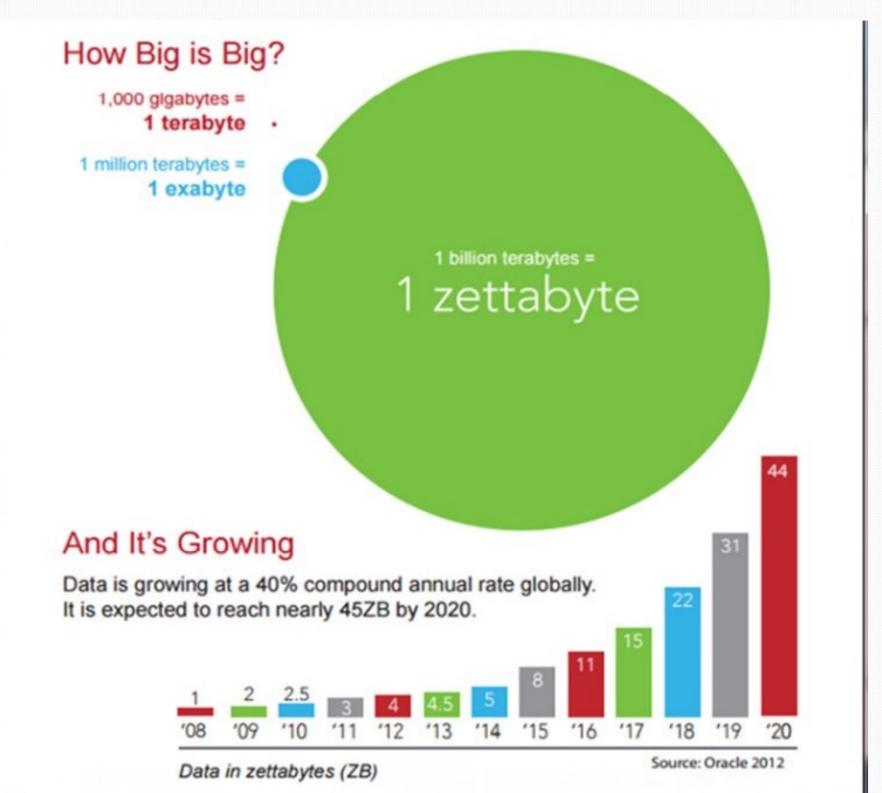


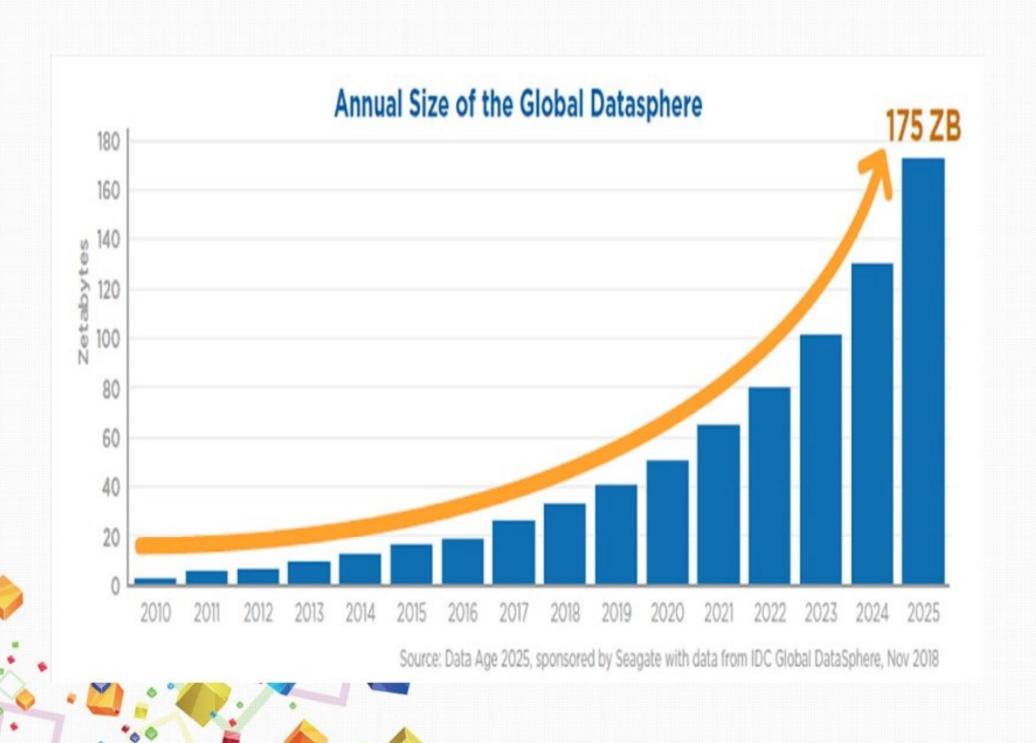
### INTRODUCTION TO TABLEAU

- In 2025 the world's data is expected to reach 175 ZB.
- Within these data are huge, unparalleled opportunities for human advancement. But to turn opportunities into reality, people need the power of data at their fingertips.
- Tableau is helping People Do Exactly This.

#### Tableau Helps People See and Understand Data



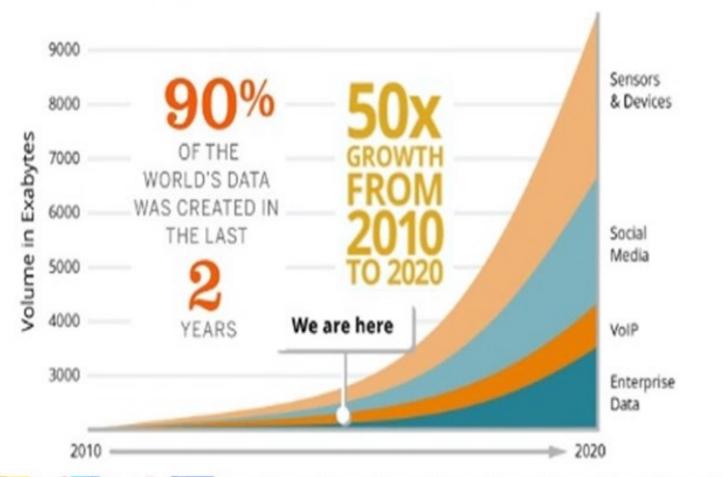




## WHERE IS DATA COMING FROM?



1 exabyte (EB) = 1,000,000,000,000,000,000 bytes



### What is TABLEAU

- Tableau is a business intelligence software that allows anyone to easily connect to data, then visualize and create interactive, sharable dashboards.
- It's easy enough that even a non technical user can learn it, but powerful enough to satisfy even the most complex analytical problems.
- Securely sharing your findings with others only takes seconds.
- Tableau is BI software that you can trust to actually deliver answers
  to the people that need them.

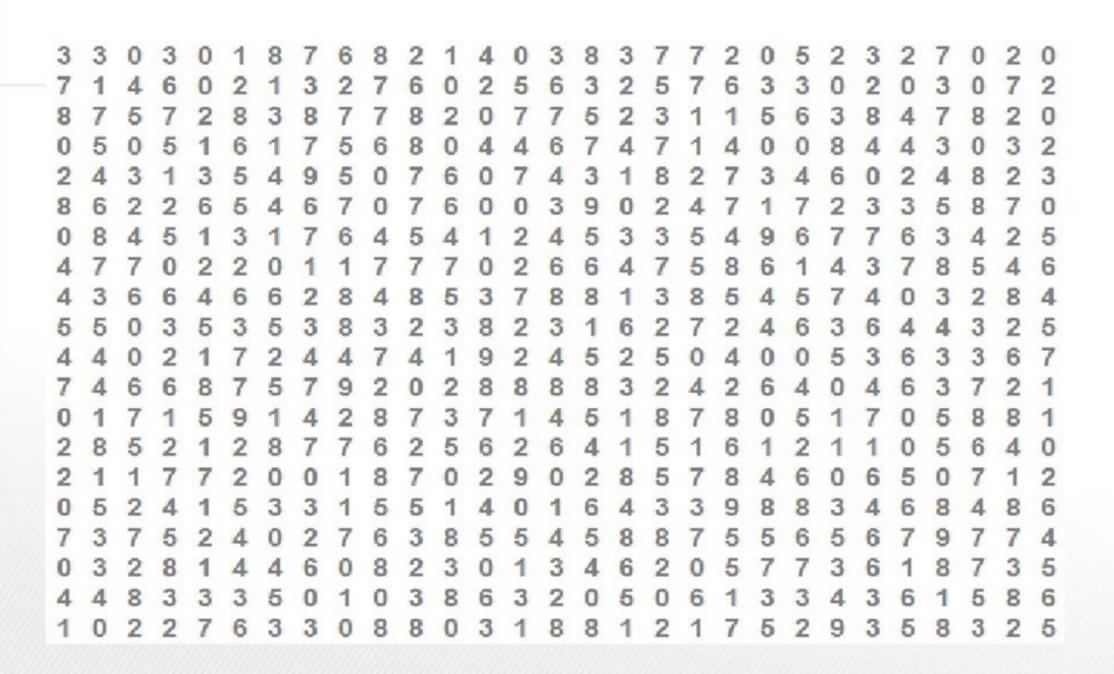
# What is Visual Analytics And Why?

"Visual analytics is the representation and presentation of data that exploits our visual perception abilities in order to amplify cognition."

- Andy Kirk, author of "Data Visualization: a successful design process"



#### Please Count The Total 9 in the below data set!



### **Please Count Now!**

#### Human Perception & Cognition

Humans Are Slow at Mental Math

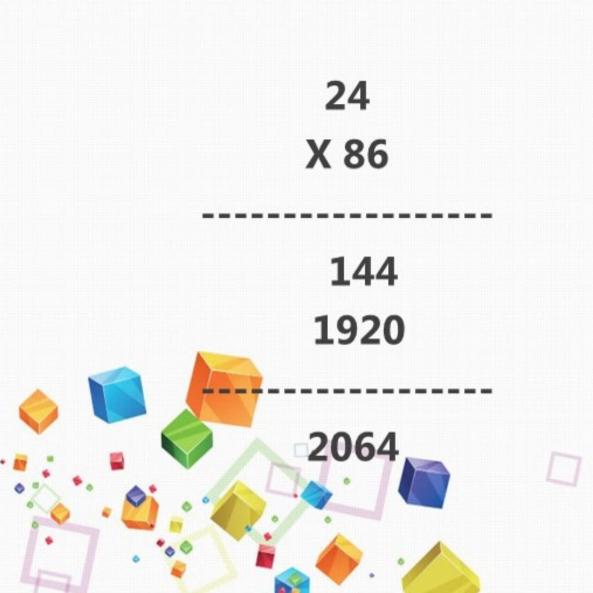
24

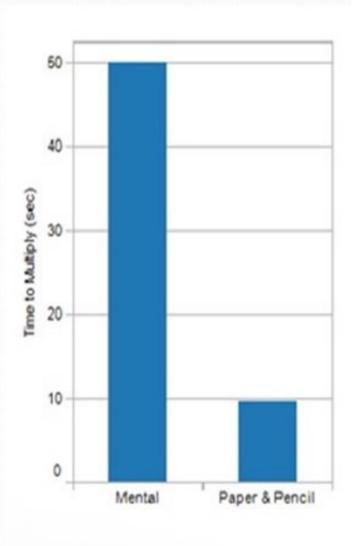
X 86



# **Using Pen & Paper**

We're Faster When We Use the Pen



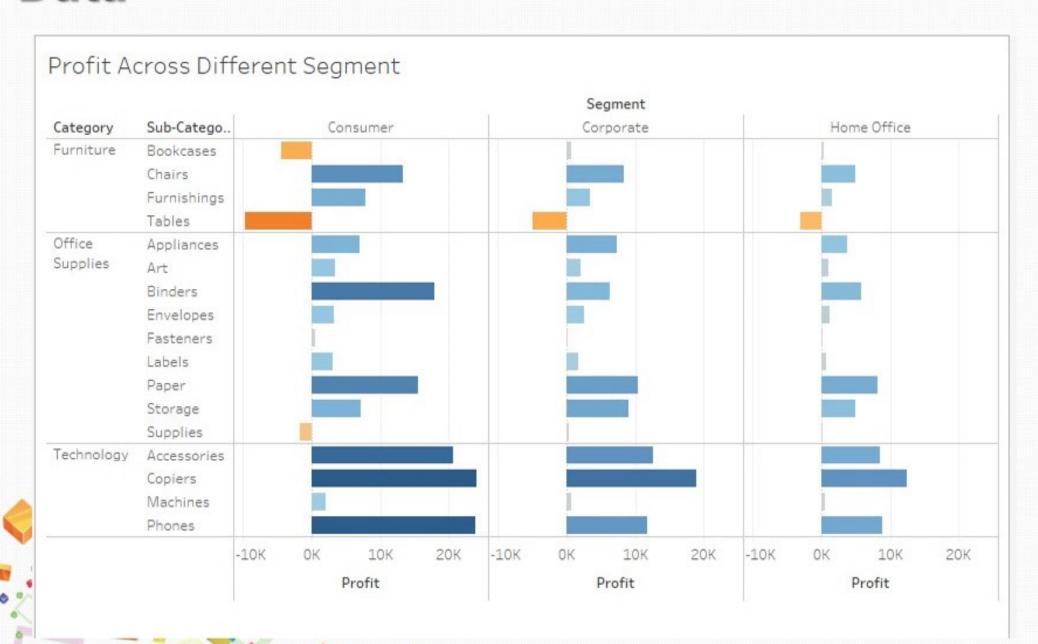


# We're Much Faster When We Can "See" Data

#### Profit

Category			Segment	
	Sub-Catego	Consum	Corpora	Home Office
Furniture	Bookcases	-4,436	638	325
	Chairs	13,235	8,345	5,010
	Furnishings	7,919	3,508	1,632
	Tables	-9,728	-4,906	-3,091
Office Supplies	Appliances	6,982	7,430	3,726
	Art	3,454	2,005	1,069
	Binders	17,996	6,377	5,849
	Envelopes	3,264	2,571	1,129
	Fasteners	577	252	121
	Labels	3,076	1,761	709
	Paper	15,535	10,362	8,157
	Storage	7,104	9,131	5,044
	Supplies	-1,658	339	130
Technology	Accessories	20,736	12,707	8,493
	Copiers	24,084	18,990	12,544
	Machines	2,141	703	541
	Phones	23,837	11,766	8,912

# We're Much Faster When We Can "See" Data



## **The Cycle of Visual Analysis**

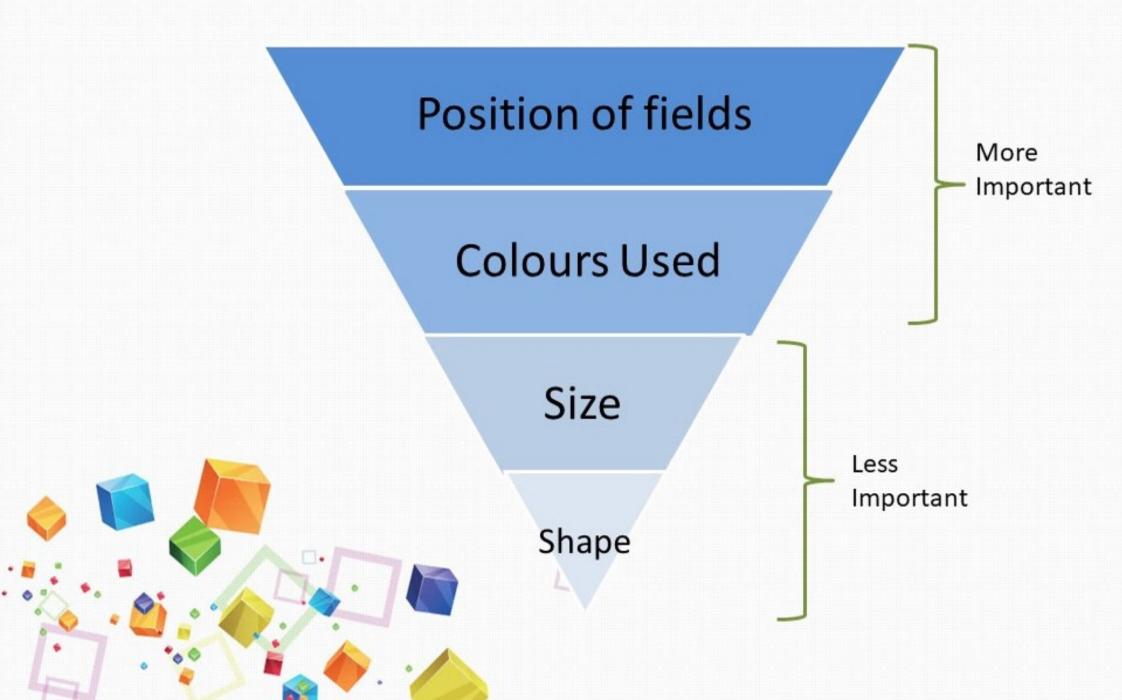


#### **Visualization Best Practices**

- Representing data for humans
- Color
- Maps
- Creating dashboards



### **How do Human like their Data**



# How to arrange your Data

Time:

on X Axis

Location:

on Map

Comparison:

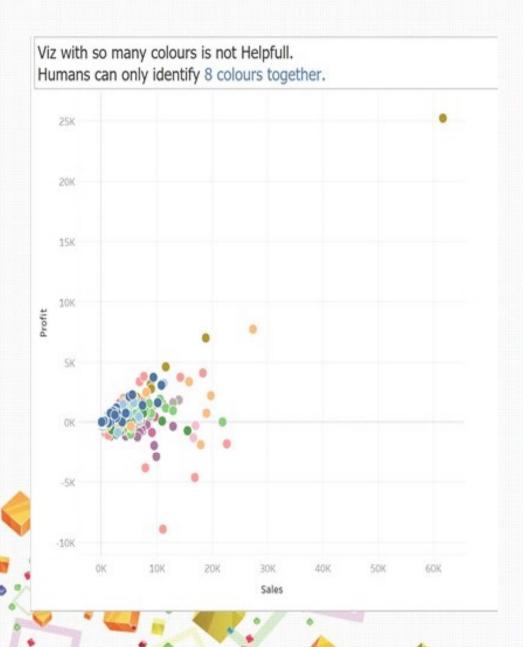
Bars

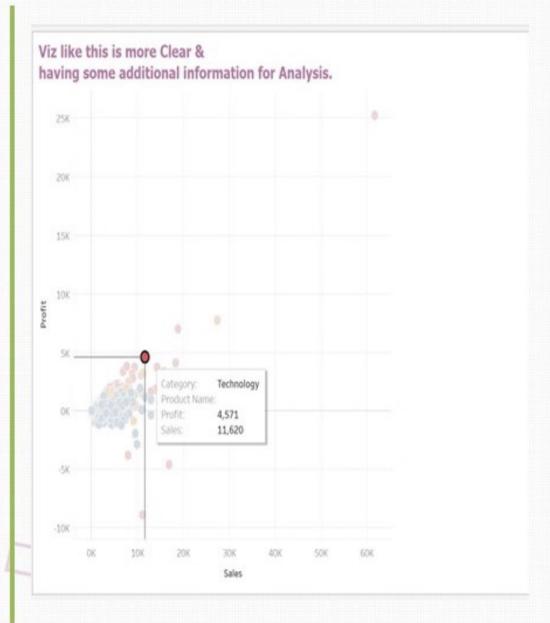
**Exploring Relation:** 

Scatterplot



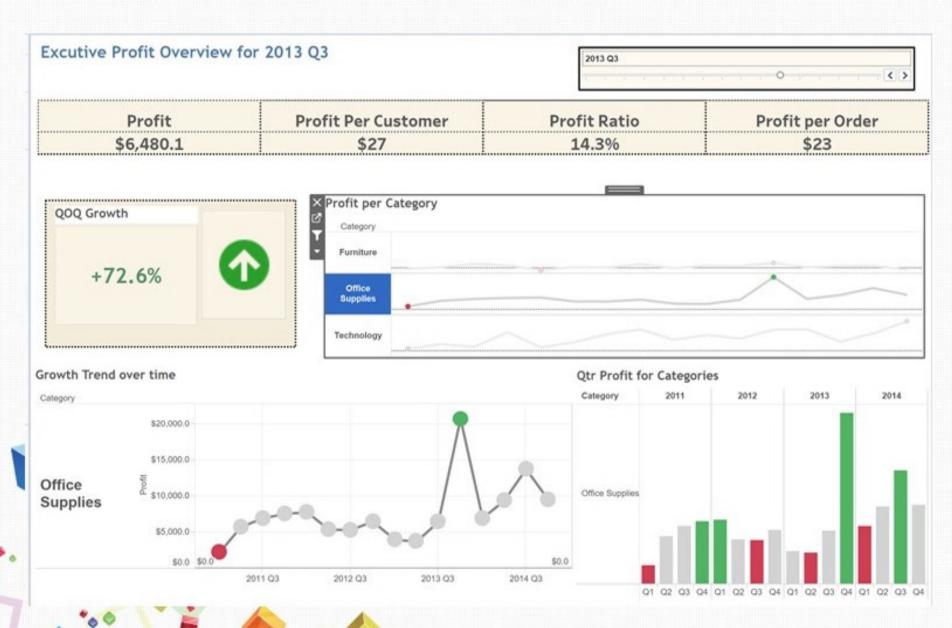
## **How to Use Colours in Visualizations**





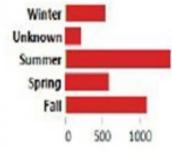
### **Dashboards**

These bring Multiple visualizations together and gives the end user an end to end analysis.



# Dashboards with a lot of information is not good. It becomes confusing for the end user. The below pic dashboard having a lot of info is very confusing.





Data gathered from the official website of the "Bigfoot Field Researchers Organization" (BFRO).

The data was attempted to be scrubbed and deaned to attain some type of normalcy, unfortunately the BFRO data submission process has no validation and fields are often used arbitrarily by submitters.

BFRO does the "Finding Bigfoot" Animal Planet TV show.

Click on ANY element of the visualization (location, season, year, detail field) in order to filter by that item. Select the element AGAIN to go back to the full view.



the SPAA disputate debalance represente a service process and an electrical are for an artist for autological contraction.

# Quick check list for the dashboard

- Most Important view goes on top / top left of the Dashboard.
- All the Legends used should be with the viz that they are being used in.
- Use 7 views or fewer in a single Dashboard. Have a Landing page in the Dashboard and drill down one by one.
- Have proper interactivity and filters in the Dashboard for better analysis and knowledge.
- Take care of the performance of the workbook from the very start.



