

Power BI Custom Visuals

Power BI gebruikersgroep

Rubicon

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Gold Data Analytics
Gold Data Platform
Gold Application Development
Gold Collaboration and Content
Silver Datacenter
Silver Application Integration

Jan Pieter Posthuma

15 September 2016

- Who am I?
- Introduction
- History
- Tools needed
- Power BI Custom Visual API
 - IVisual module
 - DataView and Capabilities
 - DataViewObjects
- Publish to the gallery
- Questions
- Resources

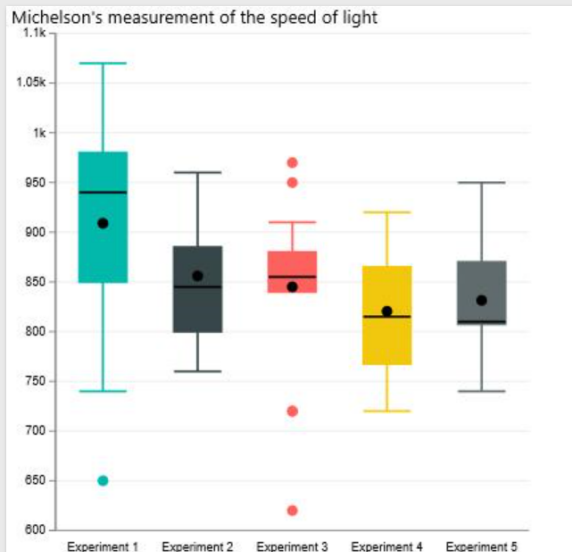
Who am I?

- Jan Pieter Posthuma – Microsoft Data Consultant
- Rubicon, local consultancy firm in the Netherlands
- Architect role at multiple projects
- Analysis Service, Reporting Service, Big Data, HDInsight (Hadoop), Cloud BI, Power BI
 - <https://twitter.com/jppp>
 - <https://linkedin.com/in/jpposthuma>
 - <https://github.com/liprec>
 - <https://docs.com/liprec>



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Box and Whisker (Jan Pieter)

Published by [Jan Pieter Posthuma](#)

Visualize a dataset as a box and whisker chart. A box and whisker chart shows basic statistical information of a dataset: the 1st and 3rd quartile (box), the median (line), the mean (dot) and dependent of the type either the minimum and maximum value of all values or between the 1.5x interquartile range [IQR] (whiskers).

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[Download Visual](#)

[Dow](#)

Version 0.12.5 — Last updated 8/30/2016

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Product Category Name

- Accessories
 - Bottles and Cages
 - Mountain Bottle Cage
 - Road Bottle Cage
 - Water Bottle - 30 oz.
- Bikes
 - Road Bikes
 - Road-150 Red, 44
 - Road-150 Red, 48
 - Road-150 Red, 52
 - Road-150 Red, 56
 - Road-150 Red, 62
 - Road-250 Black, 44
 - Road-250 Black, 48

Version 0.7.9 — Last updated 8/24/2016

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HierarchySlicer

Published by [Jan Pieter Posthuma](#)

With the hierarchy slicer it is possible to represent a hierarchy as a single slicer. The different levels are shown as a tree.

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[Download Sample](#)

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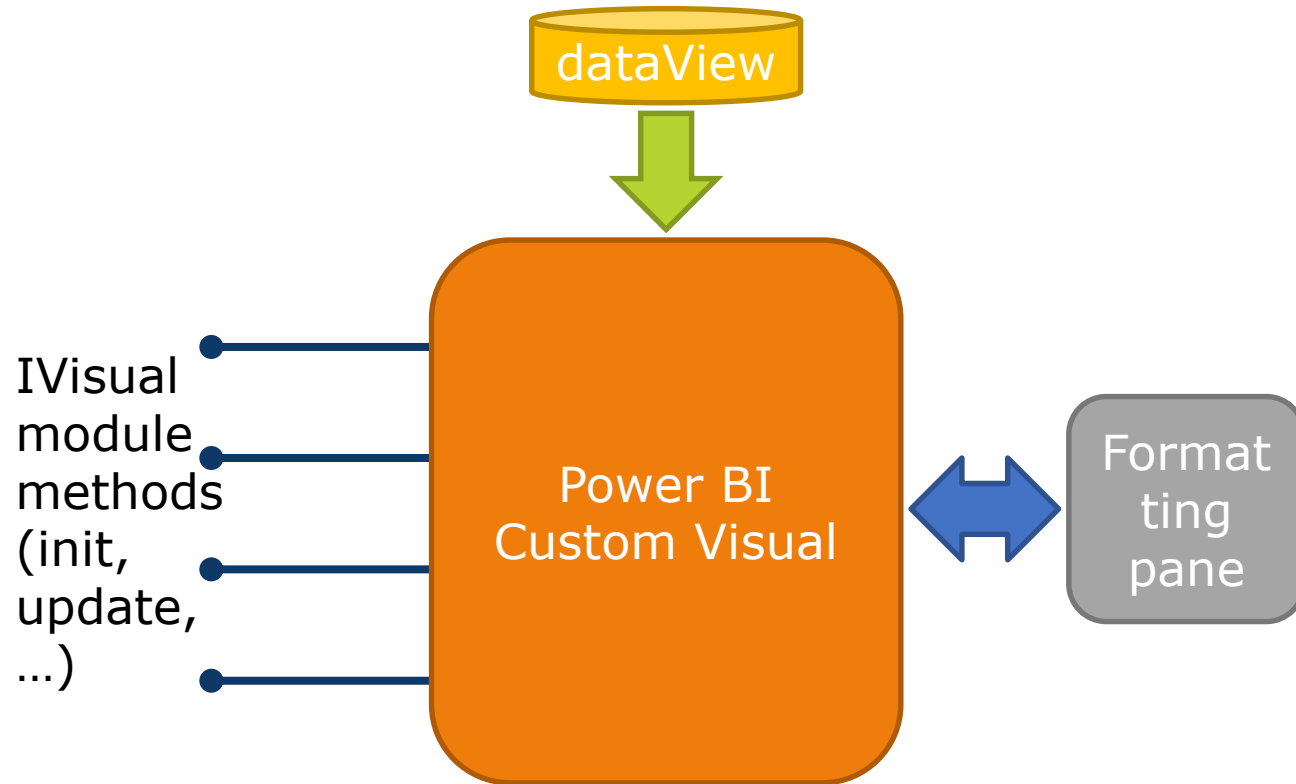
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- Power BI reports can be extended with custom visuals
- Written in TypeScript
- Power BI custom visuals gallery (<https://visuals.powerbi.com>)
- Visuals are sandboxed
- 'Official custom visuals' are delivered via Azure CDN
 - Auto-updated
 - New version 'slow' distributed
- All Power BI visuals are available at GitHub.com (<https://github.com/Microsoft/PowerBI-visuals-core>)

- Since beginning of the new Power BI (Summer 2015)
- Beginning 2016: visuals are running in a 'sandbox' environment
- May 2016: 'official custom visuals
- August 2016: new Power BI API available
- Next: <https://github.com/Microsoft/PowerBI-visuals/blob/master/Roadmap/README.md>

Tools needed

- NodeJS 4.0+ Required (5.0 recommended)
 - <https://nodejs.org/>
- PowerBI-Visuals-Tools
 - **npm install -g powerbi-visuals-tools**
 - SSL and Debug visual: <https://github.com/Microsoft/PowerBI-visuals/blob/master/tools/README.md>
- Visual Studio Code
 - <https://code.visualstudio.com/download>
 - PBIViz CLI addin:
<https://marketplace.visualstudio.com/items?itemName=liprec.vscode-start-pbiviz>



DEMO

- IVisual: basic methods (init, update)
- DataView: adding data to the visual
- Formatting Pane: using formatting options

Publish to the gallery

- Extension of your audience
 - More (test) scenario's
 - 'Monkey testing'
 - More browsers
- Support
 - Power BI is a moving target!
 - Not all things can be tested (agile)
 - All types of users
- 80%-20% rules apply for
 - Development
 - Testing
 - Patience

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Questions?

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- Power BI Custom Visuals documentation
<https://github.com/Microsoft/PowerBI-visuals>
- Power BI CLI tools
<https://github.com/Microsoft/PowerBI-visuals-tools>
- Power BI Core Visuals
<https://github.com/Microsoft/PowerBI-visuals-core>
- Visual Studio Code
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<https://marketplace.visualstudio.com/items?itemName=liprec.vscode-start-pbiviz>