

## **Meet Andrew**

- BLUE BADGE Founder and CEO
- Big Data blogger for ZDNet
  - http://bit.ly/bigondata
- Microsoft Regional Director, MVP
- Co-chair Visual Studio Live!
- Twitter: @andrewbrust



### Context

- Power BI is updated monthly
- There are a ton of new features
- There isn't much time for them in a "101" session
- But they're important
- We'll look at some of the cooler ones in this session
- Some we'll just discuss
- Lots of others will be demoed



# Agenda

Add column by example

Visualizations

Other report design

Mobile

**Azure Analysis Services** 

Connectors

Power BI Premium



# **Add Column by Example**

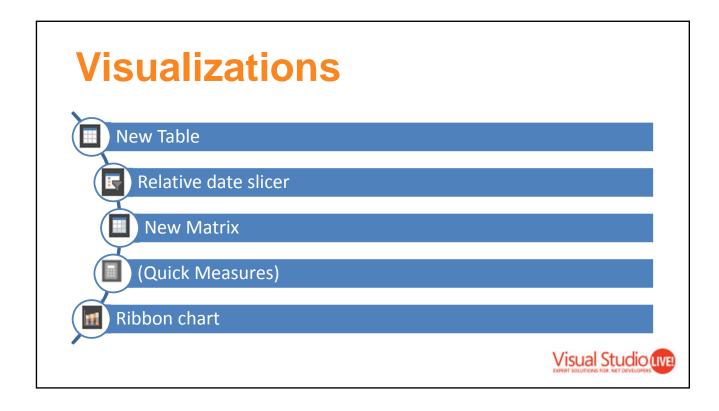
- Enter the desired result and Power BI will reverse engineer the way to get there
- May take multiple entries to eliminate ambiguity
- PBI can consider all columns or just selected ones
- Extract text before/after/between delimiters
  - Think of it like left(), right(), mid() string functions, based on characters rather than numeric positions



Add Column by Example







# **New Table Visualization**



- Table style
- Word wrap
- Conditional formatting
  - Data bars
  - Background colors
  - Font colors





### **Relative Date Slicer**

- Instead of picking a date range with start and end dates, pick an interval in the future or past, or a current interval
- Express in terms of days, weeks, months, years (calendar or relative)
- Connect slicer to column of type Date and select "Relative" from viz dropdown



New Table Viz, Relative
Date Slicer (and maps, too)







### **New Matrix Visualization**

- Same formatting improvements as Table viz
- But since it's hierarchical, provides really nice subtotaling totaling capabilities
- Combine with Quick Measures for great results...





# **Quick Measures**

- Add measures, based on complex DAX expressions, using dialog-box front end
- List of quick measures is growing; some are community-contributed
- Good way to reverse engineer DAX
- Feature is in preview







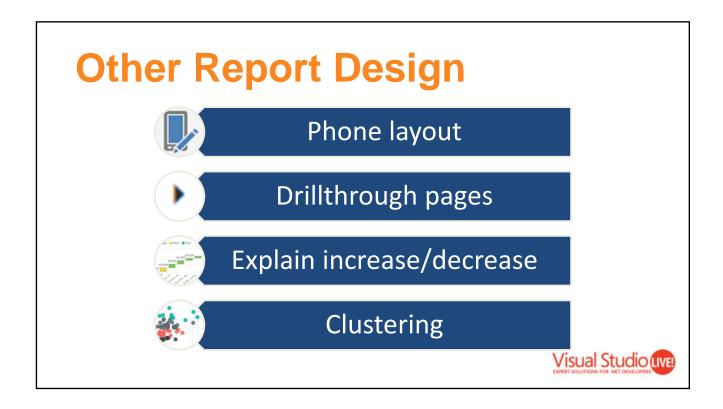
## Ribbon chart



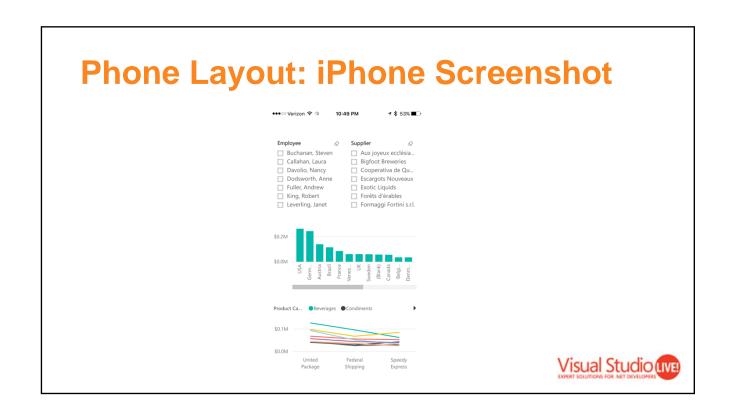
- Shows trends by blending segments in a stacked bar chart of like color
- Spacing, border and transparency options to make it more readable











Drillthrough

# **Drillthrough Pages**

- Allows selection in one report page to navigate to filtered view of another
- Automatically generated back-button takes you back
- As simple as dragging a specific column into the Drillthrough Filter well



**Drillthrough Pages** 

Drillthrough



### ©nceae € Coreae € Core € Mai

# **Explain Increase/Decrease**

- Uses a special mode of "View Insights" to explain increases or decreases over time in a bar or column chart
- Visualizations in the explanation:
  - Allow configuration of viz type
    - Waterfall is default; can change to scatter, 100% stacked column or ribbon
  - Can be added to the report
- Really useful, low-effort root-cause analysis feature

  Visual Studio m

**Explain Increase/Decrease** 







# Clustering

- Groups points on a scatter plot it affinity groups
- Just pick "Automatically find clusters" option from scatter plot viz's "..." menu
- "Details" column cannot be hierarchy level
- Adds a special column containing cluster number to source table



### Clustering







## **Cloud Service**



- Goal: Parity with Desktop
- Note: Only authoring option on Mac
- Export to PowerPoint
- Email subscriptions







# **Mobile**

- Search

  6.32 PM ▼ E GN ■

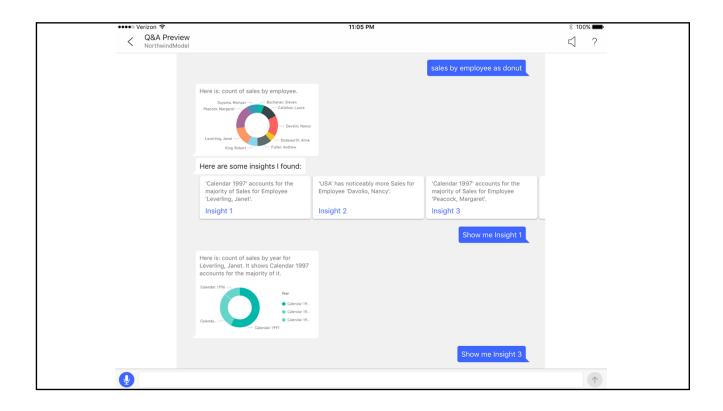
  Constitution ▼

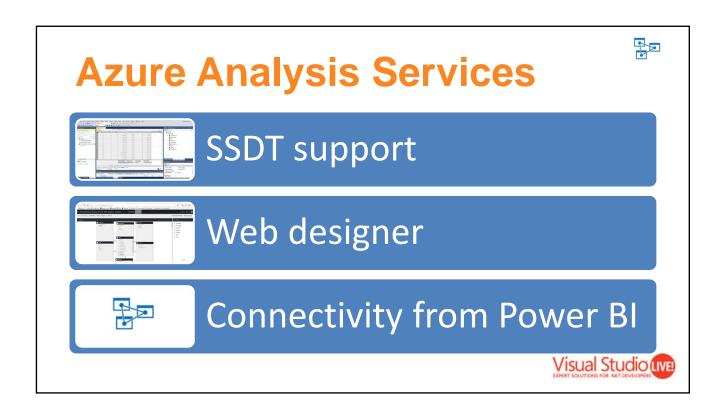
  Great Search

  F E GN ■

  Constitution ▼ E GN ■
- Windows (Including PC), Android Phone, iPhone, iPad
- SSRS integration
- Q&A in iOS
  - With voice







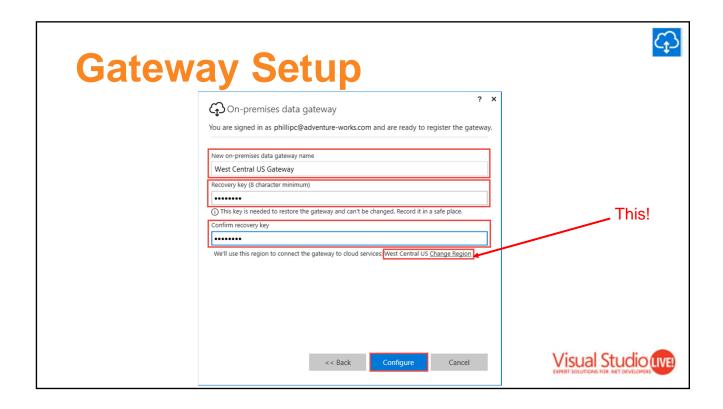




# **Gateway Setup**

- Install it
- May need to select Change Region option to place in same region as your AAS server
- Create Azure gateway resource
- Connect AAS to the resource
- Then can deploy from SSDT, refresh data





## **Connectors**

- Redshift
- Snowflake
- Netezza (Beta)
- Dynamics 365 for Financials (Beta)
  - Improvements (AAD authentication and auto endpoint detection)
- Dynamics 365 for customer insights (Beta)
- SAP BW with DirectQuery and enhanced parameter input experience
- Impala
  - DirectQuery support
- Azure Consumption Insights (Beta)

- Live connect for Power BI Service
  - Includes on-prem and push streaming datasets
- Live connect for Analysis Services
  - Includes Azure Analysis Services
  - With report-level measures
- Live connect to in Power BI Service
- Folder connector Combine files
- Web page previews in Web connector
- Custom connectors





## **Power BI Premium**

- Dedicated Infrastructure
- Multi core and, optionally, multi-server
- Pay per node, per month
  - P1 node is \$4,995/month
  - 8 cores, 25GB RAM
- Unlimited consumption users
- Authoring requires Pro subscription as well (\$10/user/month)
- Lots more. Read white paper.





# **Power BI Report Server**

- Power BI Premium includes an on-premises deployment option: Power BI Report Server
- PBI RS is a superset of SSRS, licensed for same number of cores as your cloud license
- Licensees of SQL Server Enterprise Edition with Software Assurance ("EE + SA") can get PBI RS without a Power BI Premium subscription



## **Thank You!**

- Email
  - andrew.brust@bluebadgeinsights.com
- Twitter
  - <u>@andrewbrust</u> on twitter

