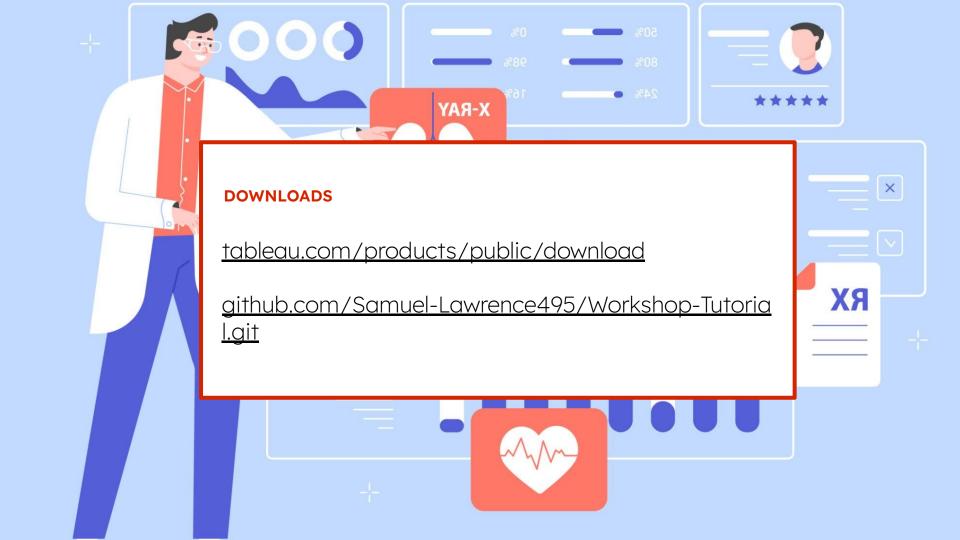
Tableau

Building Your First
Interactive Dashboard





Contents

What is Tableau

INTRODUCTION

Visualizing Data

LAB 1 EXERCISE 1

Dashboard Creation

LAB 2 EXERCISE 2

Dashboard Refinement

LAB 3 EXERCISE 3

Introduction to Tableau

- What is Tableau?
- Why use Tableau for data visualization?
- Key features and capabilities

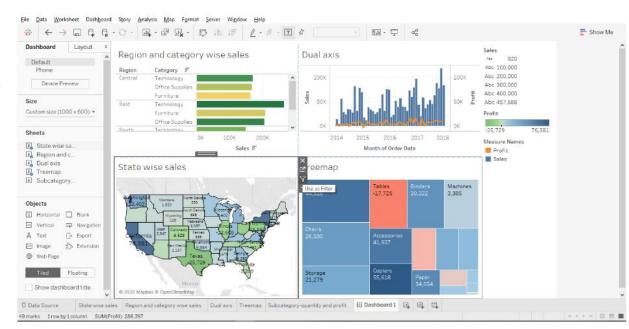
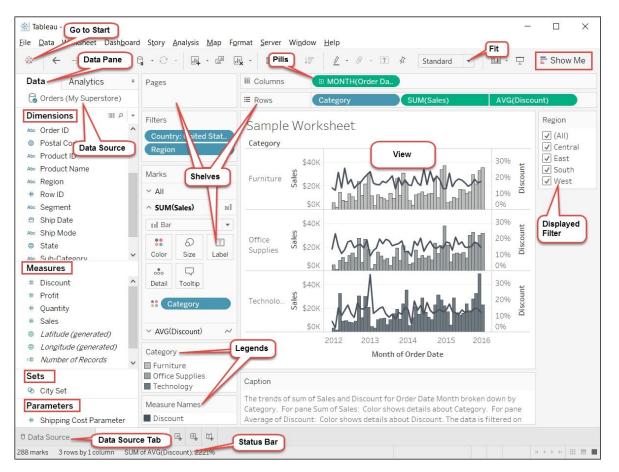


Tableau Interface





Lab

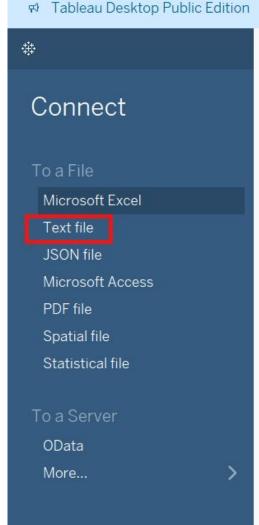
Dataset

Features:

- Bookings
- Guests
- Financials

Goal:

- Analyze revenue
- Analyze cancellations



Open



Book1

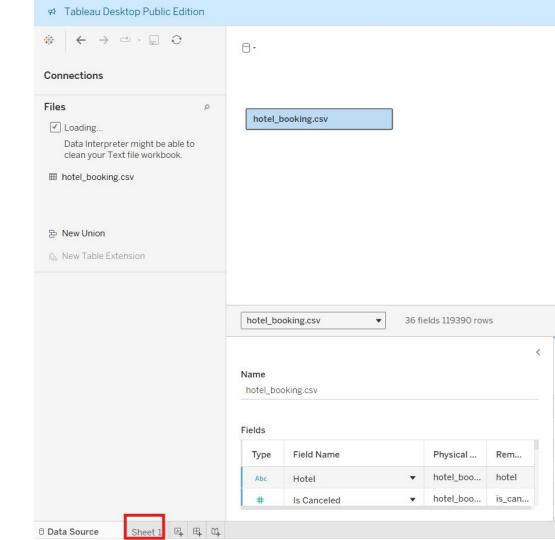
Create a Visualization

Features:

- Bookings
- Guests
- Financials

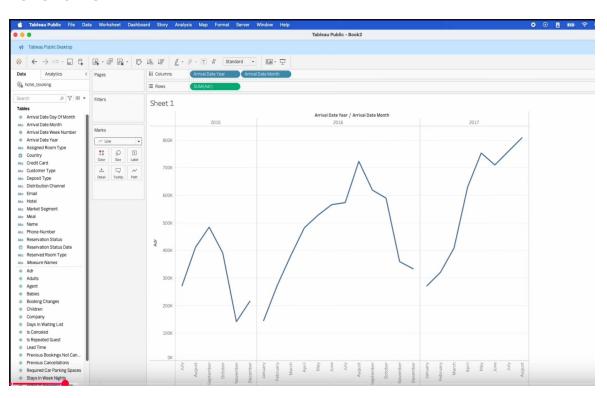
Goal:

- Analyze revenue
- Analyze cancellations



Lab 1 - Connecting our Data & Creating First Chart

Goal: Connect to our data and create a basic line chart showing revenue over time.

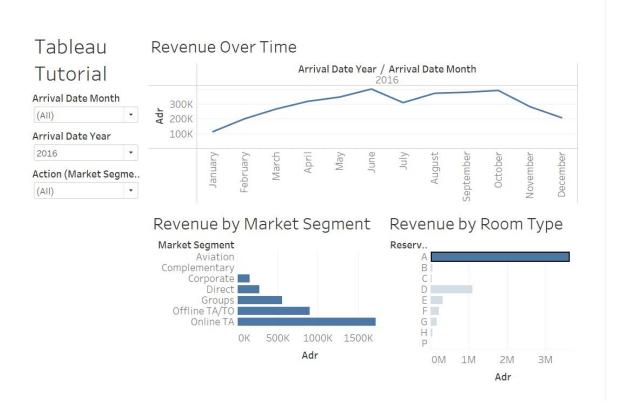


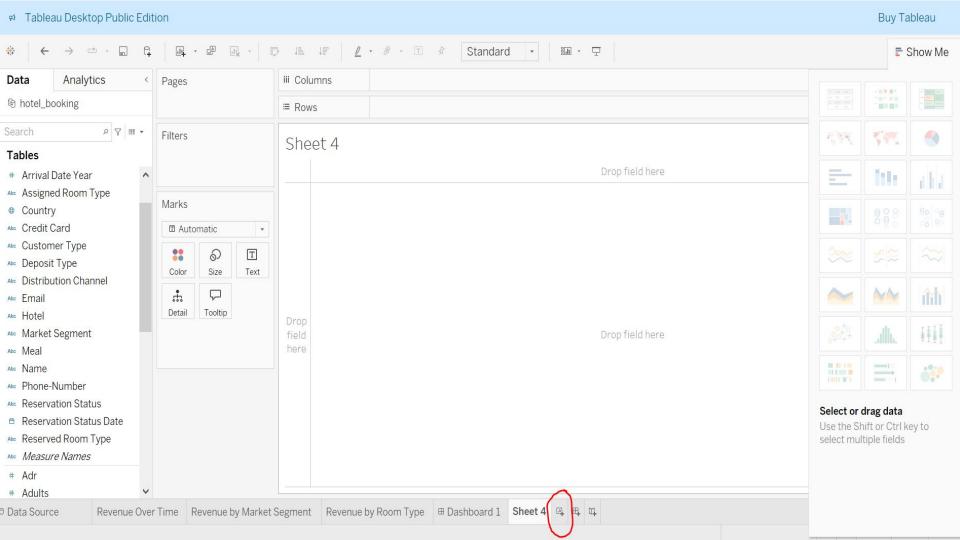
- I. Drag Adr (Measure) to Rows (becomes SUM(Adr)).
- Drag Arrival Date Year (Dimension) to Columns.
- 3. Drag Arrival Date Month (Dimension) to Columns (after Year).
- 4. Set Marks type to "Line".
- 5. Double-click "Sheet 1" tab.
- Rename to Revenue Trend. Press Enter.

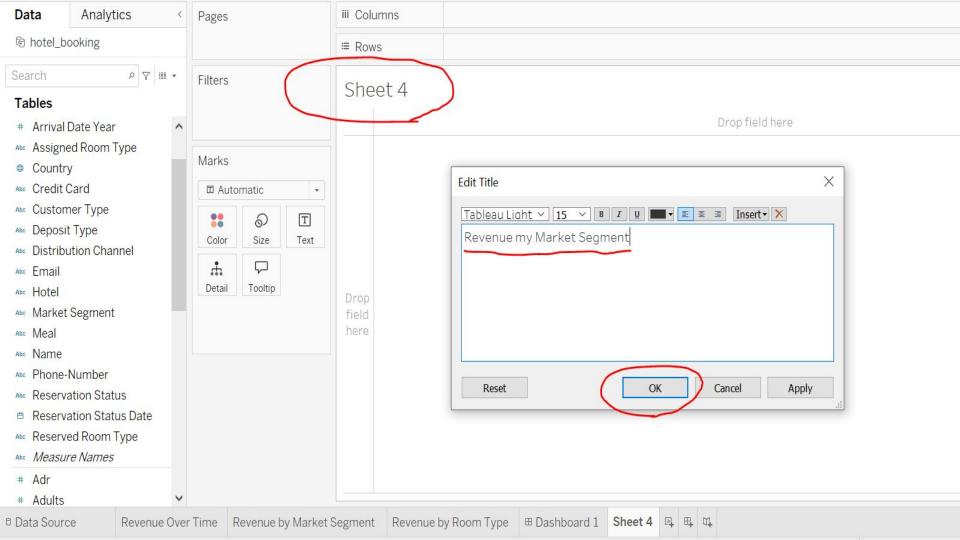


Lab

Creating a Dashboard

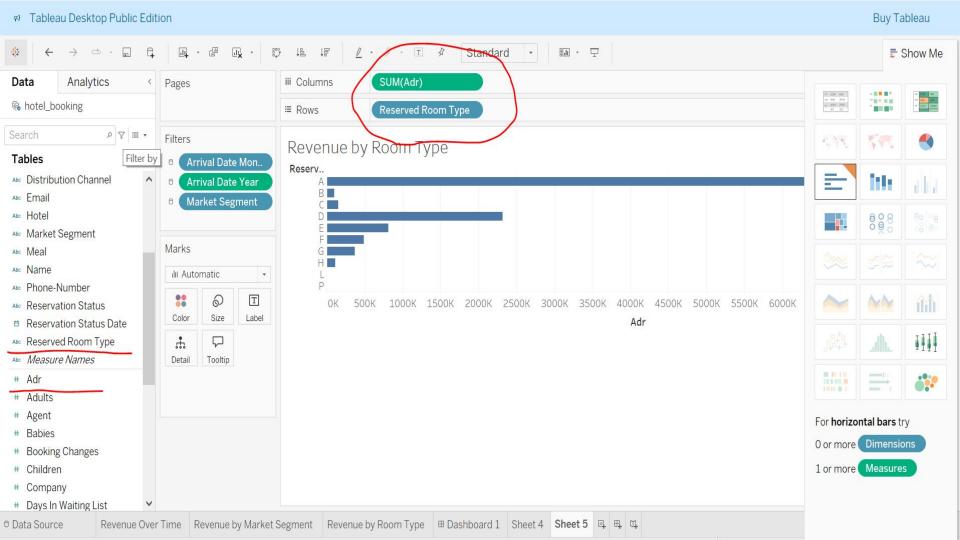




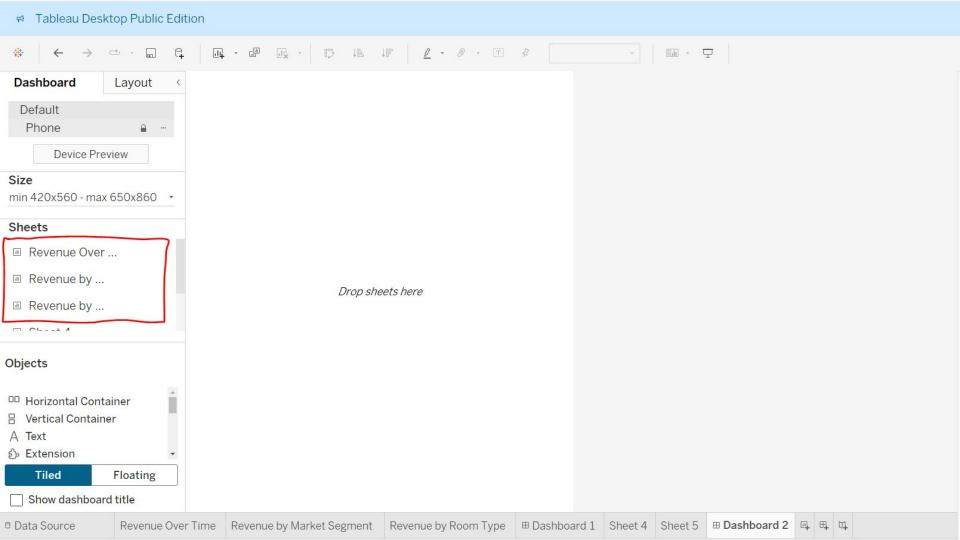


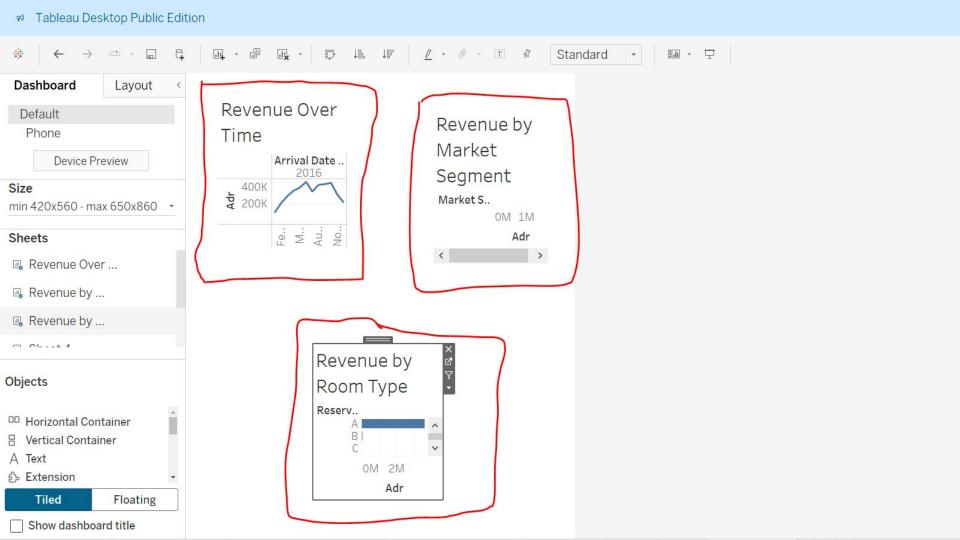
□ Tableau Desktop Public Edition Ø - Ø - [T] ₽ 华 44 ılıx -83 **↓**} 帥 Standard : · · SUM(Adr) Data Analytics iii Columns Pages & hotel_booking Market Segment ≡ Rows p 7 III ▼ Search Filters Revenue my Market Segment **Tables** Arrival Date Mon.. Market Segment Abc Distribution Channel Arrival Date Year Aviation Complementary Abo Email Market Segment Corporate Abo Hotel Direct Groups Abc Market Segment Offline TA/TO Marks Abc Meal Online TA Undefined Abo Name III Automatic * OK 500K 1000K 1500K 3500K 4000K 4500K 5000K Phone-Number 00 Adr 0 T Reservation Status Size Color Label Reservation Status Date Reserved Room Type . \Box Abc Measure Names Tooltip Detail Adr # Adults Agent Babies **Booking Changes** Children Company # Days In Waiting List Revenue by Market Segment Revenue by Room Type Sheet 4 4 4 Data Source Revenue Over Time ■ Dashboard 1

11. .l.x -83 悍 †B Standard **→** □ • □ Analytics iii Columns SUM(Adr) Data Pages & hotel_booking ≡ Rows Market Segment P | | + Search Filters Revenue my Market Segment **Tables** Arrival Date Mon.. Market Segment Abc Distribution Channel Arrival Date Year Aviation Complementary Abc Email Market Segment Corporate Abc Hotel Direct Groups Abc Market Segment Offline TA/TO Marks Abc Meal Online TA Undefined Abo Name III Automatic * OK 500K 1000K 1500K 2000K 3000K 4000K 4500K 5000K 3500K Abc Phone-Number ... T Adr 0 Abo Reservation Status Size Label Color Reservation Status Date . Abo Reserved Room Type \Box Abc Measure Names Tooltip Detail # Adr # Adults # Agent # Babies # Booking Changes Children # Company # Days In Waiting List ■ Dashboard 1 Data Source Revenue Over Time Revenue by Market Segment Revenue by Room Type Sheet 4 U.



800 指 **†**₽ Standard : · · Data Analytics iii Columns SUM(Adr) Pages & hotel_booking Reserved Room Type **≡** Rows ρ ∀ III ▼ Search Filters Revenue by Room Type **Tables** Arrival Date Mon.. Reserv.. Abc Distribution Channel Arrival Date Year B Abc Email Market Segment Abc Hotel Abo Market Segment Marks Abc Meal Abc Name ılıı Automatic Abo Phone-Number 6 T OK 500K 2500K 3500K 4000K 6000K Abc Reservation Status Size Color Label Adr Reservation Status Date Abc Reserved Room Type ... \Box Abc Measure Names Detail Tooltip Adr Adults # Agent Babies # Booking Changes # Children # Company # Days In Waiting List Data Source Revenue Over Time Revenue by Market Segment Revenue by Room Type ■ Dashboard 1 Sheet 4 Sheet 5



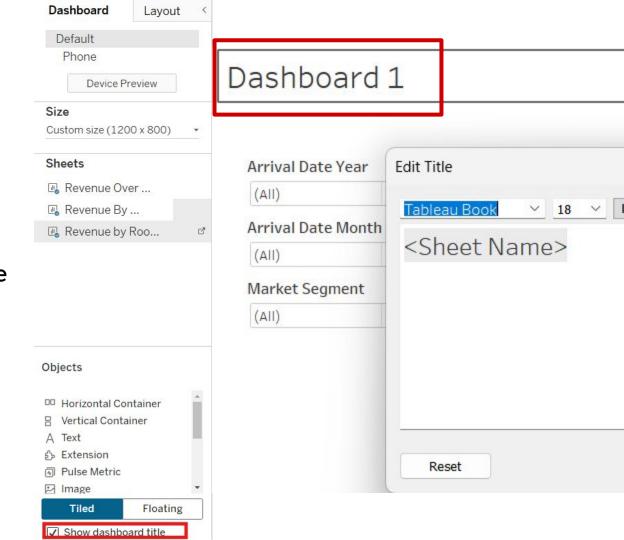




Lab

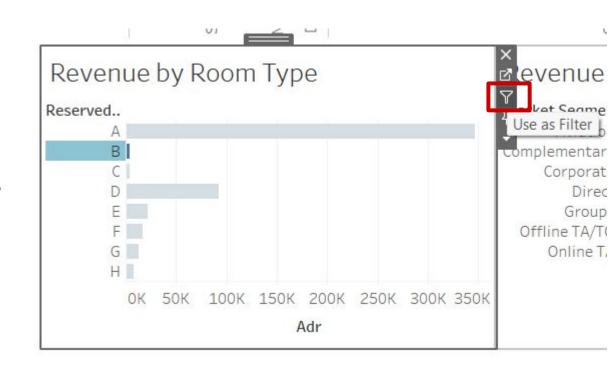
Adding a Title

- Navigate to the bottom of the Dashboard tab
- Check show dashboard title
- Change the title name



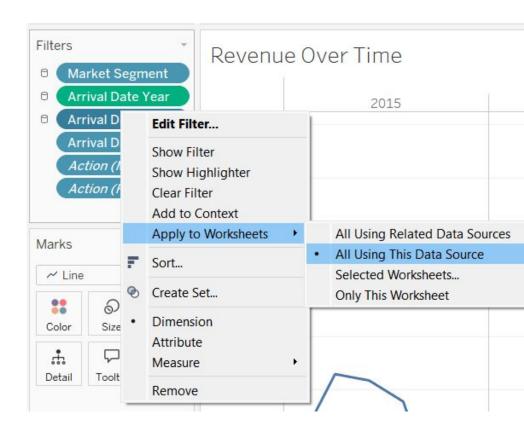
Add Filter Actions

- Select each sheet
 (Revenue Trend,
 Revenue by Market
 Segment, Revenue by
 Room Type)
- Click Funnel icon ("Use as Filter")
- Test interactivity.



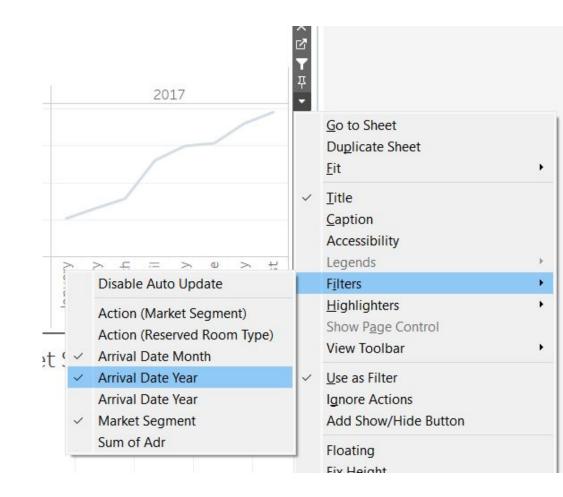
Add & Configure Filters

- Add filters: Arrival Date Year, Month, Market Segment
- Configure filters:
 Apply to All
 Worksheets, display as
 Multiple Values
 (dropdown)
- Optional: "Show Apply Button" via Customize.



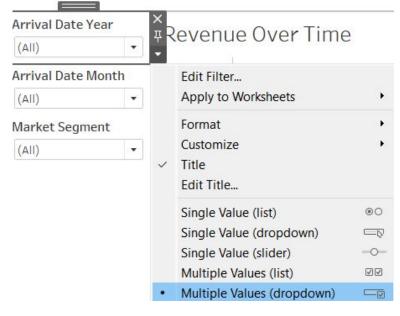
Add & Configure Filters

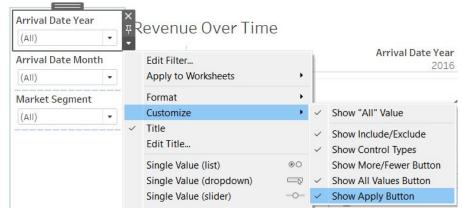
- Add filters: Arrival Date Year, Month, Market Segment
- Configure filters:
 Apply to All
 Worksheets, display as
 Multiple Values
 (dropdown)
- Optional: "Show Apply Button" via Customize.



Add & Configure Filters

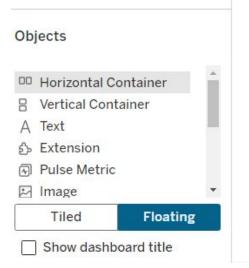
- Add filters: Arrival Date Year, Month, Market Segment
- Configure filters:
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 Multiple Values
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- Optional: "Show Apply Button" via Customize.

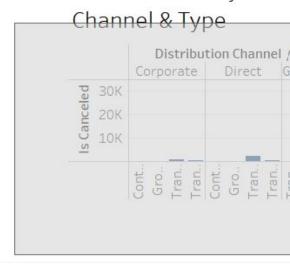


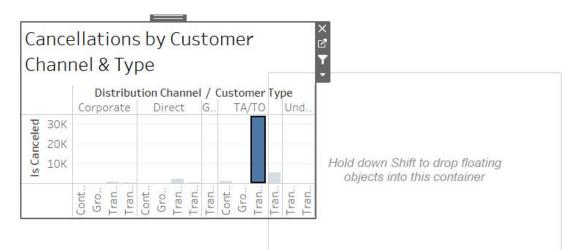


Organize with Containers

- Switch to "Layout" tab
- Drag Vertical container onto canvas
- Move Dashboard Title into top of Vertical container.

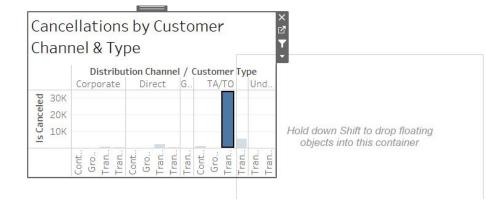




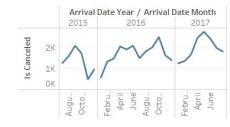


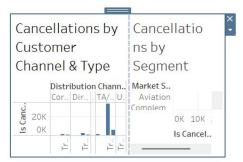
Nest Containers

- Drag Horizontal container into main Vertical container
- Move filters and charts into containers:
- Filters into left Vertical container
- Revenue Trend into top right Vertical container
- Revenue by Market Segment & Revenue by Room Type into Horizontal container (bottom right)
- Adjust borders/layout



Cancellations Over Time









Exercise



Cancellations

- Create new worksheet.
- Build a Line Chart: Count cancellations over time.
- Hint: SUM(Is Canceled) on Rows, Arrival Date Year & Month on Columns.
- Rename to Cancellations
 Over Time.



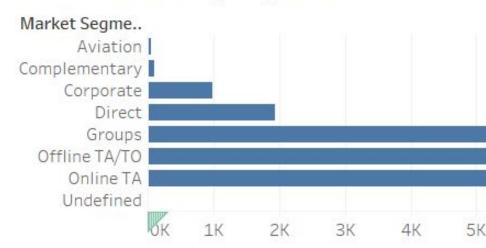
Exercise



Part 1: Second Visualization

- Create new worksheet.
- Build Bar Chart: Count cancellations by Market Segment.
- Hint: SUM(Is Canceled) on Columns, Market Segment on Rows (Optional sort).
- Rename to Cancellations by Segment

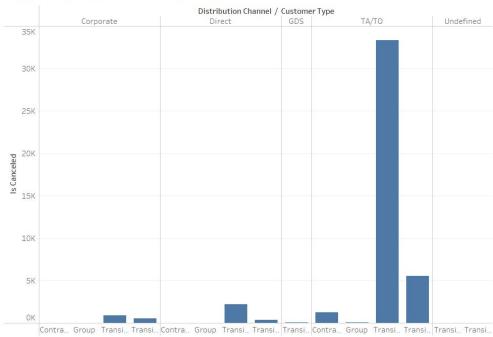




Part 1: Third Visualization

- Create new worksheet.
- Build Bar Chart: Count cancellations by Market Segment.
- Hint: SUM(Is Canceled) on Rows, Distribution Channel & Customer Type on Columns.
- Rename to Cancellations by Customer Channel & Type

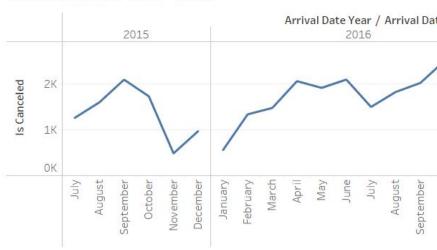
Cancellations by Customer Channel & Type



Part 3: Dashboard

- Create new dashboard, name tab: Cancellation Analysis.
- Add sheets: Cancellations
 Over Time & Cancellations by
 Segment.
- Arrange using Tiled layout (side-by-side or top/bottom).
- Add Market Segment dashboard filter: Apply to All Worksheets using datasource.

Cancellations Over Time



Cancellations by Customer Channel & Type



Cancella

Market Segma Aviation Complementa Corpora Dire

Offline TA/

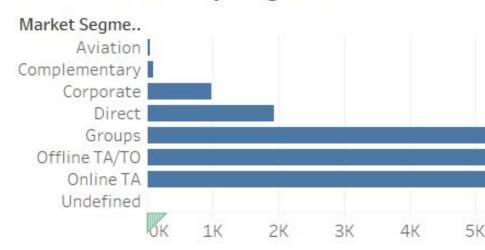
Exercise



Finish Cancellation Dashboard

- Enable "Use as Filter" for cancellation charts.
- Add Arrival Date Year and Month filters (dropdowns, apply to all worksheets).
- Add main title (e.g., "Hotel Cancellation Insights").
- Bonus: Organize using Vertical & Horizontal containers.

Cancellations by Segment



Glossary

Dashboard – A collection of visualizations shown on a single screen.

Worksheet – A single view or chart in Tableau.

Data Source – The file or database Tableau connects to for data.

Dimension – Categorical fields like country, product, or date.

Measure – Numeric values that can be aggregated (e.g., sales, profit).

Filter – A tool to narrow down the data shown.

Mark – The visual representation of data (e.g., bars, dots, lines).

Tooltip – Info that appears when you hover over a data point.

Tips and Tricks

Data Types: Double-check data types in the Data Source pane or Data pane (click icon). Tableau sometimes misinterprets numbers as strings or vice versa.

Discrete vs. Continuous Dates: Blue date pills treat parts (Year, Month) as categories. Green date pills treat dates as a continuous timeline. Choose based on the analysis needed.

Floating Shortcut: Hold Shift while dragging a sheet onto the dashboard to make it floating instead of tiled.

Filter "Apply" Button: Use Customize -> Show Apply Button on filters (especially multi-select) with large datasets or complex dashboards to avoid slow updates after each individual selection.

Layout Pane Hierarchy: Use the "Layout" tab on the dashboard pane to understand how items are nested in containers and to easily select/move specific containers or items.

Editing Titles: Double-click titles directly on the dashboard/worksheet, or right-click -> Edit Title. Remove <Sheet Name> if you want a completely custom title.

"Use as Filter" Icon: Quickest way to add basic filter actions, but the Dashboard -> Actions menu offers more configuration options.



Thank You!