

## ASSIGNMENT 1:

# DATA VISUALIZATION USING TABLEAU

10 November 2023



### Group Members

Hilal Ilcin - M00912970

Thu Thao (Alex) Le - M00939507

Thi Hong Nhung (Katty) Nguyen - M00964642

Jennifer Angelina D. - M00957714

Muhammad Younas - M00789966



# CONTENTS

1

**FIND A PATTERN FOR ONE OF THE MEASUREMENTS**

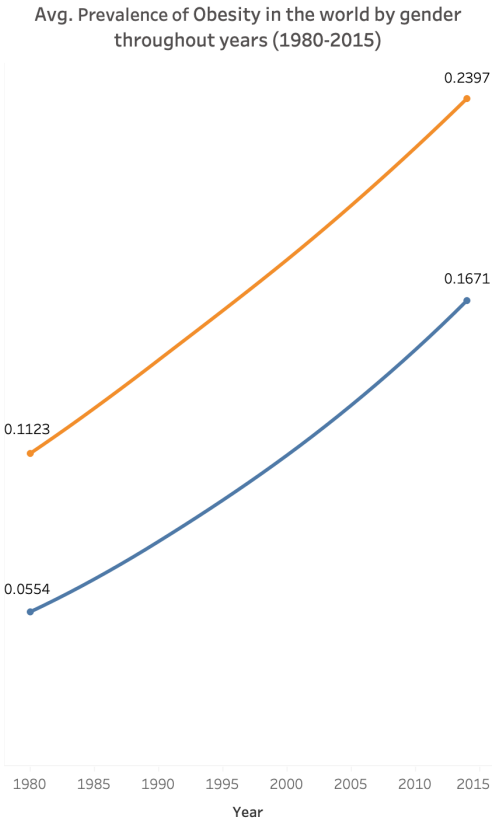
2

**FIND A RELATIONSHIP BETWEEN TWO OR THREE MEASUREMENTS**



# **FINDING 1**

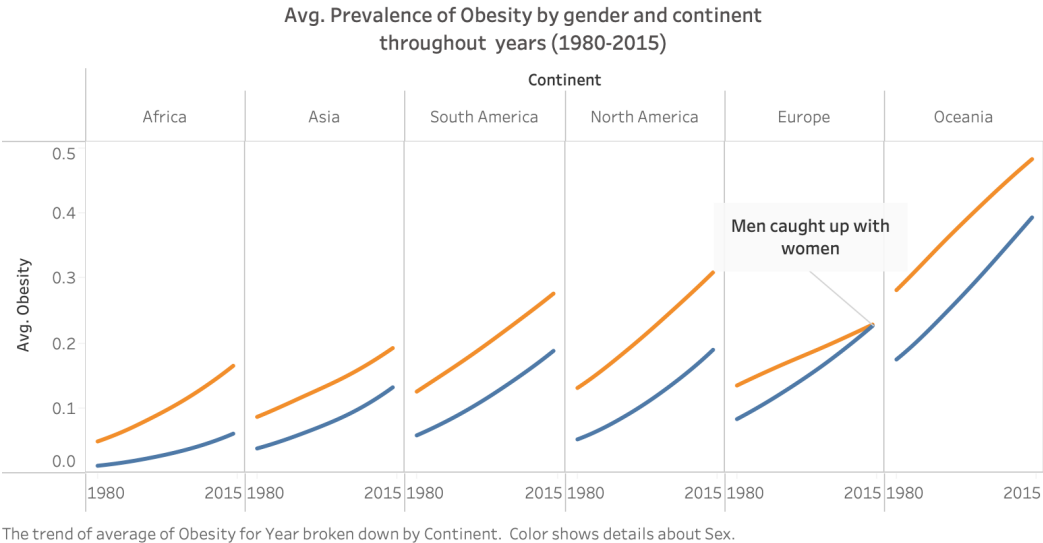
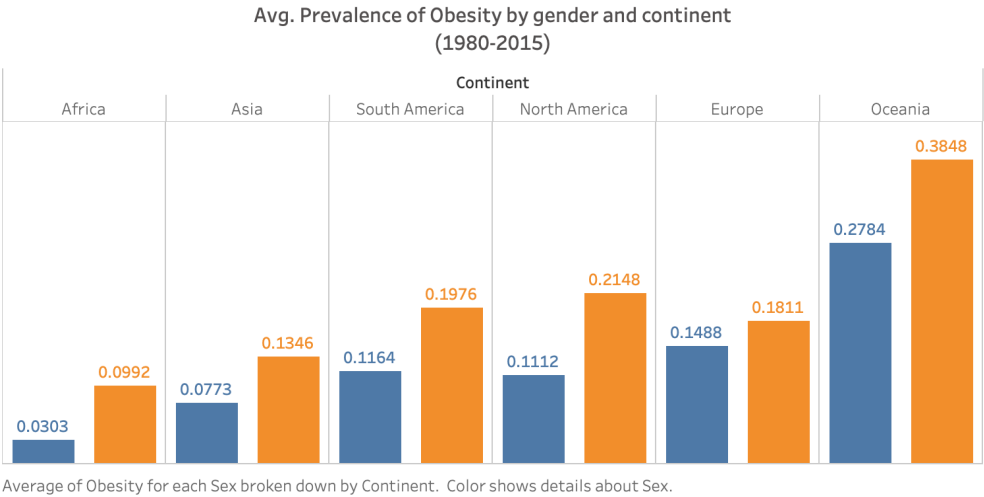
From 1980 to 2015, both men's and women's avg. % of obesity were increasing but **women's was always higher than men's.**



The trend of average of Obesity for Year. Color shows details about Sex.

**The same trend that women's obesity was always higher than men's across all continents.**

**However, through years, Europe was different, the men caught up with women for the first time.**



In Europe, for the first 5 years, all the countries had women's average obesity higher than men's. However, for the last 5 years, the trend changed as there were **some countries (Sweden, Denmark, Germany, Switzerland, Iceland, Austria, Finland)** having men's values higher than women's.

The difference in avg. Prevalence of Obesity between women and men in Europe in the first 5 years (1980-1985)



Map based on Longitude (generated) and Latitude (generated). Color shows Women > men. Details are shown for Country or Area and Continent. The data is filtered on Year, which ranges from 1975 to 1980. The view is filtered on Continent, which keeps Europe.

The difference in avg. Prevalence of Obesity between women and men in Europe in the last 5 years (2010-2015)



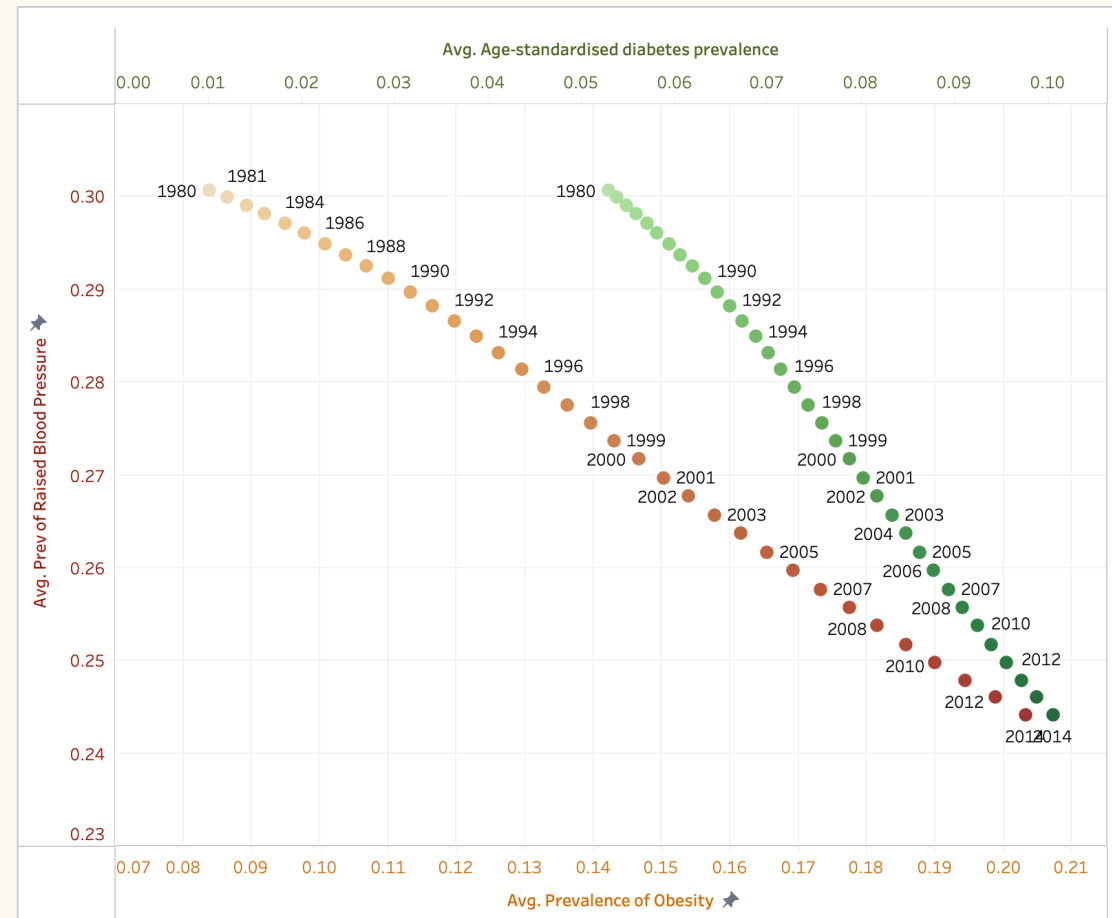
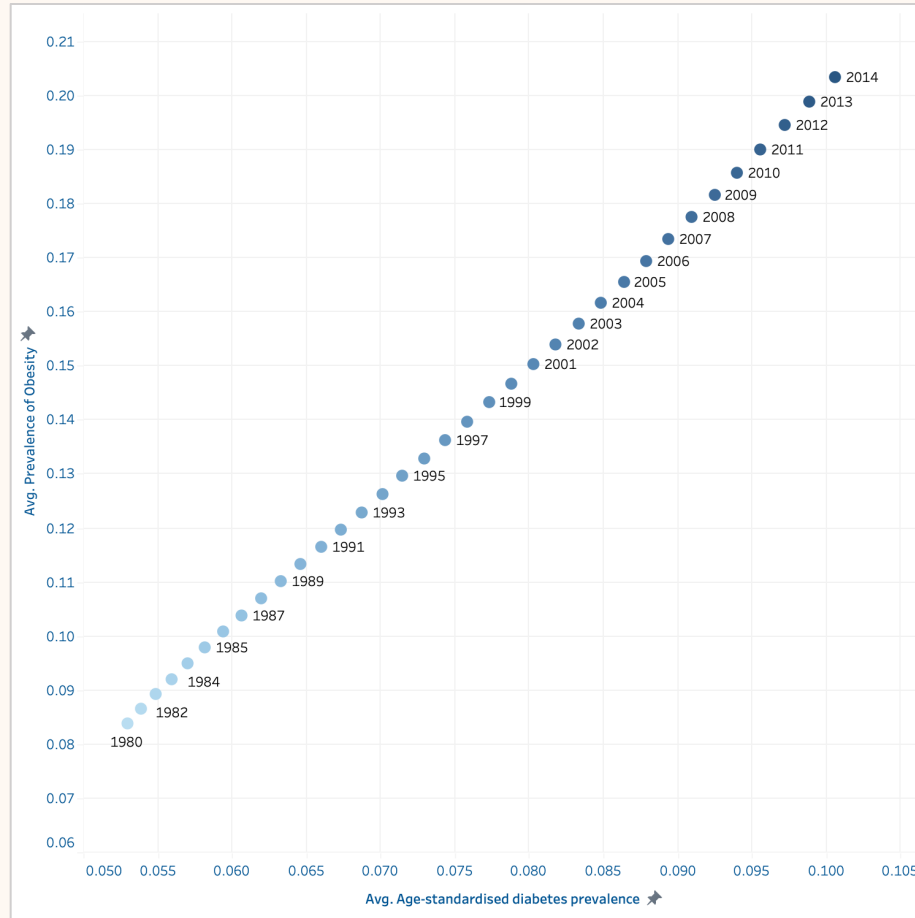
Map based on Longitude (generated) and Latitude (generated). Color shows Women > men. Details are shown for Country or Area, Continent and Region 11. The data is filtered on Year, which ranges from 2010 to 2016. The view is filtered on Continent, which keeps Europe.





# **FINDING 2**

## THE OVERALL TRENDS IN OBESITY, DIABETES AND RAISED BLOOD PRESSURE OF THE WHOLE WORLD FROM 1980 TO 2014, AND THEIR RELATIONSHIPS



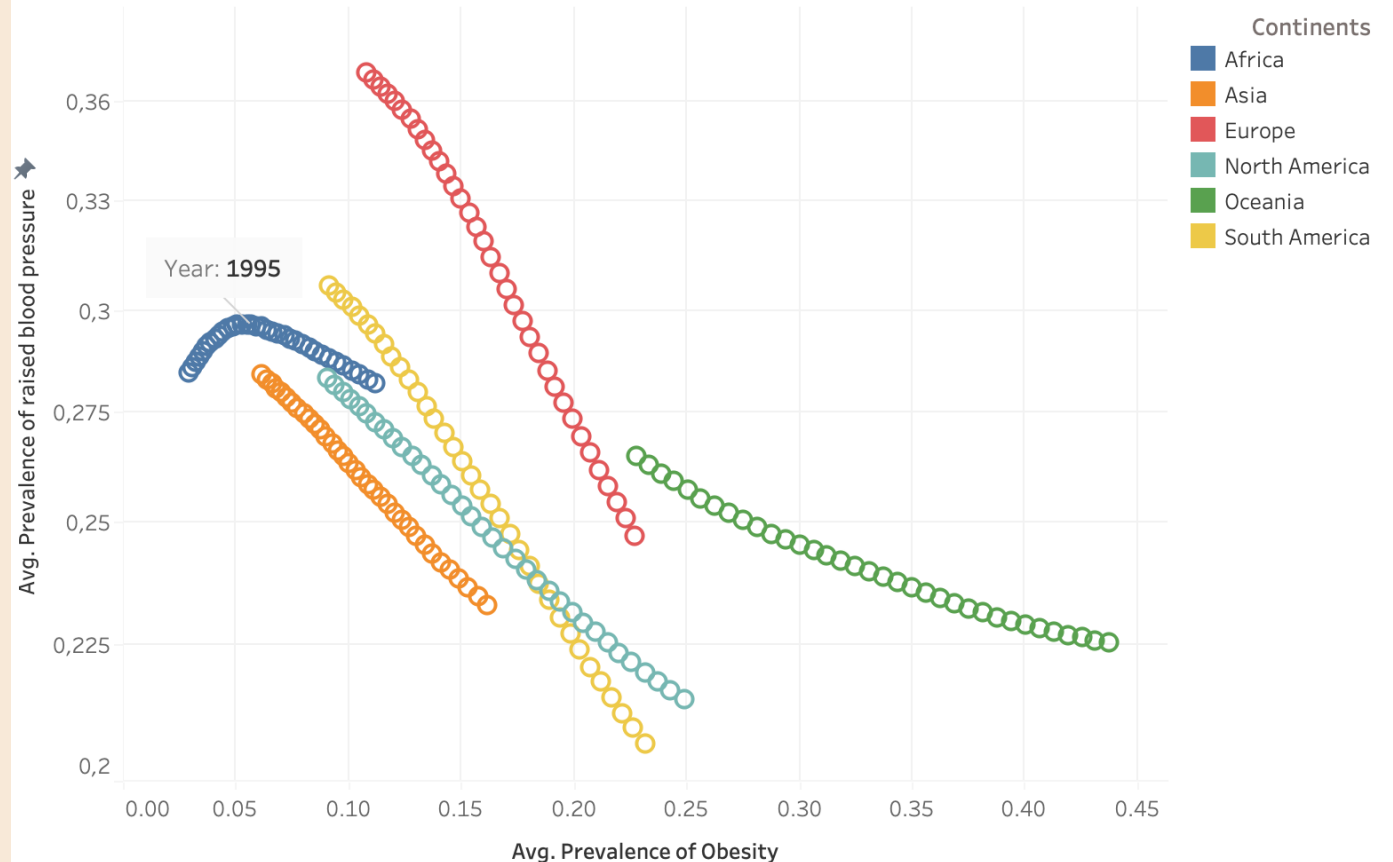
- Overall, in the world, the prevalence of obesity and diabetes had a strong positive correlation over the years, while the prevalence of raised blood pressure had a notable negative correlation with both.

# LOOKING AT EVERY CONTINENT

- Most continents have the same negative correlation between the prevalence of raised blood pressure and obesity, **except for Africa**.

Why is there difference in Africa?  
Let's look at that!

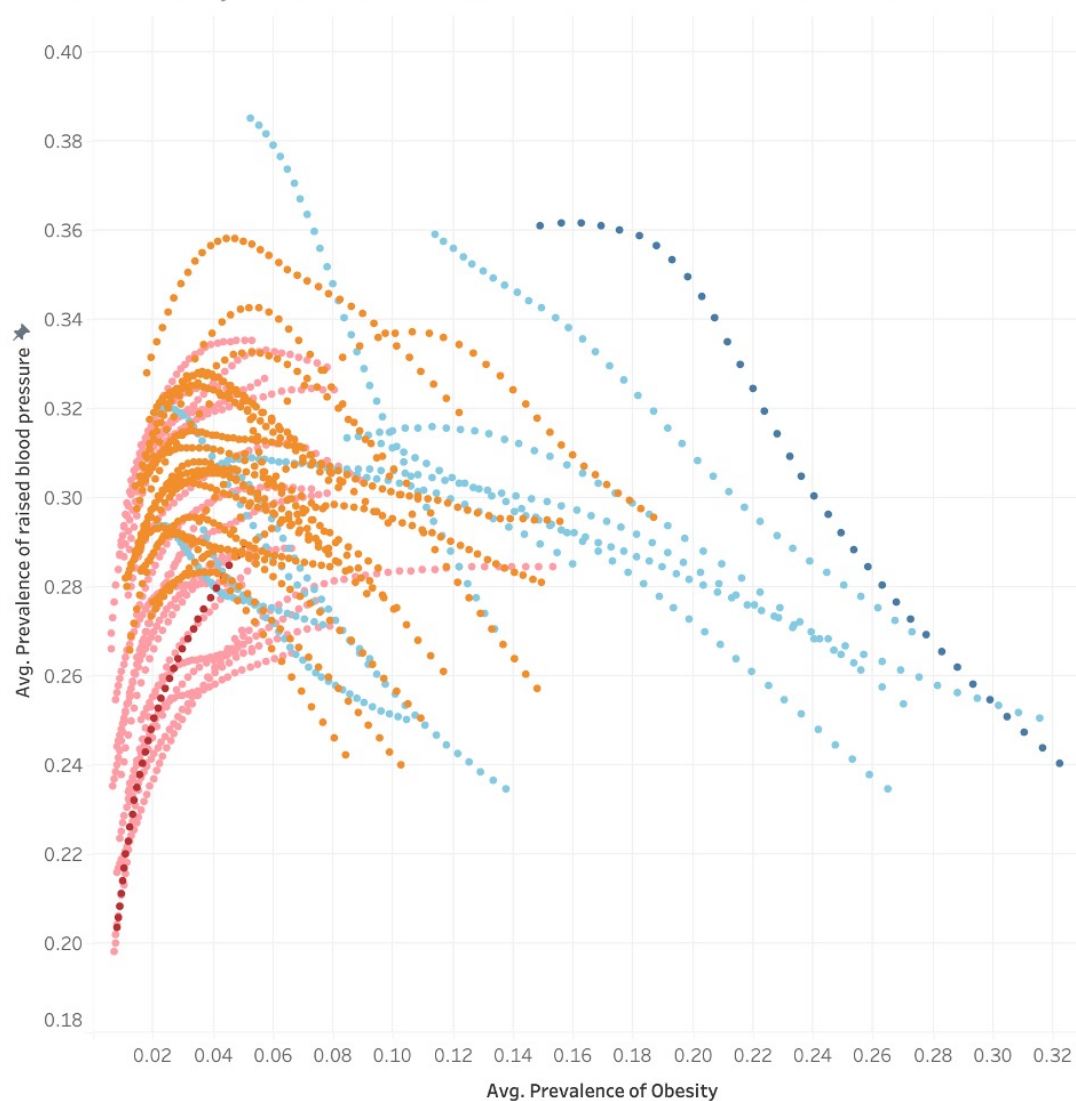
The overall trends in Obesity and Raised Blood Pressure of **every** continent from 1980 to 2014



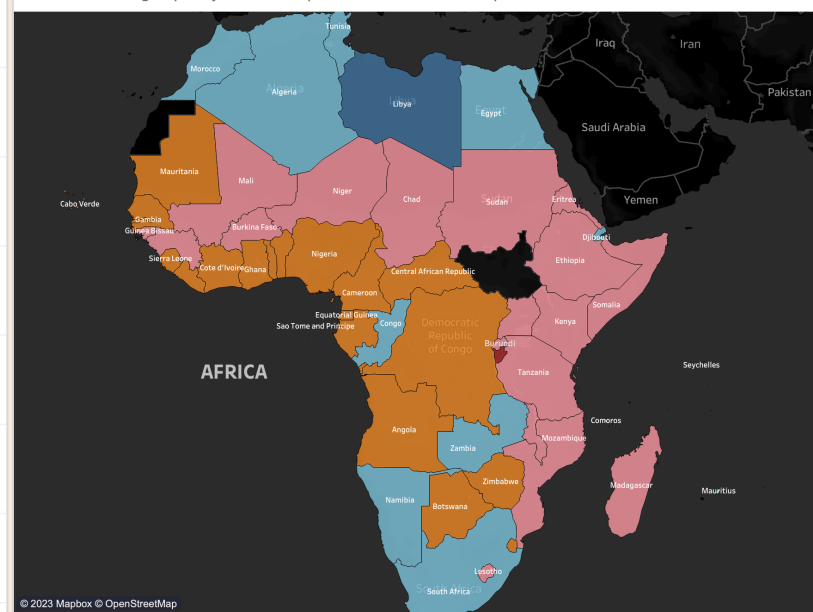
Average of Prevalence of Obesity vs. average of Prevalence of raised blood pressure. Color shows details about Continent. Details are shown for Year and Continent.



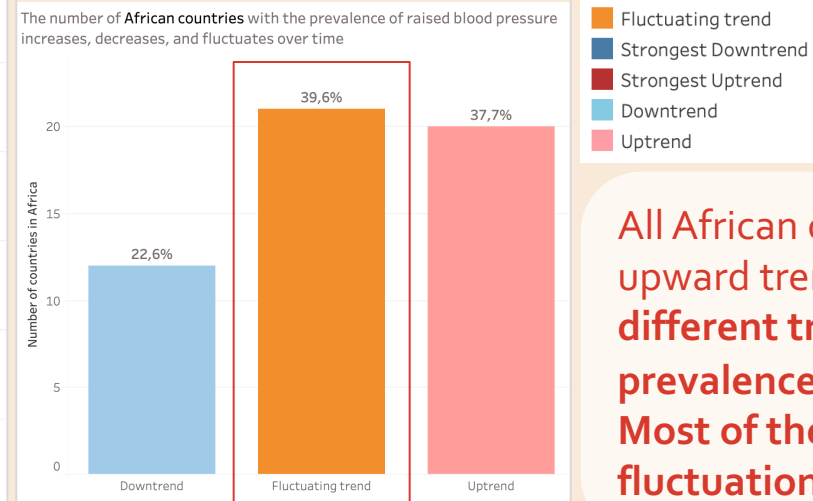
The trends in Obesity and Raised Blood Pressure of African Countries from 1980 to 2014



African Countries grouped by trend in the prevalence of raised blood pressure



The number of African countries with the prevalence of raised blood pressure increases, decreases, and fluctuates over time



LOOKING  
AT EVERY  
AFRICAN  
COUNTRY

All African countries had a shared upward trend in obesity **while** different trends emerging on the prevalence of raised blood pressure. Most of them witnessed a fluctuation in raised blood pressure.

THANKS FOR LISTENING!

