Visualizing Open Data with

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Objective

Learn how to use Tableau Public to create engaging open data visualizations

High-Level Agenda

- Tableau Public Overview
- Case Study
  - 2016 Municipal Census Data
  - Edmonton Neighbourhood Boundaries
  - EPS Crime Data

Tableau Public Overview

- **Software tool** for creating interactive, sharable visualizations from a variety of data

- Quick
- Easy
- Sharable
- Free! (with some restrictions)

Tableau Public Overview

- **Web-based platform** for sharing visualizations created with Tableau Public software

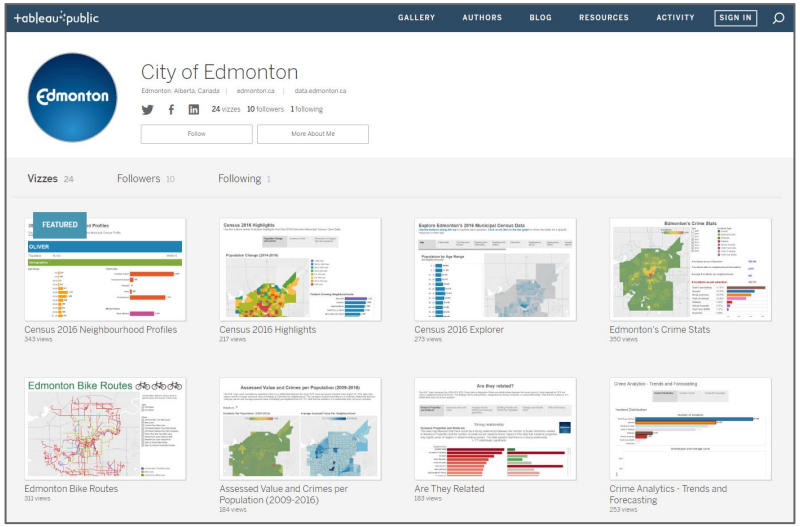


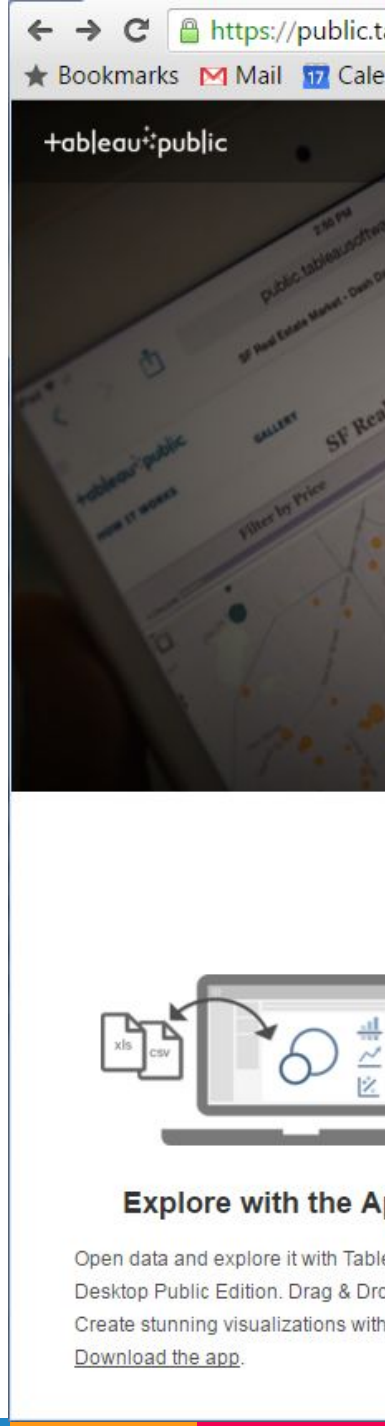
Tableau Public vs Tableau Desktop

	Tableau Desktop	Tableau Public
Platform	Desktop (Windows/Mac)	Desktop (Windows/Mac)
Pricing	$999 USD for Personal $1999 USD for Professional	Free
Features	Save locally or publish to the web **Connect to:** Google Sheets, Excel, CSV, oData, most databases No data source size limits	Publish to the web only. Workbooks and data are freely accessible to the world. **Connect to:** Google Sheets, Excel, CSV, OData, Data sources have limit of 1 millions rows.

Activity

Create a Tableau Public Account

https://public.tableau.com/

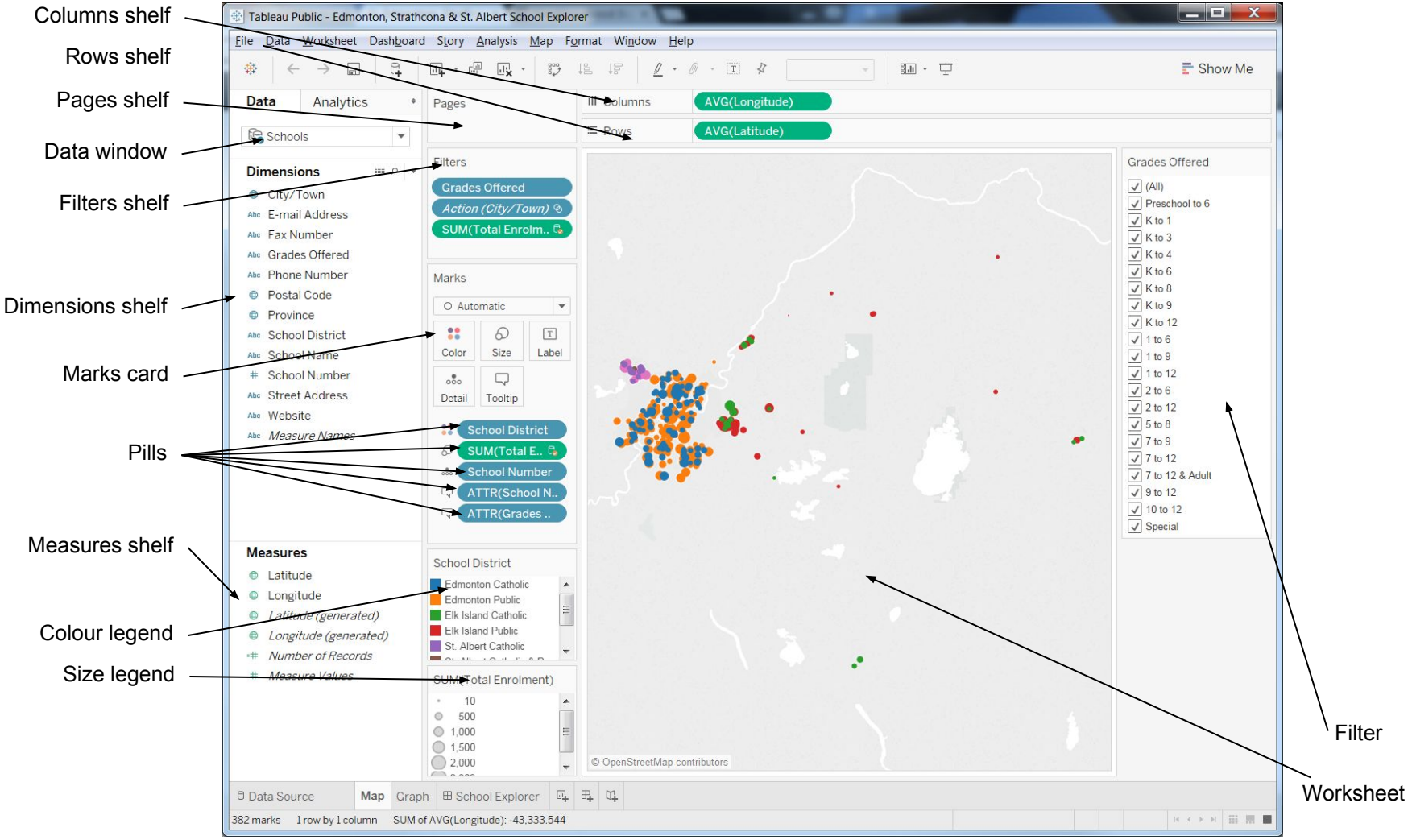


Activity

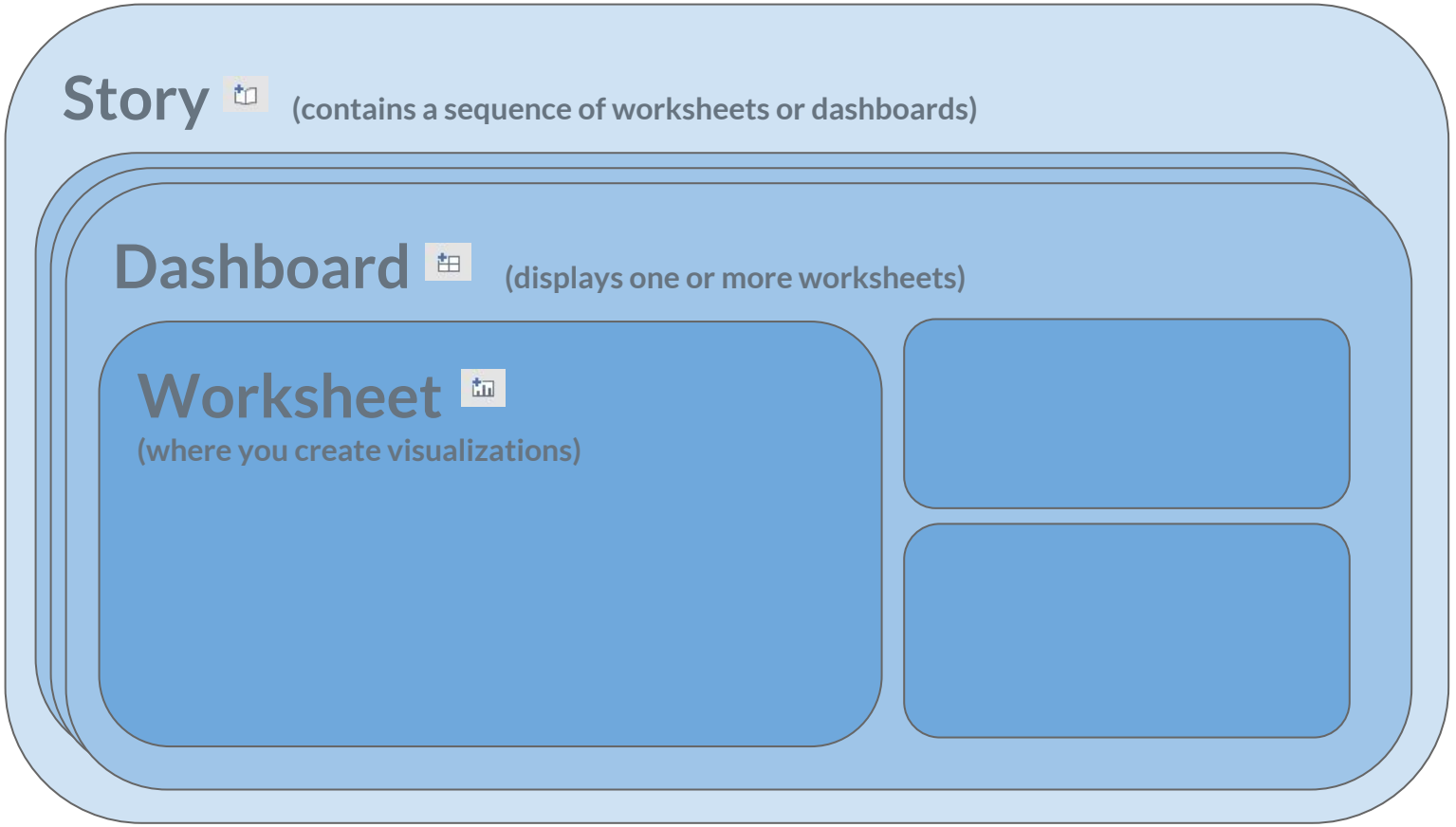
Download and open an existing workbook

http://public.tableau.com/profile/city.of.edmonton#!/vizhome/EdmontonStrathconaSt_AlbertSchoolExplorer/SchoolExplorer

The Tableau Workspace



Anatomy of a Tableau Workbook



Case Study

- **EPS Crime Data**
- **Edmonton Neighbourhood Boundaries**
- **2016 Municipal Census Data**

For each step

1. You'll be shown how to do it
2. You'll have additional time to complete the work yourself

Key Concepts

- Connecting to text files and oData
- Text tables, bar graphs
- Mapping co-ordinates and polygons
- Data blending
- Subtotals
- Number format
- Calculated Fields
- Filters

Case Study Manual:

http://bit.ly/aods2016

Case Study - Step A

Connecting to a text file

Case Study - Step B

Creating a text table

Case Study - Step C

Adding subtotals

Case Study - Step D

Creating a bar graph

Case Study - Step E

Adding a filter

Case Study - Step F

Displaying a value by colour

Case Study - Step G

Connecting to a text file

Case Study - Step H

Mapping coordinates

Case Study - Step I

Mapping polygons

Case Study - Step J

Blending data

Case Study - Step K

Displaying a value by colour

Case Study - Step L

Connecting to oData

Case Study - Step M

Creating a calculated field

Case Study - Step N

Blending data

Case Study - Step 0

Creating a calculated field

Case Study - Step P

Displaying a value by colour

Case Study - Step Q

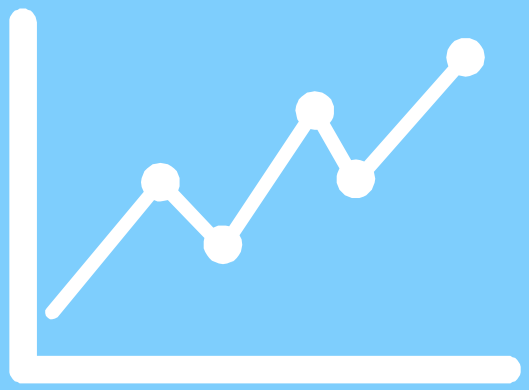
Adding a filter

Case Study - Step R

Creating dashboards

Case Study - Step S

Publishing to Tableau Public



Q & A

Use this time to ask questions and further explore the data

Thanks!

More questions?

Reach our team at **ace@edmonton.ca**

Check out our work at **http://ace.edmonton.ca**