# **Unit 3: Core tools**

# Dashboards & Bokeh

Lesson 32

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## **Overview of unit**

#### Objectives:

- Understanding how data science activities necessitate certain kinds of tools
- Fundamentals with core data science tools
- 1. Why core tools? 7. Github
- 2. Project organization 8. Jupyter notebooks
- 3. Python 9. Jupyter & statefulness
- 4. Best practice: write CLI tools 10.Bokeh
- 5. Best practice: write unit tests 11. Advanced bokeh
- 6. Best practice: resource 12.HW 3 referencing

## Lesson overview

### **Objectives**

- Understand why dashboards are fundamental data science tools
- Understand the fundamentals of building a dashboard

#### **Outline**

- The problem
- What is a dashboard?
- Introducing bokeh

# The problem

Our client needs to be able to explore different trends across MANY variables in your results:

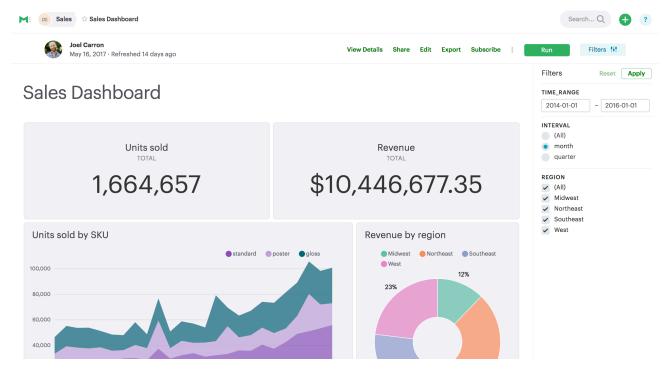
- How is the electorate responding to a campaign message in each US state?
- What is the level of conflict in each country in the world?

Our client wants an up-to-date view of the latest analysis at all times

- How are supply levels in clinics across Montreal?
- Which zipcodes are reporting flooding?
- Which sales units have gotten unfavorable customer feedback?

## What is a dashboard?

A GUI panel that allows the user to view a set of visualizations and, in real-time, configure a small set of options for those visualizations.



We write python approach, tooken creates a whole newsite to it

Doller Serve Cereal-app

# Introducing bokeh

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## Lesson wrap-up

#### **Takeaways**

- Dashboards can be a necessary part of completing a data science project
- Bokeh is a powerful, open-source dashboarding solution

#### **Up next**

Advanced bokeh