Exploratory Visualization & Shiny Project

MAY 1st 2018 - ANTONIO SALVADOR

MOTIVATION AND BACKGROUND INFORMATION

▸ Happiness <- c(Health + Meaningful Job + Love)

▸ Health costs raising at 5% anual rate (20% of GDP)

▸ Explore lifestyle factors, policies and environment.

▸ Obesity 2nd leading preventable cause of death in US

▸ Effectiveness of health policies and environment?

▸ Nutrition and Physical Activity awareness

DATASET

▸ Source: Division of of Nutrition, Physical Activity and Obesity (DNPAO) / Centers for Disease Control and Prevention (CDC)

▸ Behavioral and Risk Factors Surveillance System
  ▸ Fruits and Vegetables
  ▸ Obesity and Weight Status
  ▸ Physical Activity

▸ Environmental and Policy Support
  ▸ Breastfeeding
  ▸ Fruits and Vegetables
  ▸ Physical Activity
  ▸ Sugar Drinks

DATA CHALLENGES

▸ Selection of variables to be explored/visualized

▸ Number of Variables (~40 questions).

▸ Survey Template (length of variables)

▸ Numeric and Categorical Data

▸ No consistency in time (year) of data

▸ Statistical analysis

FINDINGS

▸ No major changes in Obesity, Physical Activity and Nutrition in last years

▸ Food Policy Councils and Healthier Food Retailers not as common as Complete Street Policy.

▸ States with lower levels of obesity have better environmental support such as access to parks, community centers and walkable sidewalks

▸ What can be done to reverse obesity trend in US?