Datapolitan

Data Solutions for the Modern Metropolis
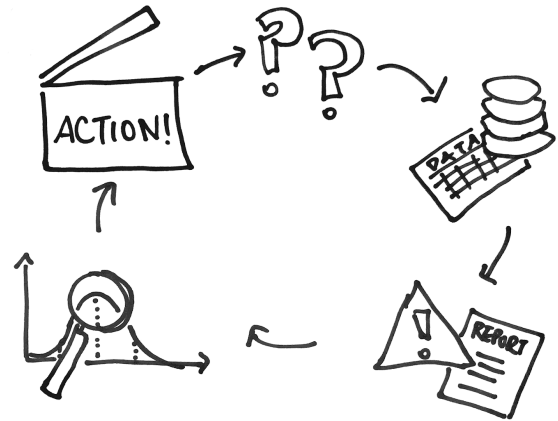
Data Analytics for Managers

Follow along at: http://bit.ly/data-driven-gov

See the code at: http://bit.ly/data-driven-gov-code

Key Questions for the Morning

- What is the value of data?

- What is analysis?

- What does it mean to be data-driven?

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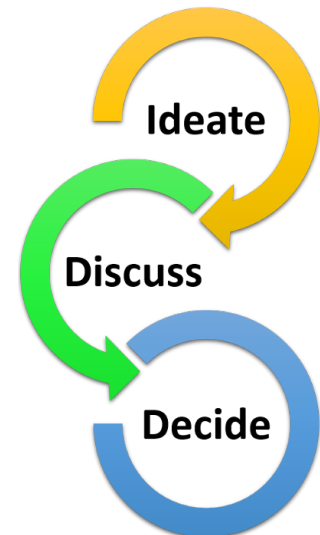
The Analytics Value Chain

- What are the key steps?


- What are the key things to keep in mind?

Problem Scoping

- **Ideate**: On your own, generate at least 3 ideas (ideally more), each on their own Post-It Note

- **Discuss:** Review the ideas generated

- **Decide:** Come to a consensus as a group

Process Mapping Steps

- Identify the key problem/question

- Identify the desired outcome

- Identify key outcome measures **(How do we know we've got it right?)**

- Identify the key inputs (data)

- Identify the key steps to use inputs to achieve the outcome
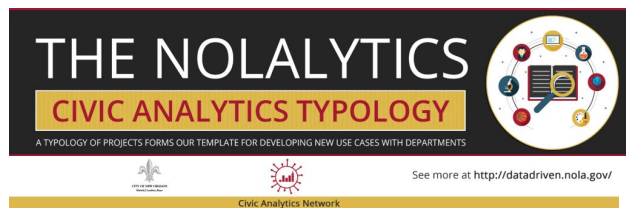
Based on the work of the City of New Orleans, Office of Performance and Accountability
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4 Concerns to Be Mindful Of

1. Technical
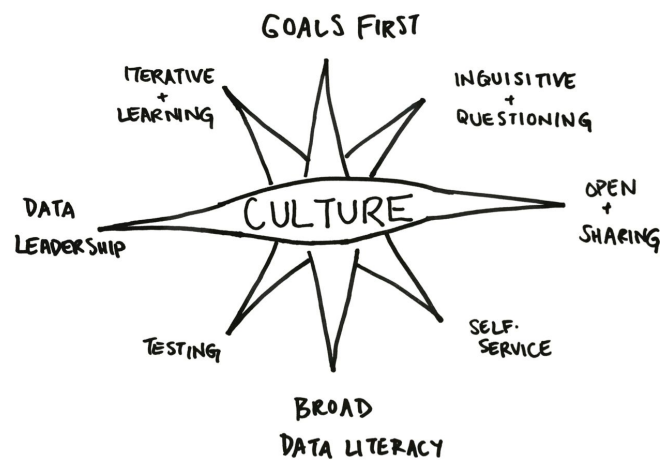

2. Legal

3. Cultural

4. Political

Key Benefits of Good Analysis

Key Questions for the Afternoon

- What is open data?

- What are the benefits of open data?

- What are some of the concerns with open data?

- What is exploratory data analysis? Why is it important?

- What is a data-driven culture?

- How do we create it in our organization?

Data Exercise

Filtering
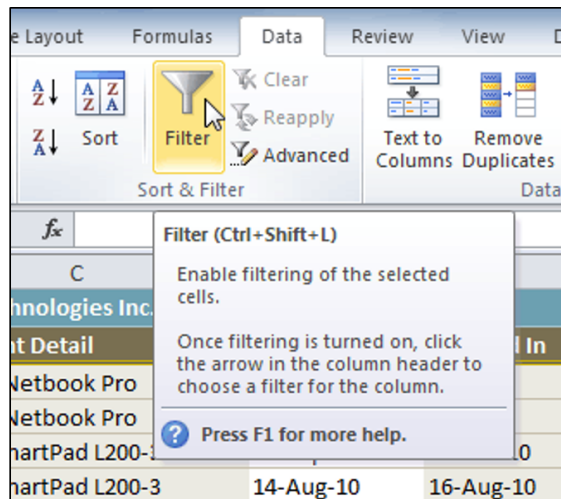
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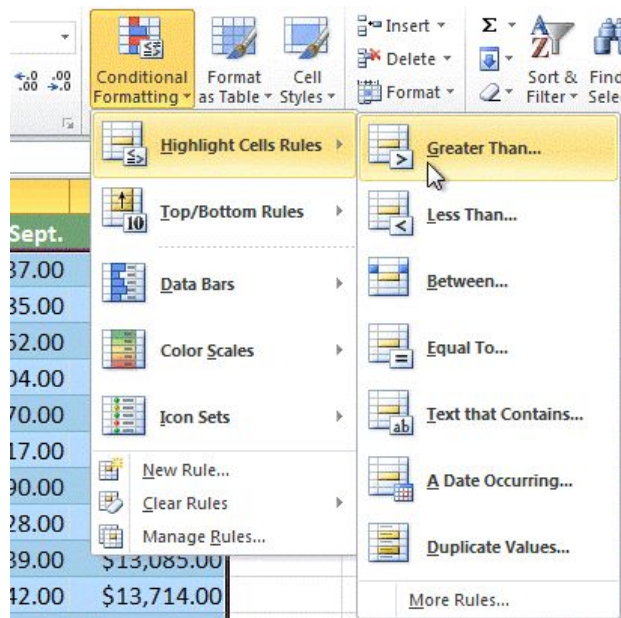
PivotTables
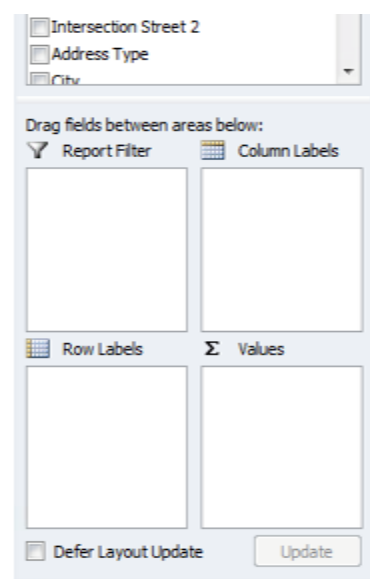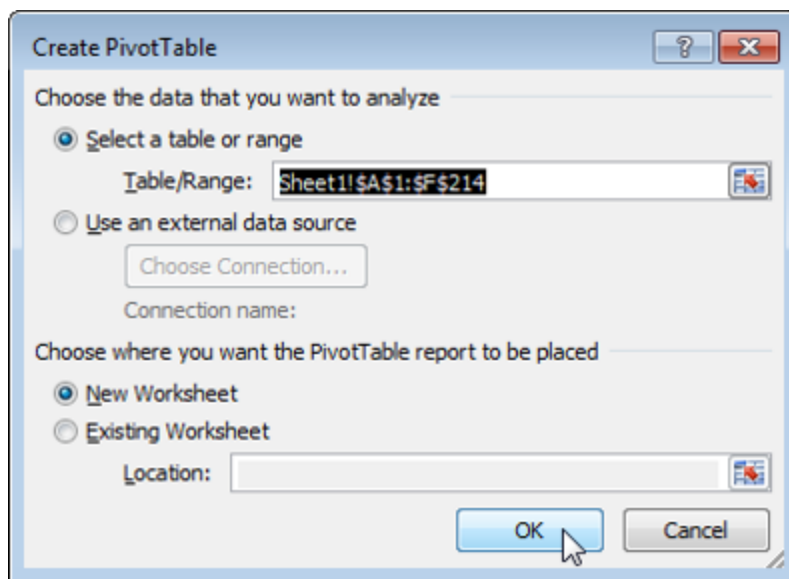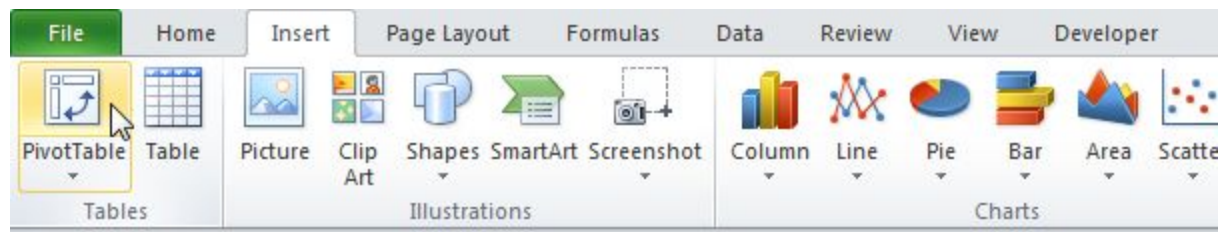
Useful Functions in Excel

=SUM(): Calculates the sum for a range of numbers

=COUNT(): Counts the number of cells containing numbers in a range

=COUNTA(): Counts the number of non-blank cells in a range

=HOUR(): Extracts the hour from a timestamp

=WEEKDAY(): Extracts the day of the week from a timestamp

=CHOOSE(): Uses an index number to return a result from an ordered list of values

Technical Support

- Microsoft Office Support http://office.microsoft.com/en-us/support
- Excel Tips http://excel.tips.net
- Data Science Cheatsheet https://github.com/govex/Data-Science
- Open Data Handbook http://opendatahandbook.org

Resources

- Data Driven New Orleans https://datadriven.nola.gov
- Harvard Government Performance Lab https://govlab.hks.harvard.edu
- Carl Anderson **Creating a Data-Driven Organization**
- DJ Patil & Hilary Mason **Data Driven: Creating a Data Culture** https://www.oreilly.com/ideas/data-driven
- Datapolitan training classes http://training.datapolitan.com/

Contact Information

Your Notes