

P COPERATE

5 COLLEGIA COLLA

Lonneke Opsteegh | StatStories





Lonneke Opsteegh

- Human movement scientist & Organizational Psychologist
- PhD in medical sciences
- And now...



- Data communication specialist
- Teaching, templates design consultancy

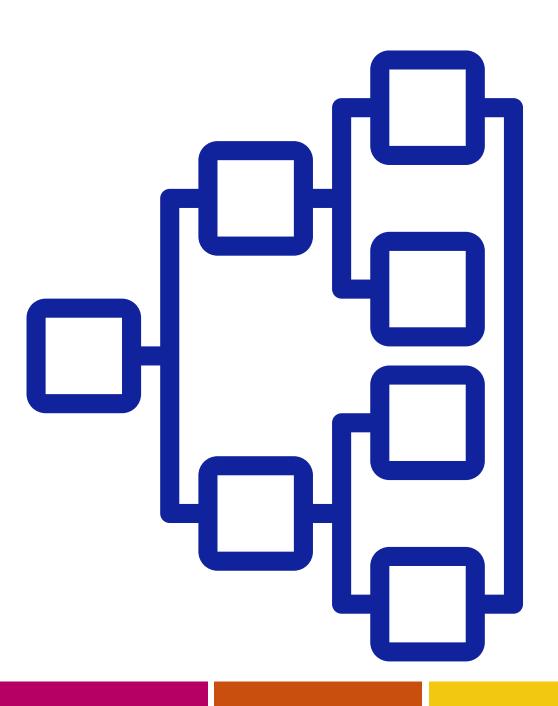




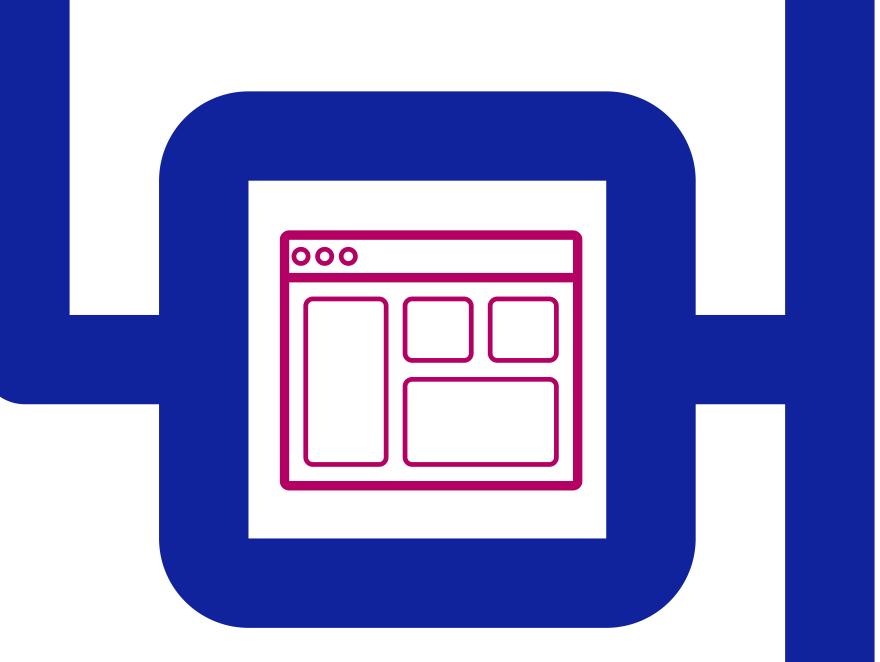
CONSISTENCY



INTRA-DASHBOARD
INTER-DASHBOARD
INTRA-CLIENT
INTER-CLIENT



The overview



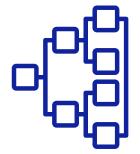
The overview

One page

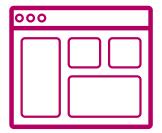




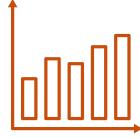
Graphs



The overview



One page

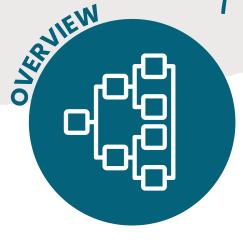


Graphs



3 layers of design

Three layers of design

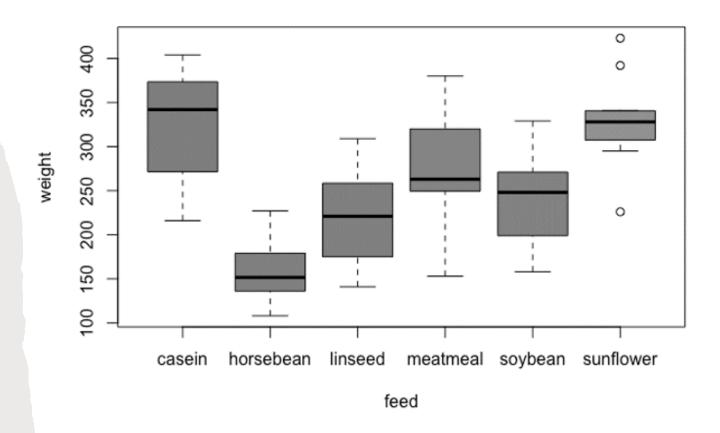






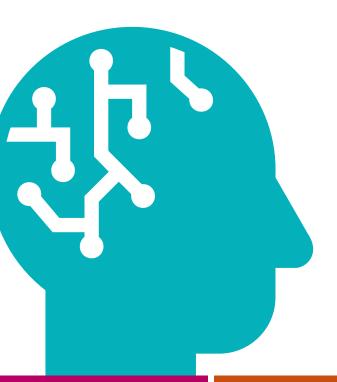
- -The end-user
- -Information structure
- -Colours
- -Font types
- -Company style

Who is your audience?



Data USER-centered design

Your end user is crucial for



- choice of visuals
- amount of detail in analyses and visuals
- Structure of your information

Data USER-centered design

- Similar or diverse audience?
- Math nightmares?
- Experience with graphs and/or BI?
- Mental state?
- Details needed?
- ☐ Kind of display/screen?
- How can they resist?



Information structure

AS HR manager,

I WANT TO know how long an employee has been on

sick leave

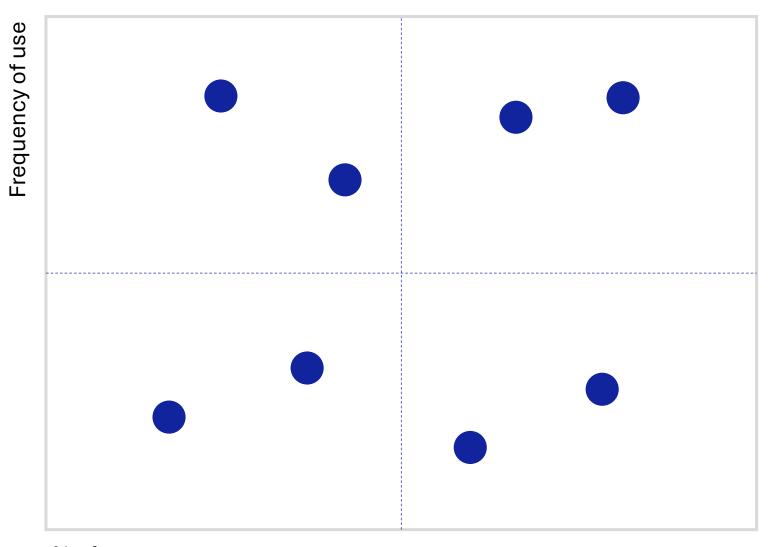
SO THAT I can make sure I meet the legal

requirements / deadlines

....sity & inclusion

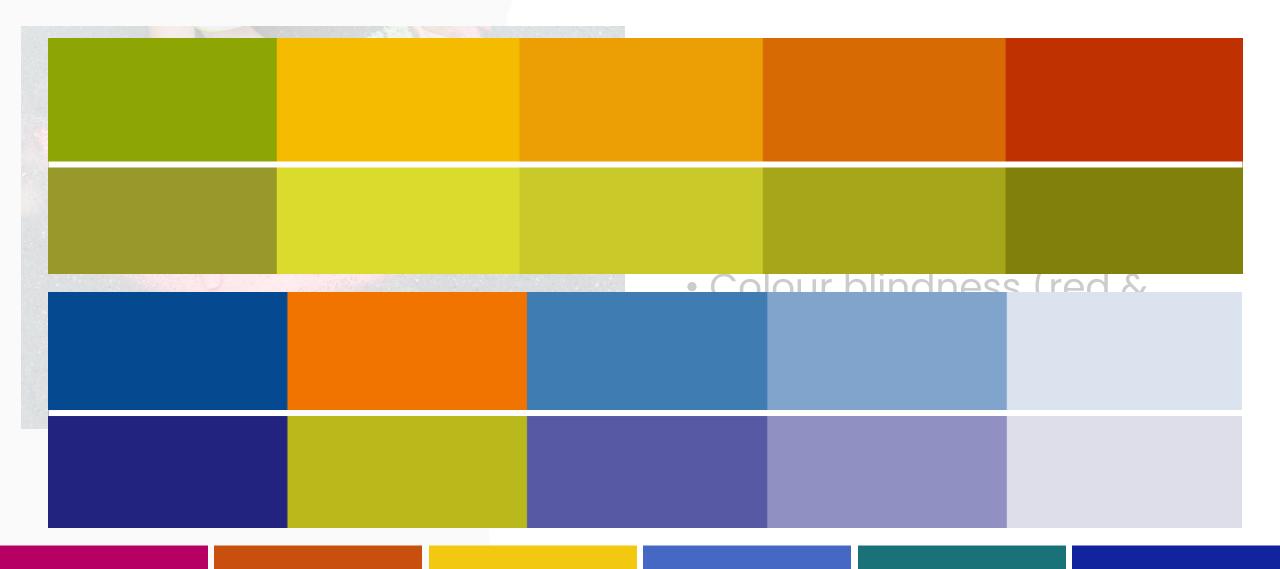
Contact & info

Priorities



% of users

Colour



Using the company style

- Logo and colours, but rarely fonts...
- Website inspiration

Shadows | rounded corners | navigation | shapes | Style and placement of titles | tone of voice

Font types

serif Sans-serif

Corbel	
861 911	-
111.999	
111.999	
111.111	
999.999	

```
Arial
861.911
111.999
111.999
111.111
999.999
```

Consolas
861.911
111.999
111.999
111.111
999.999

Segoe
861.911
111.999
111.999
111.111
999.999

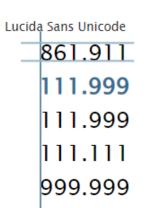
```
Tahoma
861.911
111.999
111.999
111.111
999.999
```

```
861.911
111.999
111.999
111.111
999.999
```

```
2861.911
111.999
111.999
111.111
999.999
```

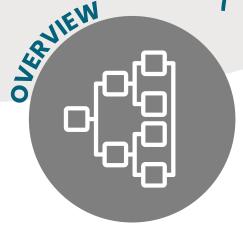
Courier New
861.911
111.999
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111.111
999.999



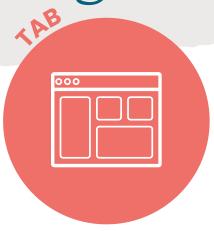




Three layers of design



- -The end-user
- -Information structure
- -Colour choice
- -Font type
- -Company style

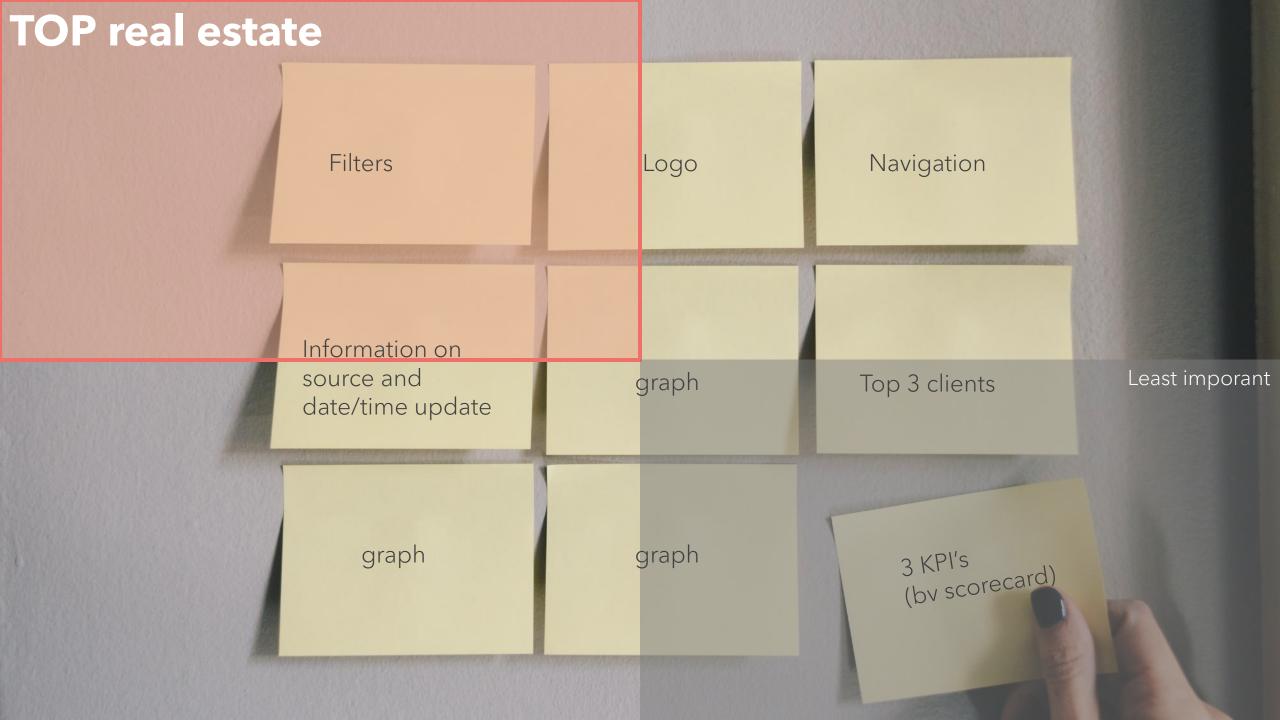


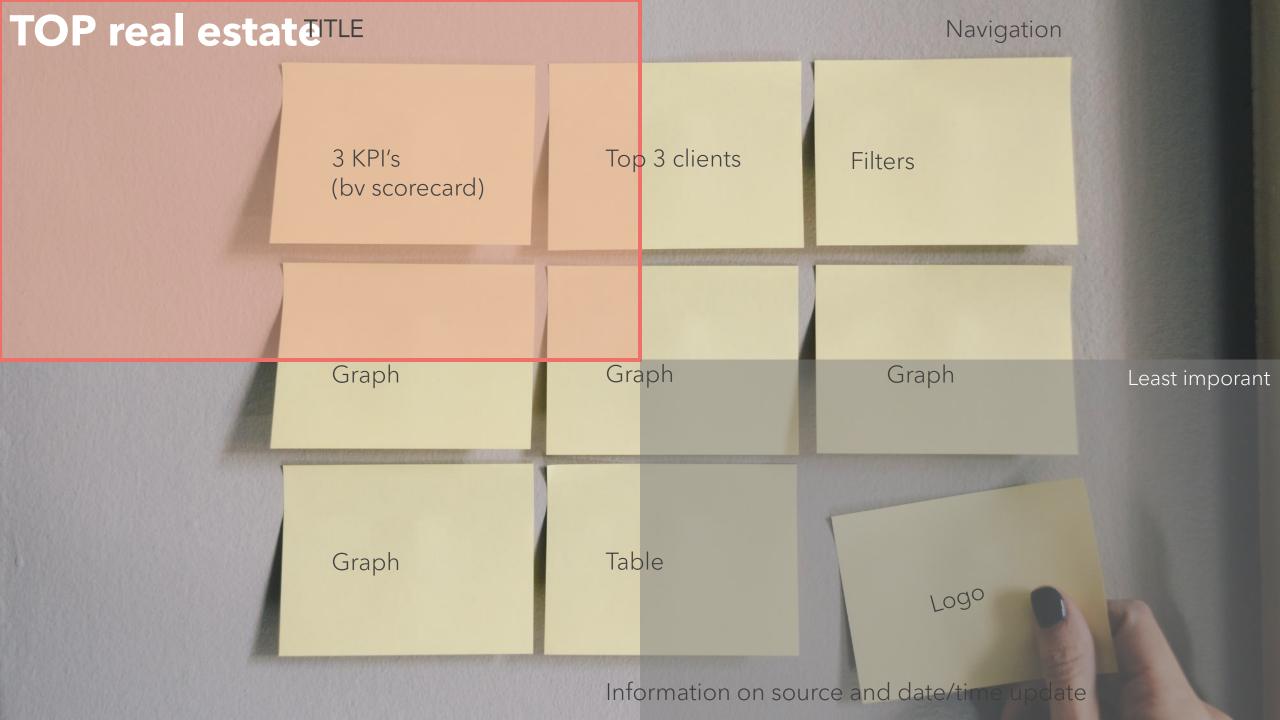


- -Grid
- -Filters

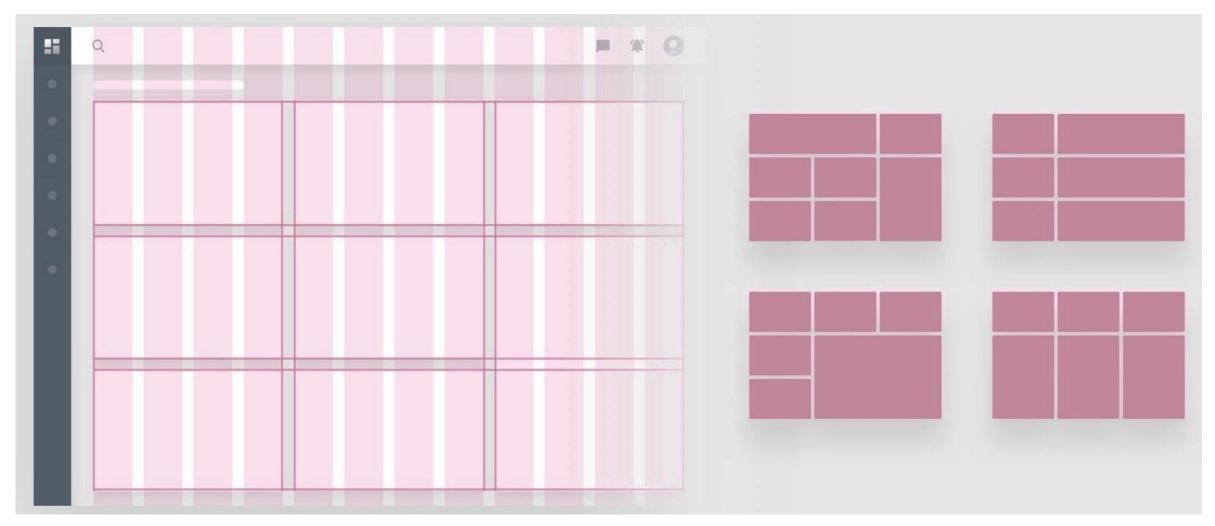


Placement of Visuals





Grid

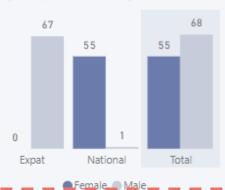


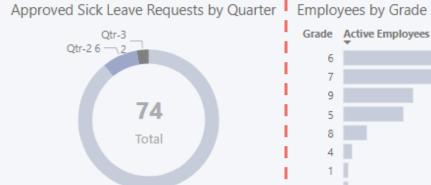






Employees per Nationality en Gender





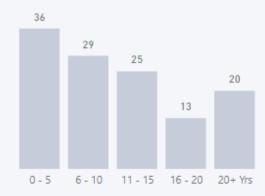


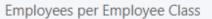
Employees by Unit

Expat National

Home Organization	Active Employees
Administration Unit- CIO	8
Application Administration Unit	7
Application Services Unit	8
Audio Visual Support Services Unit	22
Data Center Unit	6
Enterprise Applications& Integ.Sec.	1
Infrastructure&Core Techno. Section	1
IT Help Desk Unit	12
IT Project Management Unit	3
IT Support Service Section	1
IT Support Services - Admin. Unit	14
IT Support Services-Academic A.Unit	13
IT Support Services-Student A.Unit	10
Network & Info. Security Unit	11
Web Services Unit	6

Employees per Service Years Range

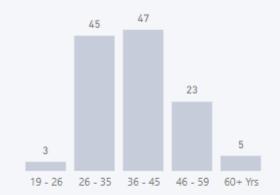




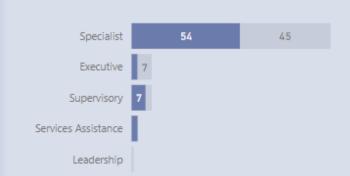


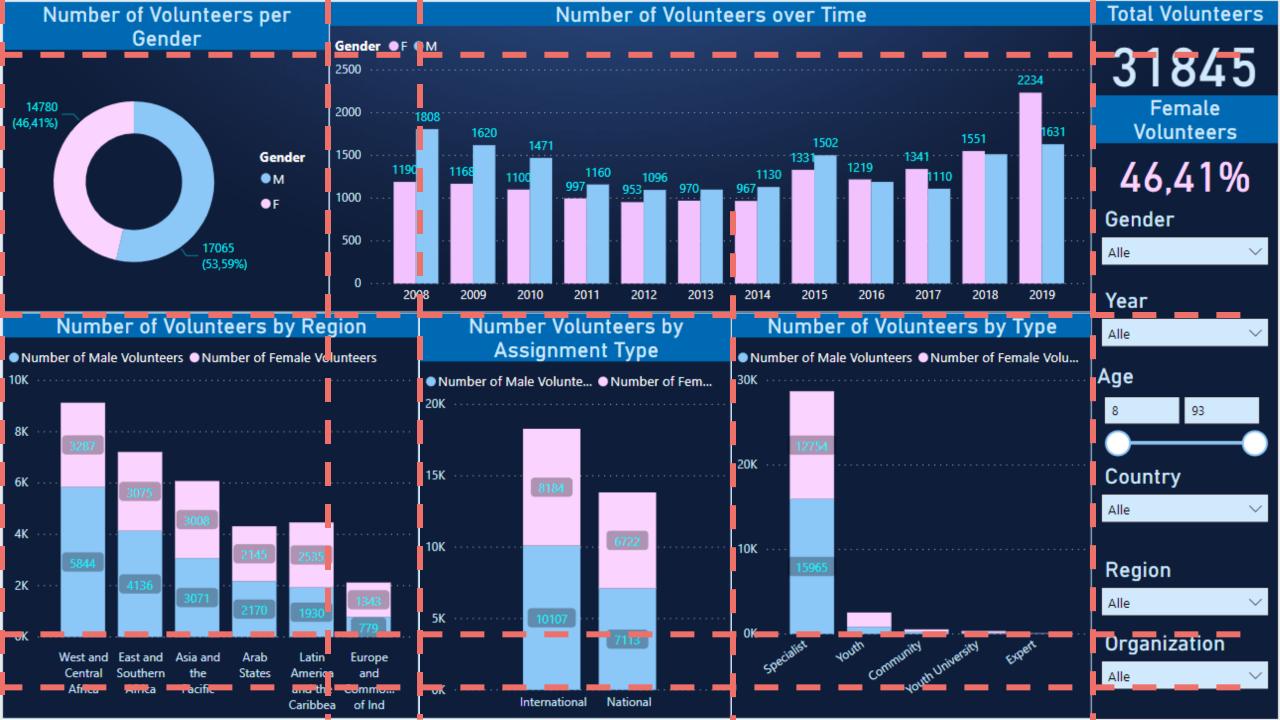
- Qtr-1 66

Employees per Age Range



Employees per Job Category en Nationality

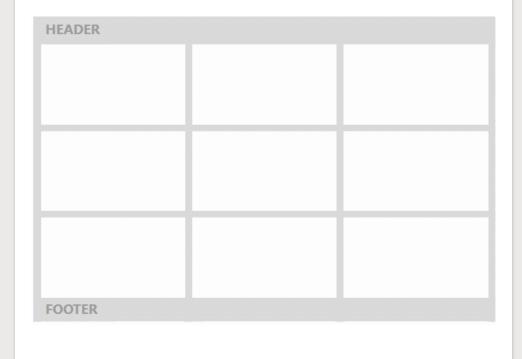






Prepare grid

- Create grid with shapes
 - Alignment: distribute horizontal and vertical
 - Space for header/ footer/ margins
 - Optional: room for filters
- Group shapes, name
- Place graphs, then hide grid



Roompot KPI overview

Month

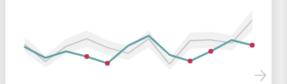
Product



Aantal orders deze maand

6.37K!

Zelfde periode vorig jaar: 8.49K (-25.02%)



Winst deze maand

€ 21.86K✓

Zelfde periode vorig jaar: € 27.6K (+20.82%)



Omzet deze maand

€ 3.22M✓

Zelfde periode vorig jaar: € 4.25M (+24.41%)

Αll



Aantal orders deze maand

6.37K!

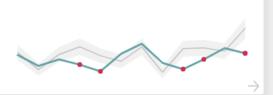
Zelfde periode vorig jaar: 8.49K (-25.02%)



Aantal orders deze maand

6.37K\

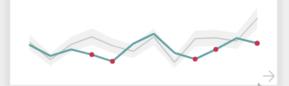
Zelfde periode vorig jaar: 8.49K (+25.02%)



Aantal orders deze maand

6.37K!

Zelfde periode vorig jaar: 8.49K (-25.02%)

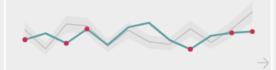


Winst deze maand

€ 21.86K✓

Omzet deze maand

Zelfde periode vorig jaar: € 27.6K (+20.82%)



Omzet deze maand

€ 35.63M!

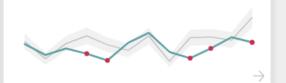
Zelfde periode vorig jaar: € 4.25M (-737.38%)



Aantal orders deze maand

6.37K\

Zelfde periode vorig jaar: 8.49K (+25.02%)



Click on the arrow for more information

€ 3.22M✓ Zelfde periode vorig jaar: € 4.25M (+24.41%) Aantal orders deze maand

6.37K!

Zelfde periode vorig jaar: 8.49K (-25.02%)



Kasparov

BMW

ELHO

ITC Rubis

Kapimex

Peut

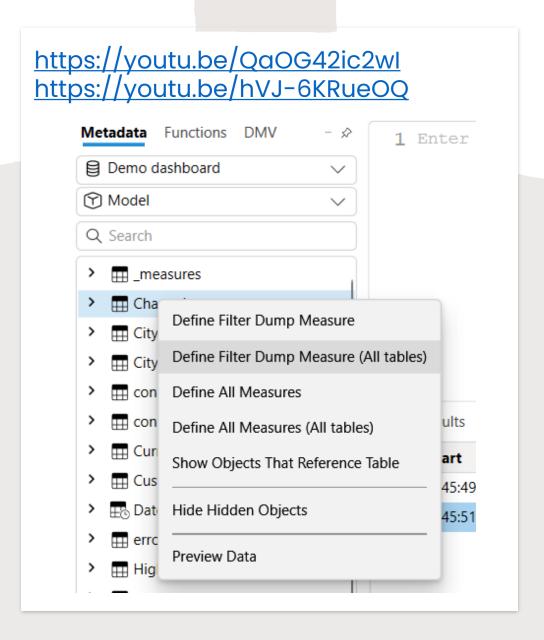
Roompot

Sitech

Producten

Filters

- List / dropdown / slider / tiles/ text
- Clear & activate filters
- Filter synchronisation
- Summary of activated filters





Channel Multiple selections Warehouse Code Multiple selections \vee **Customer Names** All **Product Name** All Filter selection Channel = Wholesale, Export Warehouse = AXW291, FLR025, GUT930

Clear all slicers

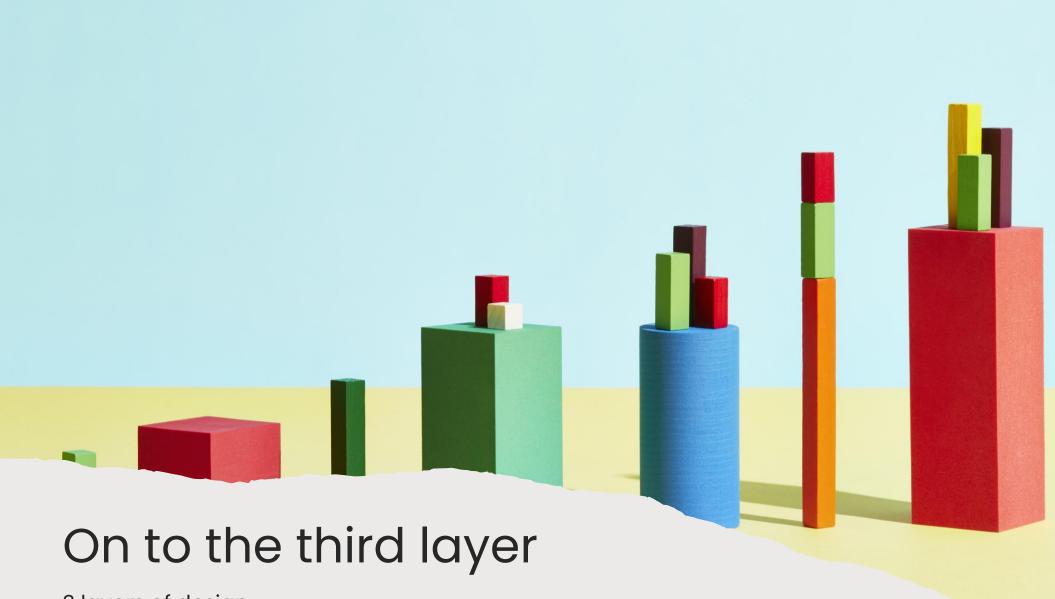
```
Activated filters =
```

VAR MaxFilters = 3

Activated Filters

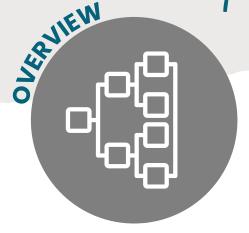
```
RETURN
  VAR MaxFilters = 3
  RETURN
  ΙF
      ISFILTERED ( Channels[Channel] ),
      VAR f = FILTERS ( Channels[Channel] )
      VAR r = COUNTROWS ( f )
      VAR t = TOPN ( MaxFilters, f, Channels[Channel] )
      VAR ___d = CONCATENATEX ( ___t, Channels[Channel] , ", " )
      VAR x = "Channels = " & d
                    & IF(___r > MaxFilters, ", ... [" & r & "
  items selected]") & " "
      RETURN x & UNICHAR(13) & UNICHAR(10)
```

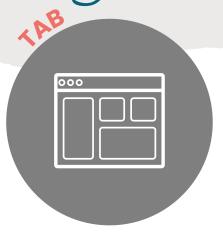
RETURN x & UNICHAR(13) & UNICHAR(10)



3 layers of design

Three layer of design







- The end-user

- Placement visuals
- Pick your graph

- Information structure Grid
- Colour choice

- Filters

- Font types



Expand your graph vocabulary with

Graph specials

The ones you might have seen, but never use...

The right chart

Pick based on your key message















Comparison of categories

Trend over time

Part to whole

Relations & hierarchies

Geographical information

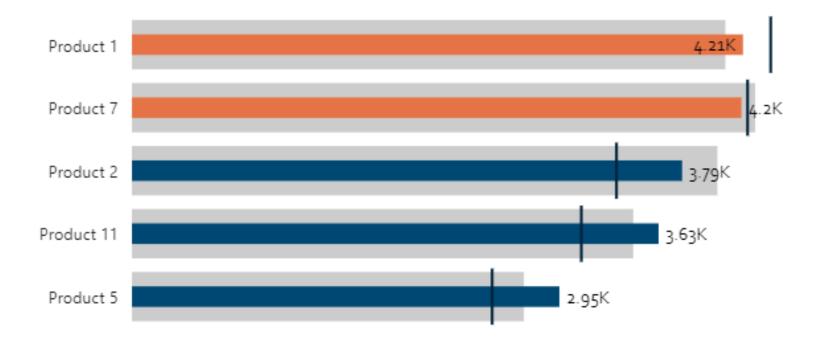
distribution

Single value

- ✓ Space-efficient
- ✓ Clear & direct
- ✓ Meet requirements of end-user
- ✓ Core visuals when possible, custom when needed

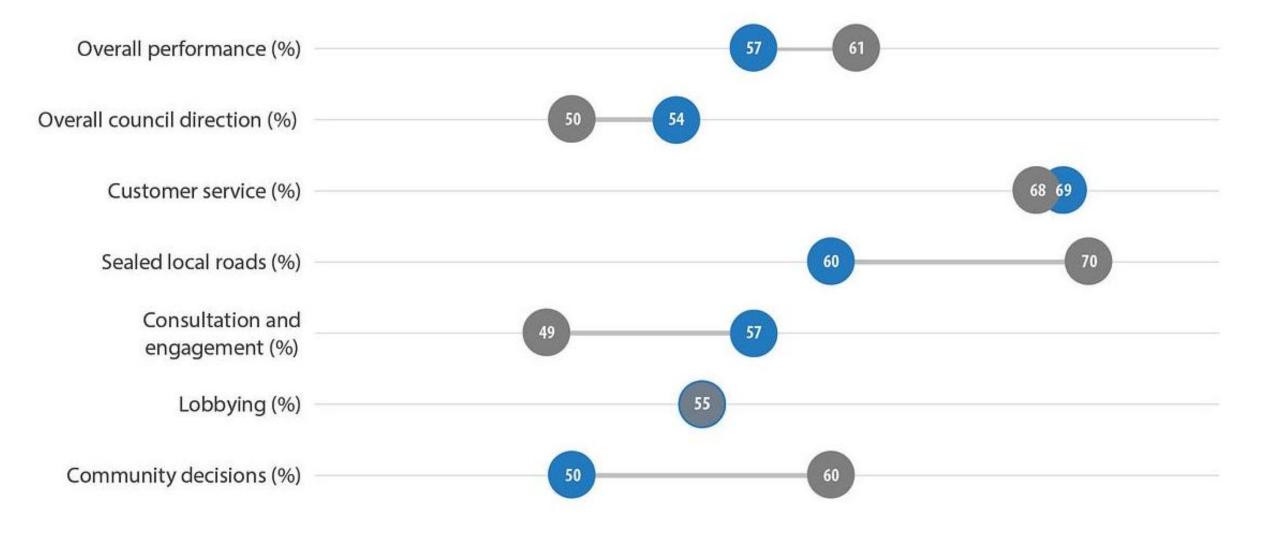
The right chart

- bullet chart

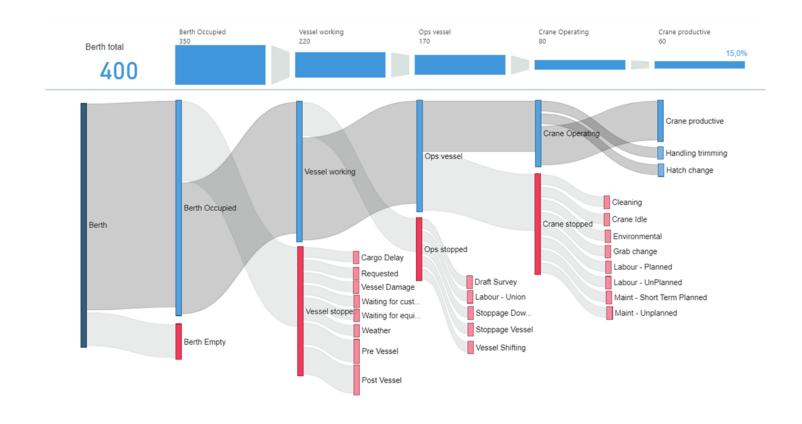


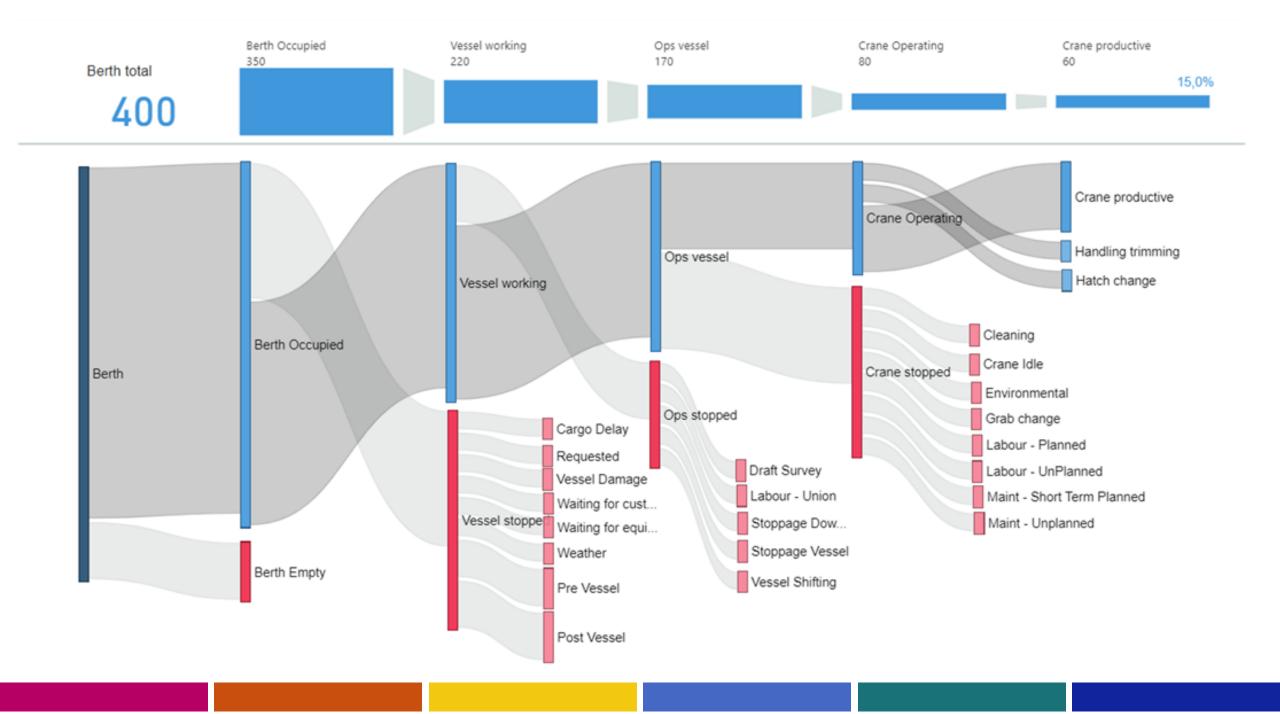
- bullet chart
- dumbbell dot plot



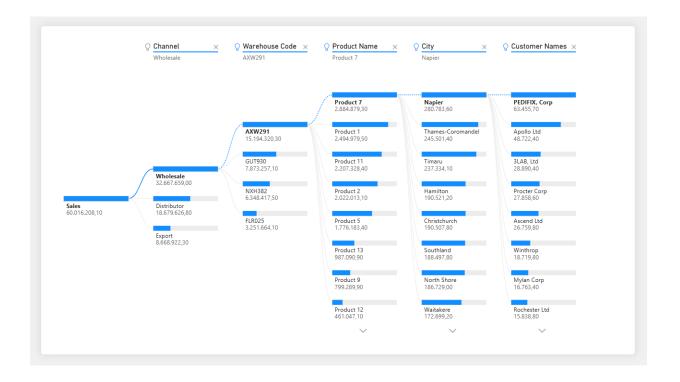


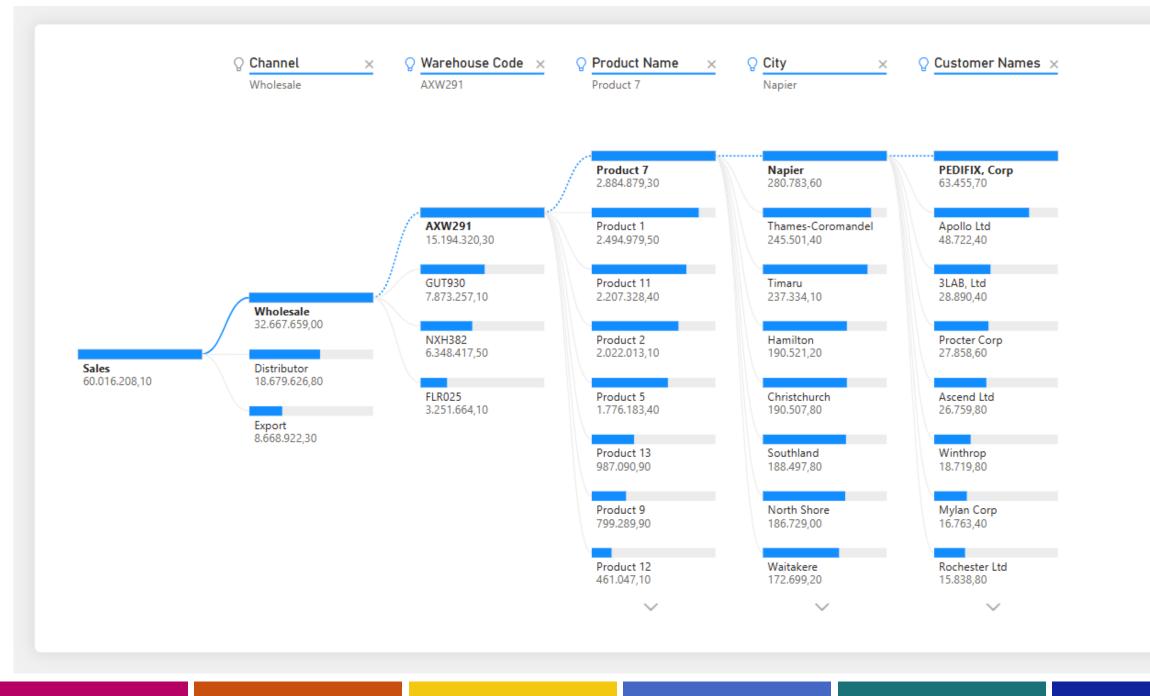
- bullet chart
- dumbbell dot plot
- sankey diagram



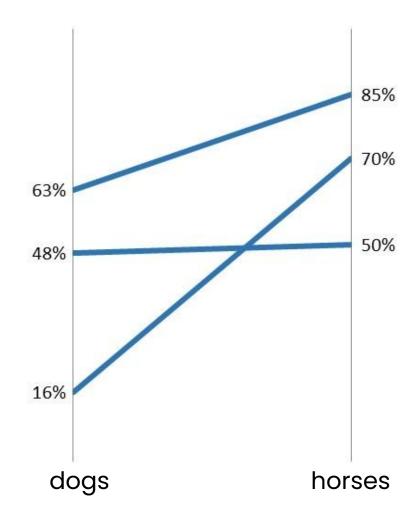


- bullet chart
- dumbbell dot plot
- sankey diagram
- decomposition tree

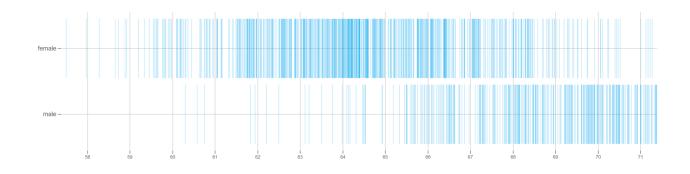




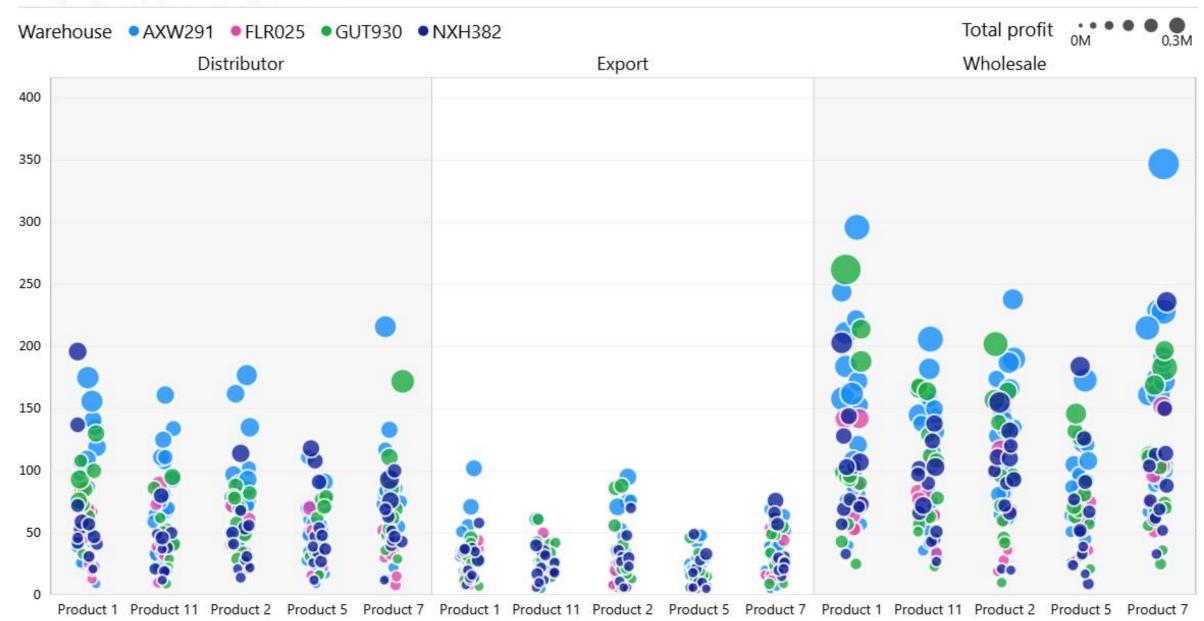
- bullet chart
- dumbbell dot plot
- sankey diagram
- decomposition tree
- slope graph



- bullet chart
- dumbbell dot plot
- sankey diagram
- decomposition tree
- slope graph
- strip plot



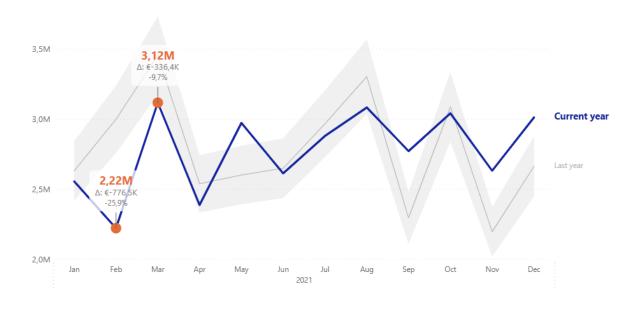
Dot plot/ strip plot with jitter effect



- bullet chart
- dumbbell dot plot
- sankey diagram
- decomposition tree
- slope graph
- strip plot
- line chart with area band

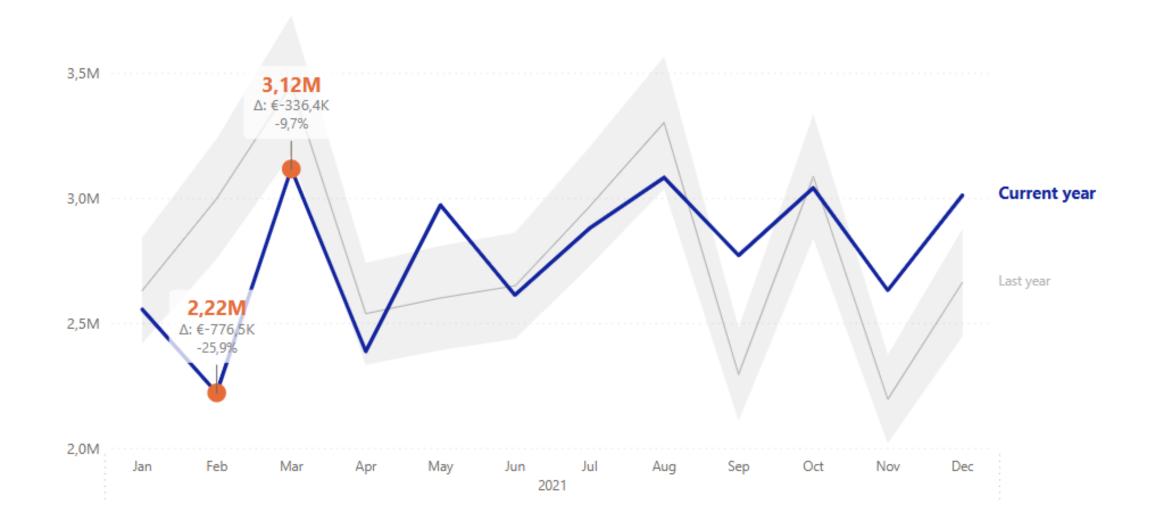
Sales in comparison to last year

What months are we not reaching our last years' sales?



Sales in comparison to last year

What months are we not reaching our last years' sales?



- bullet chart
- dumbbell dot plot
- sankey diagram
- decomposition tree
- slope graph
- strip plot
- line chart with area band

Month	AXW291	FLR025	GUT930	NXH382
Jan	2.703.257,91	539.334,52	1.234.973,75	1.172.714,67
Feb	2.259.926,08	539.863,82	1.375.562,13	1.069.827,46
Mar	2.924.885,74	412.216,49	1.315.734,88	1.019.505,90
Apr	1.474.813,71	398.603,77	909.525,27	637.395,52
May	1.579.049,90	500.179,39	786.976,71	756.319,72
Jun	1.563.093,45	340.557,25	808.183,75	667.429,28
Jul	1.954.306,65	305.088,39	958.470,44	691.440,94
Aug	2.372.035,37	627.590,14	1.260.829,45	948.917,65
Sep	2.465.221,38	489.391,38	1.023.129,53	992.363,87
Oct	2.742.645,87	599.175,98	1.610.355,05	1.098.414,0
Nov	2.637.014,47	515.463,76	1.023.222,73	959.116,72
Dec	2.549.150,27	639.054,31	1.163.040,74	1.173.772,73

- table! → with conditional formatting...

Bonus Layer: finalizing!

- Wireframe
- Grid
- Interaction
- Colours & fonts
- Filters

- Switches (content and graph type)
- Tooltips
- Layovers / instructions
- TEST TEST TEST!



Keep in mind...

- Involve the end user in the entire process
- Create an information structure and prioritize
- Use the company style for recognition and familiarity
- Pay attention to accessibility
- Keep your design calm, with a clear grid
- Place charts in a logical order
- Select graphs that match your key message
- Be consistent in EVERYTHING YOU DO

THANK YOU



Session Feedback



Event Feedback







Lonneke Opsteegh www.statstories.nl