

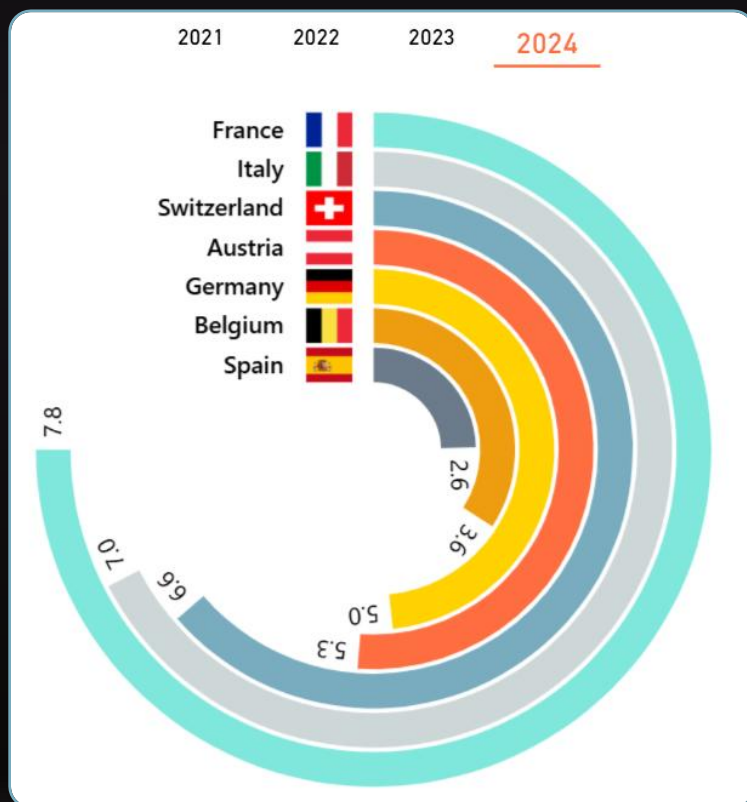
Start with PowerBI

"From Rookie to Rock"



Step by step

Radial Bar Chart (with Charticulator)



Patou Tips #37



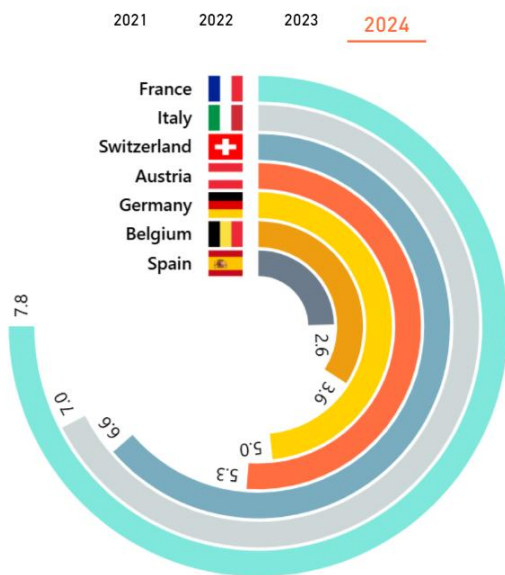
About the project...



Charticulator is really a great application and also a great visual application for PowerBI to create fantastic charts like in Statista, which inspired this project.

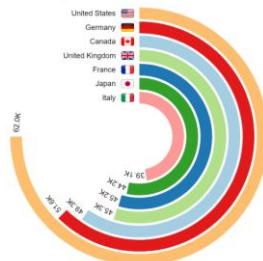
Radial Bar Chart (with Charticulator)

Sales Country (m€)



Per Capita GDP of G7 Countries in 2018

Per Capita GDP of G7 Countries in 2018



The inspiration



Resources free on GitHub

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart



1

Download Charticularator PowerBI Visual App

Download the Charticularator Visual app for PowerBI

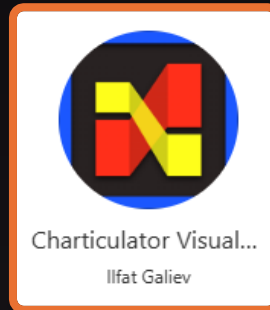


1



Choose "Get more
visuals" on the "App
source"

2



Download
"Charticularator
Visual
Community
(Editor) by
Ilfat Galiev

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart



2

Create Radial Bar Chart

Start a chart...

1



Choose "Charticulator" on the build pane.

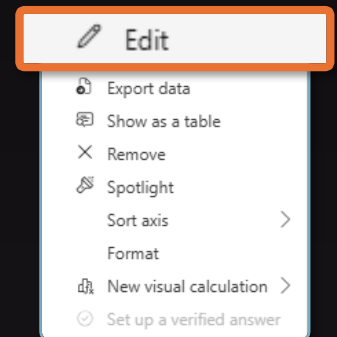
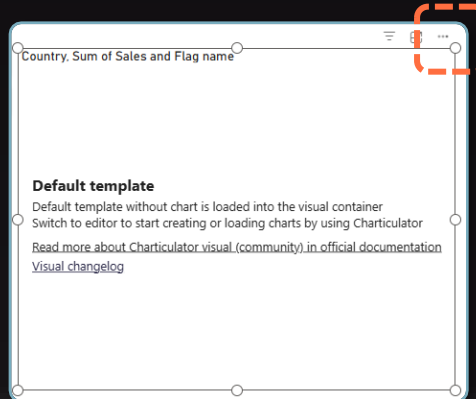
2

Data		
Country	×	>
Sum of Sales	×	>
Flag name	×	>

Drag and drop the data fields for the chart in the data from the "Build Pane"

3

A window appear, in the top right corner click on the "..." and choose "Edit" to launch "Charticulator"



Start with PowerBI

"From Rookie to Rock"

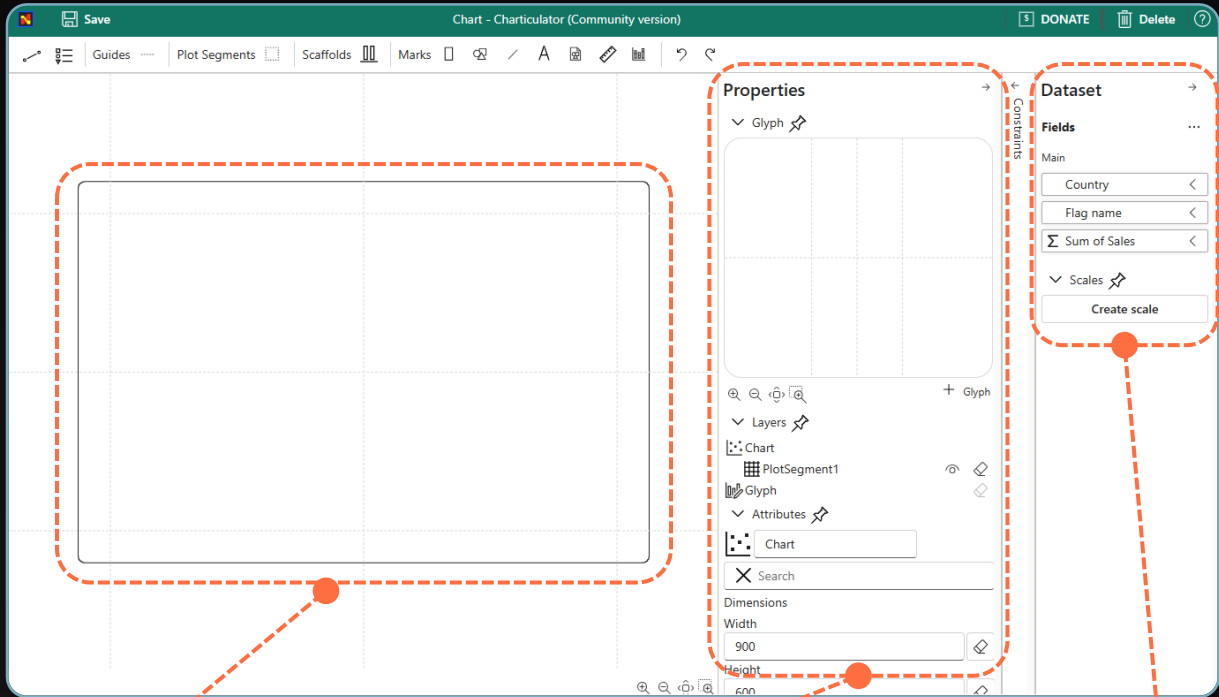
Create a Bar Chart

2

Create Radial Bar Chart About Charticulator screen



It looks a bit like a PowerBI screen, really pratic!



Result screen, all
the transformations
appear here

Properties and Glyphs
Panel, this is the
graphics generator

Dataset pane,
data selected in
PowerBI appear
here

Start with PowerBI

"From Rookie to Rock"

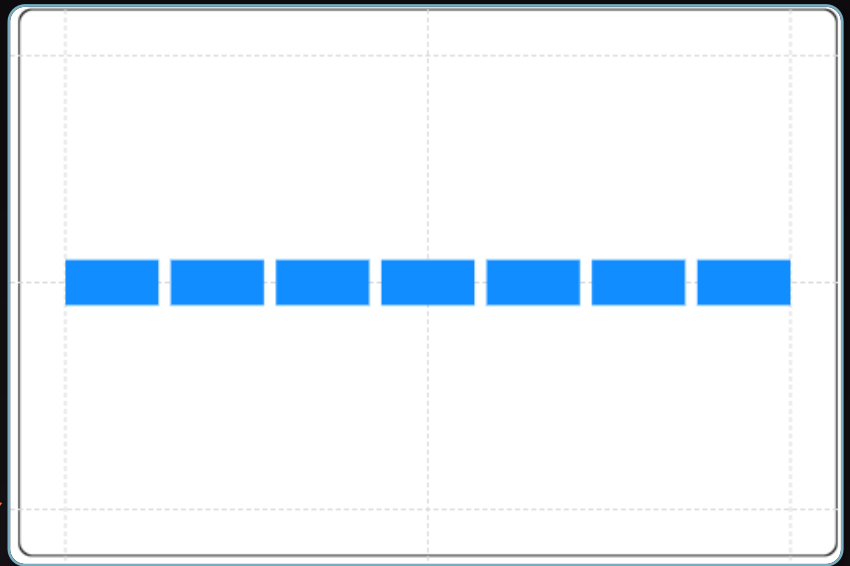
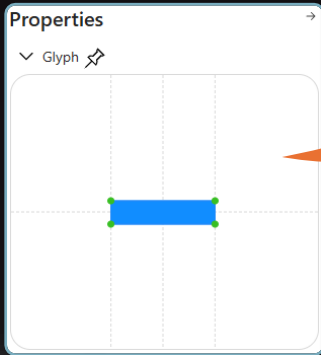
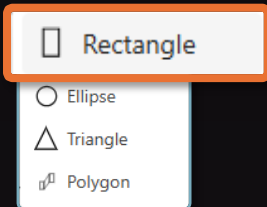
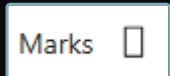
Create a Bar Chart



2

Create Radial Bar Chart Main form

From the "Mark" menu, choose "Rectangle" and draw a shape in the Glyph window from the Properties pane



Result

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

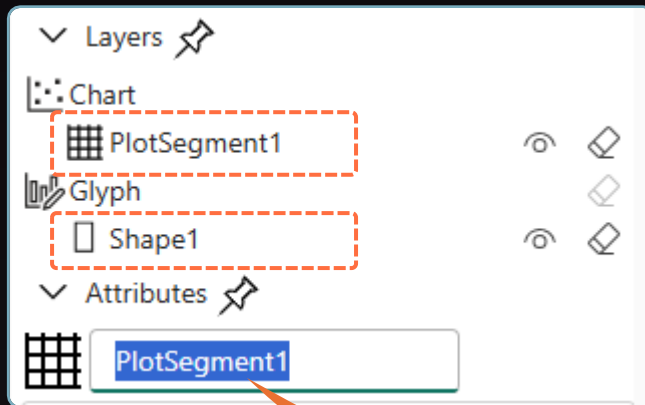


2

Create Radial Bar Chart

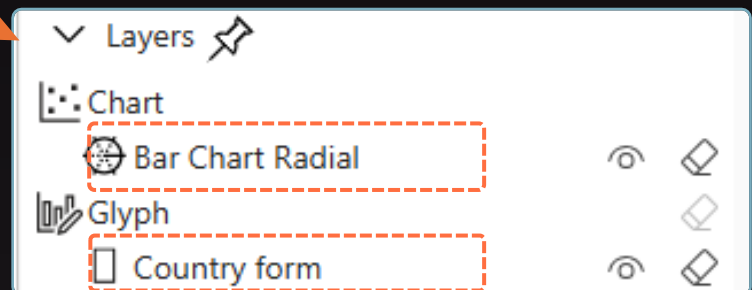
Rename created objects

Rename the created object, "Graphic" and "Main Form" for clarity in building the project



Before

After



Start with PowerBI

"From Rookie to Rock"

Create a bar chart in IBCS style

2

Create Radial Bar Chart

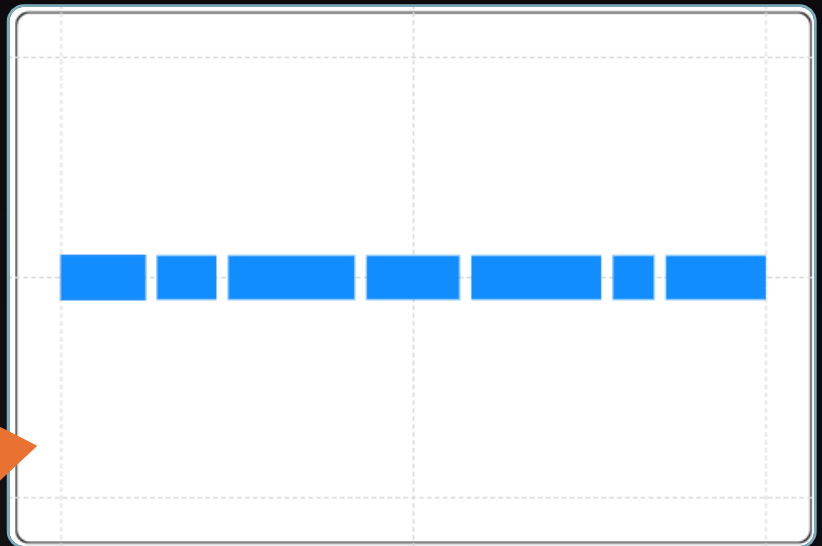
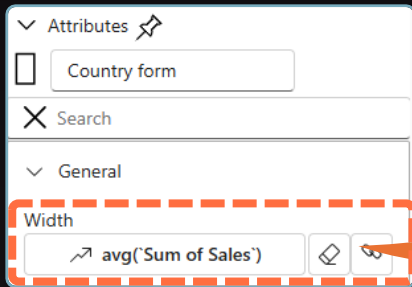
Proportion of the segments



Drag and drop the field "Sum of sales" from the "dataset pane" in the field "Width" in the attributes part of the field "Country form".



Drag
and drop



Result, now the segments have the proportion of the data provided

Start with PowerBI

"From Rookie to Rock"

Create a bar chart in IBCS style

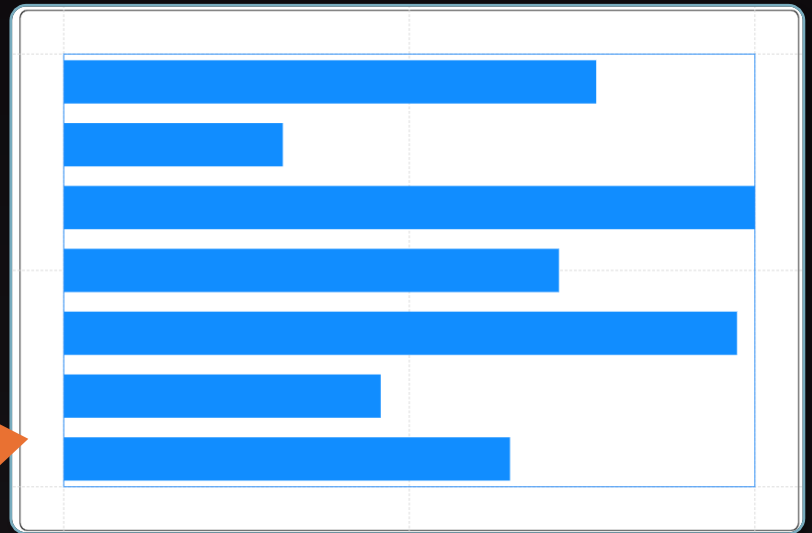
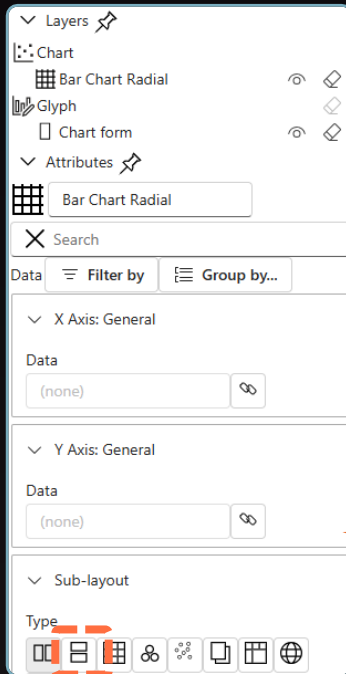
2

Create Radial Bar Chart

Transform segment into a Bar Chart



In the "Sub-layout" attributes of the "Radial Bar Chart" in the "Properties" panel, choose "Stack Y"



Result, the segments are transformed into a Bar Chart



Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

2

Create Radial Bar Chart

Sort the graphic in descending order



In the "Y Axis" attributes of the "Radial Bar Chart" in the "Properties" panel, select "Average" for "Sum of Sales"

Y Axis: General

Data

(none)

\$

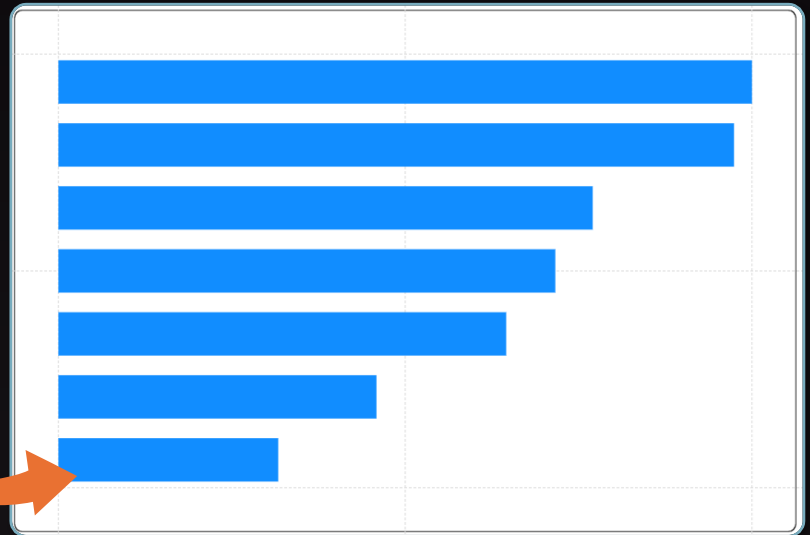
(none)

Country Unselected

Flag name Unselected

Sum of Sales Unselected

Average



Result, the segments are sorted in descending order

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

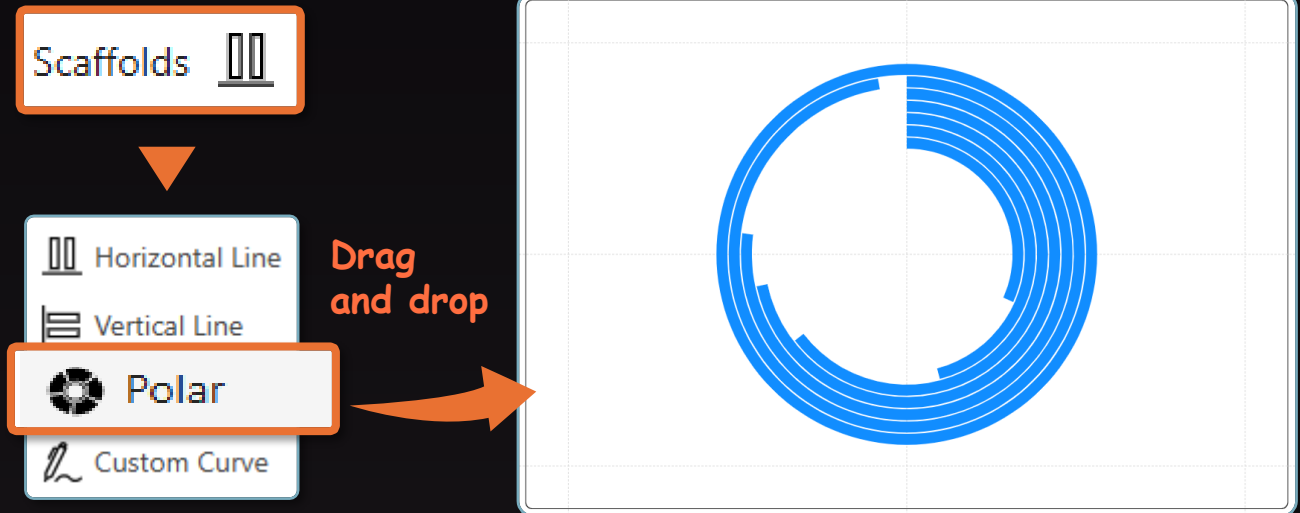
2

Create Radial Bar Chart

Transform Bar Chart into Radial Bar Chart



Select the button "Polar" in the menu "Scaffolds" and drag and drop hover the graphic



Result, the Bar Chart are transformed into a Radial Bar Chart

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

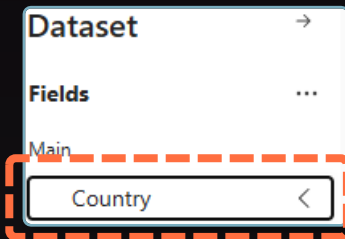
2

Create Radial Bar Chart

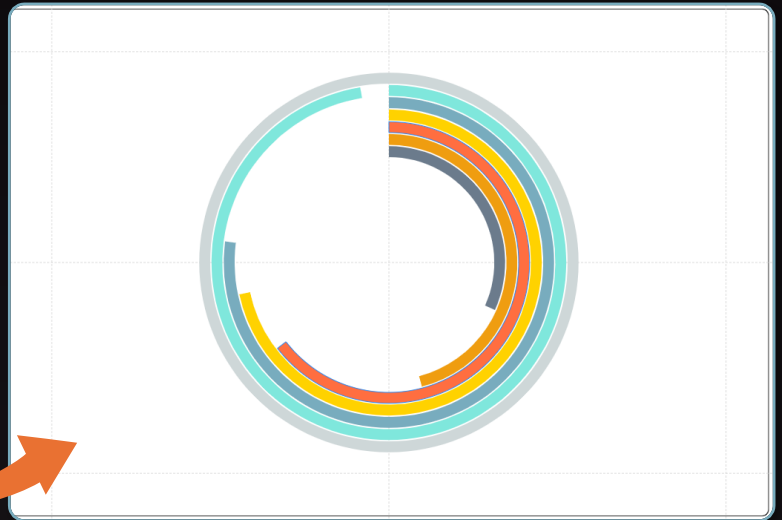
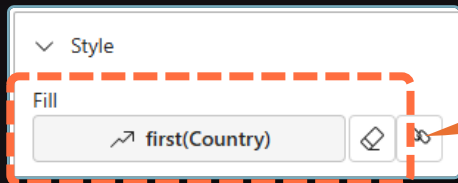
Color in the Radial Bar Chart



Drag and drop the field "Country" from the dataset pane into the field "Fill" from the "Style" attributes of the "Country form" Glyph



Drag
and drop



Result, the Bar Chart are transformed into a Radial Bar Chart

Note: In the practice folder, load the theme json, to get the same color as I created

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

2

Create Radial Bar Chart

Radial Bar Chart settings



Change the settings in the attributes of the "Radial Bar Chart". A value of "270" for the angle is really interesting to open the graph.

Radial Bar Chart

Search

Data Filter by Group by...

▼ Polar Coordinates

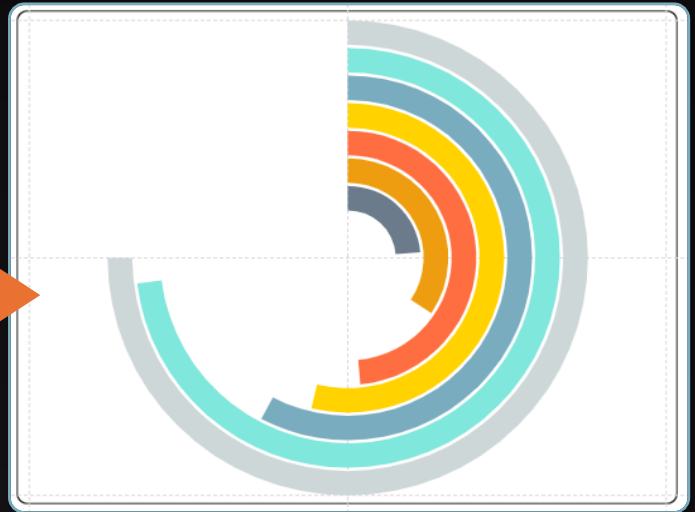
Angle

0 270

Radius

Inner: 0.2

Outer: 1



Result, the Radial Bar Chart is open

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

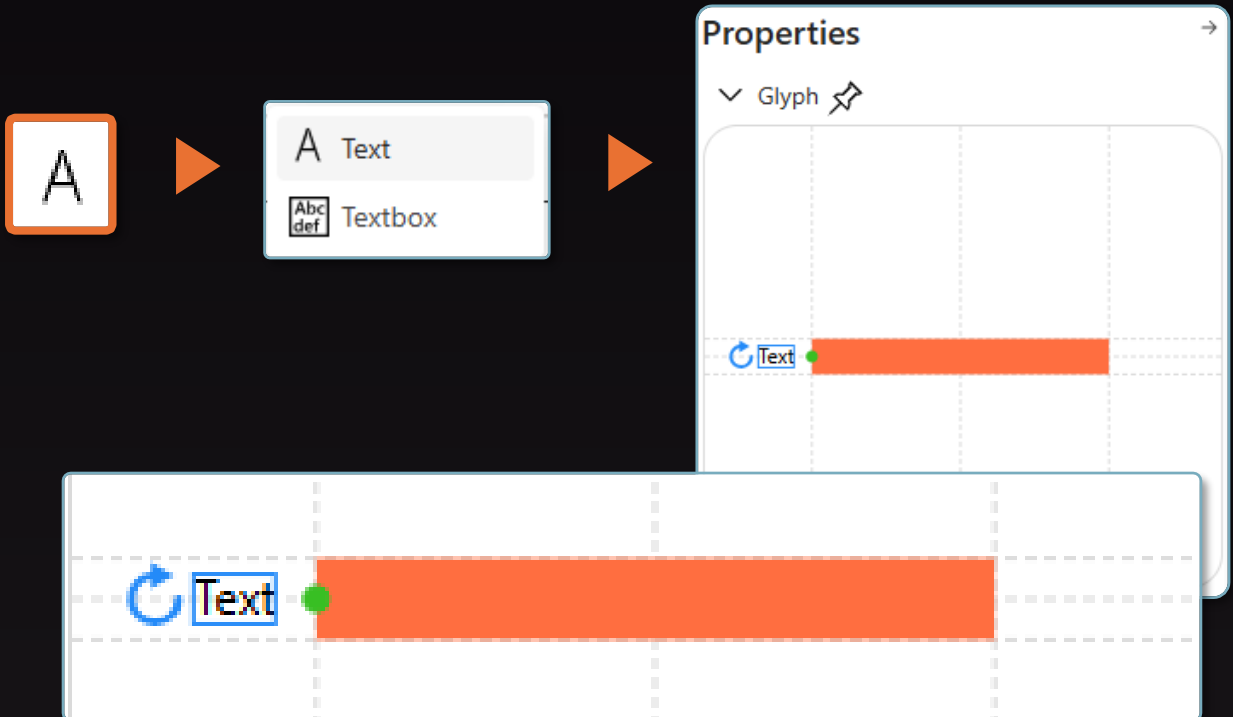
2

Create Radial Bar Chart

Add "Country Label" (1/3)



From the "Text" menu, choose "Text" and draw a shape in the Glyph window from the Properties pane



The green dot is very important and is the anchor of your text.

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart



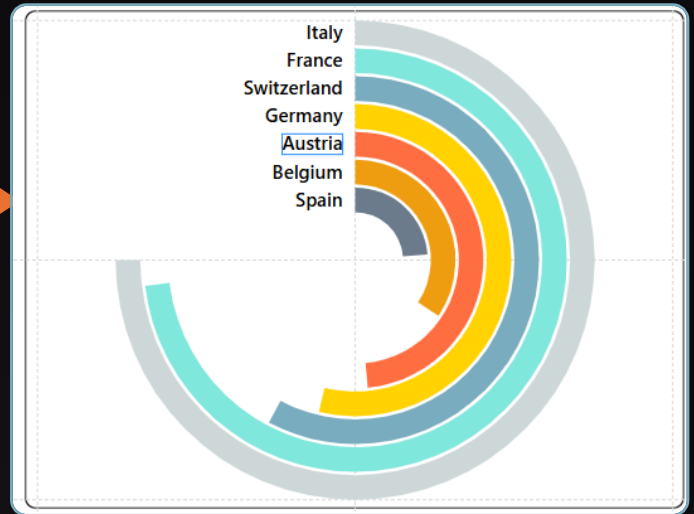
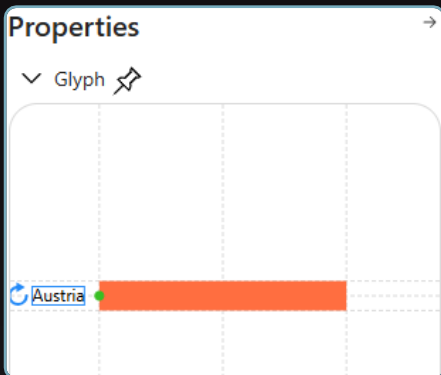
2

Create Radial Bar Chart

Add "Country Label" (2/3)

Drag and drop the field "Country" from the dataset pane into the "text label" into the "Glyph window"

Country <



Result, "Country" label appear into the Radial Bar Chart

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

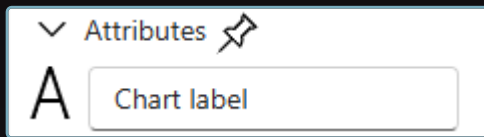
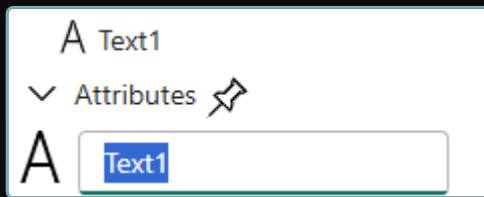
2

Create Radial Bar Chart

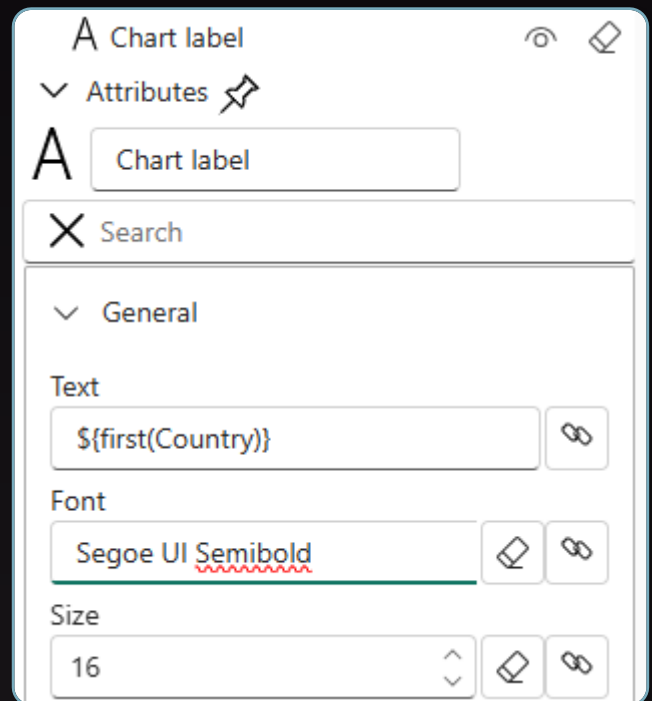
Add "Country Label" (3/3)



Rename the created object, for clarity in building the project



Change the settings in the attributes of the "Chart Label".



Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

2

Create Radial Bar Chart Add "Sales Value"



Repeat the same action as for "Country Label"

A Sales value

X Search

General

Text

$\text{\$}{avg('Sum of Sales')}\{.1f}$

Font

Segoe UI

Size

14

Visibility

Conditioned by...

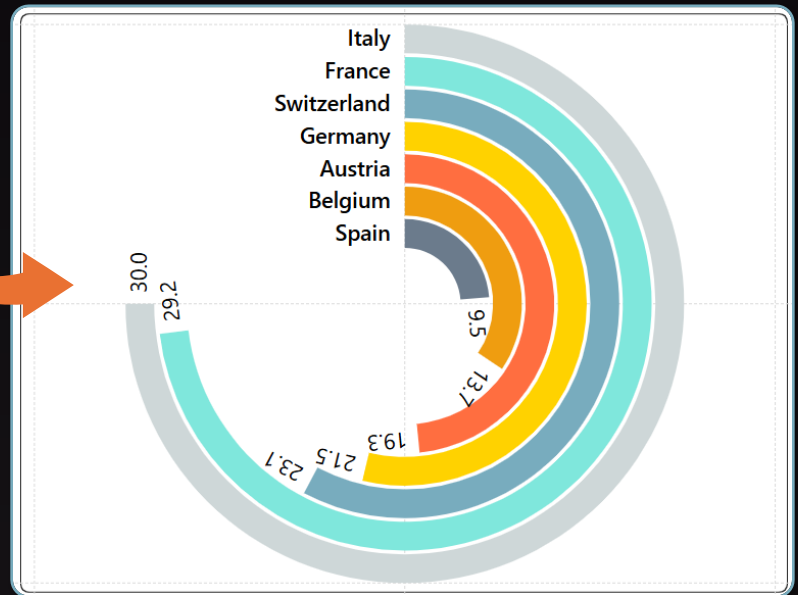
Anchor & Rotation

Anchor X

Margin

5

Anchor Y



Result, "Sales value" label appear into the Radial Bar Chart

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

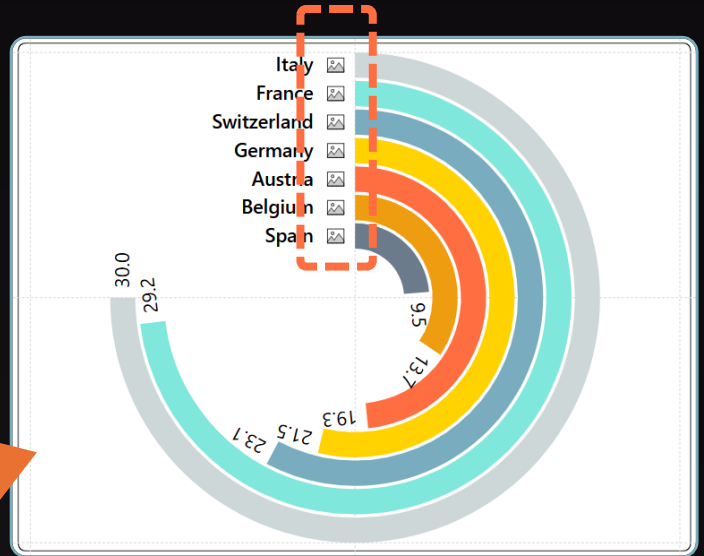
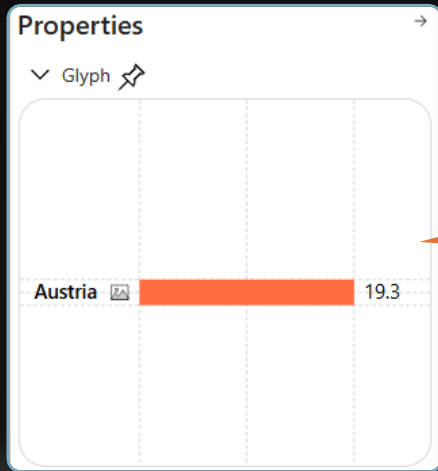
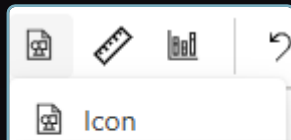
2

Create Radial Bar Chart

Add "Country flags" (1/3)



From the "Image" menu, choose "Image" and draw a shape in the Glyph window from the Properties pane



Result, an Icon appear with the country text

Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

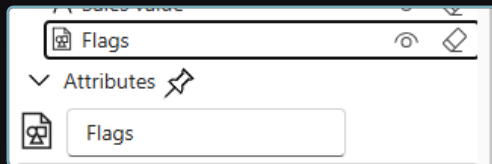


2

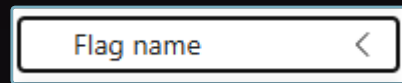
Create Radial Bar Chart

Add "Country flags" (2/3)

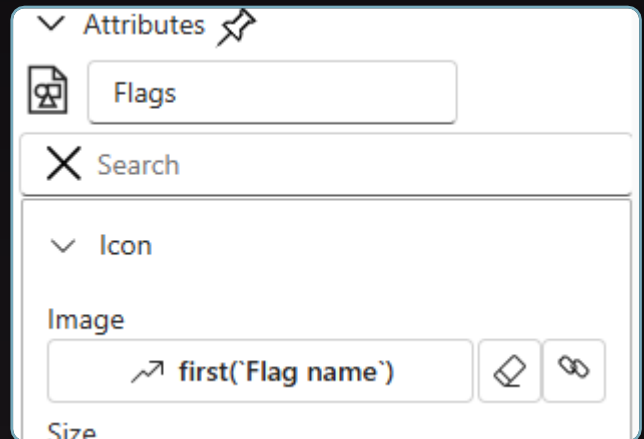
Rename the created object, for clarity in building the project



Drag and drop the field "Flag Name" from the dataset pane into the field "Icon" from the "Style" attributes of the "Flags".



Drag
and drop



Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart

2

Create Radial Bar Chart

Add "Country flags" (3/3)



In the dataset pane, select the flag object and assign a flag file (png format) to each country.

The screenshot illustrates the steps to assign country flags to a radial bar chart in PowerBI. On the left, the 'Dataset' pane shows the 'Main' table with fields 'Country', 'Flag name', and 'Sum of Sales'. Under the 'Scales' section, 'Scale4' is selected and highlighted with an orange box, with 'Flags.Image' assigned to it. An orange arrow points from 'Scale4' to the 'Create scale' dialog box in the center. The dialog shows 'Scale type' as 'scale.categorical<string,image>', 'Domain source table' as 'main', and 'Domain source column' as 'Country'. The 'Image Mapping' section shows 'Austria' selected and highlighted with an orange box, with '(none)' assigned to it. A red dashed box highlights the 'Image Mapping' section, and a red box highlights the 'X' icon next to it. An orange arrow points from the 'X' icon to a file explorer window on the right. The file explorer shows a folder named '#37 Patou vips (Radial Bar Chart ...)' containing a subfolder 'Flags'. The 'Flags' folder contains six image files: 'Austria.png', 'Belgium.jpg', 'France.jpg', 'Germany.jpg', 'Italy.jpg', and 'Spain.jpg'. The file explorer is set to 'Ouvrir' (Open) and 'Tous les fichiers (*.*)'.

Start with PowerBI

"From Rookie to Rock"

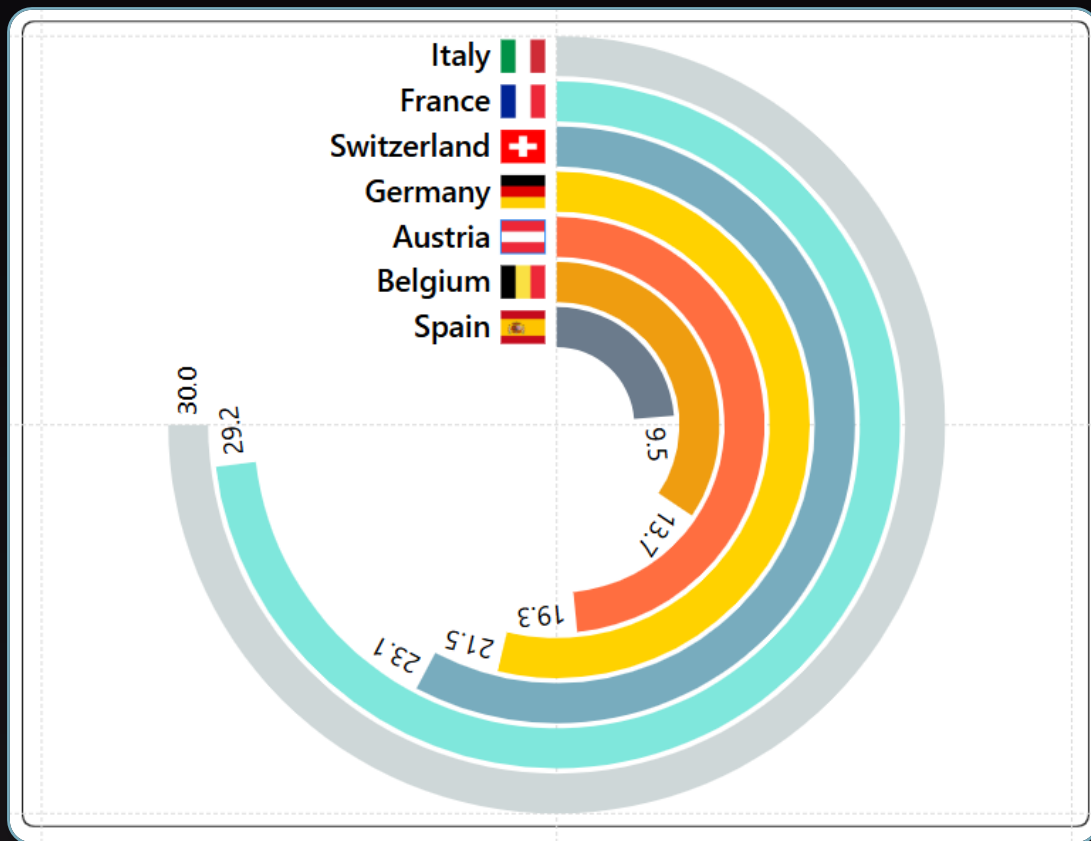
Create a Bar Chart

20

2

Create Radial Bar Chart

That's all folks!



Start with PowerBI

"From Rookie to Rock"

Create a Bar Chart



Read more about Charticulator visual (community) in official documentation.

Visual documentations

Power BI Visual Editor

Charticulator

Intro

Creating Charts

Reusing charts

Using in Power BI

Gallery

Community content

Constraints editor

Visual changelog

HTML/SVG/Handlebars Visual

Apache ECharts Visual

ApexCharts Visual

Markdown & Mermaid Visual

Intro

This page describes four things that you need to learn in order to use Charticulator. The documentation based on original source of Charticulator documentation (copy is available on [Donghao Ren website](#) the author of Charticulator). This documentation is not complete, but will include new features and changes that aren't included original visual or Charticulator App.

Terminology

- A **mark** is a primitive graphical element (e.g., rectangle, line, text).
- A **glyph** is a visual representation of a single data row. A glyph contains one or more **marks**.
- A **guide** is an auxiliary element for positioning marks or glyphs. Guides do not appear in exported charts.

<https://ilfat-galiev.im/docs/charticulator/intro/>

3

Charticulator To go further...



Character Co-occurrence in Les Miserables

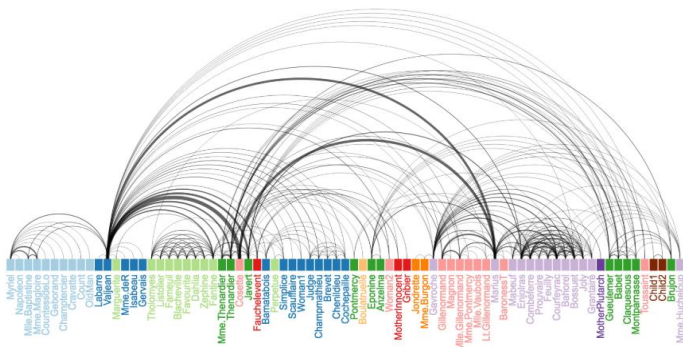
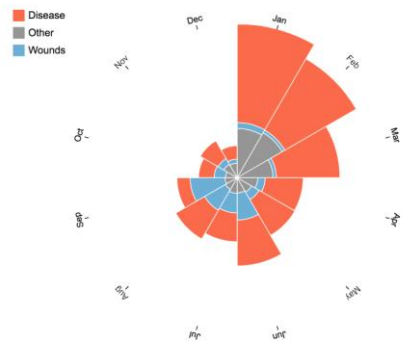
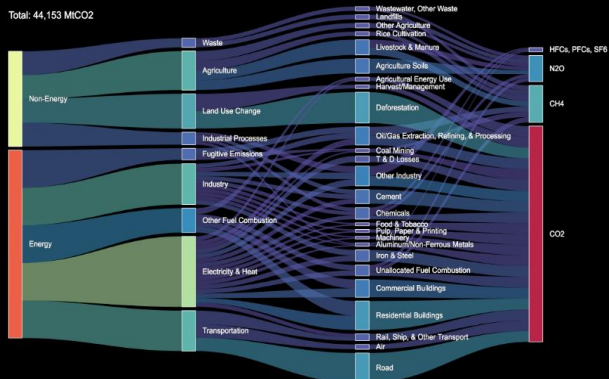


Diagram of the Causes of Mortality in the Army in the East

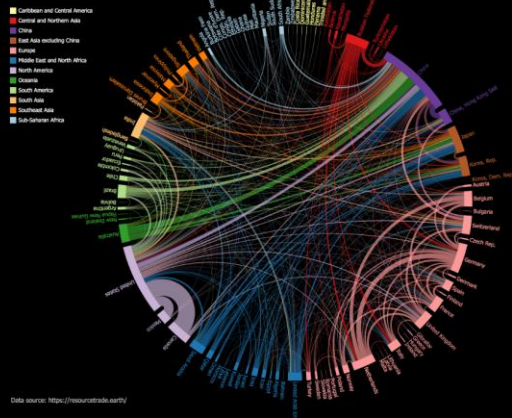


World Greenhouse Gas Emissions in 2005

Total: 44,153 MTCO2



Global Trade of Natural Resources in 2016



<https://ilfat-galiev.im/docs/charticulator/intro/>

Start with PowerBI

"From Rookie to Rock"

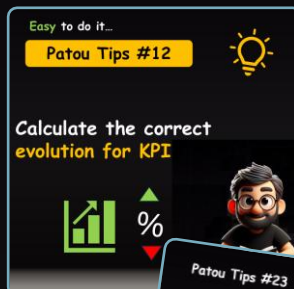
Create a Bar Chart

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



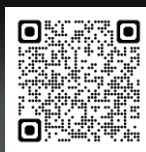
Patou Tips #6
Create
Customized Icon



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



Follow me
Like me
Share me

