Overview of the workshop

This workshop was part of the special seminar series Machine Learning for Precision Public Health, organized by the BC Centre for Disease Control (BCCDC). Following a presentation about data visualization principles, this workshop aimed to provide a hands-on introduction to Tableau, a platform for exploring and analyzing data visually to uncover trends, patterns, and anomalies and engage with end user communities to tell a story with the data.

Workshop facilitators Brad Devlin, Tableau Technical Sales Consultant and Maggie Morrison, Strategic Account Manager, along with other Tableau representatives Mya Warren and Sameer Merchant, opened the workshop with demonstrations of data visualizations created with Tableau. Facilitators then invited participants to open up Tableau on their laptop and follow along to build visualizations using Tableau’s demo data (a Superstore dataset). The workshop closed with a Q&A session about features specific to visualize health-related data using Tableau.

A total of 28 participants attended the workshop.

Resources to further support learning and orientation to Tableau

1. Tableau for Students
2. Community
3. Tableau Conference and TC18 healthcare presentations
4. Learning (note: Tuesday, March 26 @ 11am PT is the next Getting Started live 1 hour training)
5. Extras

TABLEAU FOR STUDENTS

Having its roots in a PhD research initiative, Tableau is passionate about enabling students. So much so that students – elementary, secondary, post-secondary – have access to Tableau for free! Please see Tableau for Students for details.
COMMUNITY
Register for the Vancouver Tableau User Group to receive meeting notifications and request to join the LinkedIn VTUG. The passionate Tableau Community including Forums is another place to ask questions and engage. Tableau Public is an open environment that allows individuals and organizations to share their visualizations and their insights. The content varies extensively from individual interests to corporate output to public sector engagement of community to causes. Search on any topic or subscribe to the Viz of the Day.

TABLEAU CONFERENCE
Every year, Tableau enthusiasts gather for a few days of intense learning, networking and collaboration at TC19. Here are TC18 Healthcare related presentations and links to two by AHS in 2017 focused on healthcare analytics and 2018 focused on the opioid crisis and IT management.

LEARNING
Live Training – frequently hosted live training sessions on various topics including Getting Started on Tuesdays at 11am PT is highly recommended.

Tableau has developed a library of how-to videos to support your Tableau knowledge highlighted below and there are many more hours of other available content.

The Tableau Interface (4 min)
https://www.tableau.com/learn/tutorials/on-demand/tableau-interface
Distributing and Publishing (4 min)
https://www.tableau.com/learn/tutorials/on-demand/distributing-and-publishing
Publishing to Tableau Online (3 min)
https://www.tableau.com/learn/tutorials/on-demand/publishing-tableau-online
Publishing Data sources to Tableau Online (7 min)
Getting Started with Data (6 min)
https://www.tableau.com/learn/tutorials/on-demand/getting-started-data
Cross-database Joins (3 min)
https://www.tableau.com/learn/tutorials/on-demand/cross-database-joins
Managing Metadata (4 min)
https://www.tableau.com/learn/tutorials/on-demand/managing-metadata
Managing Extracts (4 min)
https://www.tableau.com/learn/tutorials/on-demand/managing-extracts
Getting Started with Visual Analytics (6 min)
https://www.tableau.com/learn/tutorials/on-demand/getting-started-visual-analytics
Drilling Down and Hierarchies (5 min)
https://www.tableau.com/learn/tutorials/on-demand/drill-down-and-hierarchies
Ways to Filter (2 min)
https://www.tableau.com/learn/tutorials/on-demand/ways-filter

Using the Filter Shelf (7 min)
https://www.tableau.com/learn/tutorials/on-demand/using-filter-shelf

Interactive Filters (4 min)
https://www.tableau.com/learn/tutorials/on-demand/interactive-filters

Getting Started with Calculations (3 min)
https://www.tableau.com/learn/tutorials/on-demand/getting-started-calculations

Intro to Table Calculations (3 min)
https://www.tableau.com/learn/tutorials/on-demand/intro-table-calculations

Where Tableau Filters (4 min)
https://www.tableau.com/learn/tutorials/on-demand/where-tableau-filters

Additional Filtering Topics (7 min)
https://www.tableau.com/learn/tutorials/on-demand/additional-filtering-topics

Intro to LOD expressions (6 min)
https://www.tableau.com/learn/tutorials/on-demand/introduction-lod-expressions

Trend Lines (5 min)
https://www.tableau.com/learn/tutorials/on-demand/trend-lines

Reference Lines (7 min)
https://www.tableau.com/learn/tutorials/on-demand/reference-lines

Forecasting (6 min)
https://www.tableau.com/learn/tutorials/on-demand/forecasting

EXTRAS
Webinar April 4 - Designing Time
Blog Post – Addressing the Opioid Crisis
Story - Seattle Cancer Care Alliance
AHS Snapshot – Healthcare Utilization in Alberta
Tableau Public – Alberta Health Services
Health Data Management – Trends in Healthcare Analytics
Books – Tableau For Healthcare by HealthDataViz, a Tableau partner specializing in analytics in healthcare or The Big Book of Dashboards, a great resource that includes online activity to reinforce the learning

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\(^1\)In the Mar 19^{th} Grand Rounds presentation of How to Visualize Your Data for Analysis and Communication, Anamaria Crisan discussed the role of data visualization in this era of public health and provided an overview of techniques and tools for creating data visualizations for analysis and communications.