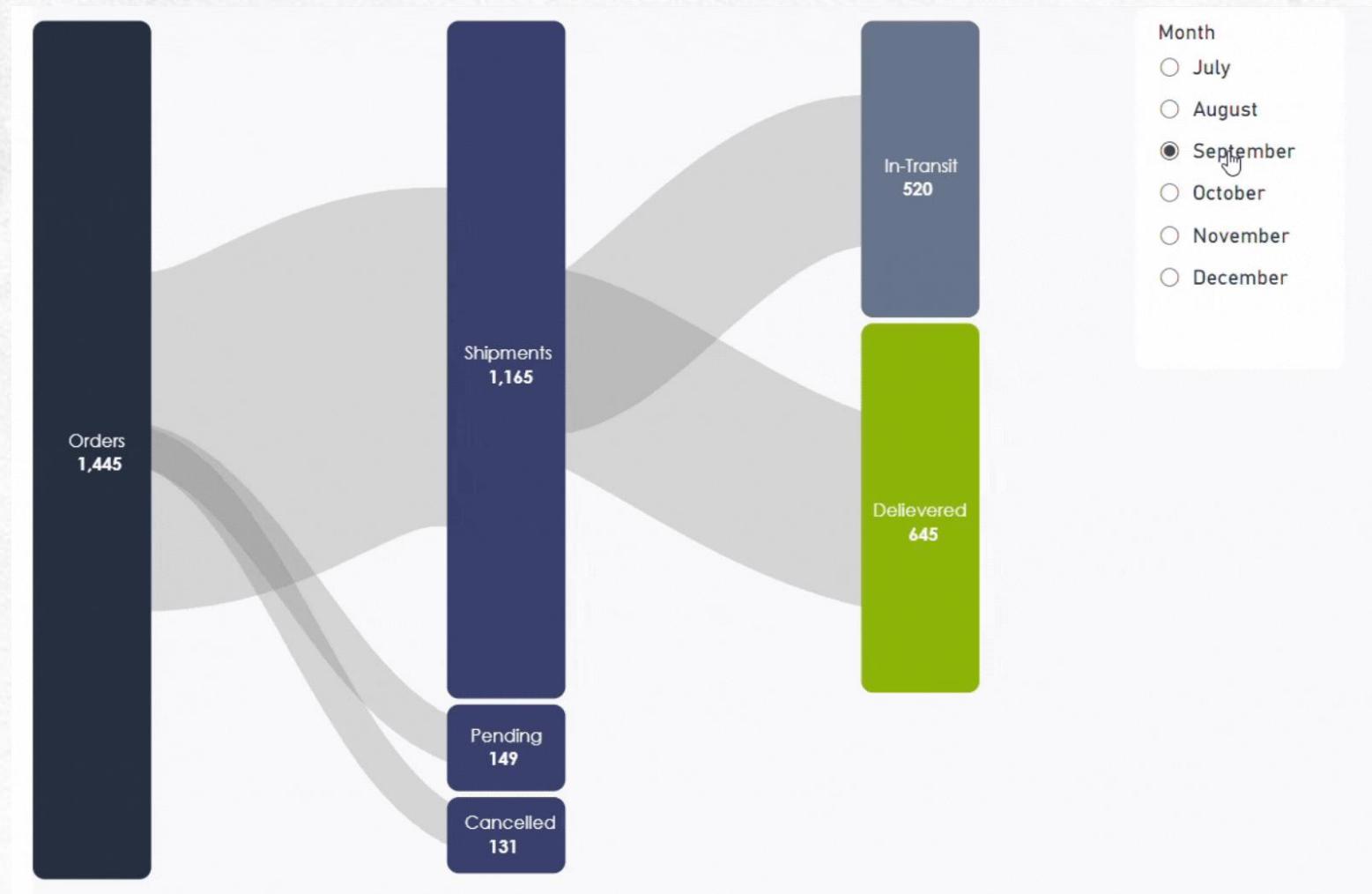


Examples of SVG in Power BI



Order ID	Order Value	Cost	Order Status	Category	Supplier Country ▶ Customer Country
0010dd	\$6,966	\$2,100	Cancelled	Furniture	Netherlands ● Rail ▶ Czech
001a5a	\$4,188	\$2,176	Pending	Toys	Mali ● Road ▶ Kazakhstan
00a0a7	\$16,526	\$2,693	Cancelled	Electronics	Mali ● Rail ▶ Malta
0198ae	\$5,773	\$2,329	Pending	Clothing	Dominica ● Sea ▶ Nauru
01998e	\$32,870	\$3,015	Pending	Electronics	Dominica ● Road ▶ Malta
01c567	\$1,641	\$37,153	Pending	Accessories	Puerto Rico ● Air ▶ Jersey
01fd81	\$4,172	\$2,753	Pending	Furniture	Netherlands ● Sea ▶ UAE
0523af	\$26,977	\$2,857	Pending	Toys	Saint Lucia ● Rail ▶ Turkmenistan
0586f8	\$26,217	\$3,858	Pending	Accessories	Burundi ● Road ▶ Romania
05e810	\$12,323	\$15,294	Cancelled	Toys	Micronesia ● Air ▶ Peru
0754db	\$2,695	\$4,216	Pending	Electronics	Puerto Rico ● Road ▶ Qatar
0818c9	\$15,995	\$48,495	Pending	Electronics	Puerto Rico ● Air ▶ Slovakia

Examples of SVG in Power BI





KERRY KOLOSKO


EXPLORATIONS IN DATA STORYTELLING WITH POWER BI

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Portfolio Category: SVG Templates

Templates for various Power BI custom visuals including Deneb and PlotlyJS. Learn how to import a template [here](#). Learn to modify SVG templates [here](#). More templates and .pbix files [here](#).

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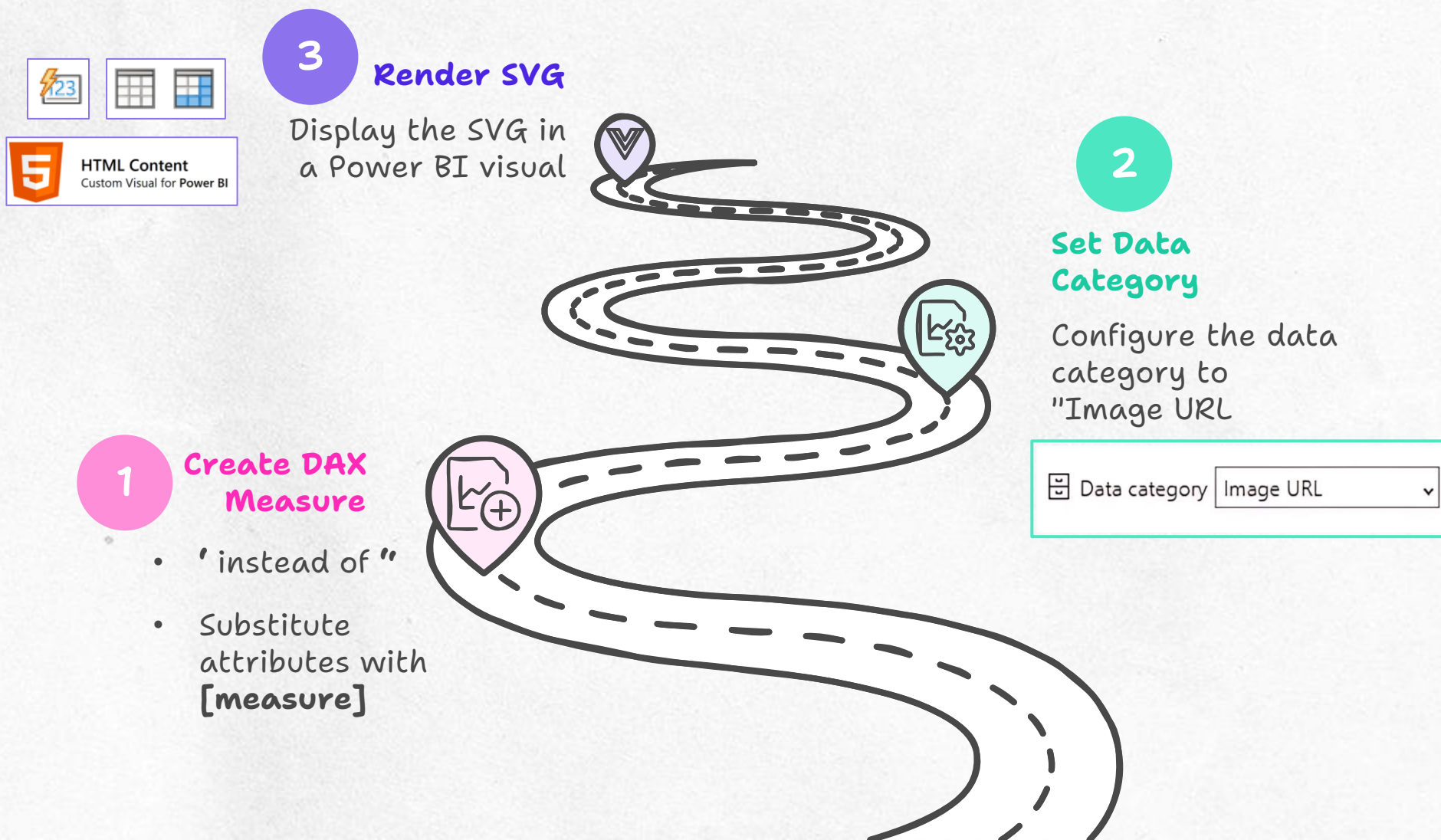


29

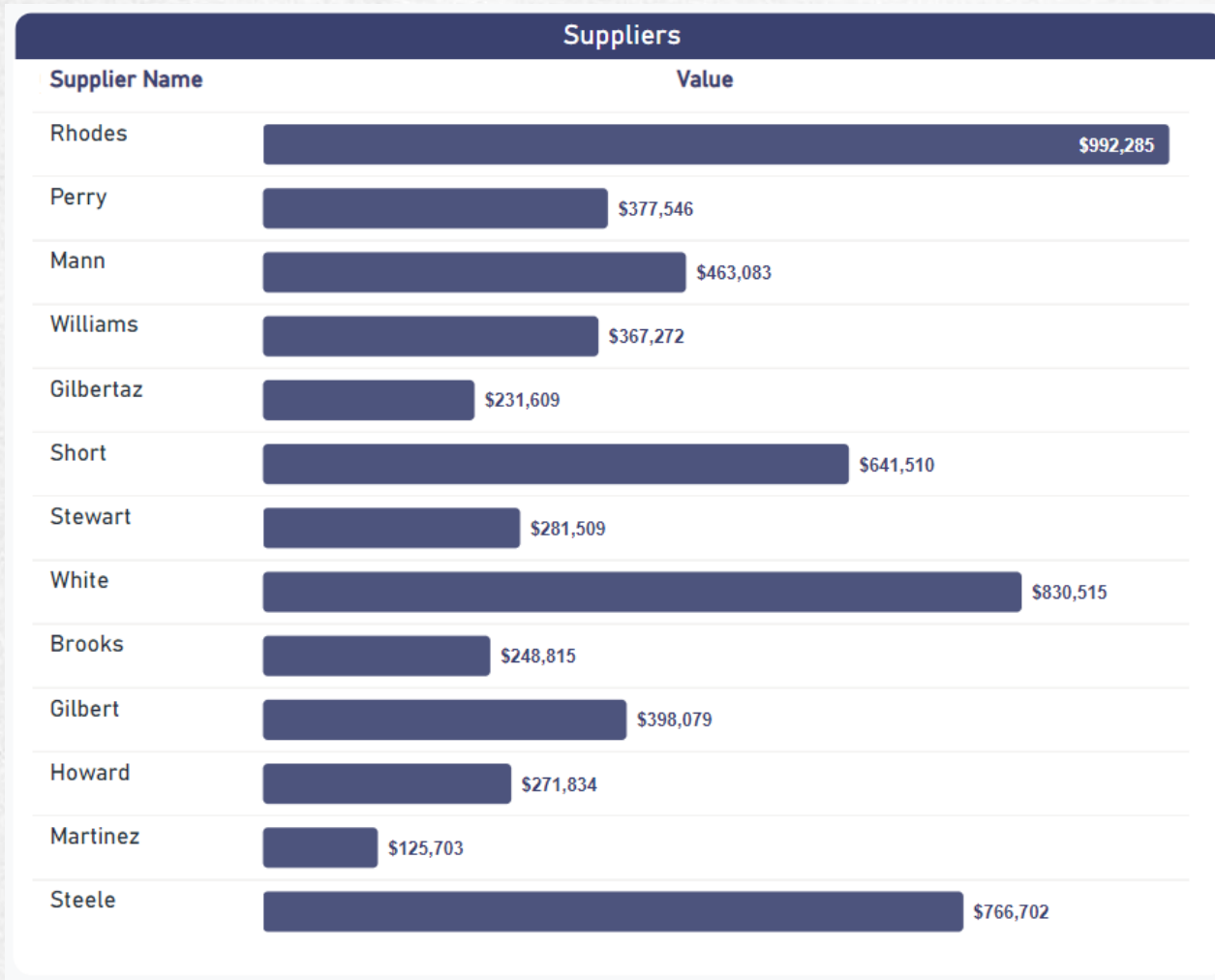


How to
Implement SVG
in Power BI?

How to Implement SVG in Power BI?



How to Implement SVG in Power BI?



```
Value =  
  
VAR _Width = 900  
  
-- Maximum CY_Value for standardization  
VAR _MaxValue = MAXX(ALL('Orders'[Supplier Name]), [CY_Value])  
  
-- Scaled bar width for the current value  
VAR _Value = DIVIDE([CY_Value], _MaxValue) * _Width  
  
-- Formatted value text to display  
VAR _ValueText = FORMAT([CY_Value], "$#,##")  
  
-- Adjusting text position to stay within bounds  
VAR _TextPosition =  
    IF(_Value > (_Width - 100), _Value - 90, _Value + 10)  
  
-- Text Fill  
VAR _TextFill =  
    IF(_Value > (_Width - 100), "White", "#3A416F")  
  
-- SVG Code  
RETURN  
"data:image/svg+xml;utf8," &  
"  
<svg width='"&_Width&"' height='50' xmlns='http://www.w3.org/2000/svg'>  
  
    <!-- Bar Chart -->  
    <rect x='0' y='5' width='"&_Value&"' height='40' fill='#3A416F' fill-opacity='0.9'  
        rx='5' ry='5' />  
  
    <!-- Text Display -->  
    <text x='"&_TextPosition&"' y='32' font-family='Arial' fill='"&_TextFill&"' font-size='18'  
        font-weight='bold'>&_ValueText&"</text>  
  
</svg>"
```



Data category

Image URL



Thank You



Mina Saad

LinkedIn [/in/minasaad1](https://www.linkedin.com/in/minasaad1)