

Start with PowerBI

"From Rookie to Rock"



Step by step

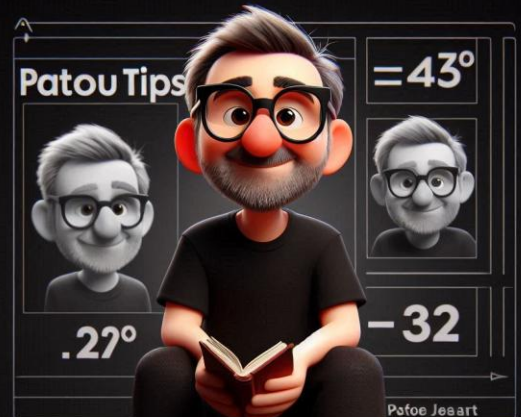
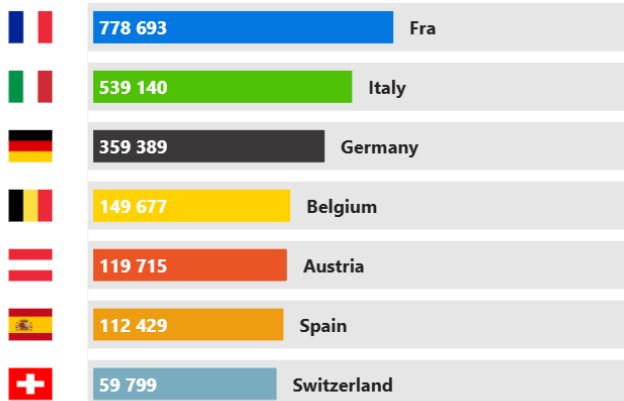
Create Animated Bar Race

Animated Report

IceCream'Macaron Sales Store



2021-05



Patou Tips #35

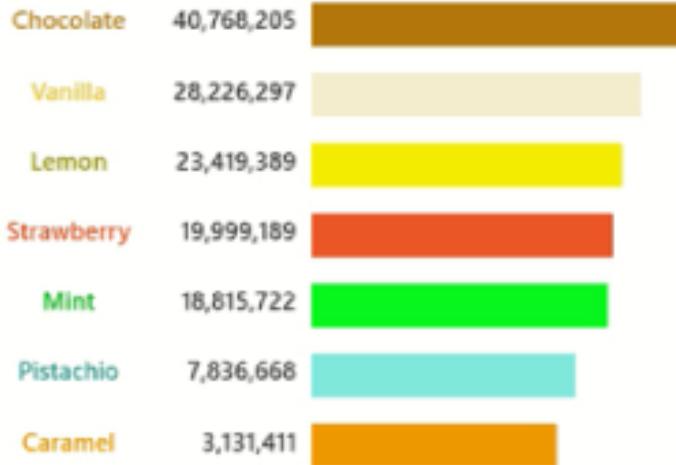
About the project...



In this short guide, some tips for animating Bar Chart.

- Part 1 : Bar Chart with SVG
- Part 2 : Animation with Play Axis
- Part 3 : Other PowerBI Bar Race visuals

Resources on GitHub
[Patou-Tips/#35 Patou
Tips \(Create Animated
Bar Chart\) at main ·
PatouTips/Patou-Tips](https://github.com/Patou-Tips/Patou-Tips/tree/main/PatouTips/Patou-Tips)



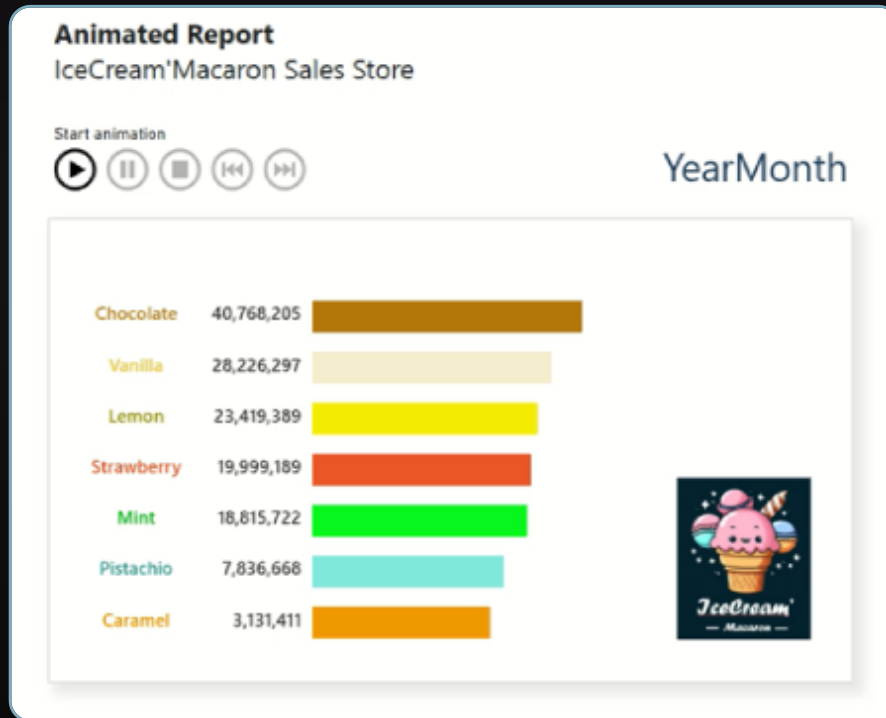
Start with PowerBI

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Create Animated Bar Race

Create Animated Bar Race

Part 1 : Bar Chart with SVG




Step by step

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Create Animated Bar Race
Part 1: Bar Chart with SVG



1

Measure Structure

```
1 Actual SVG BarChart =
2 VAR Part_Sales =
3 ROUND((DIVIDE(
4     [Actual],
5     CALCULATE([Actual],ALLSELECTED('Dim Product'[Product]))
6 *100),0)+50
7
8 VAR Bar_Color =
9 SWITCH(SELECTEDVALUE('Dim Product'[Product]),
10 "Chocolate", "#B3760C",
11 "Vanilla", "#F4EDCF",
12 "Lemon", "#F3EB00",
13 "Strawberry", "#EB5526",
14 "Mint", "#07F61F",
15 "Pistachio", "#7FE7DC",
16 "Caramel", "#F09801")
17
18 VAR SVG_BarChart =
19 "data:image/svg+xml;utf8," & "<svg xmlns='http://www.w3.org/2000/svg'
20     xmlns:xlink='http://www.w3.org/1999/xlink'>
21
22     <rect x='0' y='0%' width='& Part_Sales &%" height='100%' fill='&Bar_Color&'" stroke-width='2' stroke='&Bar_Color&'" />
23
24     </svg>"
25 RETURN
26 SVG_BarChart
```

The value to animate

The color of each value

The SVG code for the bar chart

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Create Animated Bar Race
Part 1: Bar Chart with SVG



1

Measure

The value to animate

```
2 VAR Part_Sales =  
3 ROUND((DIVIDE(  
4     [Actual],  
5     CALCULATE([Actual],ALLSELECTED('Dim Product'[Product]))  
6     *100),0)+50
```

SVG works with the proportion of a value (%), so the "[Actual]" is transformed into a share of its total value.

Note: The +50 value at the end creates a small gap between the maximum value and the end of the graph



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Create Animated Bar Race
Part 1: Bar Chart with SVG



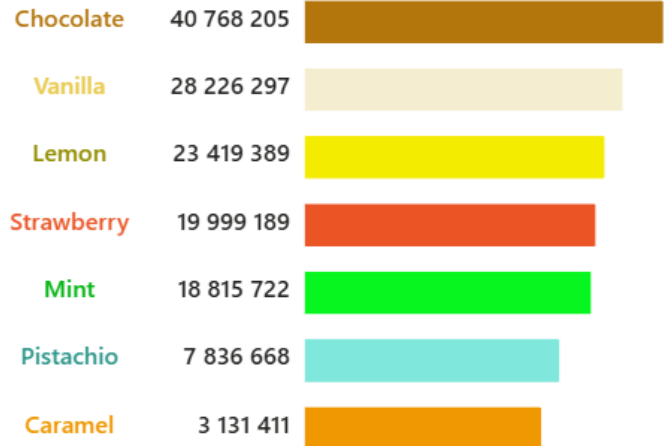
1

Measure

The color of each value

```
8 VAR Bar_Color =  
9 SWITCH(SELECTEDVALUE('Dim Product'[Product]),  
10 "Chocolate", "#B3760C",  
11 "Vanilla", "#F4EDCF",  
12 "Lemon", "#F3EB00",  
13 "Strawberry", "#EB5526",  
14 "Mint", "#07F61F",  
15 "Pistachio", "#7FE7DC",  
16 "Caramel", "#F09801")  
17
```

A color that suggests the product (brown for chocolate for example) is created for each product. This color is used for the label and for the Bar Chart.



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Part 1: Bar Chart with SVG



1

Measure

The SVG code for the Bar Chart

```
18 VAR SVG_BarChart =  
19 1 "data:image/svg+xml;utf8," & "<svg xmlns='http://www.w3.org/2000/svg'  
20   xmlns:xlink='http://www.w3.org/1999/xlink'>  
21  
22 2 <rect x='0' y='0%' width='"& Part_Sales &"%' height='100%' fill='"&  
   Bar_Color&"' stroke-width='2' stroke='"&Bar_Color&"'/>  
23  
24 3 </svg>"
```

1

3

Code to write (always the same) to interpret the SVG language

2

SVG Bar Chart Specification

start position (%)

x= y=

0

Stroke width and color

form
rect

color
fill

width

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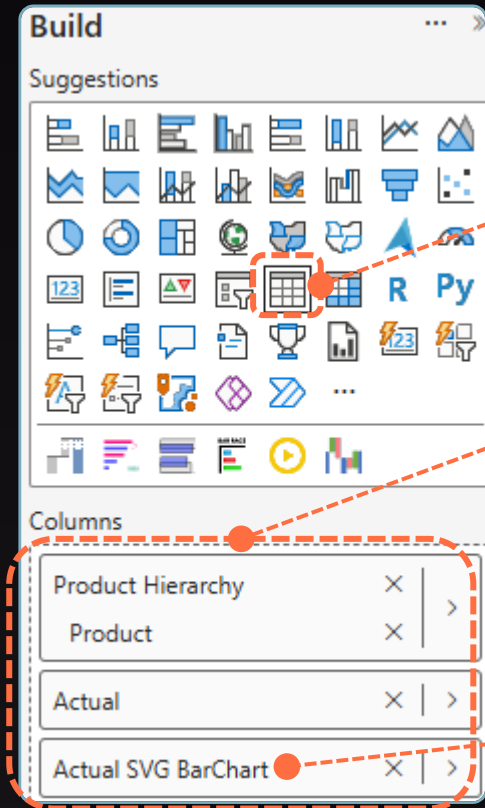
"From Rookie to Rock"

Create Animated Bar Race
Part 1: Bar Chart with SVG



2

Visualization Setting



1

Choose "Table visual"

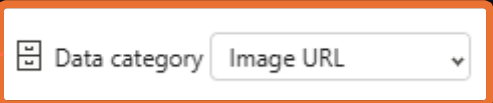


2

Feed with dimension value and measure

3

Change the data category of the measure that contains the SVG code



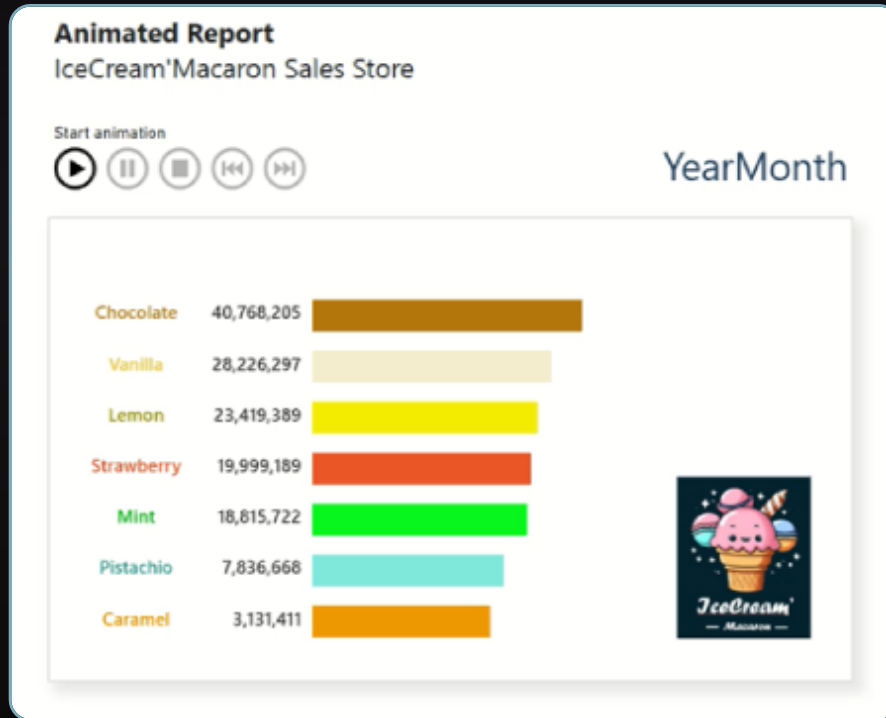
Start with PowerBI

"From Rookie to Rock"

Create Animated Bar Race
Part 1: Bar Chart with SVG

Create Animated Bar Race

Part 2 : Animation with Play Axis



Step by step

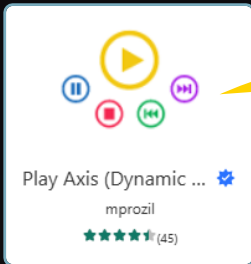
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Create Animated Bar Race
Part 2: Animation with Play Axis

Visual application for animation

→ Play Axis



Add a dynamic slicer like mprozil's "Play Axis app visual" to animate your PowerBI project.



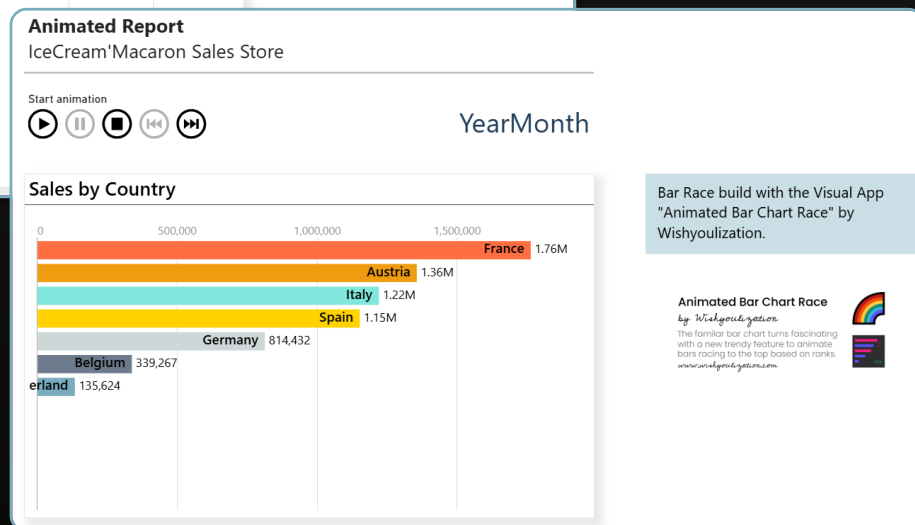
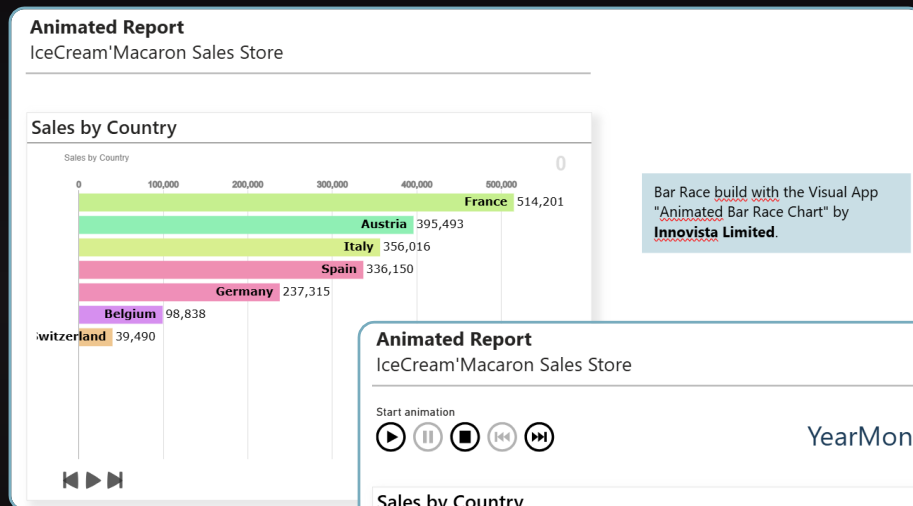
Start with PowerBI

"From Rookie to Rock"

Create Bar Race
Part 1 : Bar Chart with SVG

Create Animated Bar Race

Part 3 : Other PowerBI Bar Race visuals



Start with PowerBI

"From Rookie to Rock"

Create Bar Race
Part 1 : Bar Chart with SVG

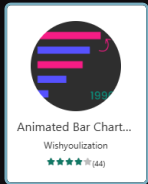


PowerBI visual applications

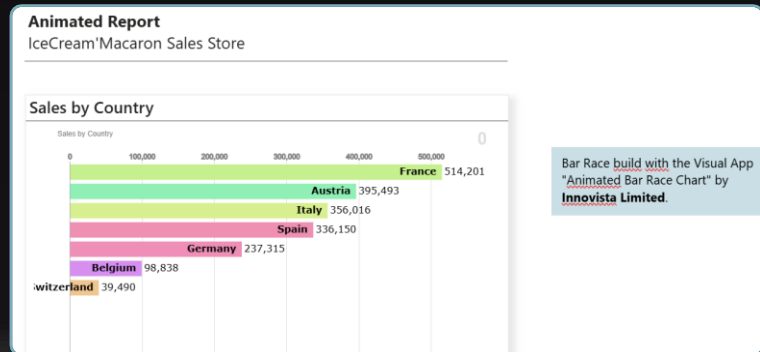
To go further...

2 free visual applications to discover to bring your PowerBI projects to life

Animated Bar Chart By Wishyoualization



Animated Bar Race by Inovista Limited



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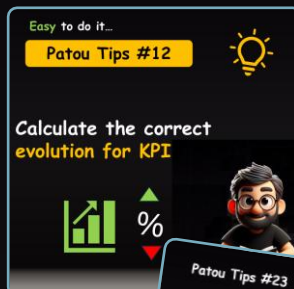
Create Bar Race
Part 1 : Bar Chart with SVG

Learn and practice

On the same theme, to go further



Patou Tips #5
Create a
Customized
Chart
(for income
statement)



Patou Tips #12
Calculate right
evolution for
KPI



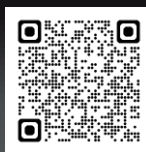
Patou Tips #6
Create
Customized Icon



Patou Tips #23
Quick Guide Visualization &
Storytelling



Patou Tips #7
Create an Age
Pyramid Chart
(for Human
Ressources)



Resources on GitHub
[https://github.com/Patou
Tips/Patou-Tips](https://github.com/PatouTips/Patou-Tips)

Don't forget!
This isn't the truth, it's just my truth!

Patou Tips



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