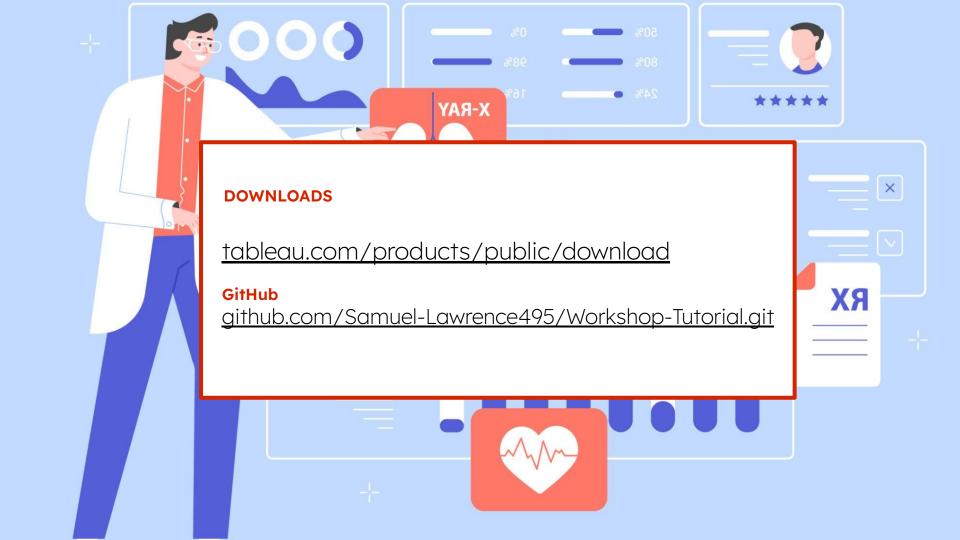
Lab 1: connecting and visualizing data Lab 2: bar charts and initial dashboard Lab 3: dashboard refinement Exercise 1: create a visualization about cancellations on your own Exercise 2: 2nd viz & dashboard for cancellations Exercise 3: complete cancellations dashboard

### DIRECTIONS ON SLIDES OUTLINE DOC

# Tableau

Building Your First
Interactive Dashboard





## Contents

### What is Tableau

INTRODUCTION

### **Visualizing Data**

LAB 1 EXERCISE 1

#### **Dashboard Creation**

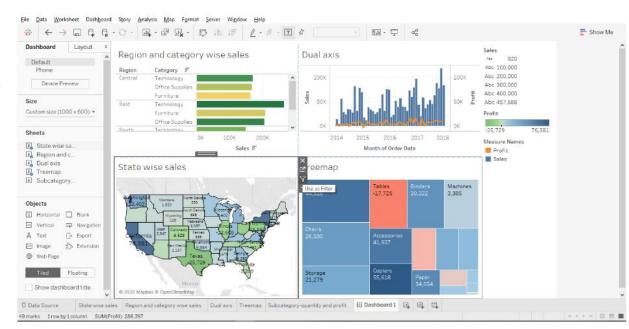
LAB 2 EXERCISE 2

### **Dashboard Refinement**

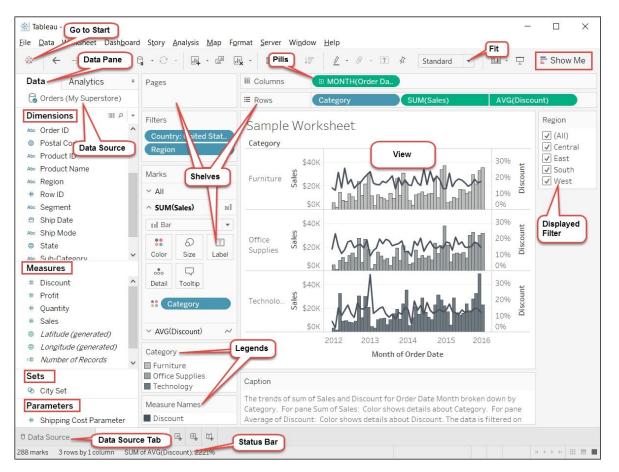
LAB 3 EXERCISE 3

### Introduction to Tableau

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



## Tableau Interface





# Lab

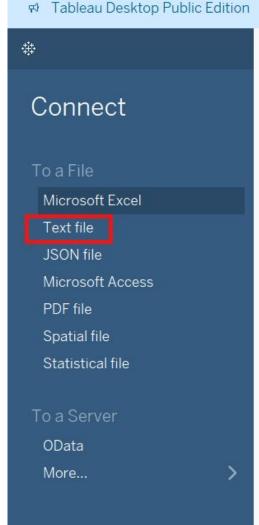
### **Dataset**

#### **Features:**

- Bookings
- Guests
- Financials

#### Goal:

- Analyze revenue
- Analyze cancellations



#### Open



Book1

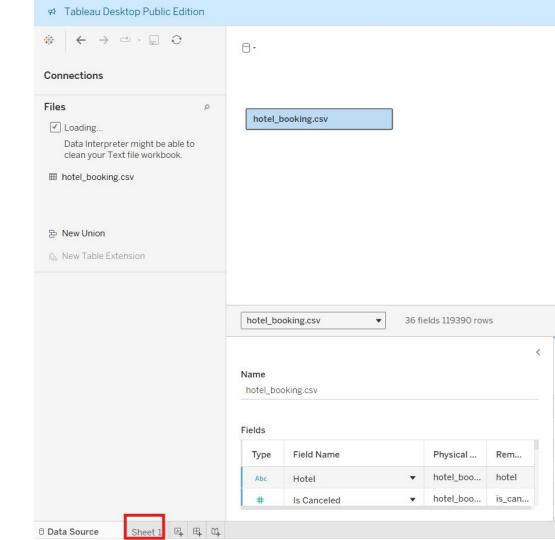
# **Create a Visualization**

#### **Features:**

- Bookings
- Guests
- Financials

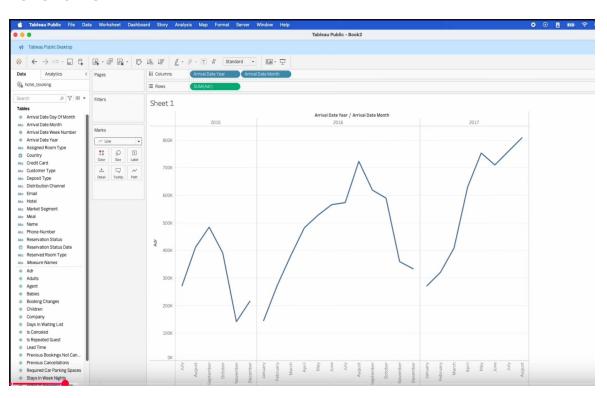
#### Goal:

- 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.

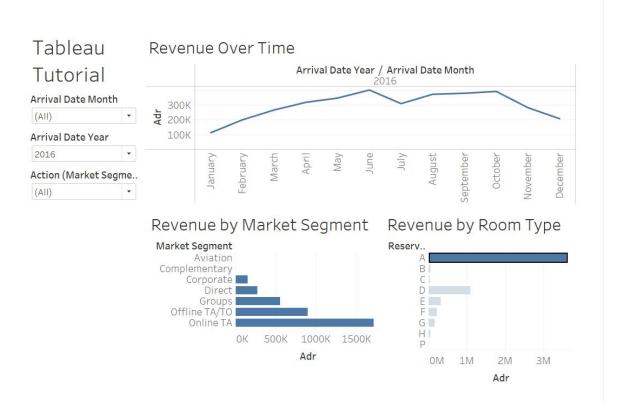


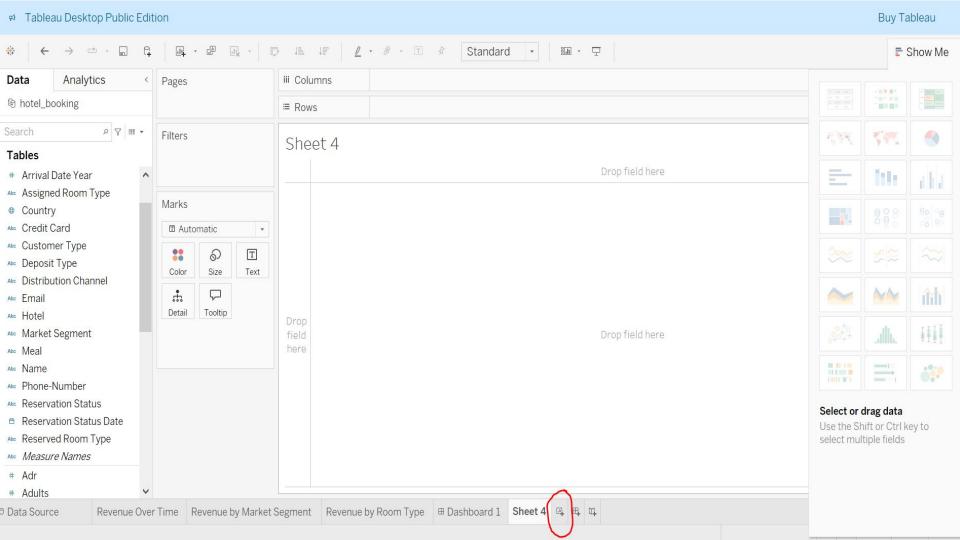
- I. Drag Adr (Measure) to Rows (becomes SUM(Adr)).
- Drag Arrival Date Year (Dimension) to Columns.
- 3. Drag Arrival Date Month (Dimension) to Columns (after Year).
- 4. Set Marks type to "Line".
- 5. Double-click "Sheet 1" tab.
- Rename to Revenue Trend. Press Enter.

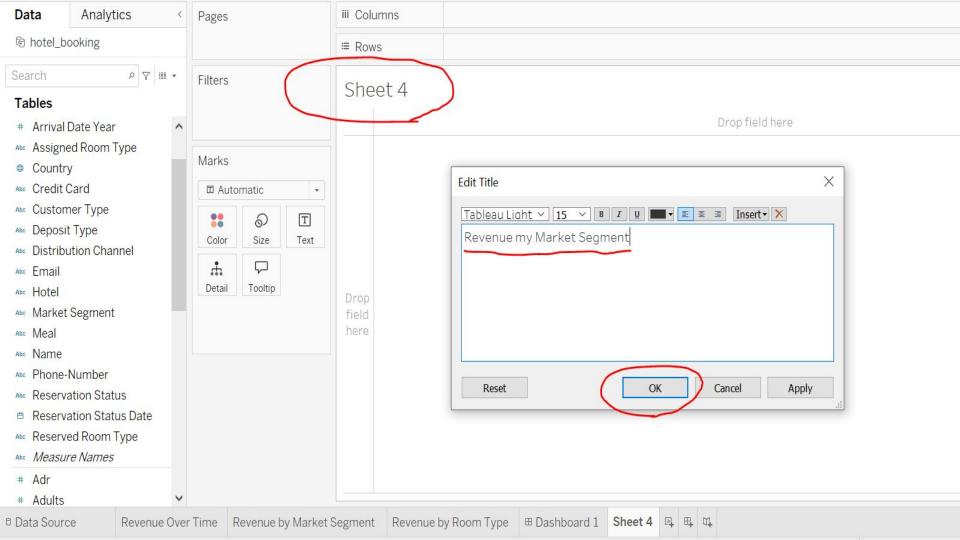


# Lab

## Creating a Dashboard

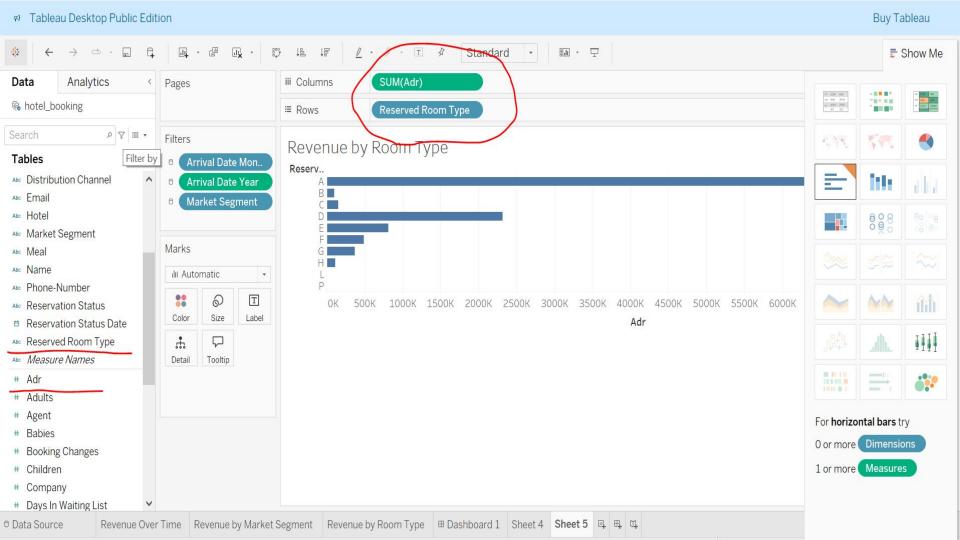




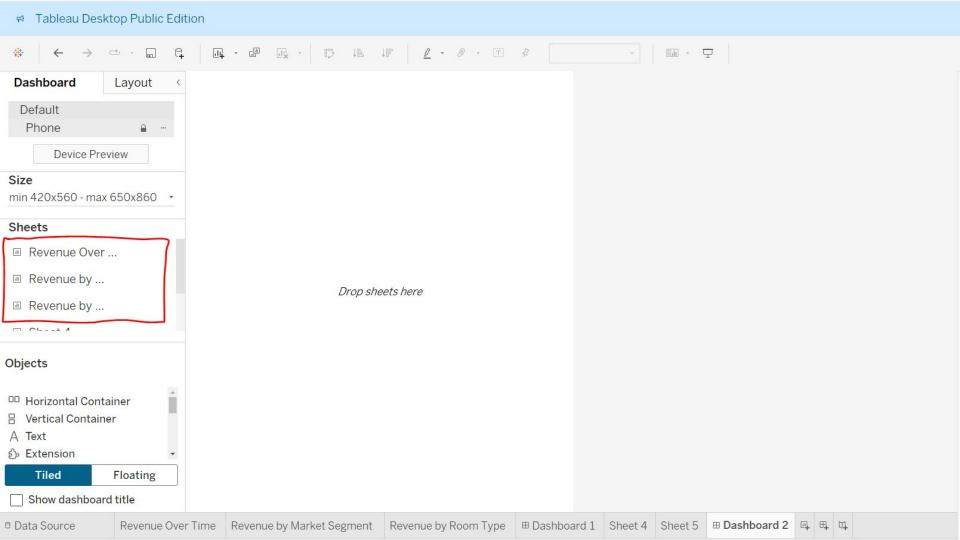


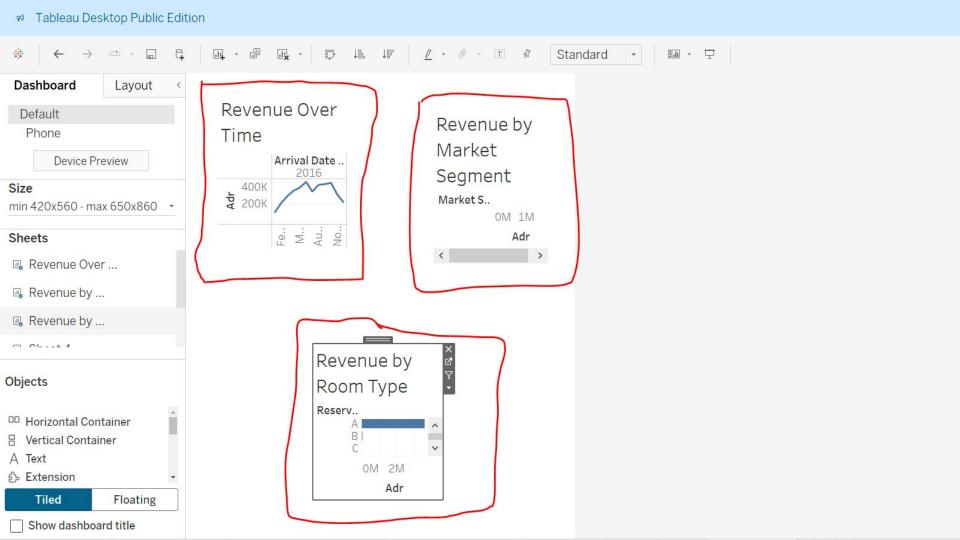
#### □ Tableau Desktop Public Edition Ø - Ø - [T] ₽ 华 44 ılıx -83 **↓**} 帥 Standard : · · SUM(Adr) Data Analytics iii Columns Pages & hotel\_booking Market Segment ≡ Rows p 7 III ▼ Search Filters Revenue my Market Segment **Tables** Arrival Date Mon.. Market Segment Abc Distribution Channel Arrival Date 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.



#### □ Tableau Desktop Public Edition 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



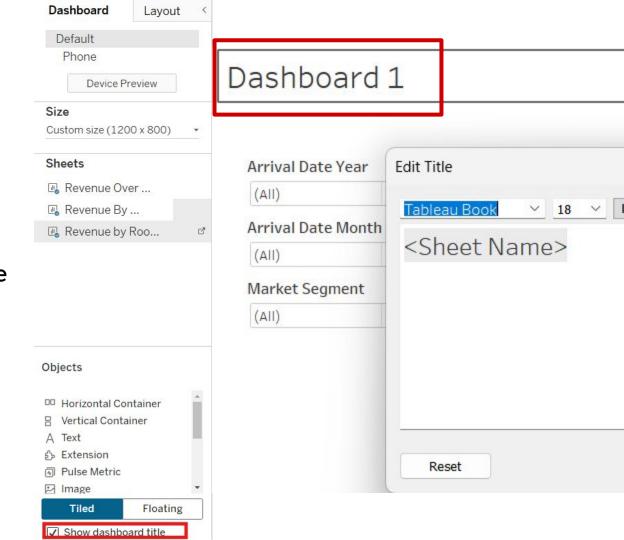




# Lab

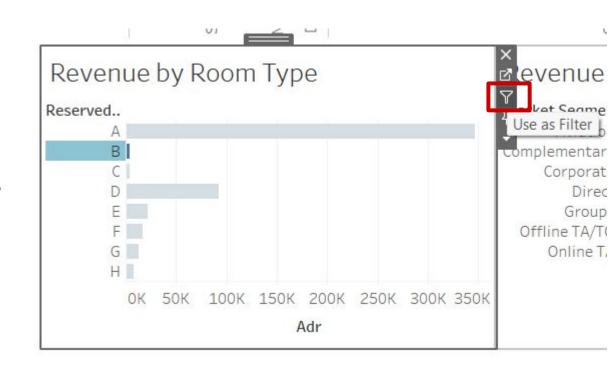
### Adding a Title

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



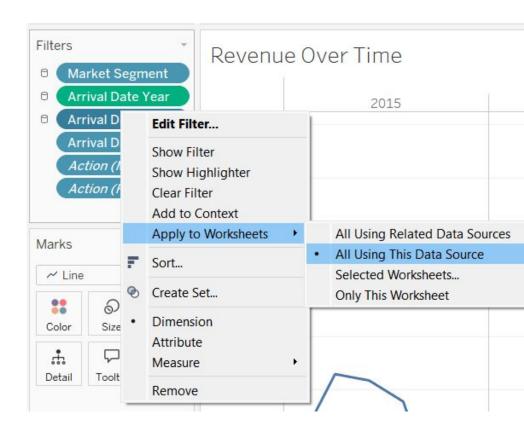
### **Add Filter Actions**

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



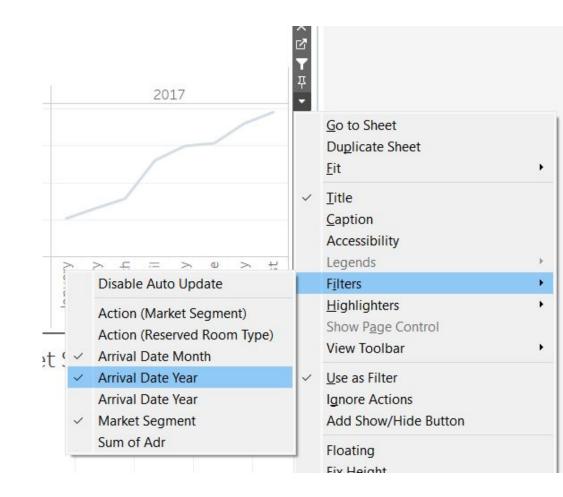
## Add & Configure Filters

- 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.



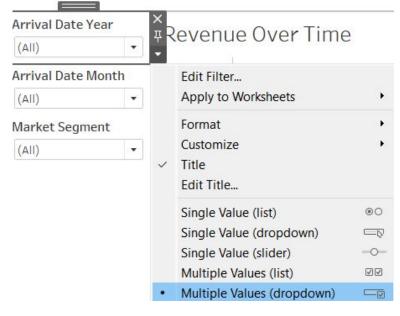
# Add & Configure Filters

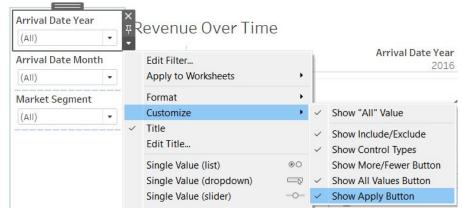
- Add filters: Arrival Date Year, Month, Market Segment
- Configure filters:
   Apply to All
   Worksheets, display as
   Multiple Values
   (dropdown)
- Optional: "Show Apply Button" via Customize.



# Add & Configure Filters

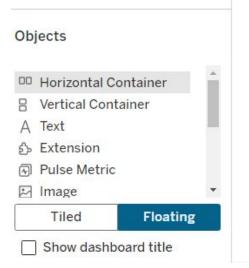
- Add filters: Arrival Date Year, Month, Market Segment
- Configure filters:
   Apply to All
   Worksheets, display as
   Multiple Values
   (dropdown)
- Optional: "Show Apply Button" via Customize.

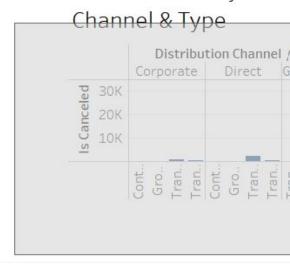


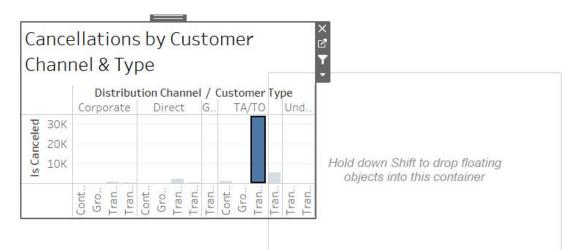


# Organize with Containers

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

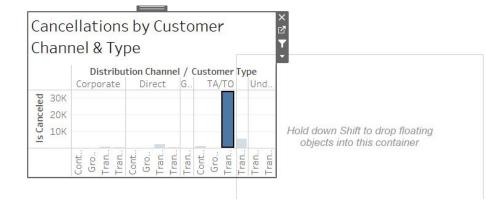




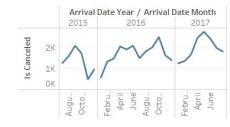


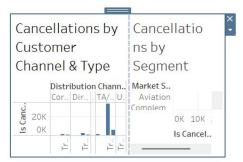
### **Nest Containers**

- 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.



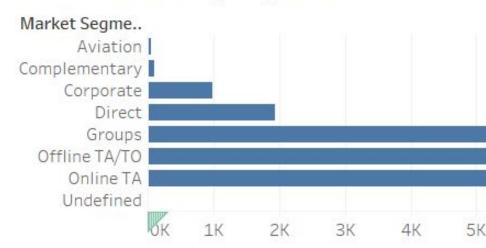
# Exercise



# 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

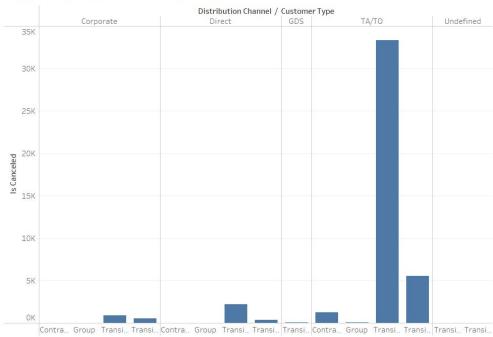




## Part 1: Third Visualization

- 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

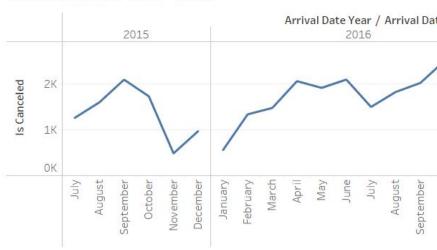
#### Cancellations by Customer Channel & Type



### 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

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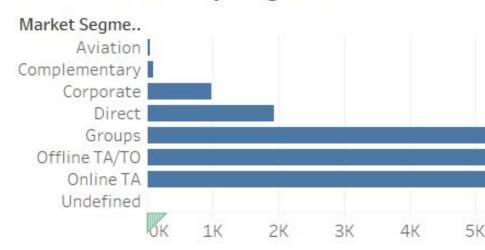
# Exercise



# 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.



# Thank You!