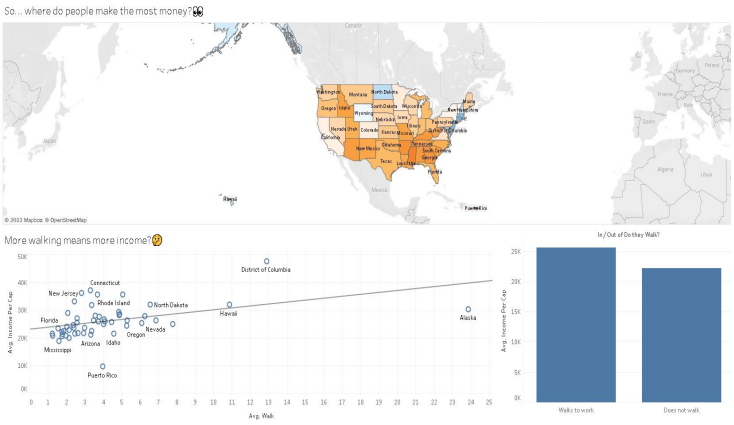
# Tableau project submission - Abdalla Elsayed

## Visualisation 1 (dashboard)




Link: https://public.tableau.com/app/profile/abdalla.elsayed/viz/story--income/Income?publish=yes

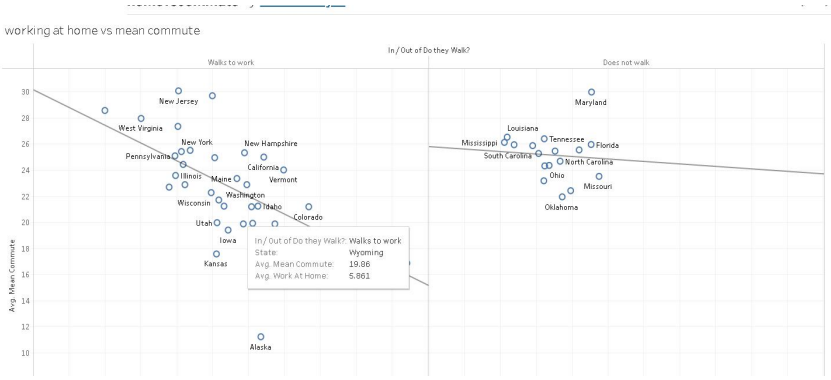
Summary: Dashboard containing a map, scatter plot (walk vs income per capita), bar chart (mean county income per capita between states that walk and states that dont). This dashboard mainly focuses on income in the US. Findings include:

1. Northeastern US states tend to have more income per capita, in addition to North Dakota, Hawaii and Alaska
2. States with higher proportion of people going to work by foot have more income per capita (~$3 000 more income per capita )

Design: A map was chosen in the visualisation on the top to highlight how the income varies in the US states, the bar chart on the bottom right exhibits the difference in income per capita between states that walk and states that do not

# Visualisation 2 (dashboard)

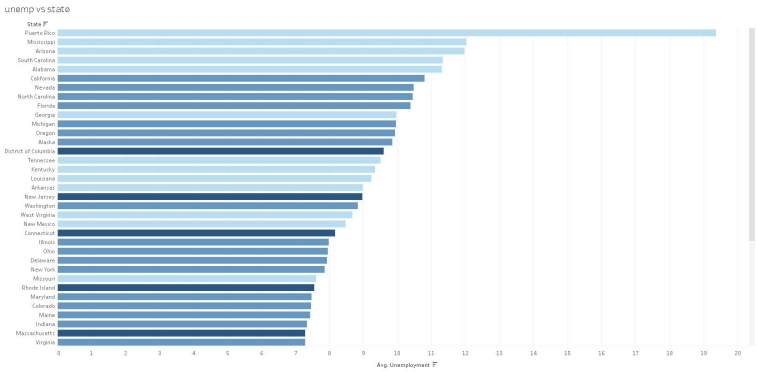
Link: https://public.tableau.com/app/profile/abdalla.elsayed/viz/homevscommute_16497889137810/workingathomevsmeancommute?publish=yes




Summary: There seems to be a correlation between working at home and mean commute time. This might be because working at home means people less people need to travel to their work location, hence less traffic and less accidents that often block roads. This effect is more visible in states where residents go to work on foot. Another interesting observation is there is a lower proportion of residents working at home in states where less people go to work on foot.

Design: I chose a scatter plot because both axes contain continuous variables (% of residents working from home and mean commute time). I chose to group based on whether or not residents go to work on foot to see whether there are any differences between the 2 groups. I chose to add a regression line to show trends within the data.

# Visualisation 2 (dashboard)




Link: https://public.tableau.com/app/profile/abdalla.elsayed/viz/unempstate/unempvsstate?publish=yes

Summary: According to this bar chart, 9 US states have a mean county unemployment higher than 10%, with Puerto Rico having unemployment as high as 19%. Furthermore, US states with high unemployment tend to have less income per capita.

Design: I chose a bar chart because there is one categorical variable (state) and a continuous variable (unemployment rate). I chose to color on the income per capita variable, where darker blues indicate higher income per capita