Designing Interactive Reports in Power BI Desktop



Agenda

- Designing Interactive Reports
- Importing Custom Visuals
- Publishing a Project to the Power BI Service
- Using the Publish to Web Feature



Creating Reports

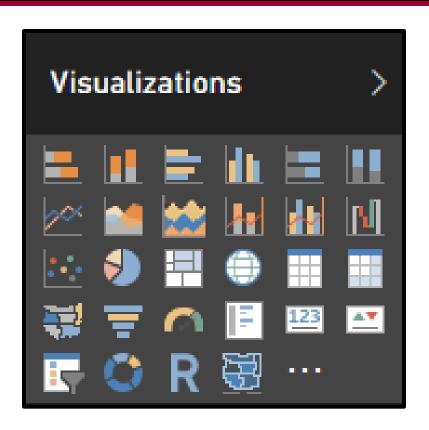
- Power BI Desktop project contains one report
 - Report within project can contain multiple pages
 - Report pages contains visuals

- Reports can be created using filters
 - You can add filter to a specific visual
 - You can add page-level filters
 - You can add report-level filters
 - You can add interactive filters



Built-in Visualization Types

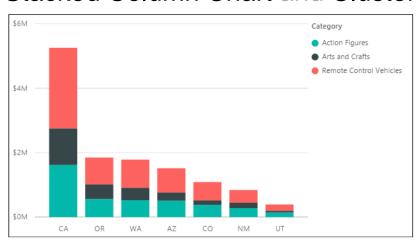
- Table and Matrix
- Bar charts and Column charts
- Pie charts and Doughnut chart
- Line chart and Area chart
- Scatter chart and Combo charts
- Card and Multi-row Card
- Treemap
- Waterfall charts
- Funnel charts
- Gauge charts
- Map and Filled Map
- Slicer
- R script visual
- Shape map (in preview)

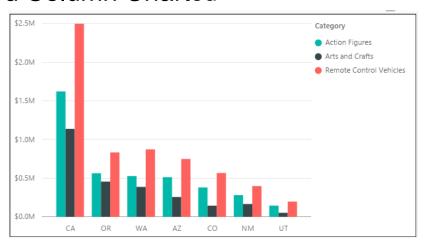




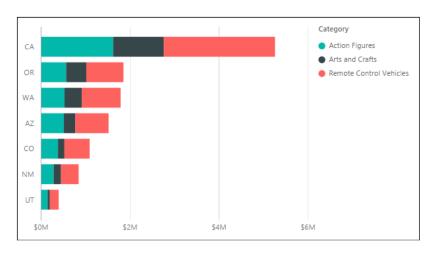
Column Chart and Bar Chart Variations

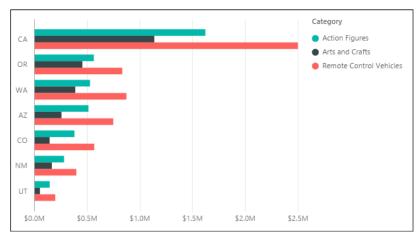
Stacked Column Chart and Clustered Column Charted





Stacked Bar Chart and Clustered Bar Chart

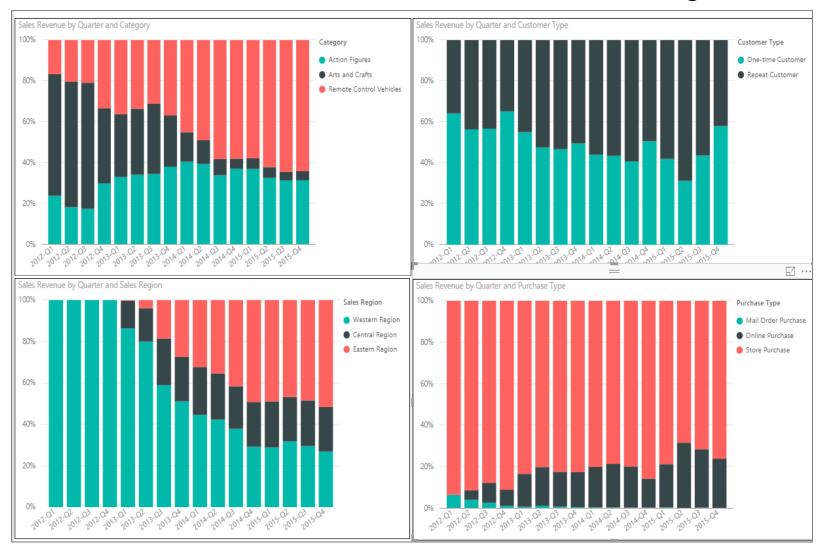






100% Stacked Column Chart

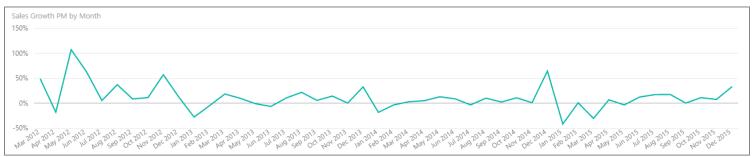
Used to visual distribution over time across categories



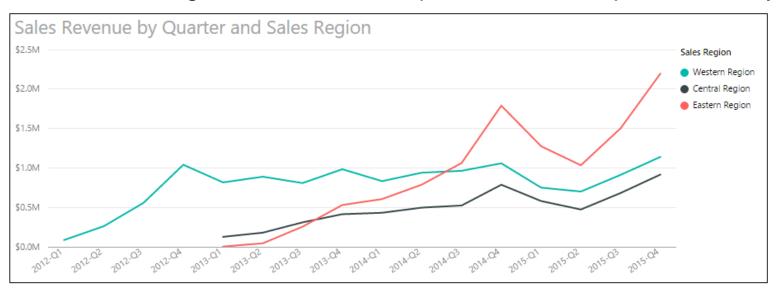


Line Charts

- Visualizes a series of data points across X and Y axis
 - Commonly used for time-based analysis



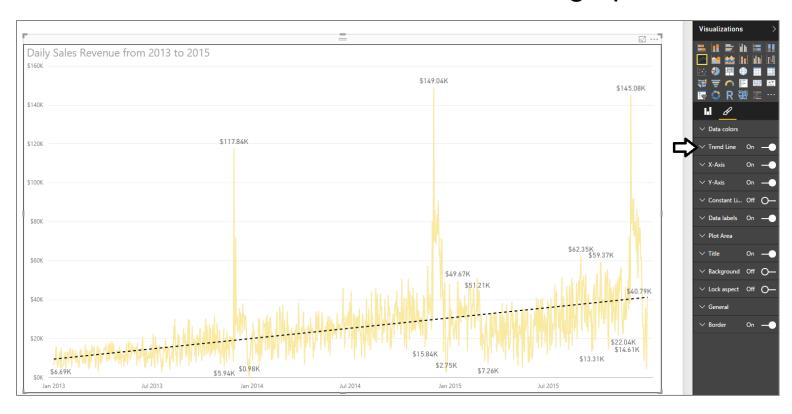
Add field to Legend to create multiple lines for comparative analysis





Trend Lines

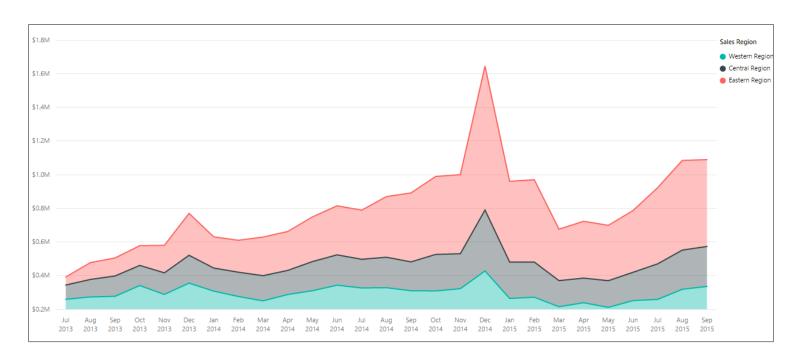
- Used to visualize trends in series-based data
 - Flattens out the ups and downs
 - Used to determine if values are trending up or down





Stacked Area Chart

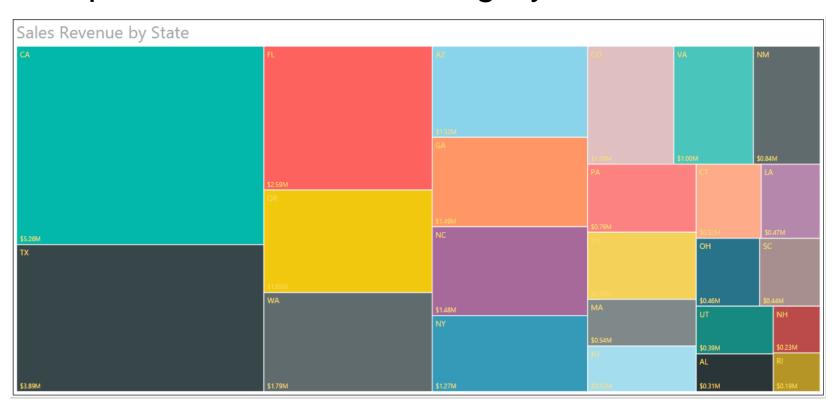
- Basically, a line chart with a little more personality
 - Areas under lines filled with colors





Treemap

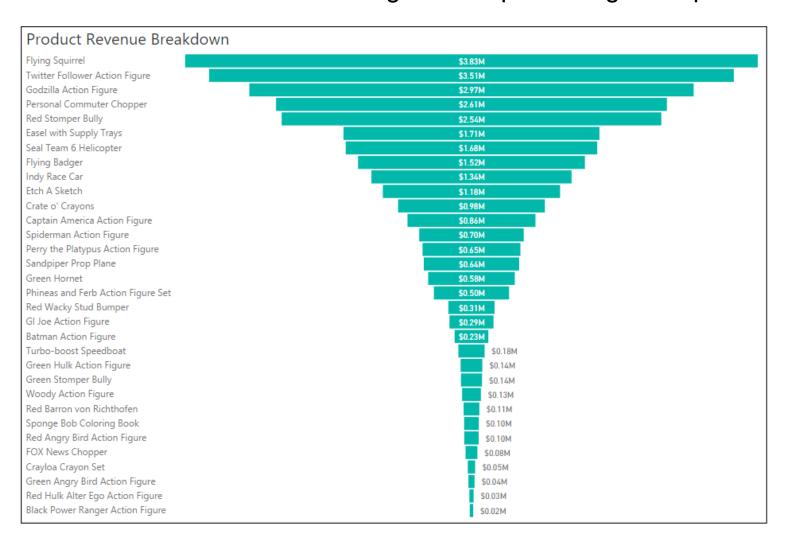
Simple visualization of category distribution





Funnel

Visualizes distribution across categories as percentage of top value





Waterfall

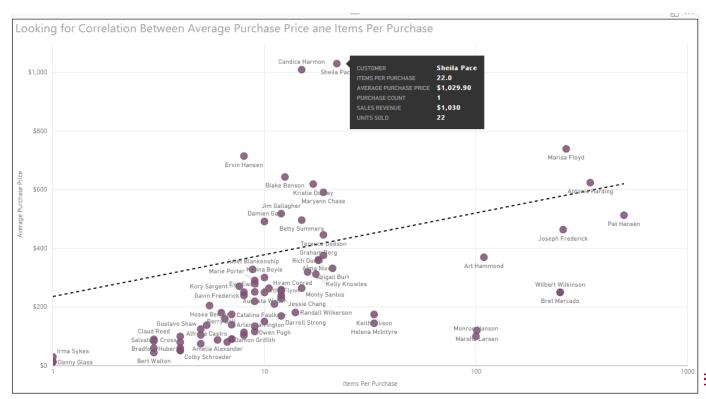
Visualizes series-based data with positive and negative values





Scatter Chart

- Visualizes set of data points when looking for correlation
 - Scatter chart used to discover correlation between two variables
 - Each data point has two values which are mapped to X and Y axis

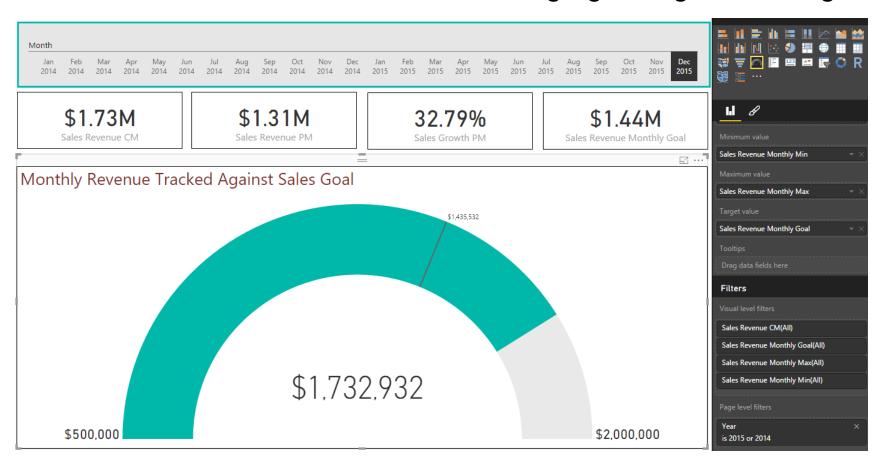


se price?



Gauge Visual

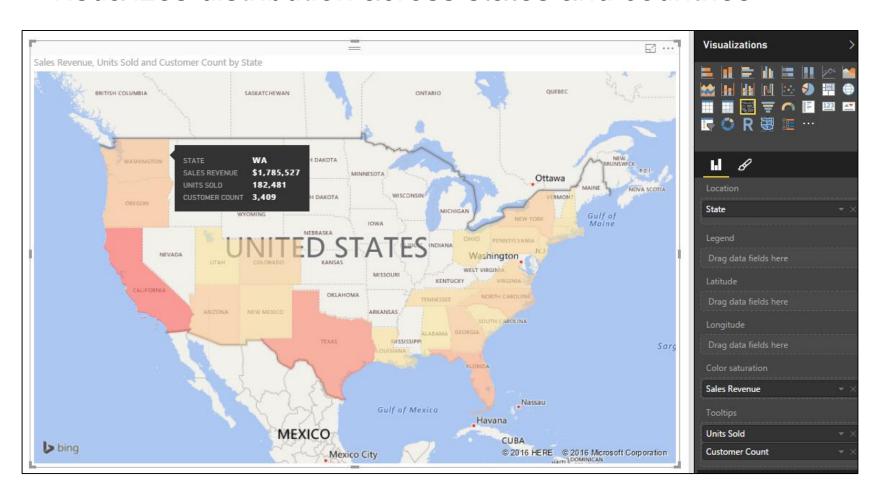
Visualizes how measured value is tracking against goal or budget





Filled Map

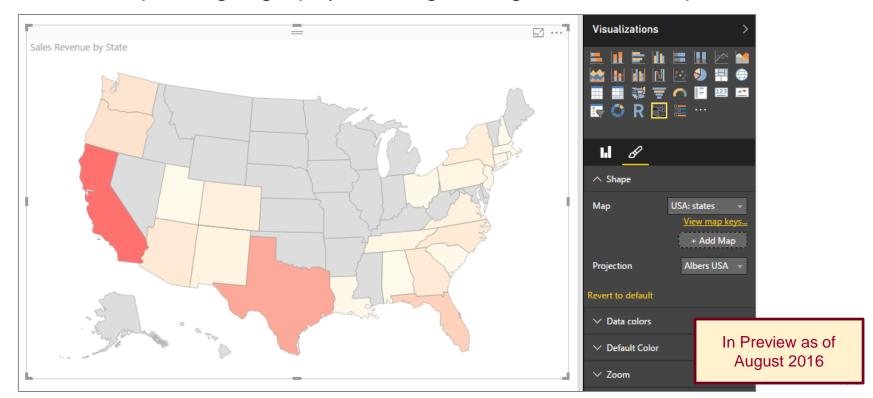
Visualizes distribution across states and countries

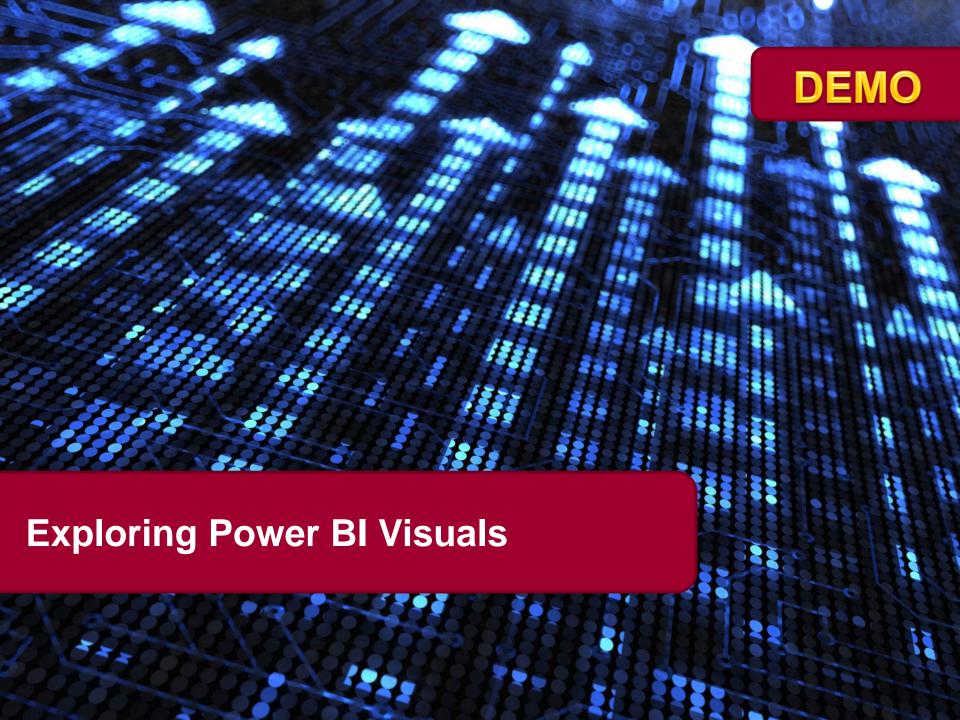




Inline Shape Map

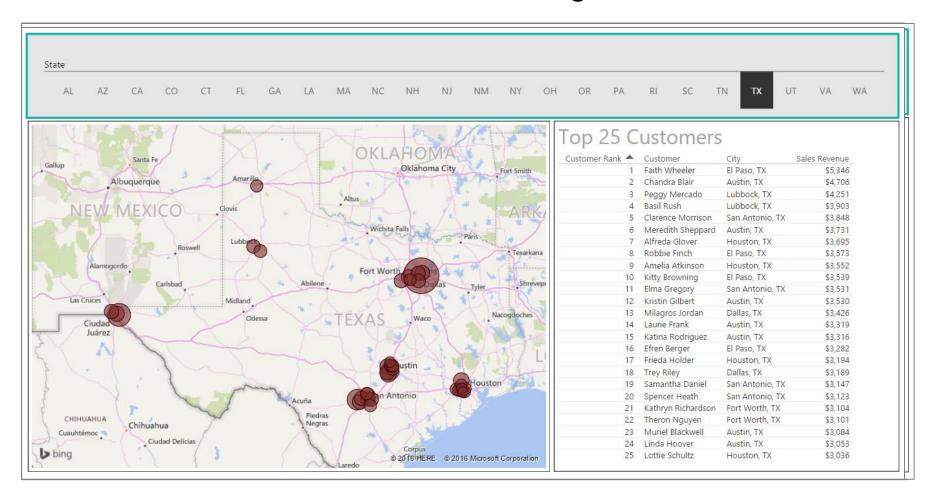
- Similar to filled map with a few important exceptions
 - Based on TopoJSON map format created by ESRI
 - Allows for creation of custom maps using JSON
 - Create maps for geography, seating arrangements, floor plans, etc.





User Interaction with Slicers & Highlighting

Provides user with interactive filtering control

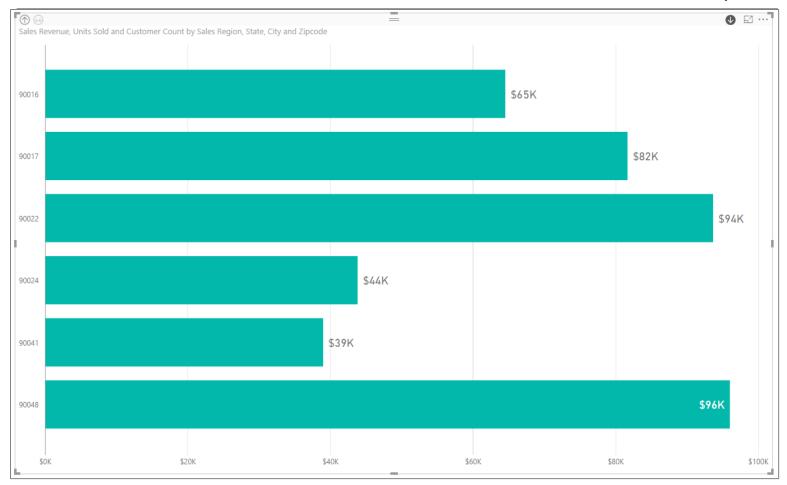




User Interaction using Drill Actions

- Drill Actions supported when using hierarchies
 - You must enabled drilldown mode in visual







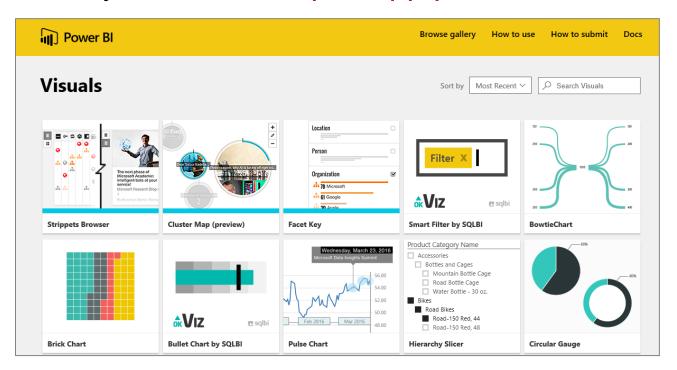
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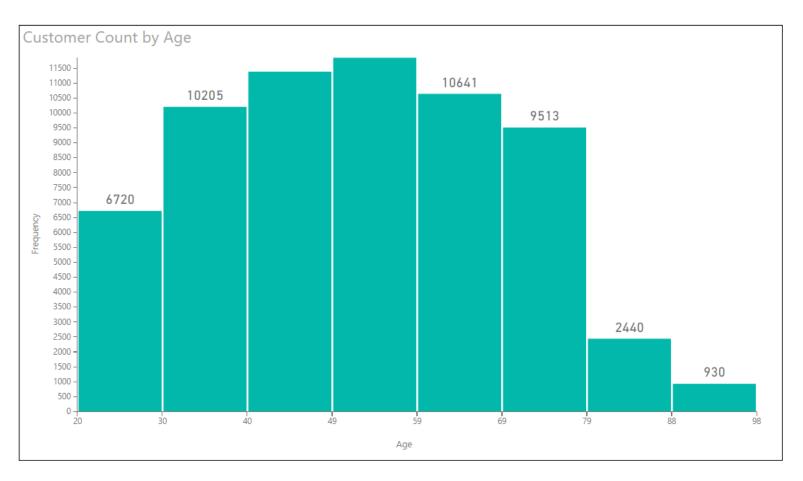
Custom Visual Gallery

- Power BI Framework for Visuals is Extensible
 - Developers can extend Power BI with Custom Visuals
 - Microsoft Hosts gallery of custom visuals
 - Gallery located at https://app.powerbi.com/visuals/



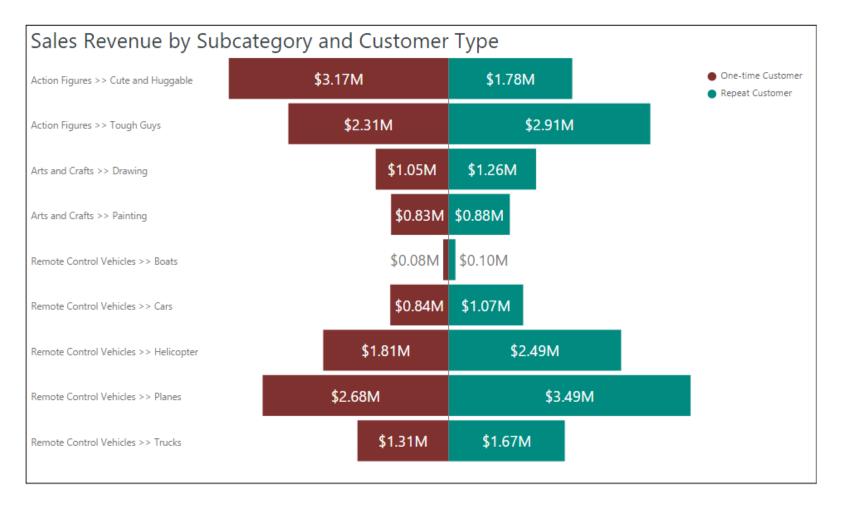


Histogram



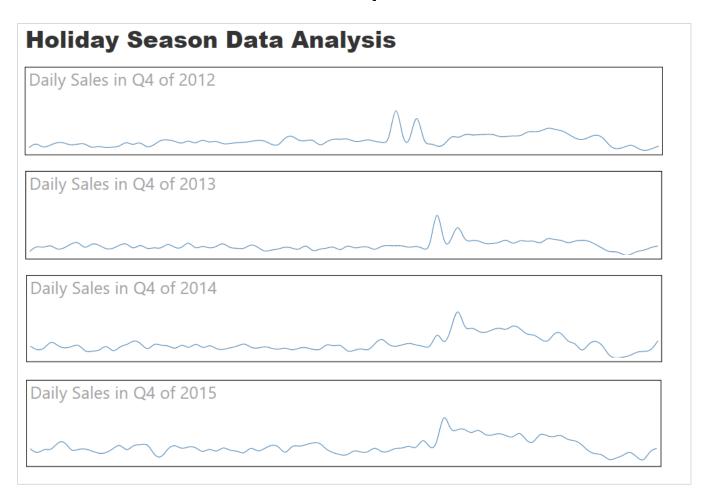


Tornado Chart



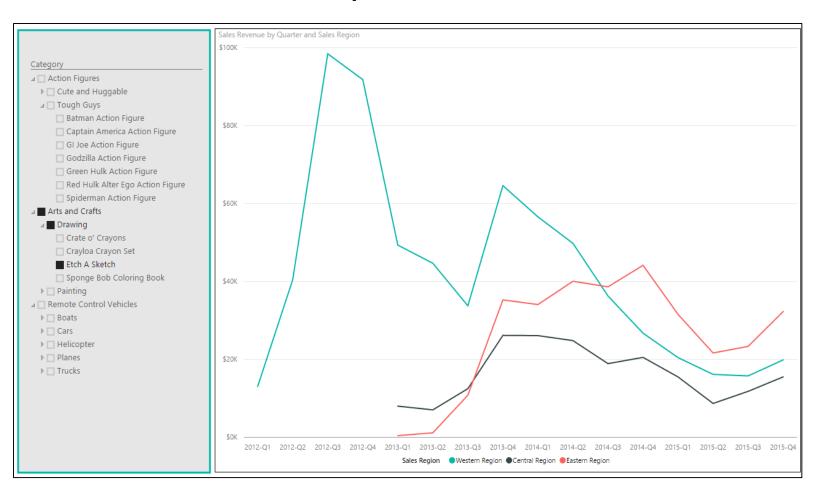


Spark Lines





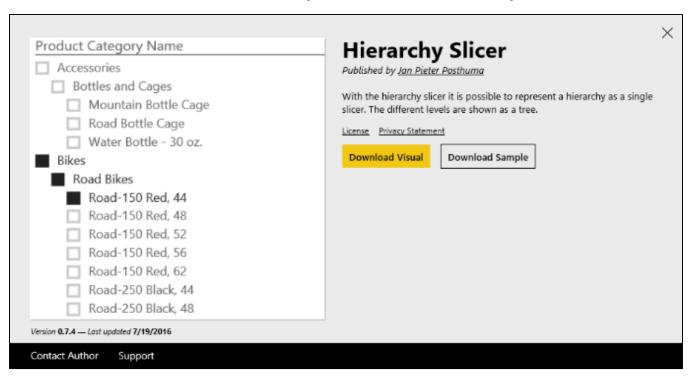
Hierarchy Slicer





Downloading & Importing a Custom Visual

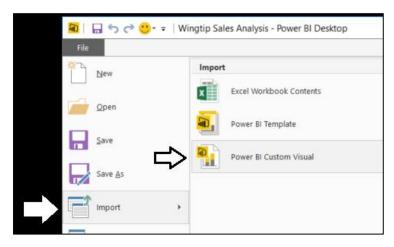
- Visual must be downloaded from Visuals Gallery
 - Custom Visual files packaged in PBIVIZ File
 - Custom Visual can be imported into Power BI Desktop project
 - Custom Visual can be imported into workspace in Power BI service



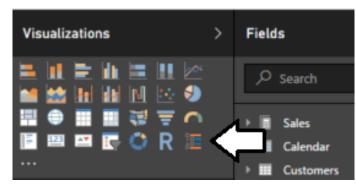


Importing a Custom Visual

- Import custom visual into Power BI Desktop project
 - Execute Import > Power BI Custom Visual menu command



After import, Custom Visual appears in Visualizations list





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Publishing a Power BI Desktop Project

- Power BI Desktop provides Publish command
 - Used to publish project to Power BI service



Requires logging into your Office 365 account



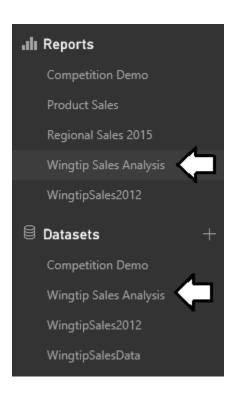


Published articles added to a specific workspace



Examining What's Been Published

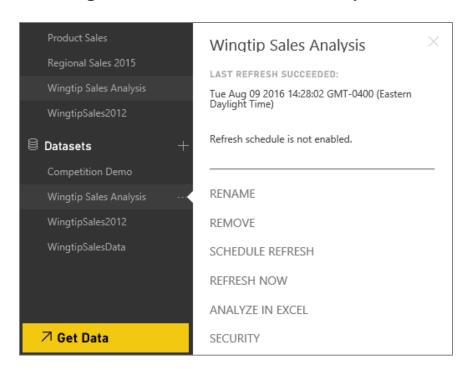
- What does project publishing add to workspace?
 - One dataset with same name as project
 - One report with same name as project





Dataset Configuration

- You can configure Dataset after its been published
 - Configure data source credentials
 - Configure refresh schedule
 - Configure Row-level Security





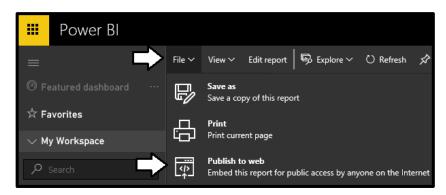
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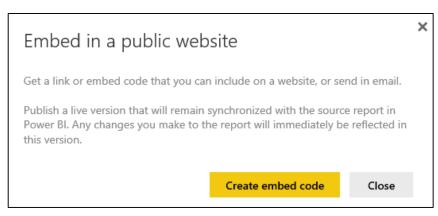


Publish to Web

- Publish to Web command available on reports
 - Not supported for reports and datasets which implement RLS



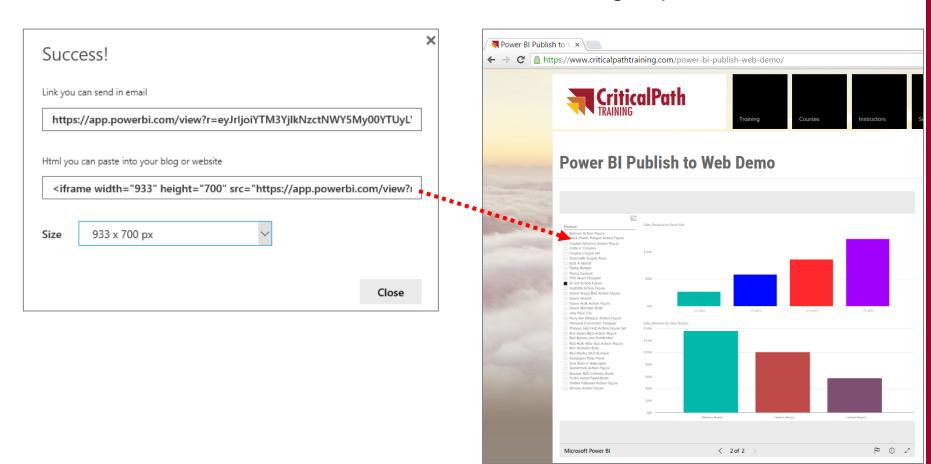
Publish to Web command used to generate embed codes





Generating Embed Codes

- Used to provide anonymous access to report
 - Provide link which can be posted, emailed or texted
 - Provides iFrame HTML element for embedding in public web site



Summary

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