

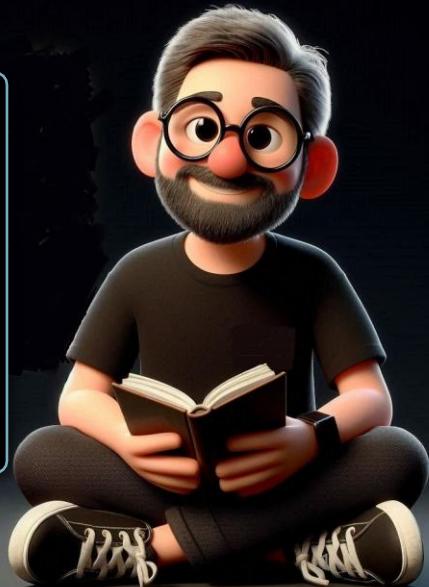
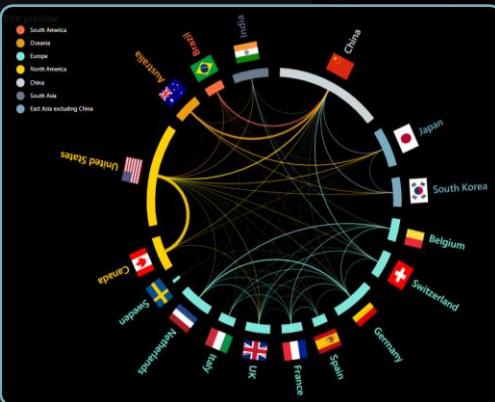
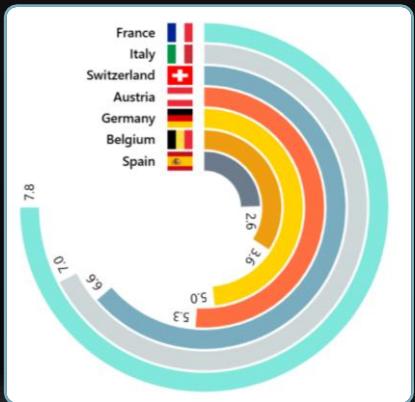
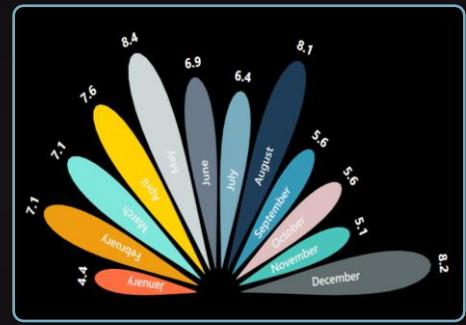
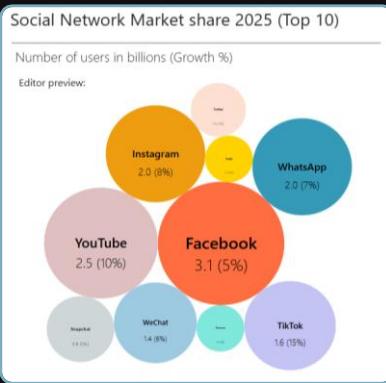
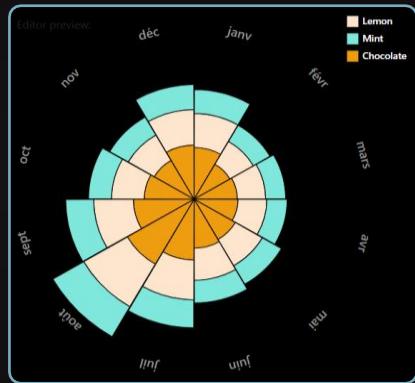
Start with PowerBI

"From Rookie to Rock"

Step
By
step



5 Advanced Charts (with Charticulator)



Patou Tips #42



About the project...

Charticulator is really a great application and also a great visual application for PowerBI to create fantastic charts and infographics like in Statista.

- ✓ No code required to create a chart.
- ✓ Free visualization application (you can contribute for the author).
- ✓ Fully compatible with PowerBI
- ✓ Active with dashboard filters.



Resources on GitHub
<https://github.com/Patou-Tips/Patou-Tips>

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

1

Download Charticulator PowerBI Visual App



Download the Charticulator Visual app for PowerBI

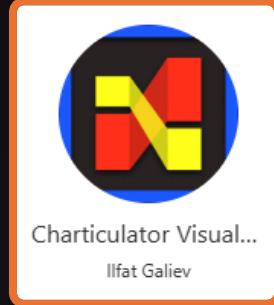


1



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

2



Download
"Charticulator
Visual
Community
(Editor)" by
Ilfat Galiev

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

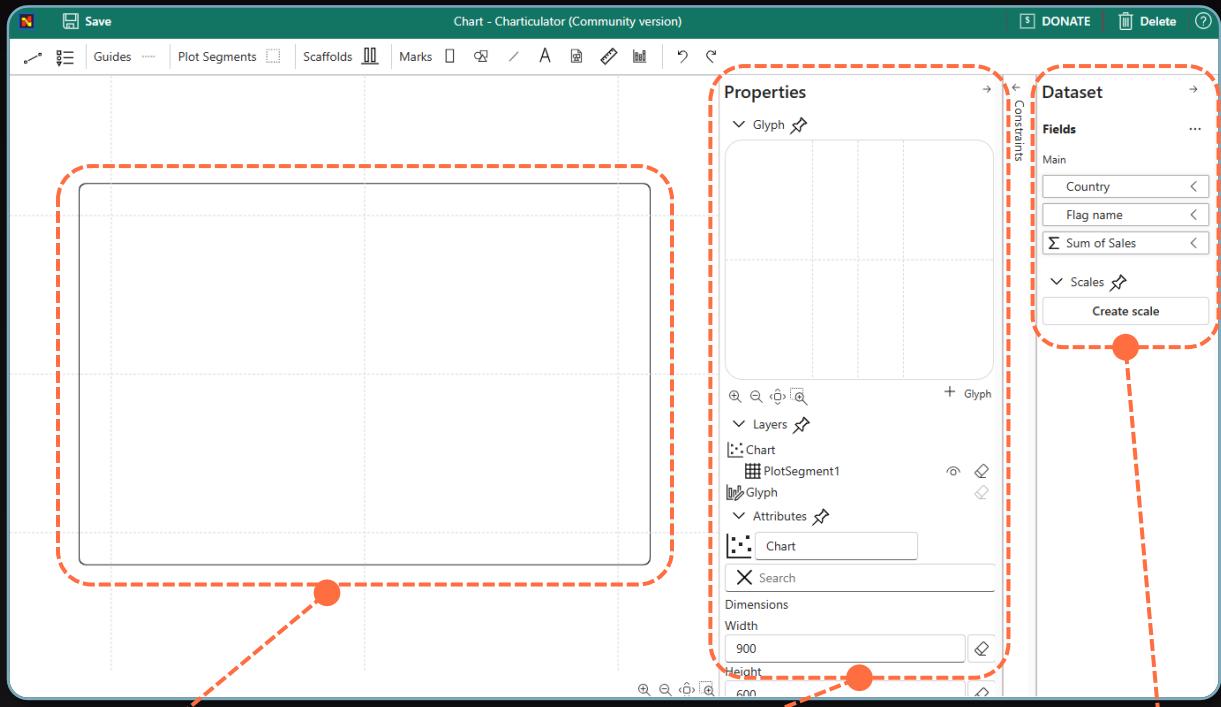
5 Advanced Charts (with Charticulator)

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

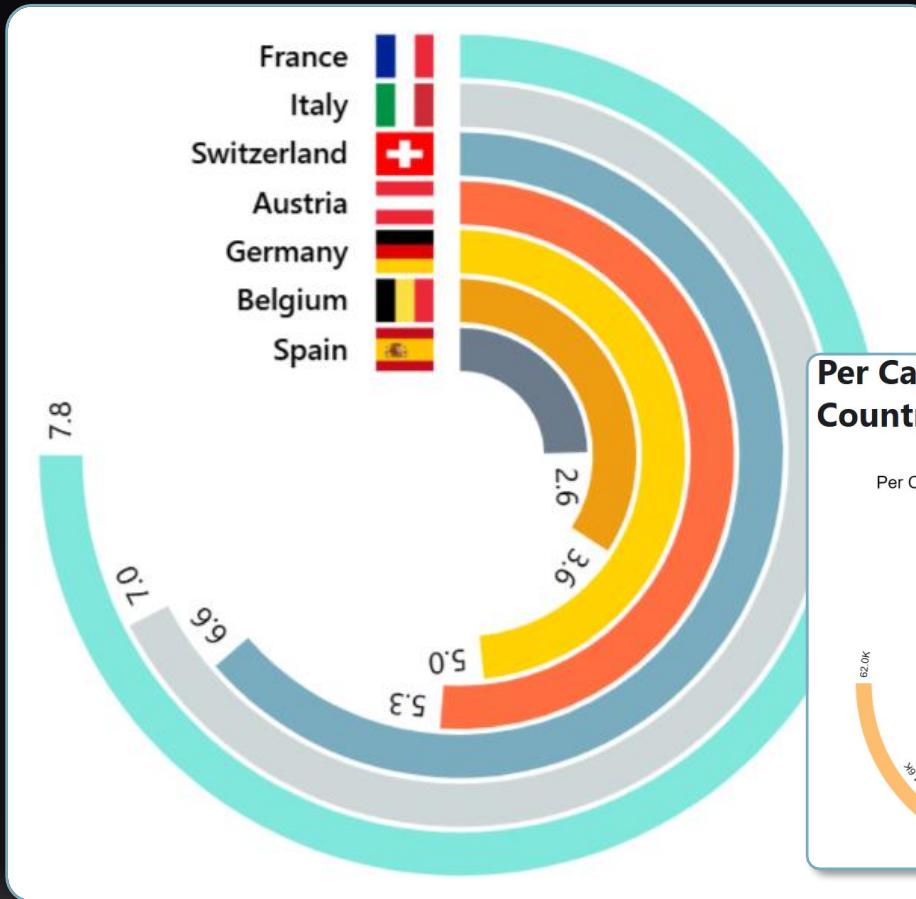
"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)



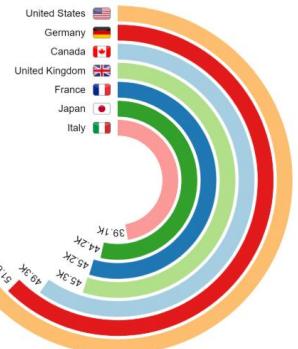
Radial Bar Chart (with Charticulator)



The
inspiration

Per Capita GDP of G7
Countries in 2018

Per Capita GDP of G7 Countries in 2018



Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)



Create Radial Bar Chart

Start a chart...

1



Choose
“Charticulator”
on the build
pane.

2

Data

Country	x >
Sum of Sales	x >
Flag name	x >

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”

Country, Sum of Sales and Flag name

Default template

Export data

Show as a table

Remove

Spotlight

Sort axis

Format

New visual calculation

Set up a verified answer

Start with PowerBI

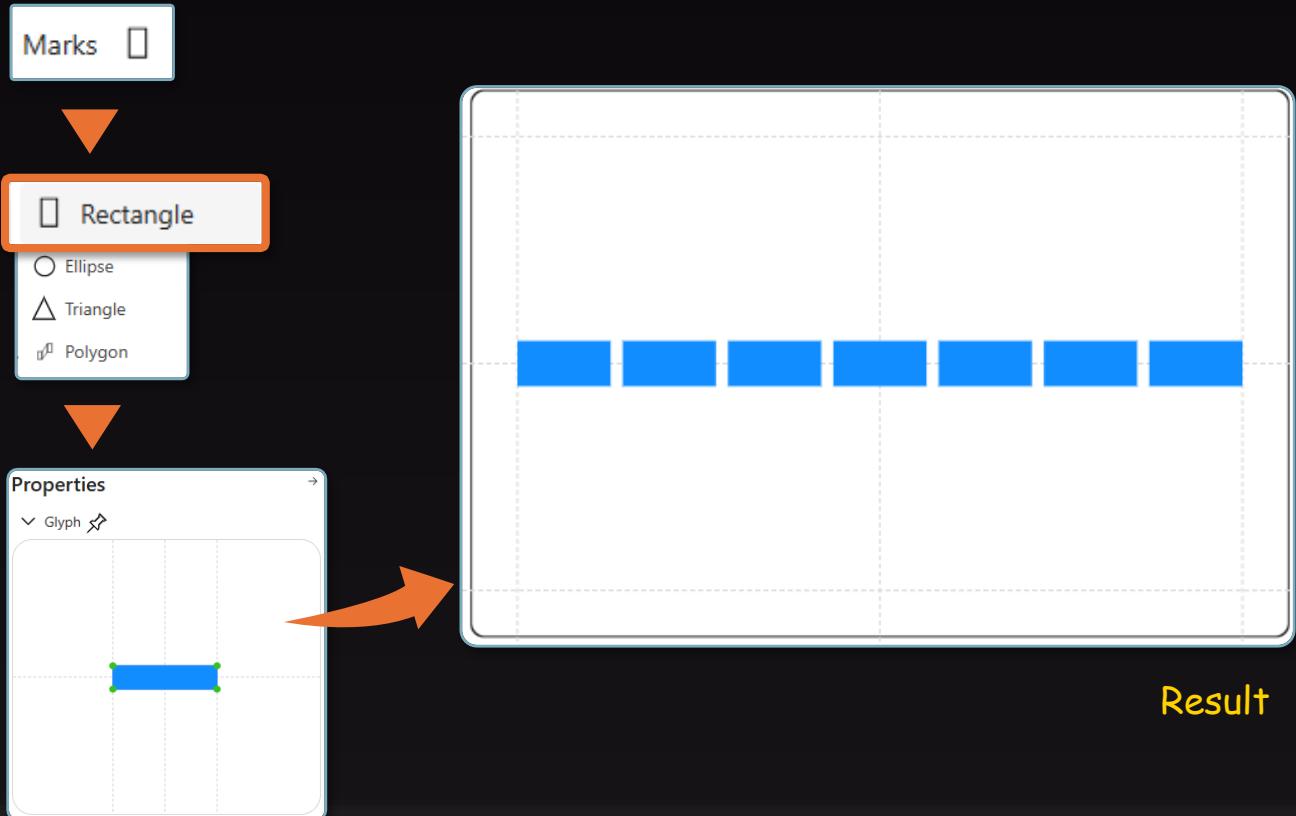
“From Rookie to Rock”

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"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Radial Bar Chart

Rename created objects



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

Before

The 'Layers' panel shows a tree structure under the 'Chart' node. The 'PlotSegment1' object is highlighted with a red dashed box and selected, as indicated by the blue border around its name in the 'Attributes' section below. Other objects like 'Glyph' and 'Shape1' are also listed.

Attributes

PlotSegment1



After

The 'Layers' panel shows the same tree structure after renaming. The 'PlotSegment1' object has been renamed to 'Bar Chart Radial', which is highlighted with a red dashed box. Another object, 'Country form', has also been renamed and is highlighted with a red dashed box. The original names 'Glyph' and 'Shape1' remain in the list.

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".

The screenshot shows the Power BI interface with the following elements:

- Dataset pane (left):** Contains a search bar and a list of fields:
 - Sum of Sales** (highlighted with an orange border)
 - Country form**
- Attributes pane (bottom-left):** Contains sections for **General** and **Width**. The **Width** section has a dropdown set to `avg('Sum of Sales')` and includes a **Change** button.
- Visual area (right):** Displays a radial bar chart with several blue segments of varying widths, representing the proportion of sales for different categories.

An orange arrow points from the **Sum of Sales** field in the dataset pane to the **Width** section in the attributes pane, indicating the drag-and-drop action.

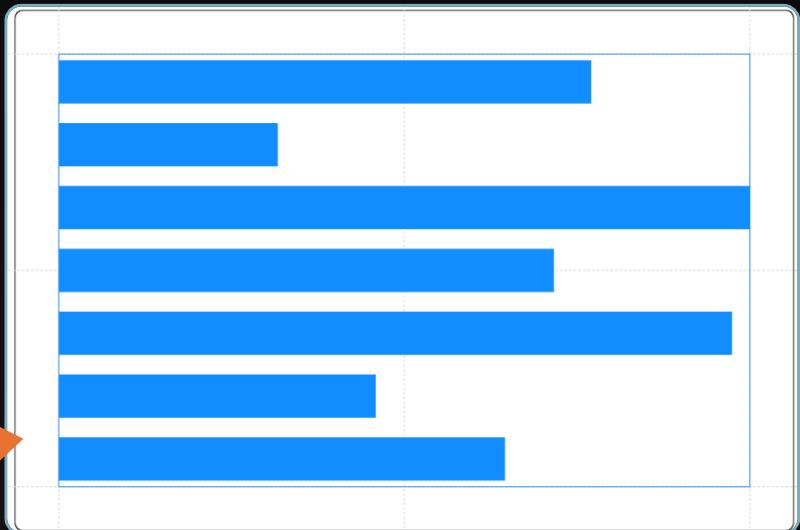
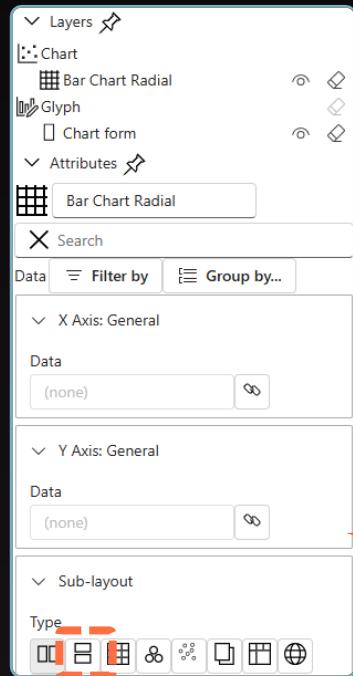
Result, now the segments have the proportion of the data provided

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"

Patou Tips #42

5 Advanced Charts (with Charticulator)

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"

The screenshot illustrates the configuration of a Radial Bar Chart. On the left, the "Properties" panel shows the "Y Axis: General" section with a "Data" dropdown set to "(none)". An orange callout arrow points from this dropdown to a separate screenshot of the Power BI interface. In this screenshot, a dropdown menu for "Sum of Sales" is open, showing options: "Country" (Unselected), "Flag name" (Unselected), and "Sum of Sales" (Unselected). Another orange callout arrow points from the "Sum of Sales" option in this menu to a third screenshot on the right. This third screenshot displays a radial bar chart with six blue bars of decreasing length, representing sorted data. Below the chart, the text "Result, the segments are sorted in descending order" is displayed.

Y Axis: General

Data
(none)

Sum of Sales

Country Unselected

Flag name Unselected

Sum of Sales Unselected

Average

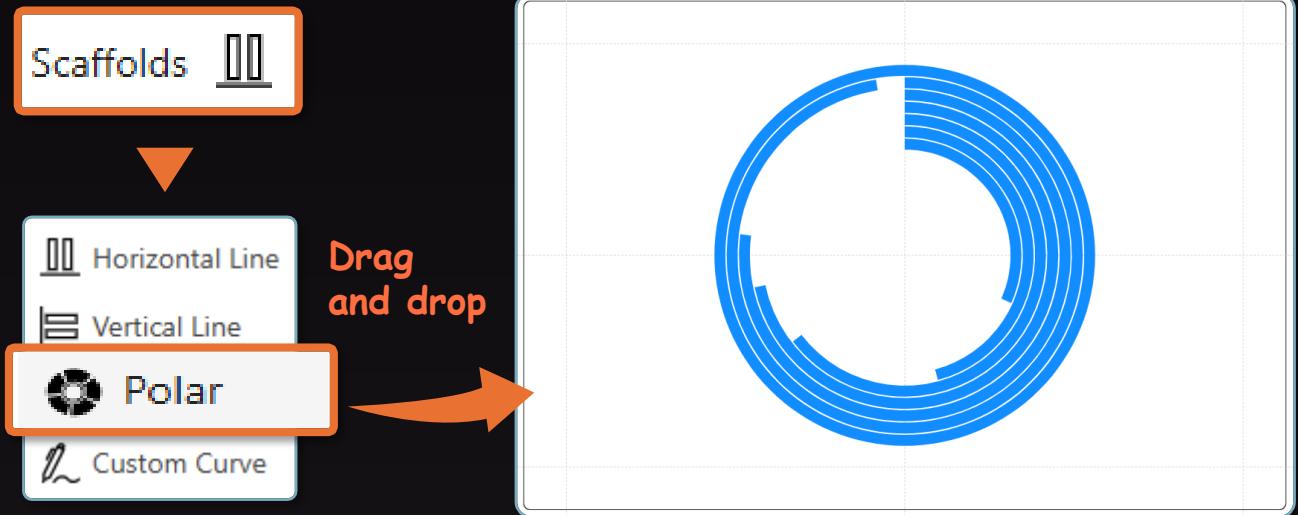
Result, the segments are sorted in descending order

Create Radial Bar Chart

Transform Bar Chart into Radial Bar Chart



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



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

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

The screenshot illustrates the process of creating a radial bar chart. On the left, the 'Dataset' pane shows a 'Fields' section with a 'Main' category containing a 'Country' field, which is highlighted with a red dashed box and a large orange arrow pointing down labeled 'Drag and drop'. Below it, the 'Style' pane shows a 'Fill' section with a dropdown menu set to 'first(Country)', also highlighted with a red dashed box and a smaller orange arrow pointing right towards the chart area. On the right, a circular radial bar chart is displayed, showing multiple colored segments representing different countries.

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 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.



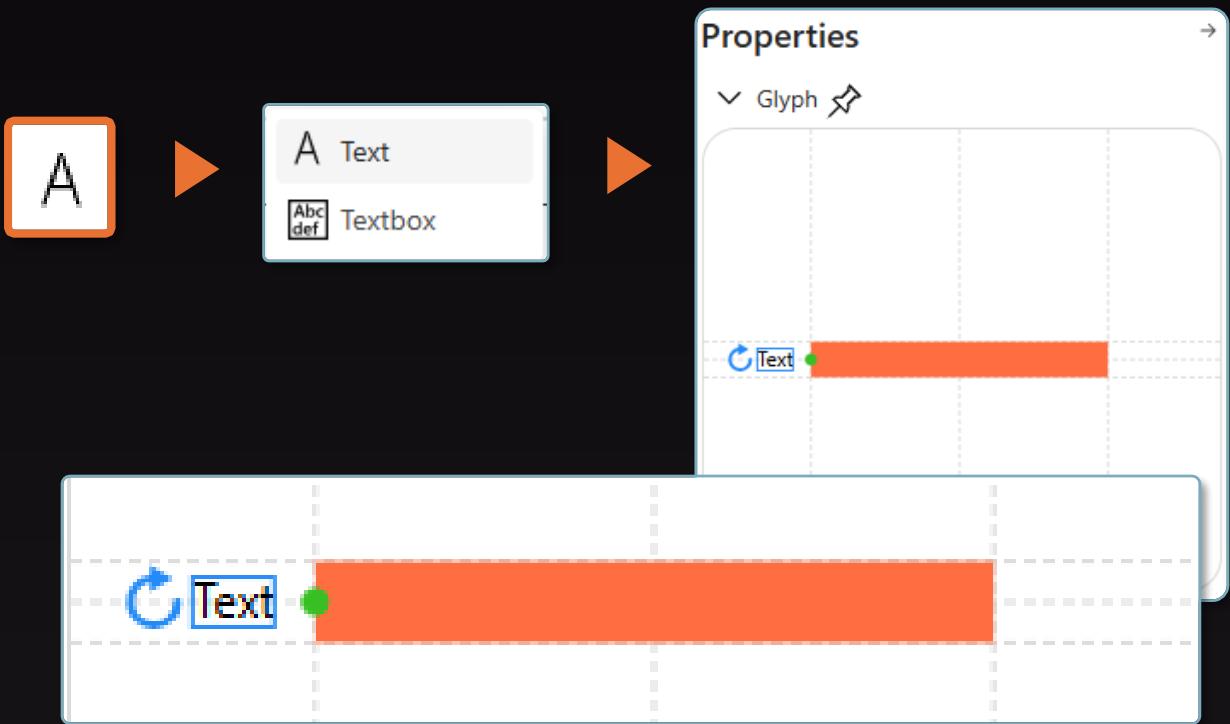
Result, the Radial Bar Chart is open

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.

Create Radial Bar Chart Add "Country Label" (2/3)



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

The screenshot illustrates the steps to add a country label to a radial bar chart. On the left, the 'Dataset' pane shows a 'Country' field. An orange arrow labeled 'Drag and drop' points from this field to the 'Properties' pane. The 'Properties' pane has a 'Glyph' section where 'Austria' is selected. A large orange arrow points from the 'Properties' pane to the resulting radial bar chart on the right. The chart displays six countries: Italy, France, Switzerland, Germany, Austria, and Belgium, each represented by a colored wedge. The 'Properties' pane also shows a preview of the 'Austria' label.

Properties

✓ Glyph

Austria

Country

Drag and drop

Austria

Italy France Switzerland Germany Austria Belgium Spain

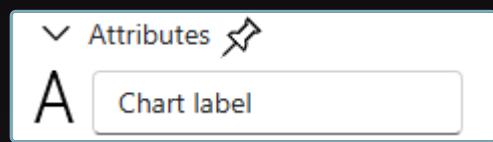
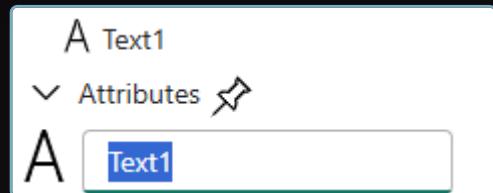
Result, "Country" label appear into the Radial Bar Chart

Create Radial Bar Chart

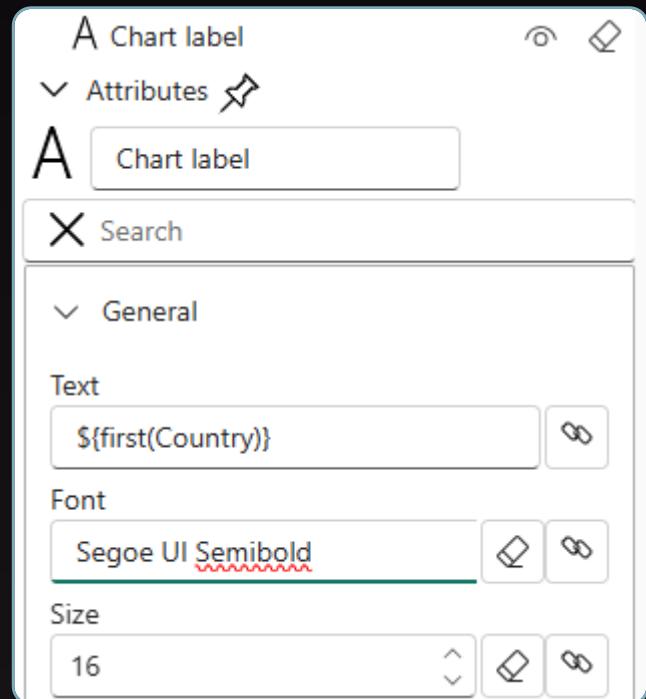
Add "Country Label" (3/3)



Rename the created object, for clarity in building the project



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

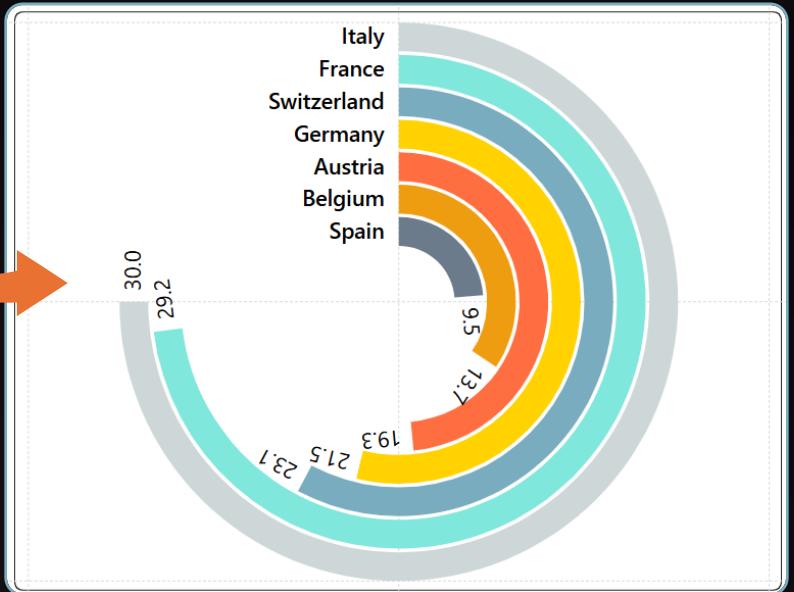
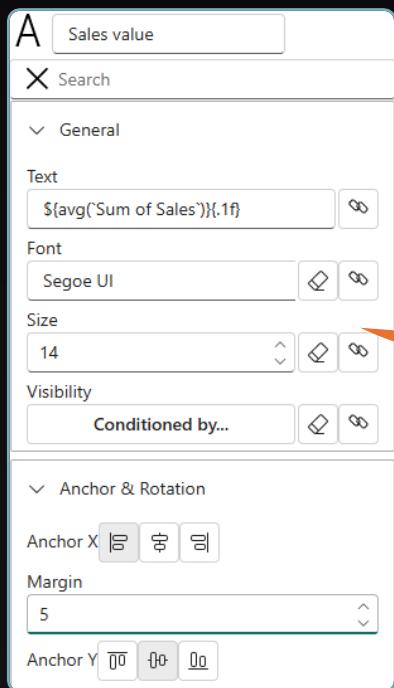


Create Radial Bar Chart

Add "Sales Value"



Repeat the same action as for "Country Label"



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

Start with PowerBI

"From Rookie to Rock"

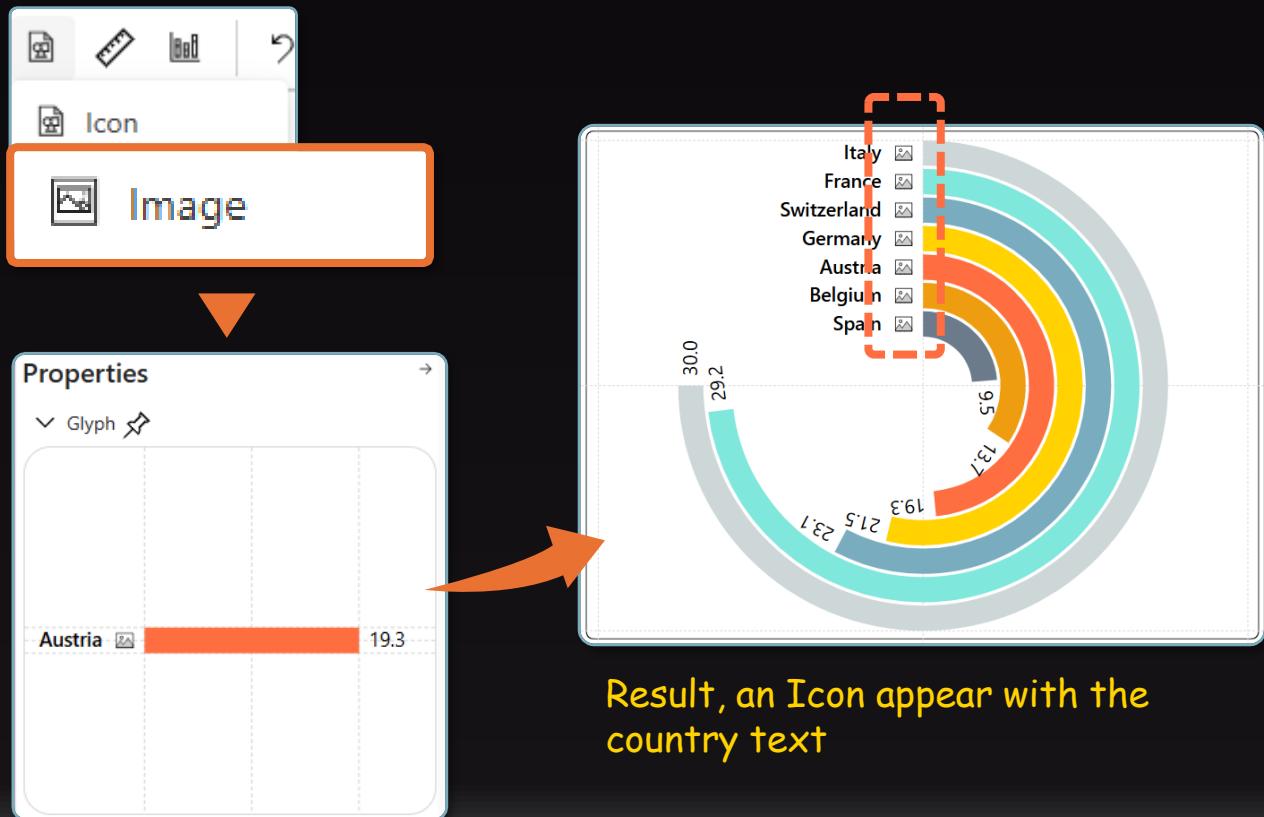
Patou Tips #42

5 Advanced Charts (with Charticulator)

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

Create Radial Bar Chart

Add "Country flags" (2/3)



Rename the created object, for clarity in building the project

A screenshot of the dataset pane in Power BI. It shows a single field named 'Icon1'. Below it, under 'Attributes', there is a small icon and the text 'Icon1'.



A screenshot of the dataset pane in Power BI. It shows a single field named 'Flags'. Below it, under 'Attributes', there is a small icon and the text 'Flags'.

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

A screenshot of the style pane for the 'Flags' object. Under 'Icon', there is a field labeled 'Image' containing the expression 'first('Flag name')'.

▼ Drag and drop

A screenshot of the style pane for the 'Flags' object. Under 'Icon', there is a field labeled 'Image' containing the expression 'first('Flag name')'.

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 process of assigning flag files to countries in a radial bar chart. It shows three main windows:

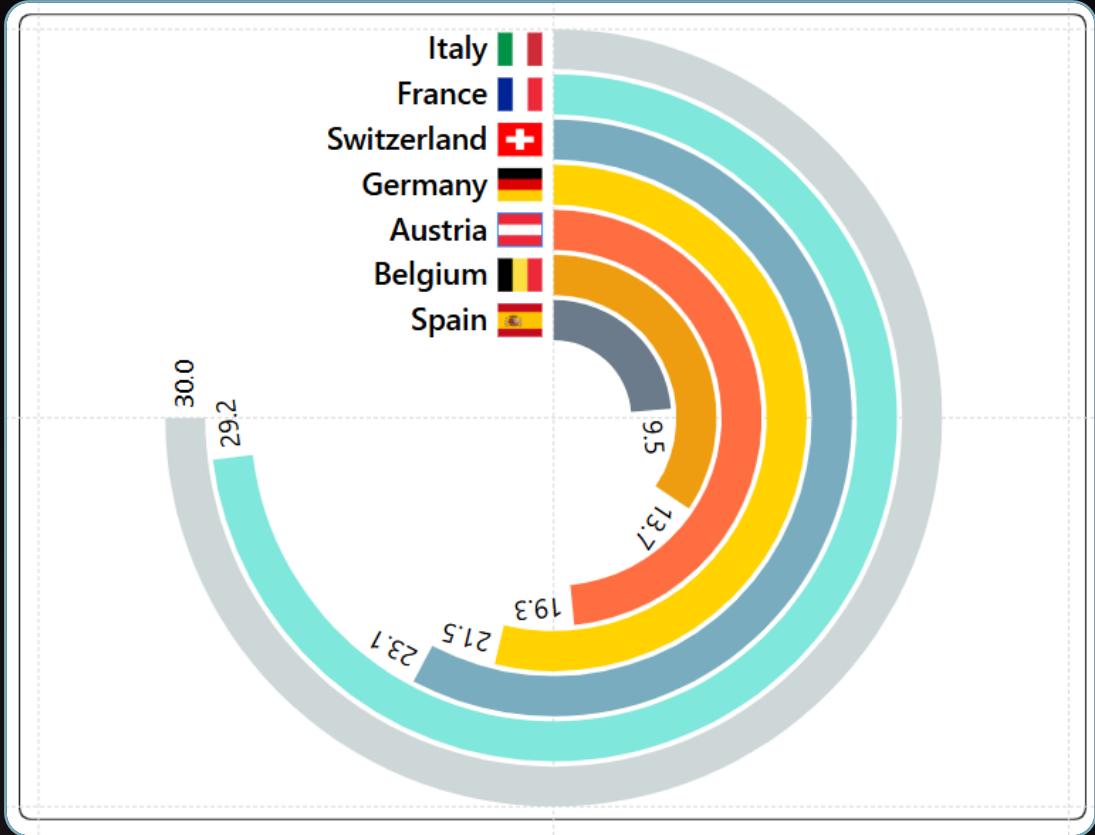
- Dataset pane:** Shows fields like Country, Flag name, and Sum of Sales, and scales like Scale1, Scale2, and Scale4. Scale4 is highlighted with an orange box and has its image mapping assigned to "Flags.Image".
- Create scale dialog:** Shows the configuration for Scale4, including the scale type as "scale.categorical<string,image>" and the domain source table as "main". The "Image Mapping" section lists countries with their corresponding flag icons. Austria's icon is highlighted with a red dashed box, and the "X" button next to it is highlighted with an orange box.
- File Explorer:** A Windows-style file browser showing a folder named "#37 Patou Tips (Radial Bar Chart ... > Flags". It contains several image files: Austria.png, Belgium.jpg, France.jpg, Germany.jpg, Italy.jpg, Spain.jpg, and Switzerland.png. Each file is preceded by a green circular icon with a checkmark.

Start with PowerBI

“From Rookie to Rock”

Create Radial Bar Chart

That's all folks!



Start with PowerBI

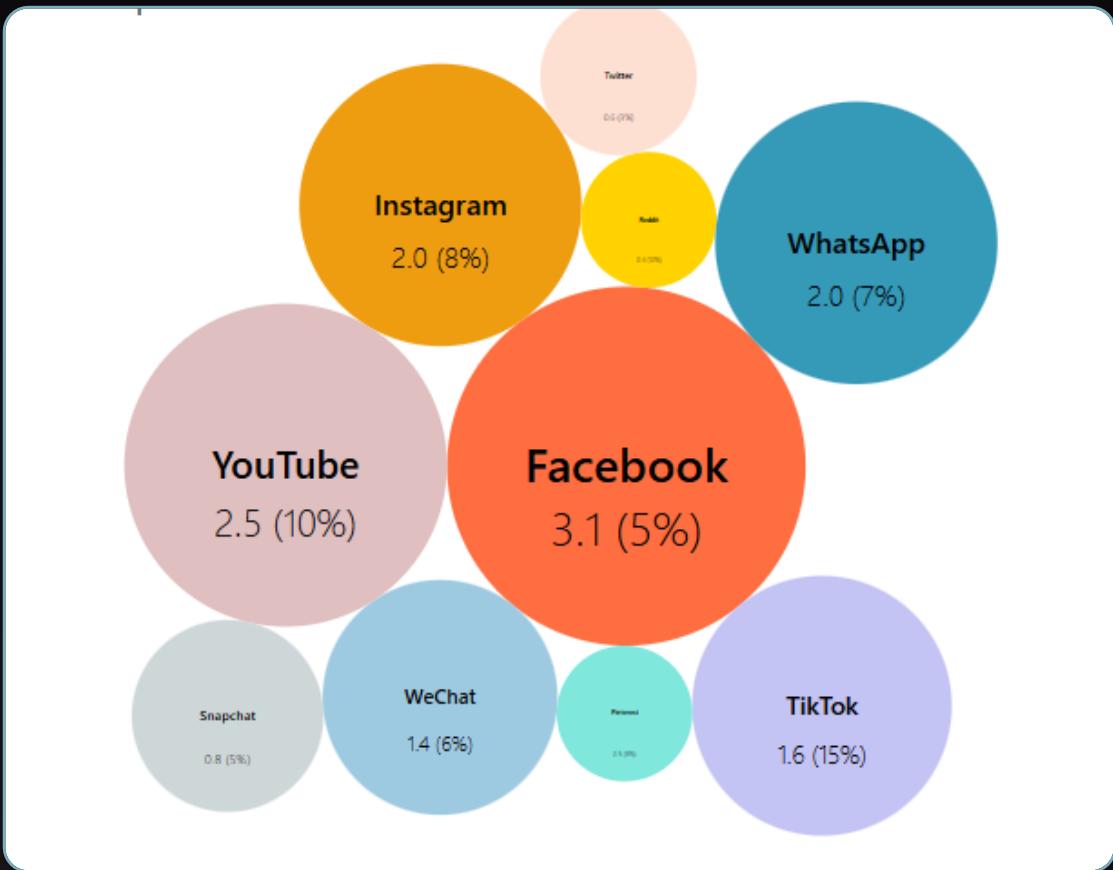
"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)



Bubble Chart (with Charticulator)



Start with PowerBI

"From Rookie to Rock"

Create Bubble Chart

Start a chart...



1



Choose
“Charticulator”
on the build
pane.

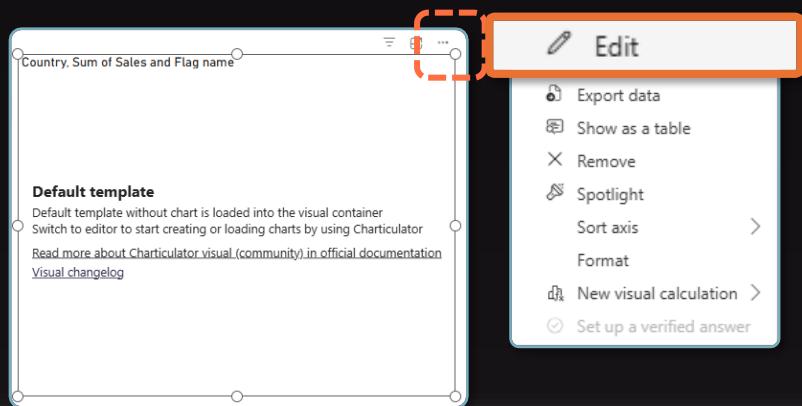
2

Data			
Social Network	X		>
Market share (%)	X		>
Number of users (in billions)	X		>
Annual growth (%)	X		>

Drag and drop the
data fields for the
chart in the data
from the “Build
Pane”. Note: I
rename fields to
delete “sum”

3

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



Start with PowerBI

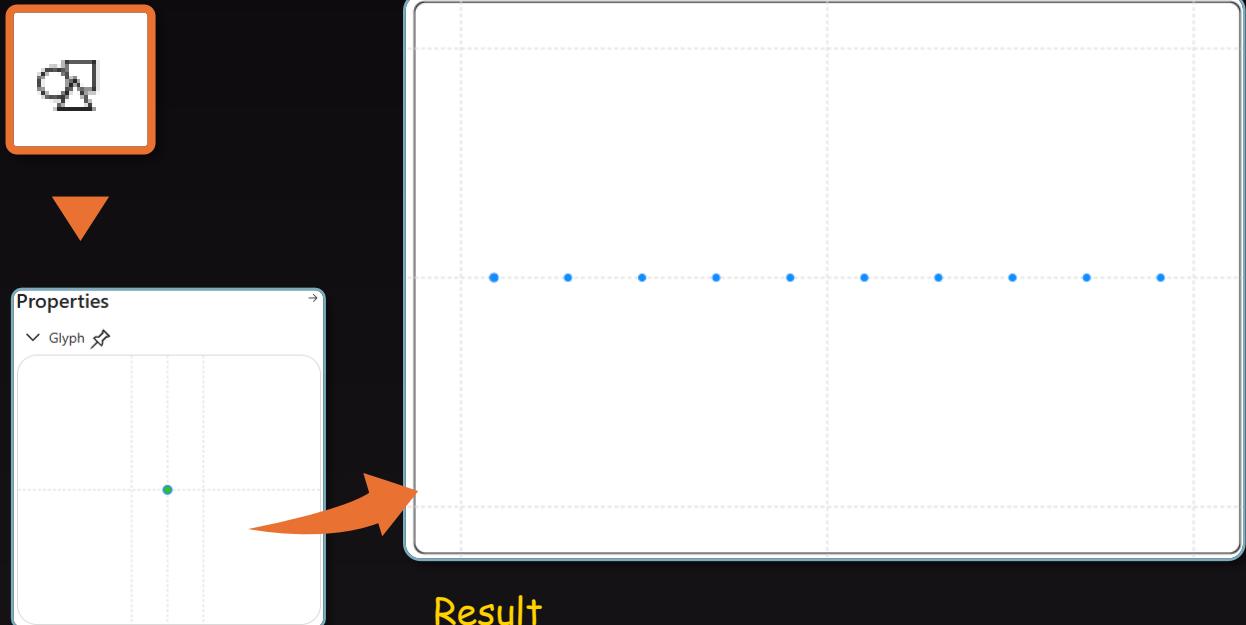
“From Rookie to Rock”

Create Bubble Chart

Main form



Select the "Symbol" menu, and draw a shape in the middle of the Glyph window from the Properties pane



Result

Note: There are 10 "Bubbles" because there are 10 social networks

Create Bubble Chart

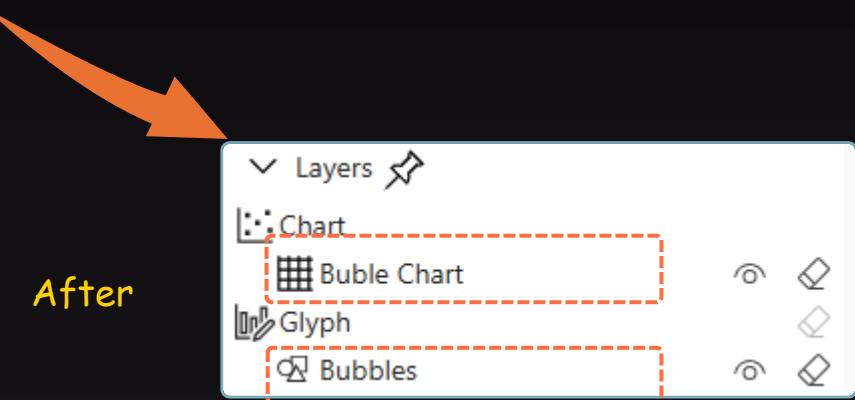
Rename created objects



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



Before



After

Create Bubble Chart

Proportion of the Bubbles



Drag and drop the fields "Market share" from the "dataset pane" in the field "Size" in the attributes part of the field "Bubbles", and "Social Network" in "Fill".

The screenshot shows the Power BI Properties pane for a bubble chart. The top section, labeled "Bubbles", has "Market share (%)" selected in the "Size" dropdown. The bottom section, labeled "Style", has "Social Network" selected in the "Fill" dropdown. Both sections have "avg('Market share (%)')" assigned to their respective fields. An orange arrow points from the pane to a bubble chart on the right, which displays several small bubbles of varying sizes and colors (red, orange, yellow, green, blue, purple) arranged horizontally.

Result: now the "Bubbles" have the proportion of the data provided

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

Start with PowerBI

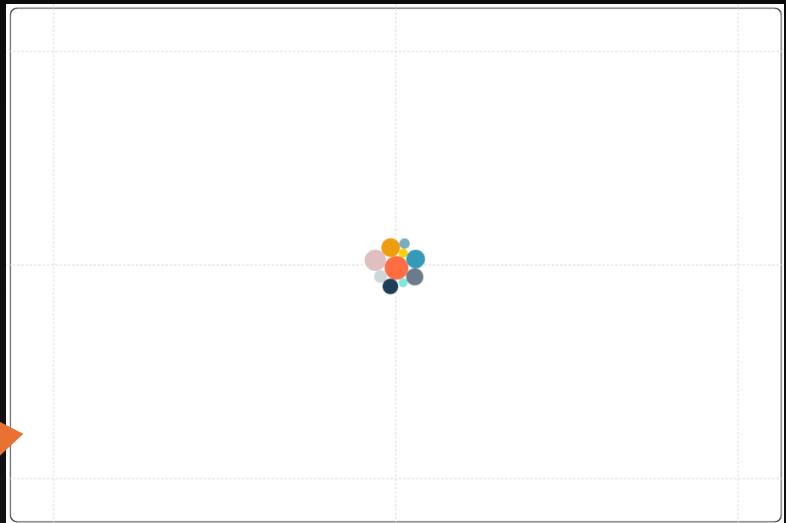
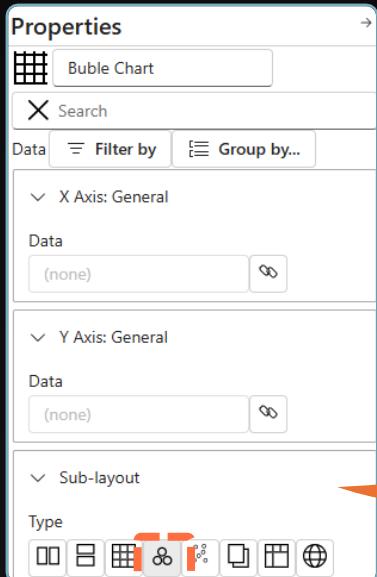
"From Rookie to Rock"

Create Bubble Chart

Pack Bubbles



In the "Type" of the "Sub-layout" attributes of the "Bubble Chart", choose "Packing"



Result, the Bubbles are packed



Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Bubble Chart

Adjust size of Bubbles



Select to modify properties of "Bubbles size" in the Dataset pane, a Pop-Up appear and adjust "End" value in the Range attributes.

The screenshot illustrates the process of creating a bubble chart in Power BI. It shows three main components:

- Dataset pane:** A window titled "Scale2" containing a "Bubbles.Size" column. The "Range" section shows "Start" at 0 and "End" at 628.32.
- Range attribute editor:** A pop-up window titled "Range" with "Start" at 0 and "End" at 25000. The "End" field is highlighted with a red dashed border.
- Bubble chart preview:** A preview area showing several bubbles of varying sizes. The bubbles are colored in shades of orange, yellow, blue, pink, and grey, with the largest bubbles corresponding to the highest values in the dataset.

Orange arrows point from the "End" field in the Dataset pane to the "End" field in the Range attribute editor, and then from the Range attribute editor to the bubble chart preview.

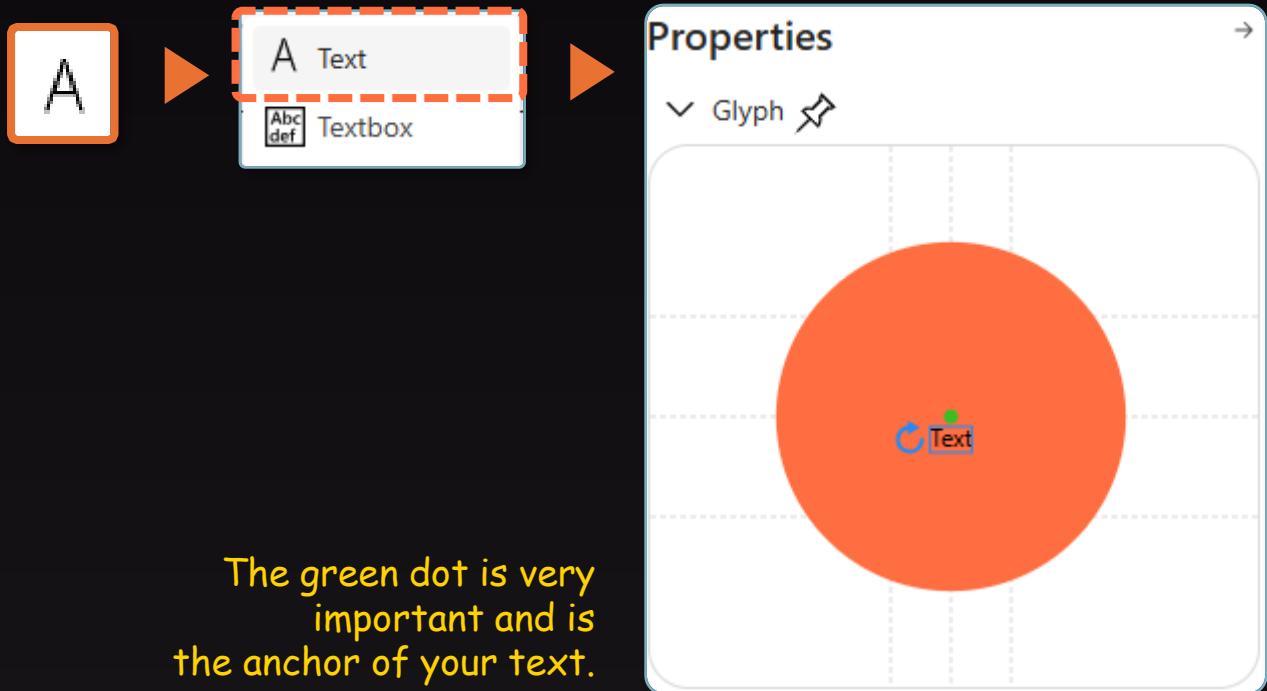
Result, the Bubbles are bigger

Create Bubble Chart

Add "Social Network Label" (1/3)



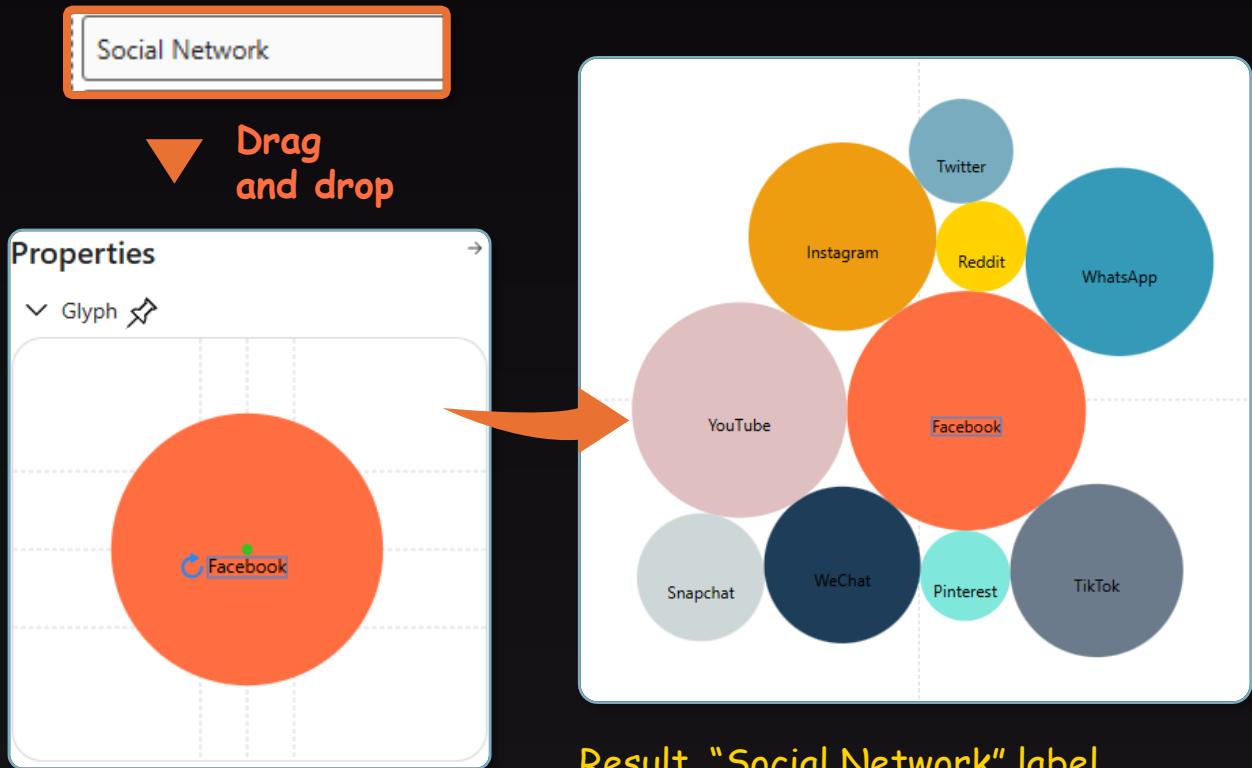
From the "Text" menu, choose "Text" and draw a shape in the Glyph window from the Properties pane



Create Bubble Chart Add "Country Label" (2/3)



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



Result, "Social Network" label appear into the Bubble Chart

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

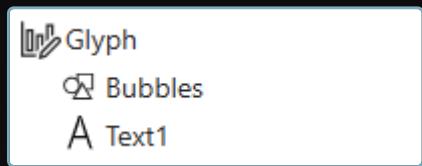
5 Advanced Charts (with Charticulator)

Create Bubble Chart

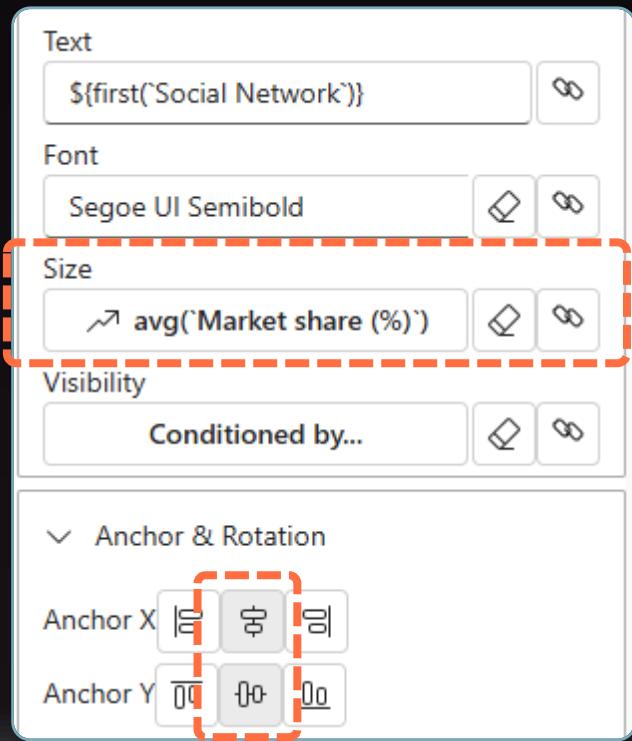
Add "Country Label" (3/3)



Rename the created object, for clarity in building the project



Change the settings in the attributes of the "Social Network label". Drag and drop the field "Market Share" in the Size parameter.





Create Bubble Chart

Add "User and annual growth label"

Repeat the same action as for "User and annual growth label"

- Note in the Text parameter, wrote the code below to aggregate 2 informations, Number of users" and "Annual growth".
- Code: \${avg(` Number of users (in billions)`)}{.1f} (\${avg(` Annual growth (%)`)}%)

Properties

Attributes A User and annual growth la

X Search

General

Text: \${avg('Number of users (in billions)')}

Font: Segoe UI Light

Size: avg('Market share (%)')

Visibility: Conditioned by...



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

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Bubble Chart
That's all folks!

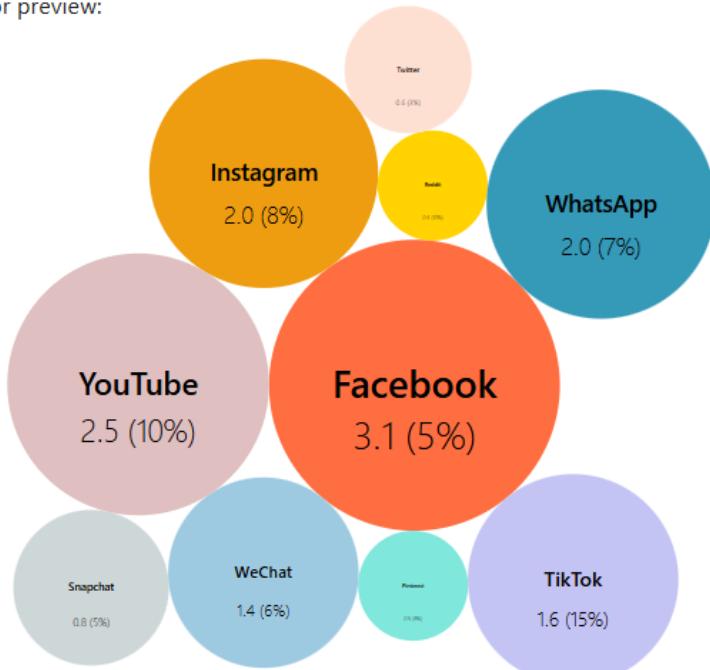


Bubble Chart (with Charticulator)

Social Network Market share 2025 (Top 10)

Number of users in billions (Growth %)

Editor preview:

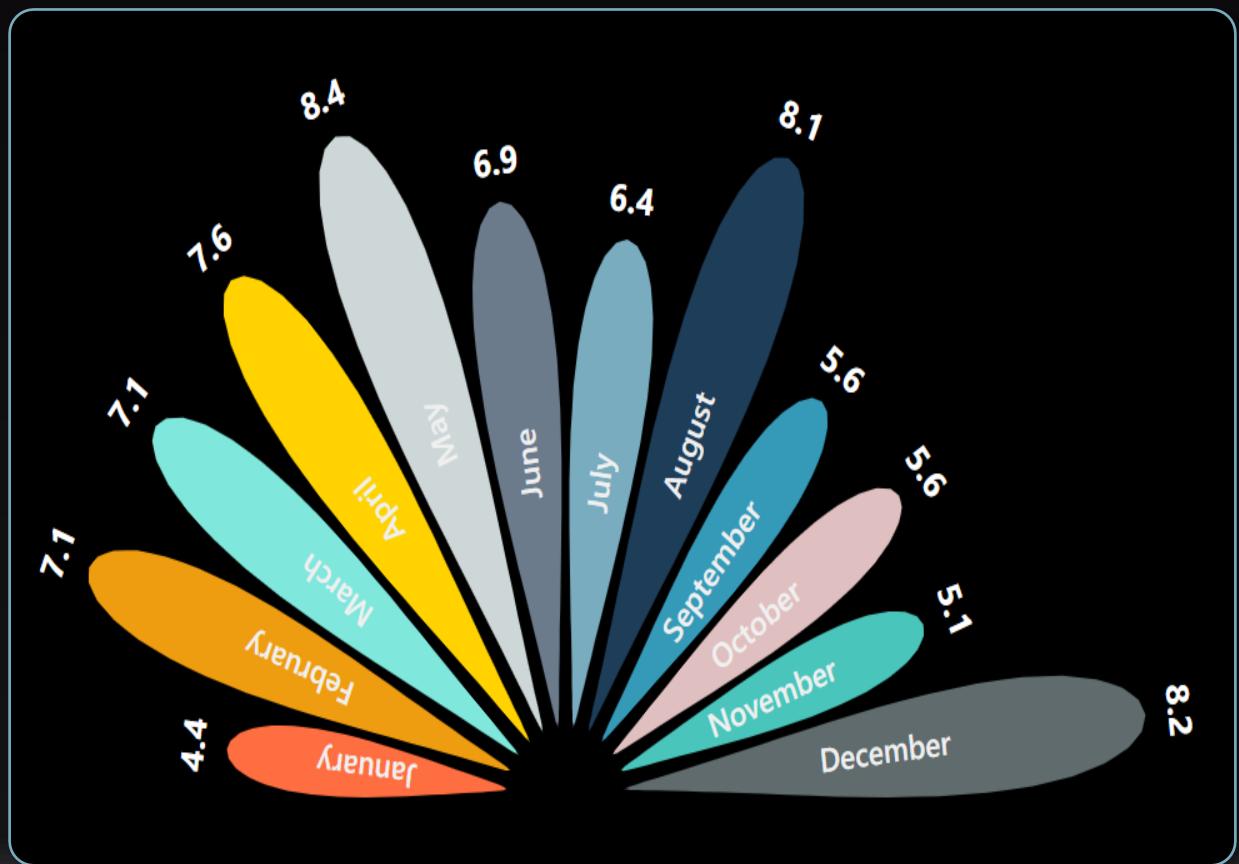


Start with PowerBI

"From Rookie to Rock"



Peacock Chart (with Charticulator)



Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Peacock Chart

Start a chart...



1



Choose
“Charticulator”
on the build
pane.

2

Data

- Month_Id
- Month
- Sum of Km/dam

+Add data

Drag and drop the
data fields for the
chart in the data
from the “Build
Pane”. Note: Don’t
summarize the field
“Month_Id”

3

A window appears,
in the top right
corner click on
the “...” and
choose “Edit” to
launch
“Charticulator”

Country, Sum of Sales and Flag name

Default template

Default template without chart is loaded into the visual container
Switch to editor to start creating or loading charts by using Charticulator
Read more about [Charticulator.visual \(community\)](#) in official documentation
[Visual changelog](#)

...

Edit

- Export data
- Show as a table
- Remove
- Spotlight
- Sort axis
- Format
- New visual calculation
- Set up a verified answer

Start with PowerBI

“From Rookie to Rock”

Patou Tips #42

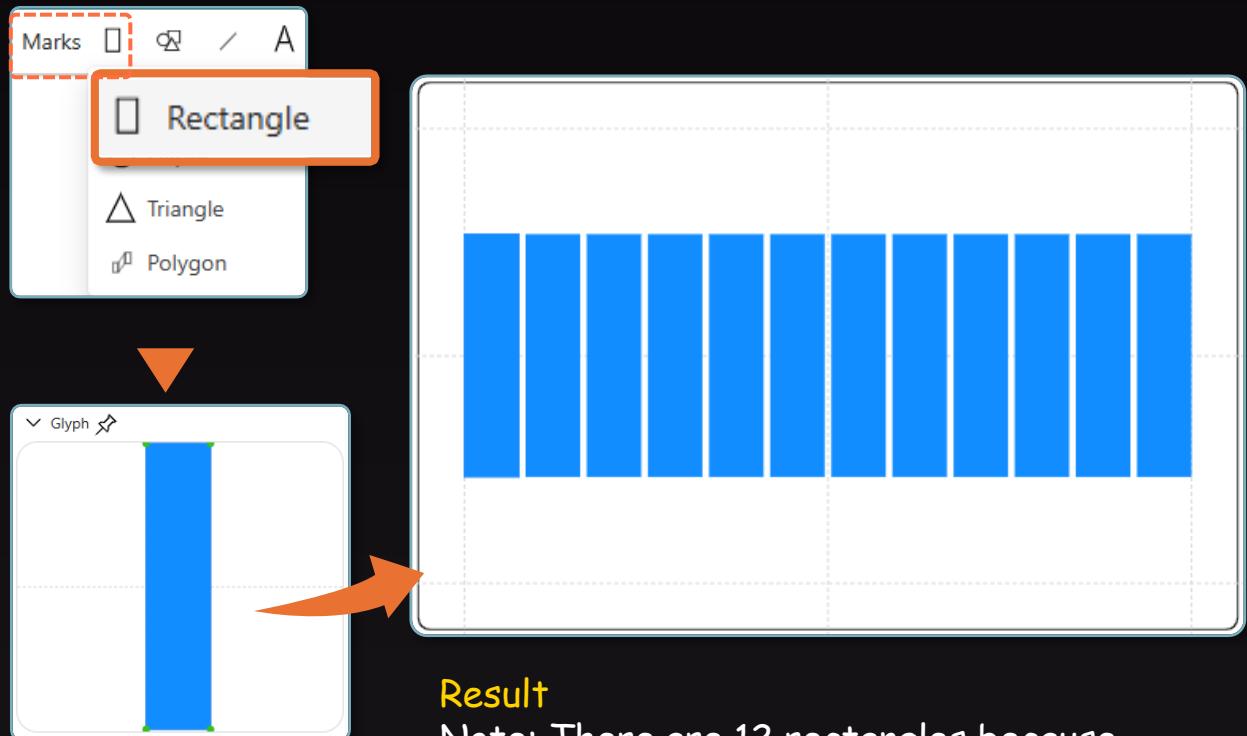
5 Advanced Charts (with Charticulator)

Create Peacock Chart

Main form



Select the "Rectangle" in the marks menu, and draw a shape in the middle of the Glyph window from the Properties pane



Result

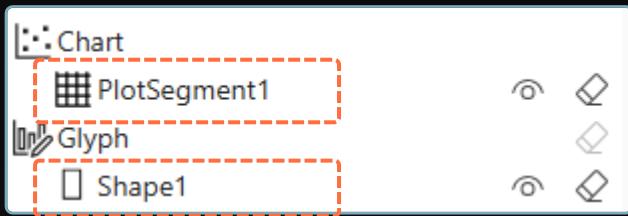
Note: There are 12 rectangles because there are 12 months

Create Peacock Chart

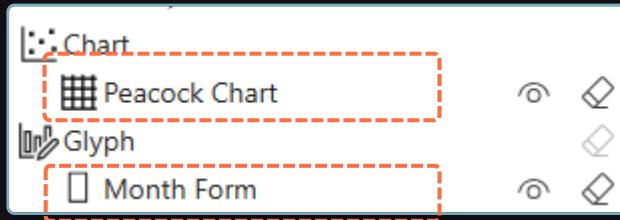
Rename created objects



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



Before



After

Create Peacock Chart

Transformation of the Rectangle



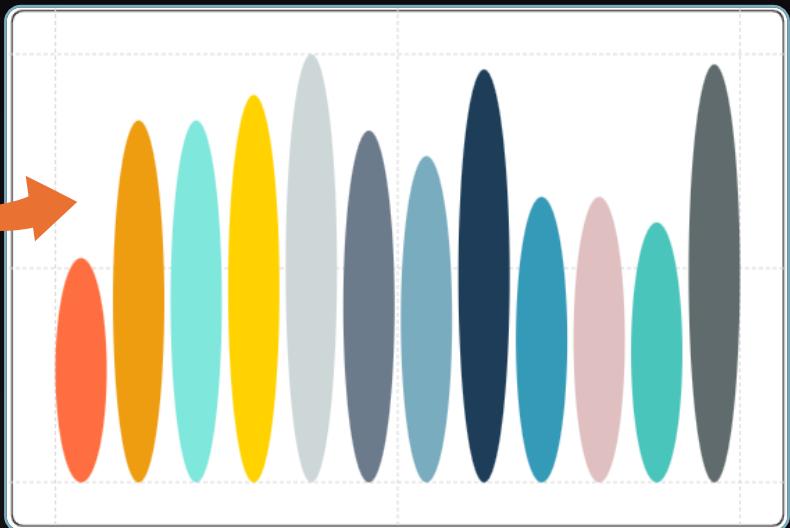
Drag and drop the fields "Sum of Km/day" from the "dataset pane" in the field "Height" in the attributes part of the field "Month Form", and "Month" in "Fill".

The screenshot shows the 'Properties' panel with two main sections highlighted by orange boxes:

- Attributes**: Contains a dropdown menu labeled "Month Form". Below it, the "Height" field is set to "avg('Sum of Km/day 2024')".
- Shape**: Set to "Ellipse".

Below these, under "Fill", the "Month" field is set to "first(Month)".

Two orange arrows point from the highlighted sections to the resulting chart on the right.



Result: "Rectangles" have the proportion of the provided data and have become "Ellipses".

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

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

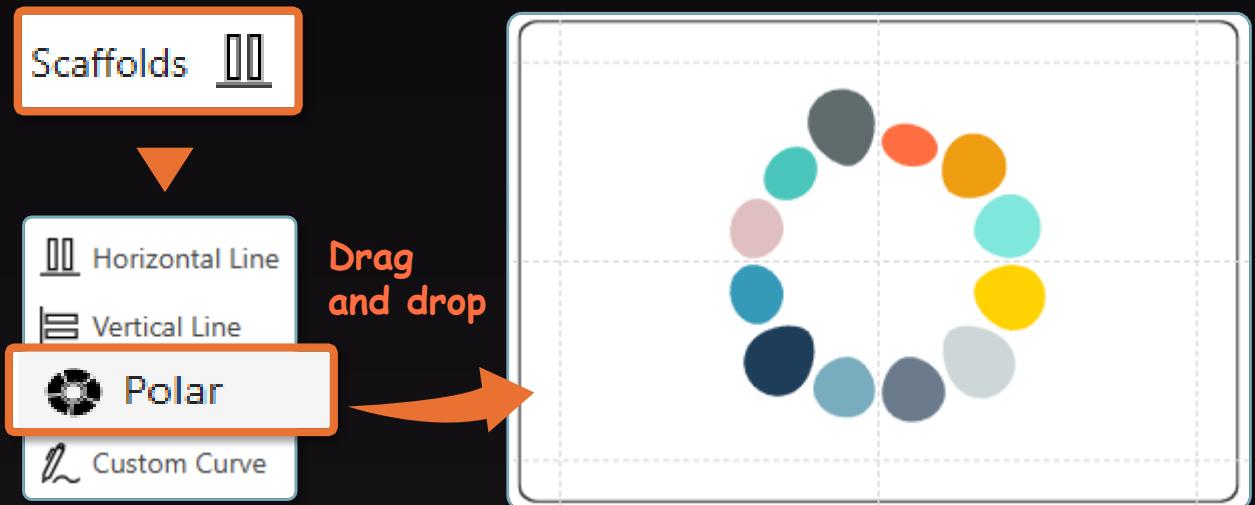
5 Advanced Charts (with Charticulator)

Create Peacock Chart

Transform Ellipse Chart into Radial Ellipse Chart



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



Result:

Ellipse Chart are transformed into a
Radial Ellipse Chart

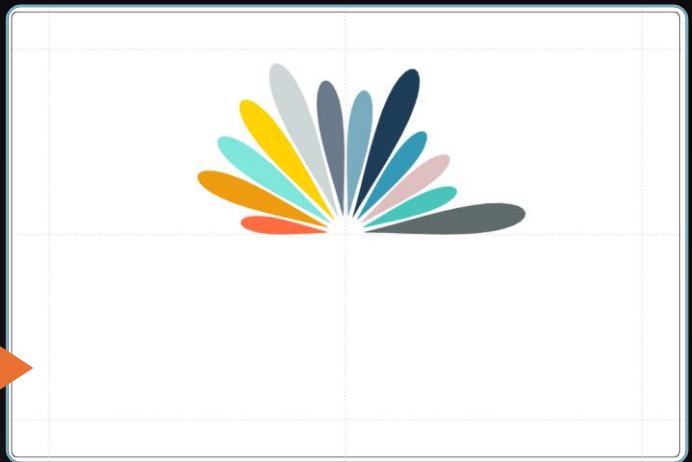
Create Peacock Chart

Peacock 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.

The screenshot shows the Power BI 'Properties' pane with the 'Peacock Chart' selected. The 'Angle' input field is highlighted with a red dashed border. The 'Radius' section shows 'Inner:' set to 0.1 and 'Outer:' set to 1. An orange arrow points from the highlighted 'Angle' field to the resulting chart on the right.



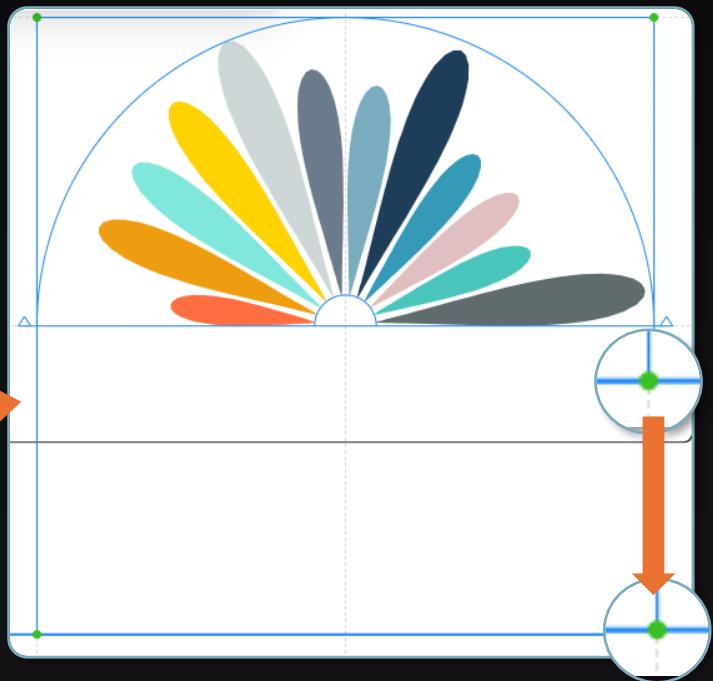
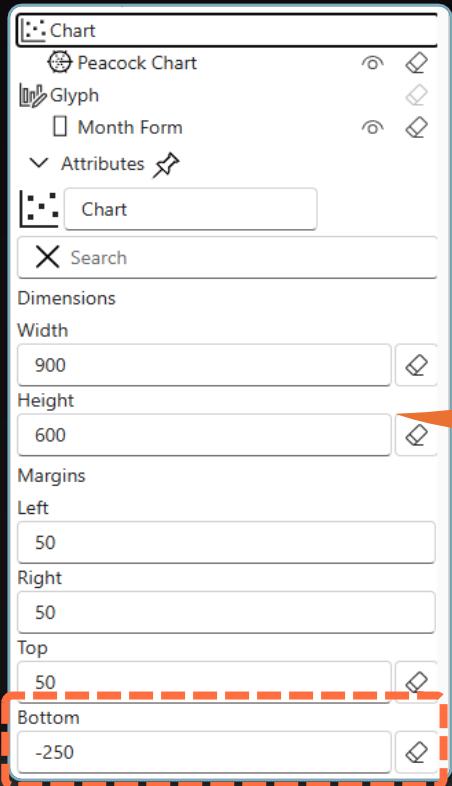
Result:
Ellipse Bar Chart become a Peacock
Chart is open

Create Peacock Chart

Extend chart



In the "Dimension" of the "Bottom Chart" attributes, write "-250" and drag the lower right point down to expand the chart format.



Result, the Bubbles are packed

Start with PowerBI

"From Rookie to Rock"

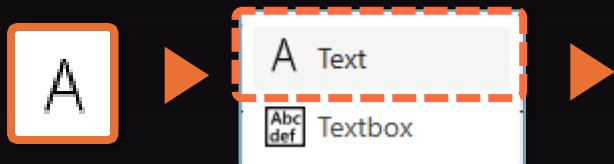
Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Peacock Chart Add "Month Label" (1/2)



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. Put it in the middle of the form

Create Peacock Chart

Add "Month Label" (2/2)



Change the name of the created object and its attributes, font, font size, anchor and rotation...

Properties

Attributes

Month Label

Month

General

Text: \${first(Month)}

Font: Segoe UI Semibold

Size: 18

Visibility

Conditioned by...

Anchor & Rotation

Anchor X: 100

Anchor Y: 100

Rotation: 90

Result, "Social Network" label appear into the Bubble Chart

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Peacock Chart

Add "Km/day Value Label"



Properties

A Km/day Value Label

X Search

General

Text: \${avg('Sum of Km/day 2024')}{.1f}

Font: Segoe UI Bold

Size: 20

Visibility: Conditioned by...

Anchor & Rotation

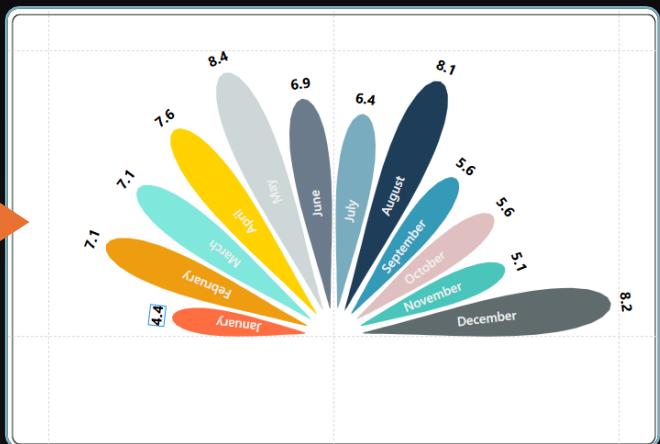
Anchor X: 100

Anchor Y: 100

Margin: 10

Rotation: 0

Repeat the same action as for
"Km/day Value Label"



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

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Peacock Chart

Background color (variation)



You can change the color background, to have a second Peacock Chart version.

Chart

X Search

Dimensions

Width
900

Height
600

Margins

Left
50

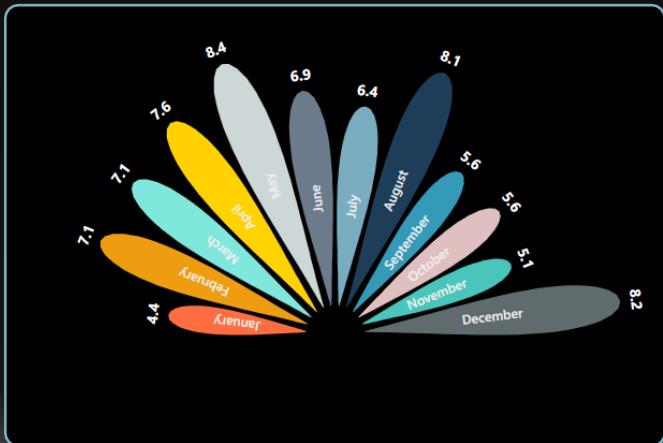
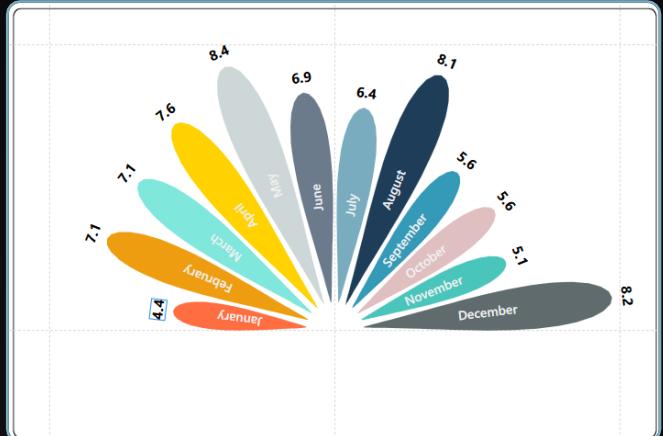
Right
50

Top
50

Bottom
-250

Background

Color
#000000



Start with PowerBI

"From Rookie to Rock"

Create Peacock Chart

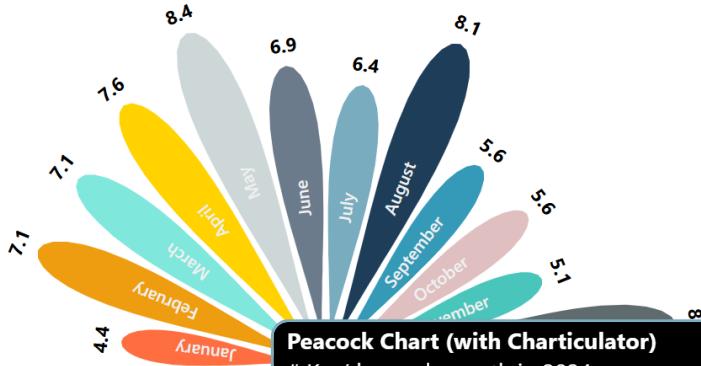
That's all folks!



Peacock Chart (with Charticulator)

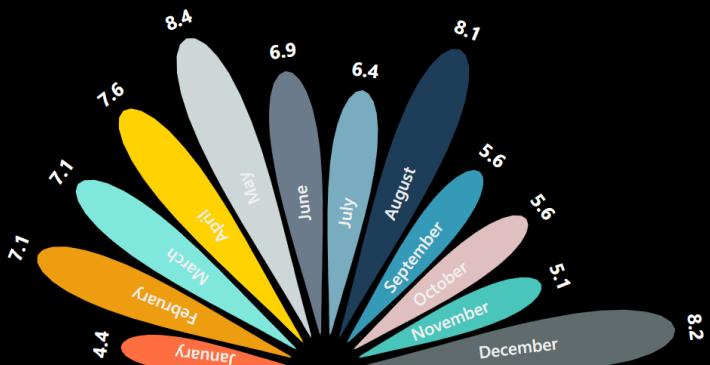
Km/day each month in 2024

Editor preview:



Peacock Chart (with Charticulator)

Km/day each month in 2024



Start with PowerBI

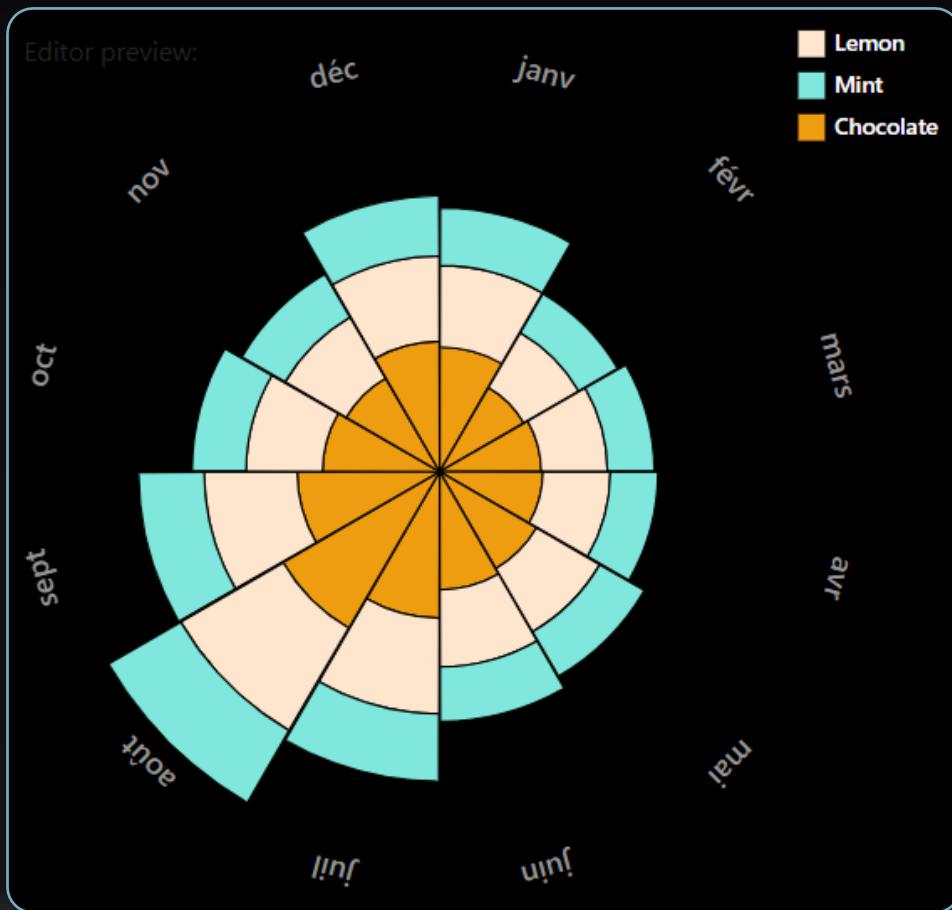
"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)



Nightingale Chart (with Charticulator)



Start with PowerBI

"From Rookie to Rock"

Create Nightingale Chart

Start a chart...

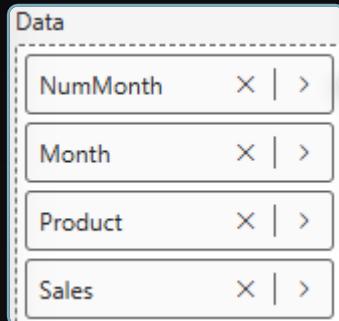


1



Choose
“Charticulator”
on the build
pane.

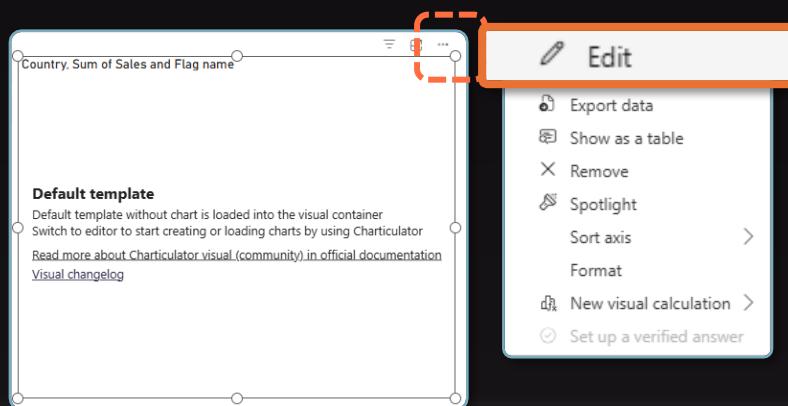
2



Drag and drop the
data fields for the
chart in the data
from the “Build
Pane”. Note: Don’t
summarize the field
“NumMonth”

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”

Patou Tips #42

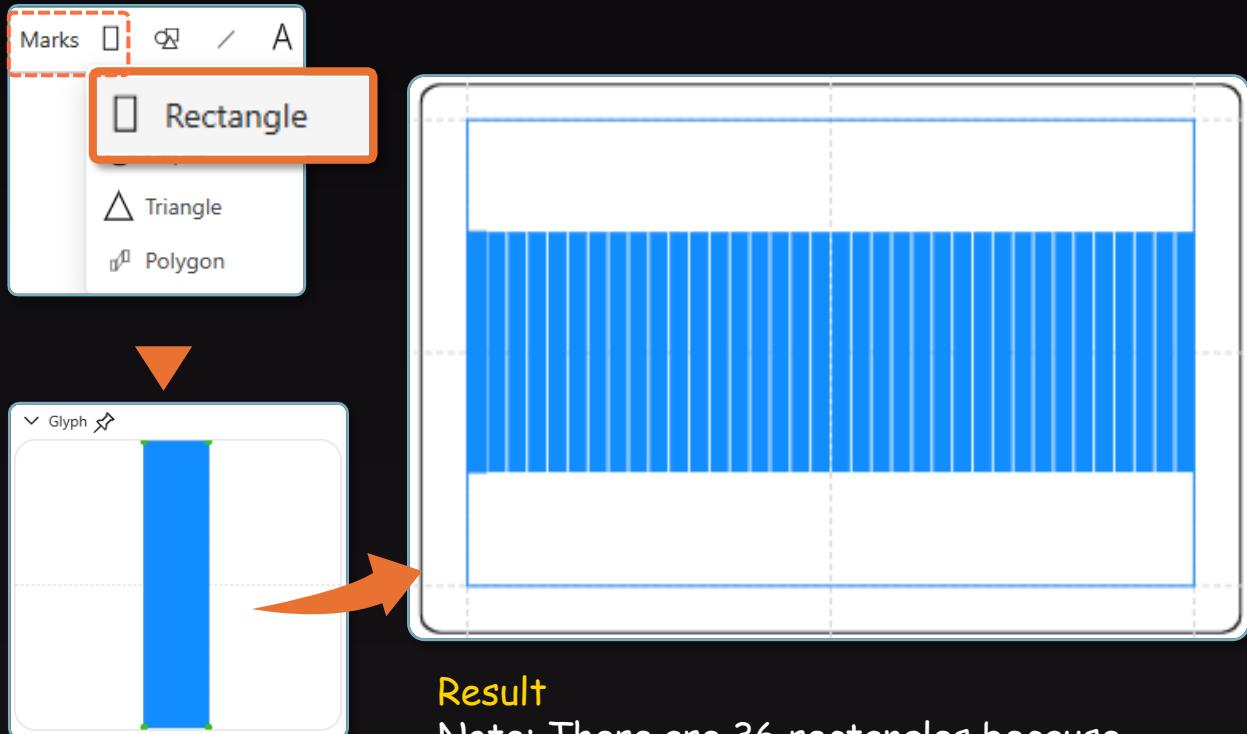
5 Advanced Charts (with Charticulator)

Create Nightingale Chart

Main form



Select the "Rectangle" in the marks menu, and draw a shape in the middle of the Glyph window from the Properties pane



Result

Note: There are 36 rectangles because there are 12 months and 3 products (3x12)

Create Nightingale Chart

Rename created objects



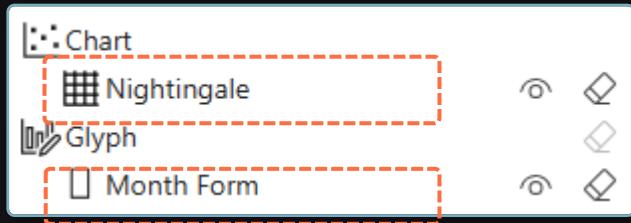
Rename the created object, "Graphic" and "Main Form" for clarity in building the project



Before



After



Create Nightingale Chart

Transformation of the Rectangle



Drag and drop the fields "Sum of Km/day" from the "dataset pane" in the field "Height" in the attributes part of the field "Month Form", and "Month" in "Fill".

The screenshot shows the Power BI Properties pane with two objects selected for transformation:

- Sales:** Under the "Attributes" section, the "Height" field is set to `avg(Sales)`. A red box highlights this field with the text "Drag and drop".
- Product:** Under the "Fill" section, the color is set to `first(Product)`. A red box highlights this field with the text "Drag and drop".

An orange arrow points from the Properties pane to a preview window on the right, which displays a Nightingale chart consisting of several colored rectangles of varying widths and heights.

Result: "Rectangles" have the proportion of the provided data.

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

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

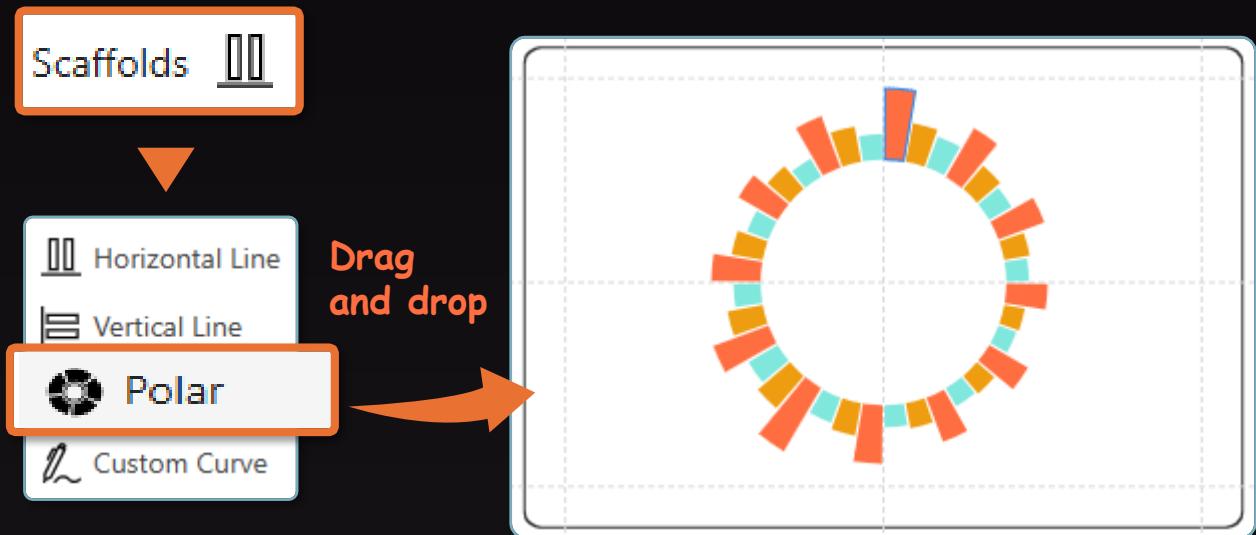
5 Advanced Charts (with Charticulator)

Create Nightingale Chart

Transform Bar Chart into Radial Bar Chart



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



Result:

Bar Chart are transformed into a Radial Bar Chart

Create Nightingale Chart

Nightingale Chart settings



Properties

Nightingale Chart

Radius
Inner:
0

Angular Axis: General

Data
first(Month)

Order by
Month

Gap
1

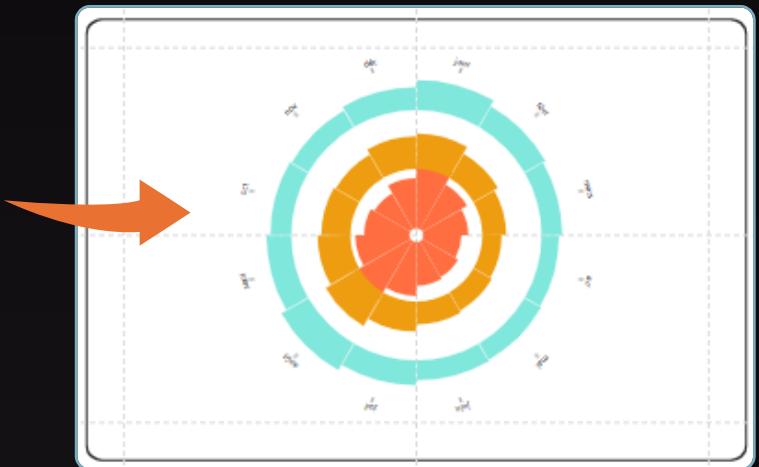
Sub-layout

Type
Bar

Alignment

Gap
0

Change the settings in the attributes of the "Radial Bar Chart"...



Result:
Radial Bar Chart become a Nightingale Chart

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

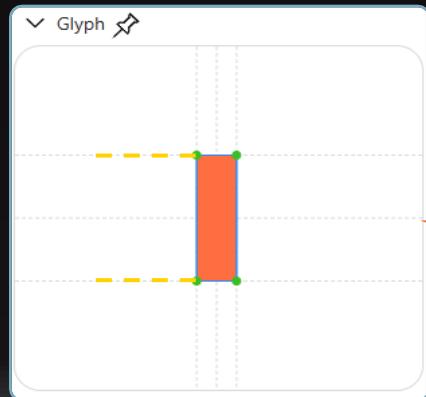
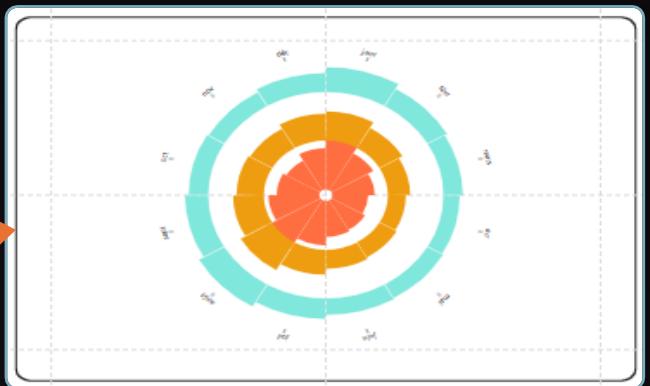
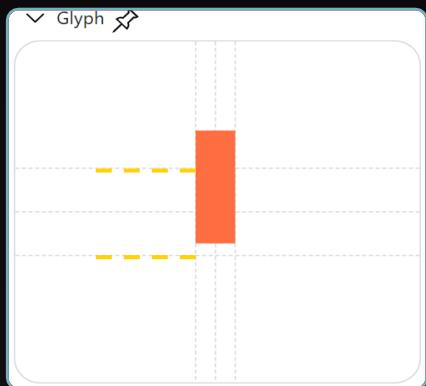
5 Advanced Charts (with Charticulator)

Create Nightingale Chart

Resize chart



If necessary, resize the rectangle in the "Glyph View" inside the guides.

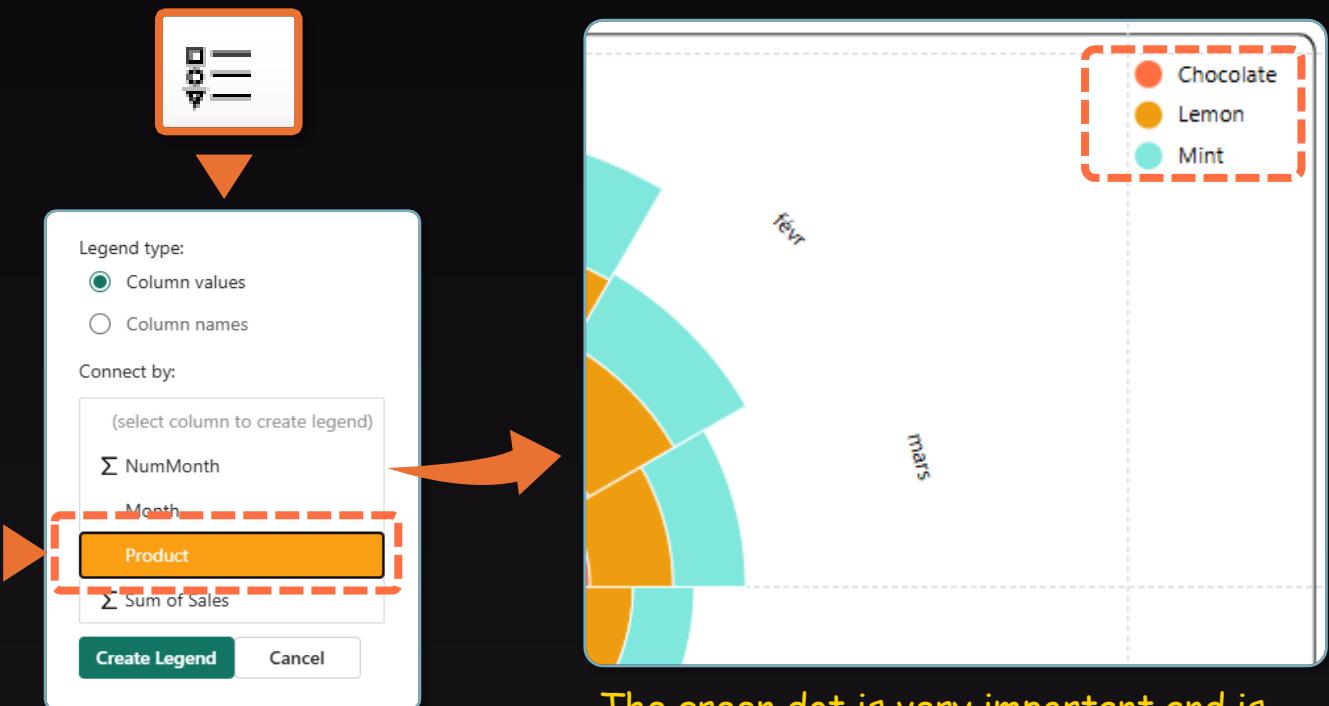


Create Nightingale Chart

Add "Legend"



From the "Legend" menu, choose "Product" and place it in the chart.



The green dot is very important and is the anchor of your Legend. Place it and adjust settings.

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

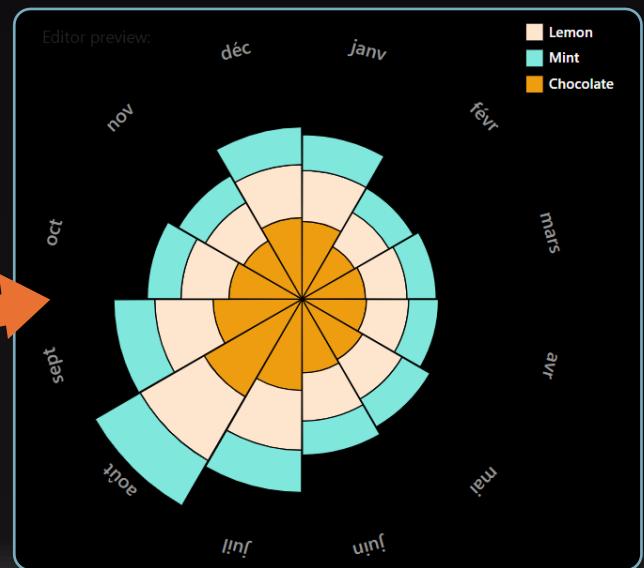
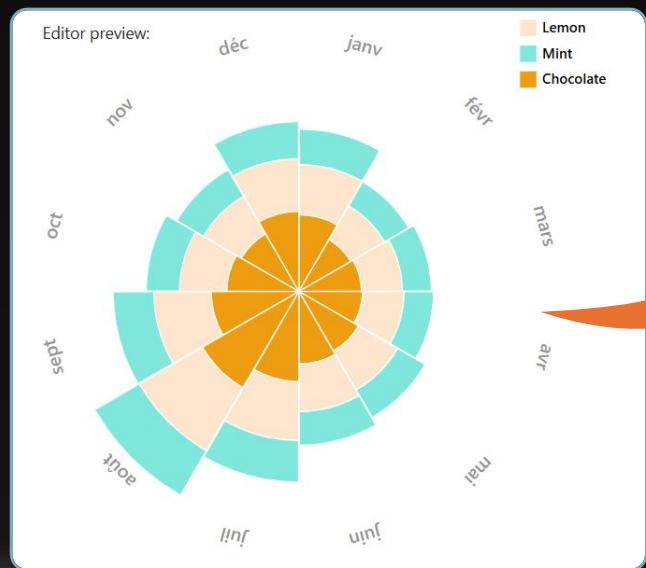
5 Advanced Charts (with Charticulator)

2

Create Nightingale Chart Background color (variation)



You can change the color background, to have a second Nightingale Chart version.



Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create Nightingale Chart

That's all folks!



Radial Bar Chart (with Charticulator)

Sales Product

2021 2022 **2023**

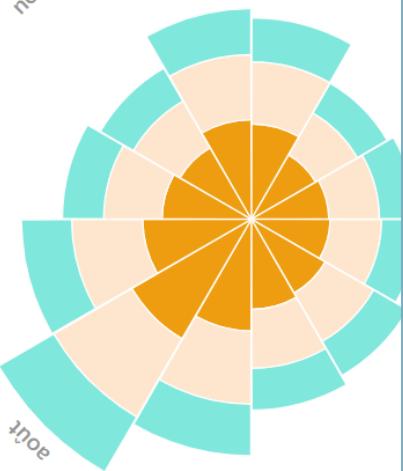
Editor preview:

déc janv

nov

oct

sept



Radial Bar Chart (with Charticulator)

Sales Product

2021 2022 **2023** 2024

Editor preview:

déc janv

nov

oct

sept

août

juil

juin

Lemon
Mint
Chocolate

févr

mars

avr

mai

juin

juil

août

août

juil

juin

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)



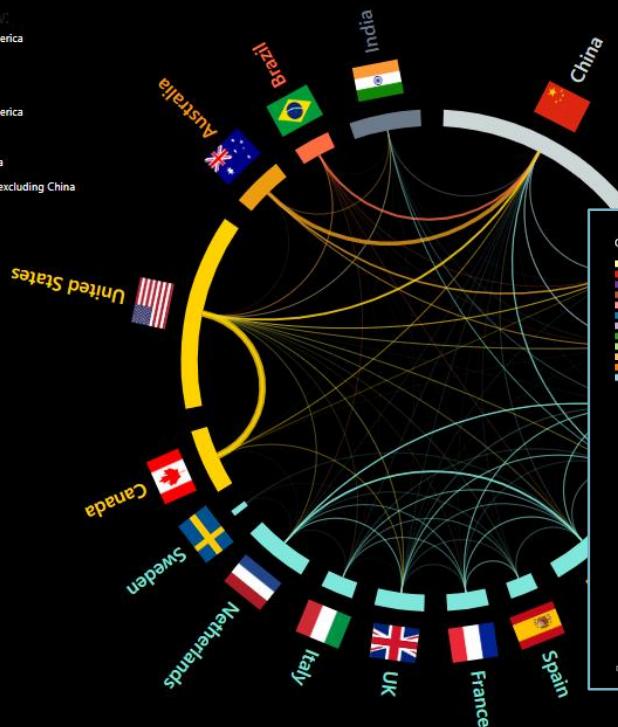
Chord Diagramm (with Charticulator)

Chord Diagramm (with Charticulator)

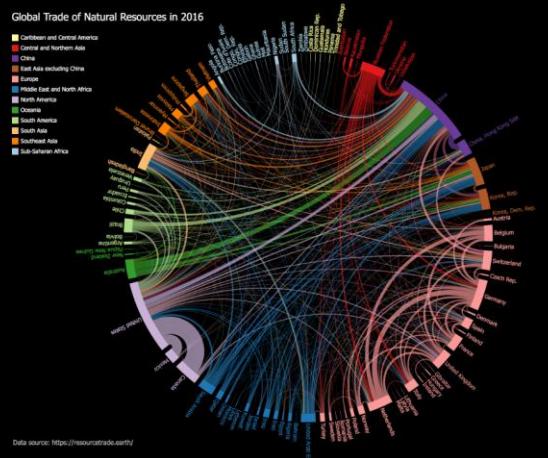
Trade between Countries

Editor preview:

- South America
- Oceania
- Europe
- North America
- China
- South Asia
- East Asia excluding China



The inspiration



Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Start a chart...



1



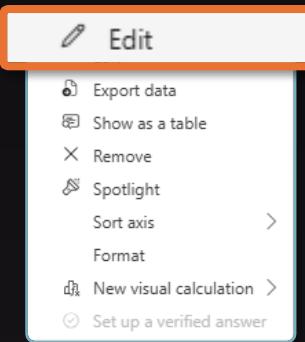
Choose
“Charticulator”
on the build
pane.

2

Drag and drop
the data fields
for the chart in
the data from
the “Build Pane”.

The screenshot shows the PowerBI Data pane with two sections: Data and Links. In the Data section, fields include id, Name, Region, Sum of Total, and Flag Name, each with a delete (X) and edit (>) button. Below this is a '+Add data' button. In the Links section, fields include source_id, target_id, Region, and Sum of Amount, also with delete (X) and edit (>) buttons, followed by a '+Add data' button.

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”

Patou Tips #42

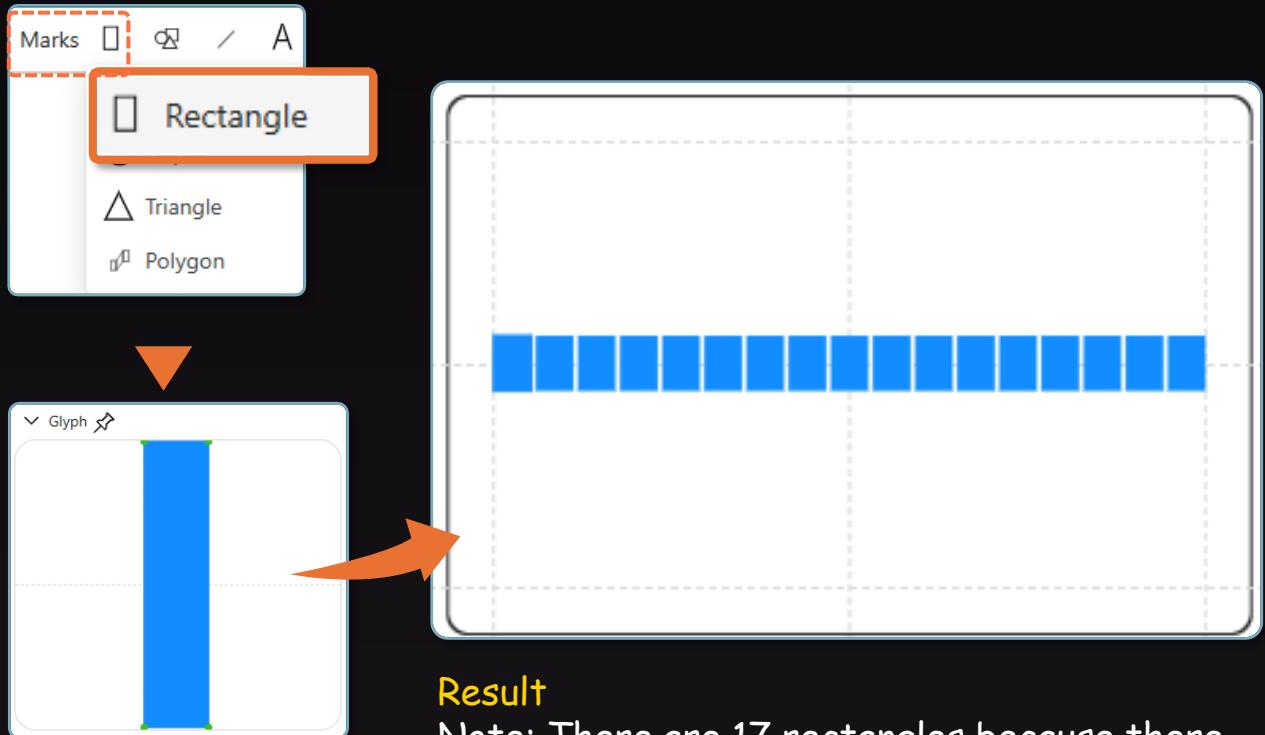
5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Main form



Select the "Rectangle" in the marks menu, and draw a shape in the middle of the Glyph window from the Properties pane



Result

Note: There are 17 rectangles because there are 17 countries

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

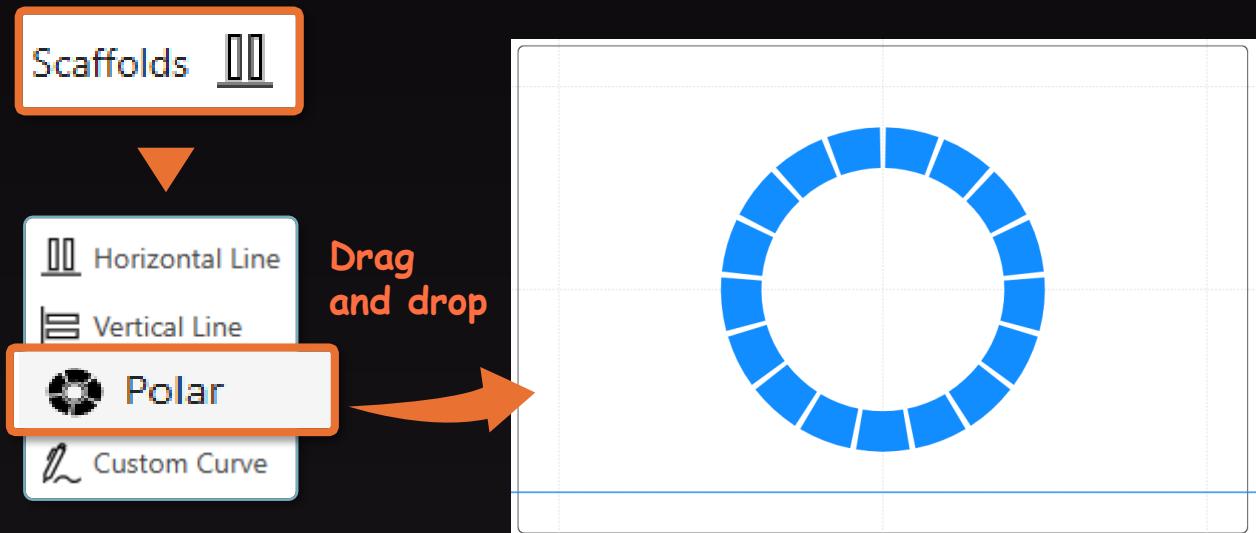
5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Transform Bar Chart into Radial Bar Chart



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



Result:

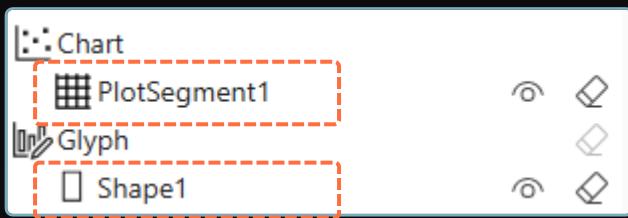
Bar Chart are transformed into a Radial Bar Chart

Create a Chord Diagramm

Rename created objects



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



Before



After

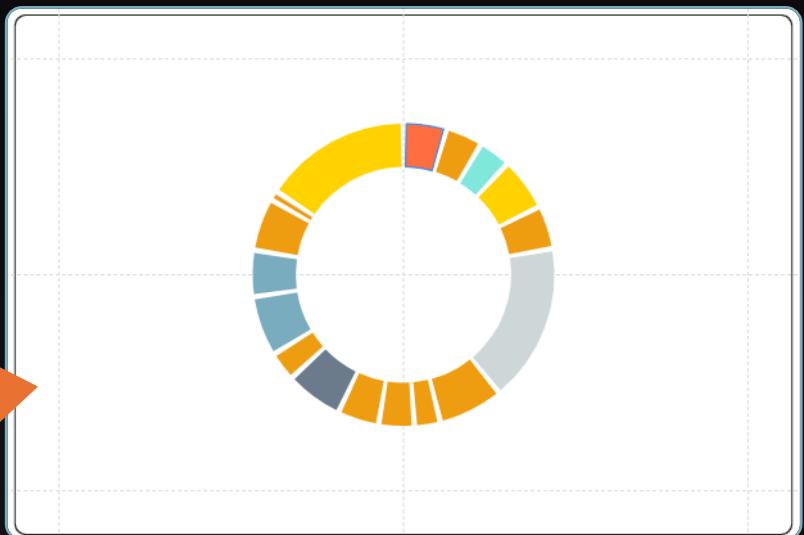
Create a Chord Diagramm

Transformation of the Rectangle



Drag and drop the fields "Sum of Total" from the "dataset pane" in the field "Width" in the attributes part of the field "Country Form", and "Region" in "Fill".

The screenshot shows the 'Properties' panel with the 'Attributes' section expanded. A field named 'Country Form' is selected. Below it, the 'Width' field has a value of 'Sum of Total' (with a formula `avg('Sum of Total')`). The 'Fill' field has a value of 'Region' (with a formula `first(Region)`). Red arrows point from the text 'Drag and drop' to both the 'Width' and 'Fill' fields.



Result: "Rectangles" have the proportion of the provided data.

Note for colors: In the resources, load the theme json, to get the same color as I created

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Chart settings



Properties

Chord Diagramm

X Search

Data Filter by Group by...

Polar Coordinates

Angle: 0 - 360

Radius:

Inner: 0.7

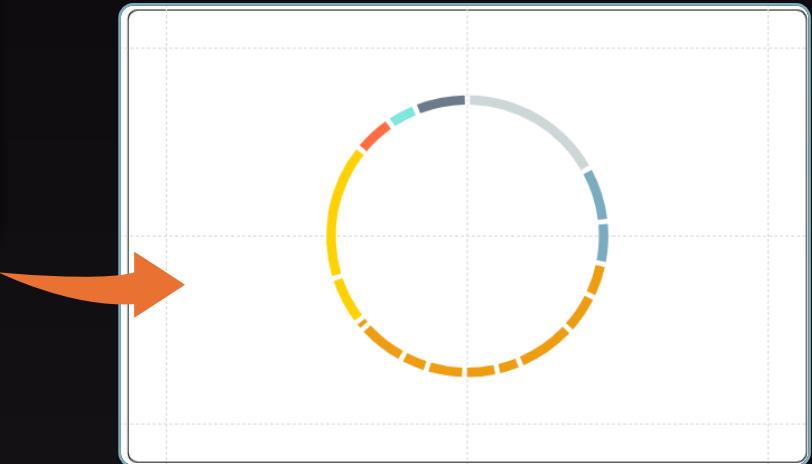
Outer: 0.8

Region

Flag Name

Sum of Total

Change the settings in the attributes of the "Radial Bar Chart"...



Result:

The radial bar chart becomes thinner and the colors are organized by region

Start with PowerBI

"From Rookie to Rock"

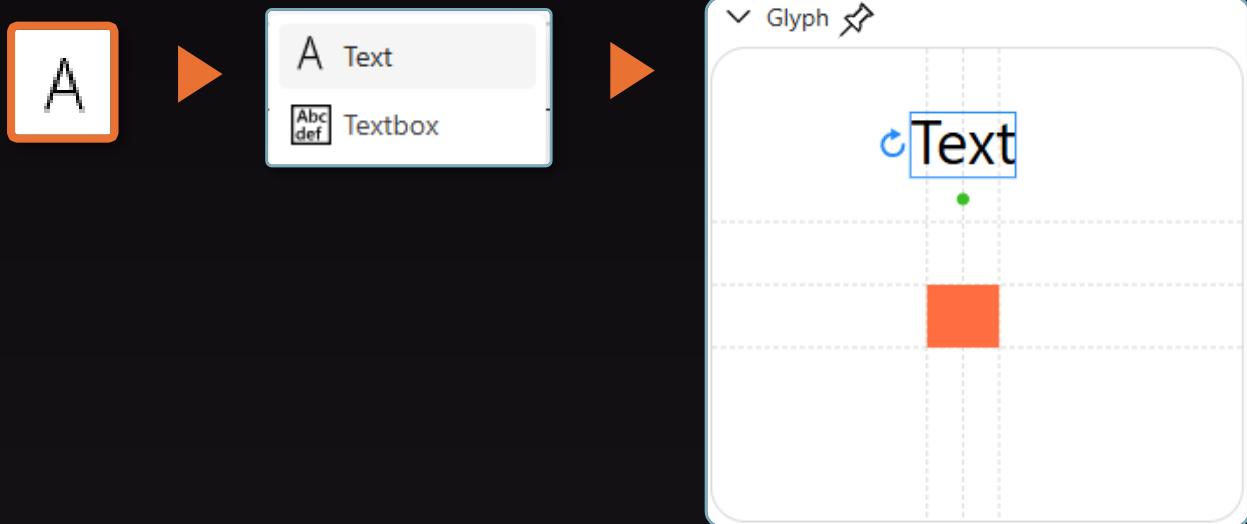
Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm Add "Country Name" (1/2)



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.

Create a Chord Diagramm

Add "Country Name" (2/2)



Properties

Attributes A Country Name

General

Text: \${first(Name)}

Font: Segoe UI Semibold

Size: 14

Visibility: Conditioned by...

Anchor & Rotation

Anchor X: 45

Anchor Y: 0

Rotation: 90

Ignore polar coordinate rotation

Style

Color: first(Region)

Rename "Text1" in "Country Name",
Change the settings in the
attributes.



Result

"Country" label appear into the Radial Bar Chart

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Add "Country Flag" (1/3)



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

The image shows a screenshot of the Charticulator application interface. At the top, there's a toolbar with icons for file operations and a dropdown menu labeled "Image". Below the toolbar is a "Properties" pane with a section titled "Icon". A large orange callout box highlights the "Image" option in the "Properties" pane. An orange arrow points from this callout down to a "Glyph" window. The "Glyph" window has a title bar "Glyph" and a subtitle "Australia". Inside the window, there's a small red square icon representing the flag. Another orange arrow points from the "Image" option in the "Properties" pane down to the "Icon" section of the "Properties" pane. To the right of the "Properties" pane is the main canvas area where a chord diagram is displayed. The diagram consists of a circle divided into segments, each representing a country. The segments are colored and labeled with country names: United States (yellow), Canada (light blue), Sweden (orange), Netherlands (pink), Italy (red), UK (purple), France (teal), Spain (brown), Germany (dark blue), Switzerland (yellow-orange), Belgium (orange), South Korea (blue), Japan (light blue), China (grey), India (dark blue), Brazil (red), and Australia (red). Each segment contains a small icon representing the country's flag.

Result

An Icon appear near of the country name

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

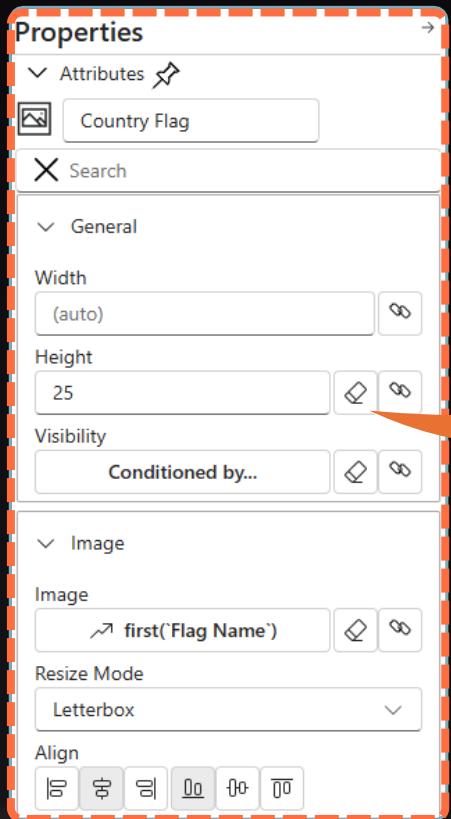
5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Add "Country Flag" (2/3)



Rename "Image1" in "Country Flag", Change the settings in the attributes.



Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Add “Country Flag” (3/3)



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

The screenshot illustrates the process of assigning country flags to a dataset in Power BI:

- Dataset pane:** Shows fields like Country, Flag name, and Sum of Sales, along with scales Scale1, Scale2, and Scale4. Scale4 is highlighted with an orange box and has its image mapping set to "Flags.Image".
- Create scale dialog:** Displays settings for "Scale4". The "Image Mapping" section shows a list of countries (Austria, Belgium, France, Germany, Italy) with their corresponding flag icons. Austria's icon is highlighted with a red dashed box, and the "X" button next to it is highlighted with an orange box.
- File Explorer:** A "Flags" folder is open, showing files for Austria, Belgium, France, Germany, Italy, Spain, and Switzerland, all in .png or .jpg format.

Start with PowerBI

“From Rookie to Rock”

Create a Chord Diagramm

Add "Legend"



From the "Legend" menu, choose "Product" and place it in the chart.

The screenshot shows a software interface for creating a chord diagram. On the left, a modal window titled 'Legend type:' has two options: 'Column values' (selected) and 'Column names'. Below this, 'Connect by:' is set to 'Region'. A dropdown menu lists 'id', 'Name' (highlighted with a red dashed box), and 'Flag Name'. At the bottom are 'Create Legend' and 'Cancel' buttons. An orange arrow points from this window to the main chart area. The main area is a circular chord diagram with various countries represented by colored segments and flags. A green dot is placed on the segment for China. A legend on the right side lists regions with corresponding colored circles: Oceania (orange), Europe (yellow), South America (light blue), North America (yellow), China (grey), South Asia (dark blue), and East Asia excluding China (teal). The chart also features labels for Japan, South Korea, Belgium, Switzerland, Germany, France, Spain, Italy, UK, Netherlands, Sweden, Canada, and Australia.

The green dot is very important and is the anchor of your Legend. Place it and adjust settings.

Start with PowerBI

"From Rookie to Rock"

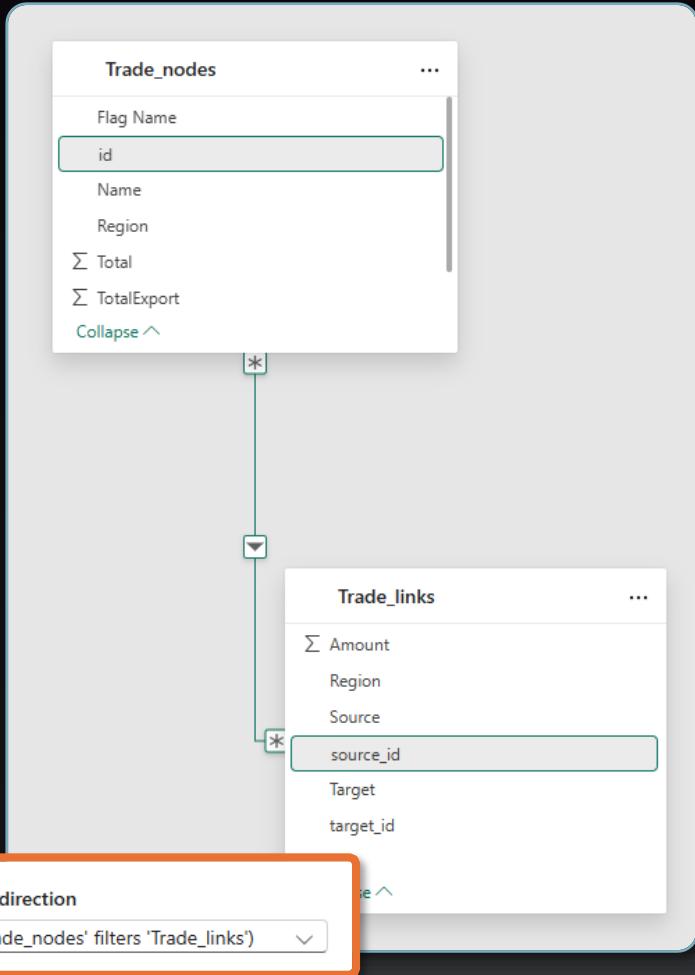
Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm Modelisation of the Link



Before creating the links between countries, it is important, when modeling, to link the "Id" field of the "Trade_nodes" table to the "source_id" field of the "Trade_links" table. Also apply a "many to many" cardinality with filtering from the "Trade_nodes" table to "Trade_links".



Cardinality

Many to many (*:*)

Cross-filter direction

Single ('Trade_nodes' filters 'Trade_links')

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Create lines of the Link

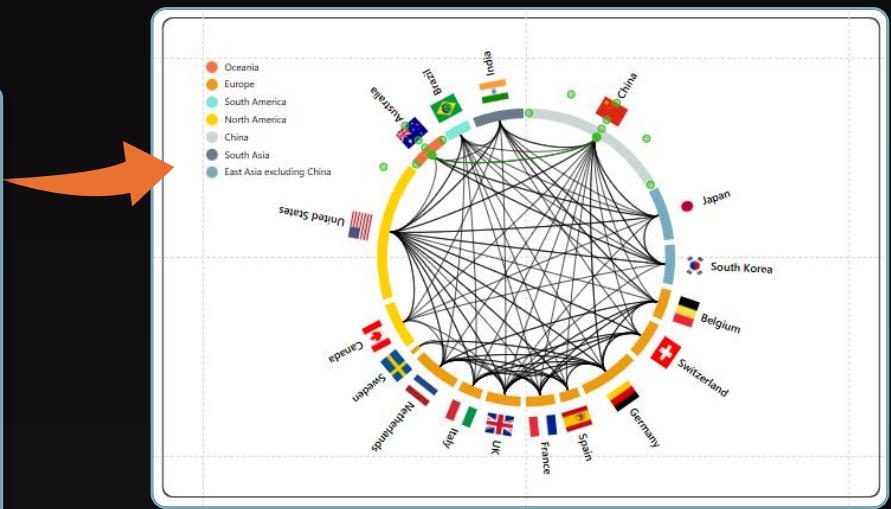


From the "Link" menu, choose "Line" and "By Link Data" (cf. modelisation)

The dialog shows:

- Link using:** Line
- Band
- Link Mode:** Sequentially
- By Link Data

Create Links **Cancel**



Result
Links appear between countries

Start with PowerBI

"From Rookie to Rock"

Patou Tips #42

5 Advanced Charts (with Charticulator)

Create a Chord Diagramm

Link settings



Properties

Attributes: Link Country

Search

Type: Arc

Line mark type: Solid

Begin Arrow Type: No Arrow

End Arrow Type: No Arrow

Style

Stroke: `first(Region)`

Fill: (none)

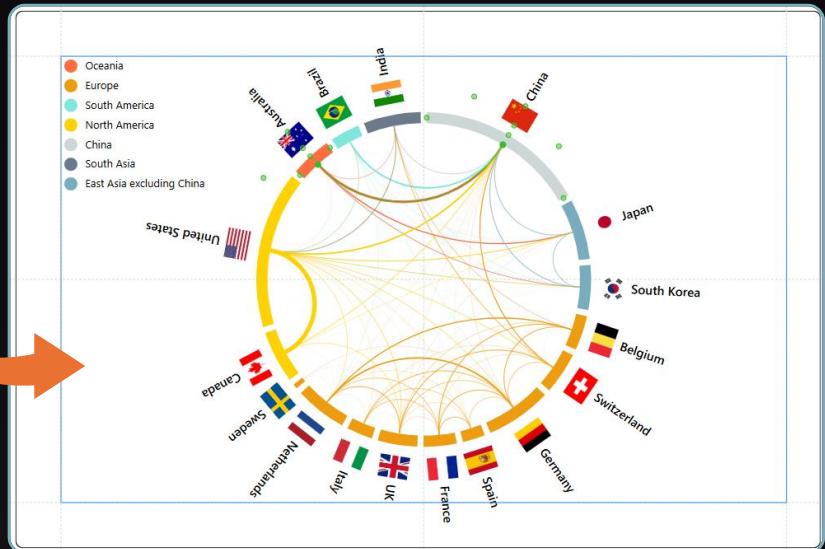
Gradient start: (none)

Gradient stop: (none)

Rotation: 0

Width: `avg('Sum of Amount')`

Rename "Link1" to "Link Country",
modify its parameters in its
attributes.



Result

The links have the region's color, and the link width reflects the data weight.

Start with PowerBI

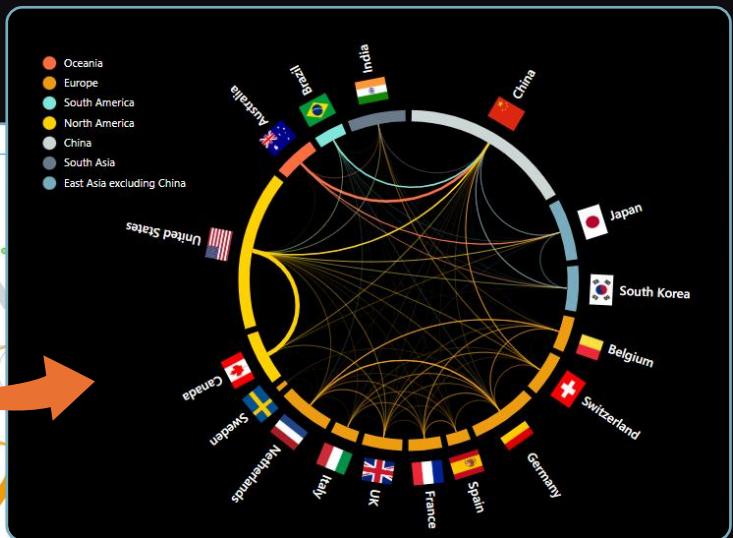
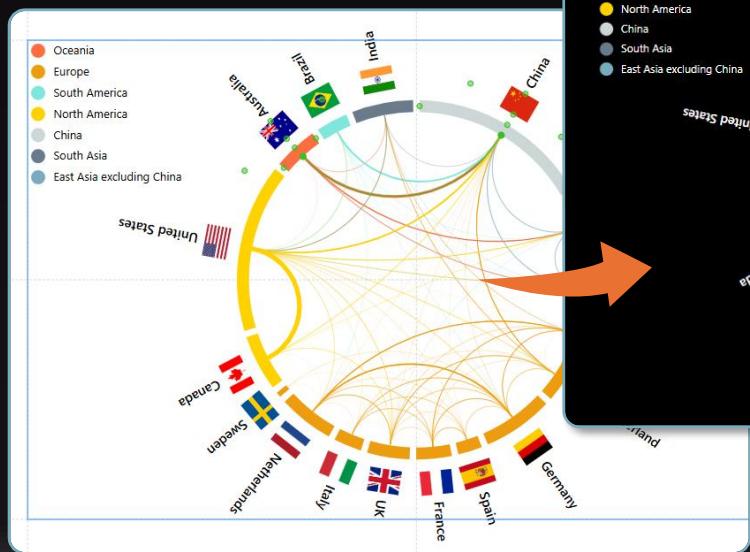
"From Rookie to Rock"

Create a Chord Diagramm

Background color



You can change the color background, to have a second Nightingale Chart version.



Start with PowerBI

"From Rookie to Rock"

Create a Chord Diagramm
That's all folks!

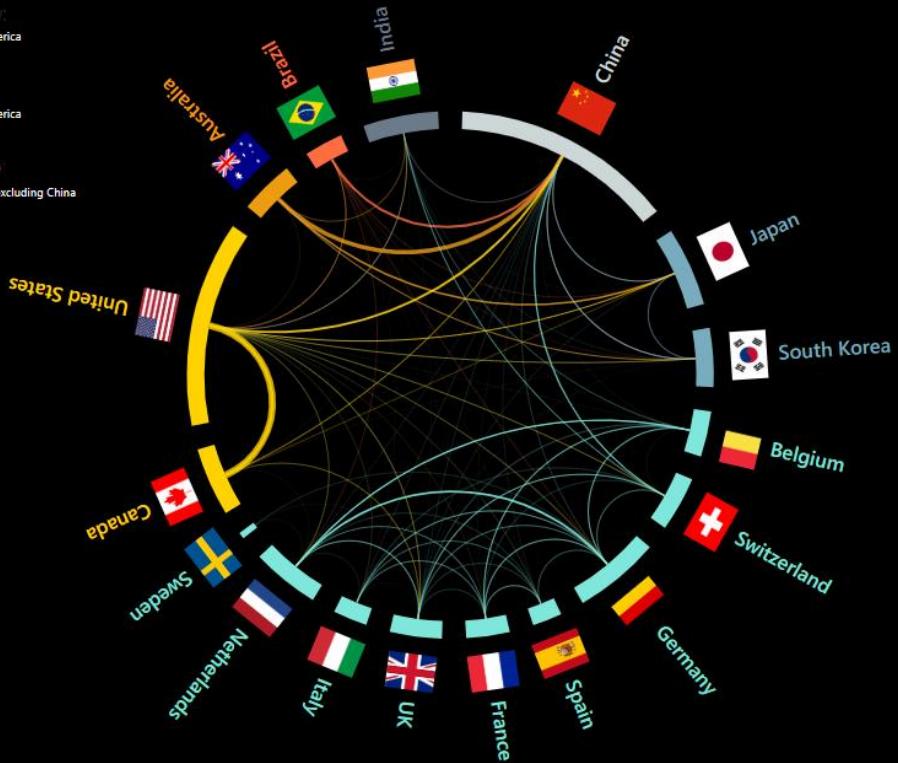


Chord Diagramm (with Charticulator)

Trade between Countries

Editor preview:

- South America
- Oceania
- Europe
- North America
- China
- South Asia
- East Asia excluding China



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Patou Tips #42

5 Advanced Charts (with Charticulator)

Charticulator

To go further...



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

The screenshot shows a navigation bar at the top with links for 'Visual documentations', 'Visuals', 'Charticulator app', 'Privacy', 'LinkedIn', 'GitHub', 'About me', and a search icon. On the left, there's a sidebar with a user profile picture and the name 'Ilfat Galiev'. Below it is a list of documentation categories under 'Charticulator': 'Intro' (selected), 'Creating Charts', 'Reusing charts', 'Using in Power BI', 'Gallery', 'Community content', 'Constraints editor', 'Visual changelog', 'HTML/SVG/Handlebars Visual', 'Apache ECharts Visual', 'ApexCharts Visual', and 'Markdown & Mermaid Visual'. The main content area has a breadcrumb navigation ('Home > Charticulator > Intro') and a large title 'Intro'. It contains text about the documentation's purpose and a 'Terminology' section with a list of definitions for terms like 'mark', 'glyph', and 'guide'. A sidebar on the right lists various documentation topics under 'Terminology'.

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 Charticulato 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/>

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Charticulator

To go further...



Character Co-occurrence in Les Misérables

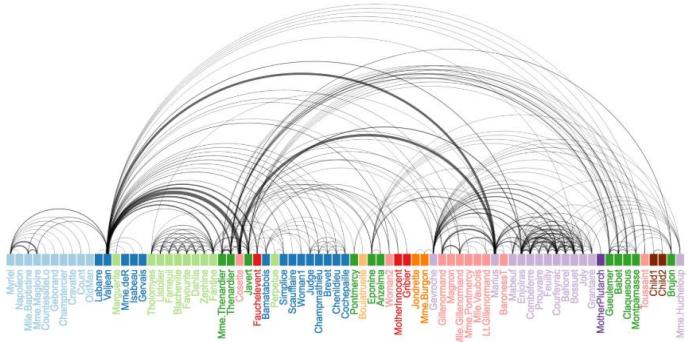
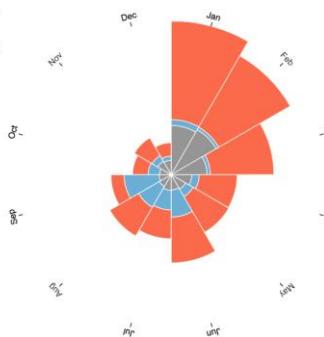
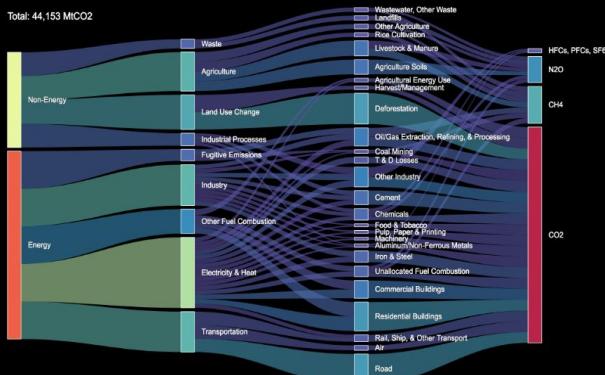


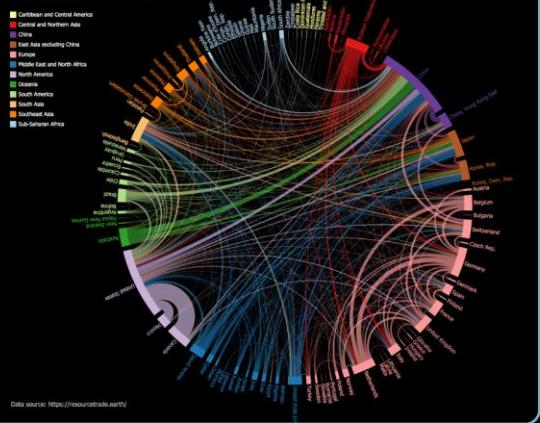
Diagram of the Causes of Mortality in the Army in the East



World Greenhouse Gas Emissions in 2005



Global Trade of Natural Resources in 2016



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

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“From Rookie to Rock”

Patou Tips #42

5 Advanced Charts (with Charticulator)

Learn and practice

On the same theme, to go further



Easy to do it...

Patou Tips #5

Create a **Customized Chart** (for income statement)

To practice downloadable free resources in GitHub

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

Easy to do it...

Patou Tips #6

Create
Customized Icon

(with PowerPoint for PowerBI)

Patou Tips #6
Create
Customized Icon

Easy to do it...

Patou Tips #7

Create an **Age Pyramid Chart** (for Human Ressources)

To practice downloadable free resources in GitHub

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

Easy to do it...

Patou Tips #12

Calculate the correct evolution for KPI

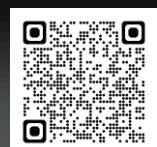
Patou Tips #23

Start with PowerBI
"From Rookie to Rock"

9 tips explained step by step to practice

Quick Guide Visualization & Storytelling

Patou Tips #23
Quick Guide Visualization &
Storytelling



Resources on GitHub
<https://github.com/Patou-Tips/Patou-Tips>

Don't forget!

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

Patou Tips



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