

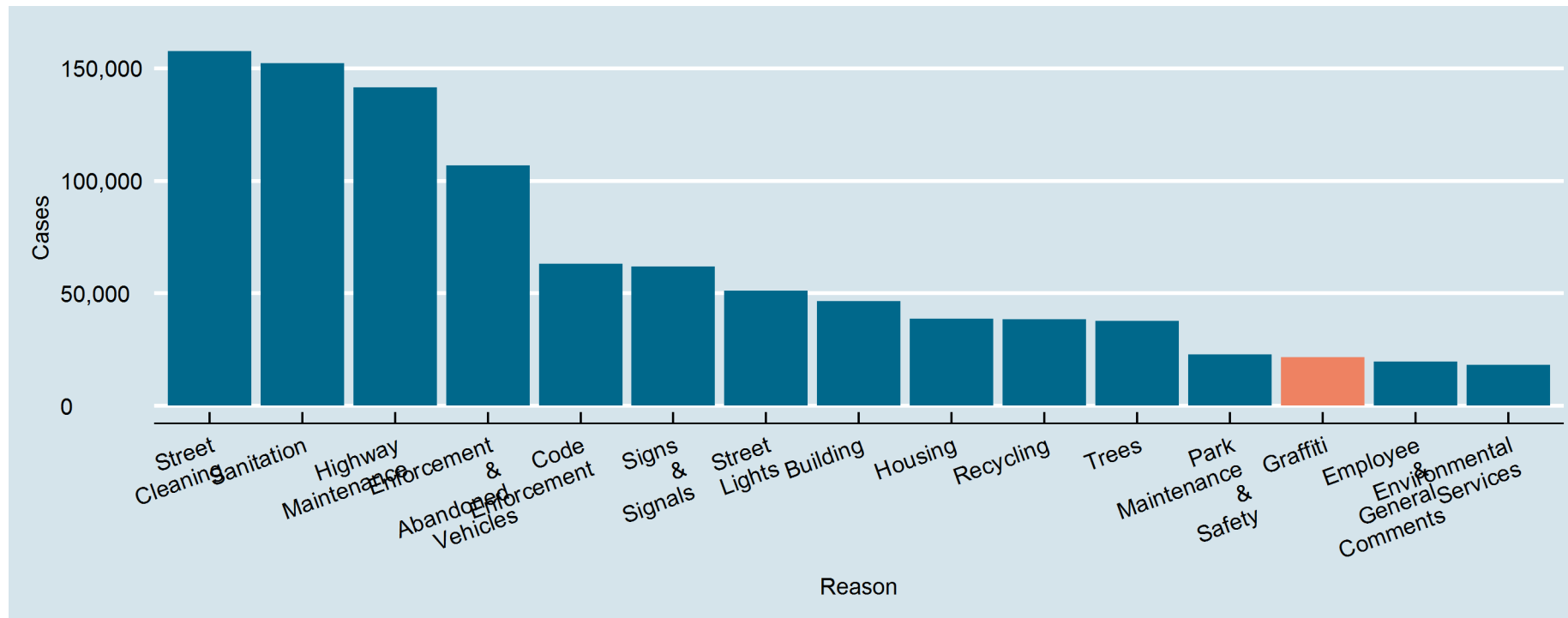
# Boston 311: Investigating Graffiti Calls

DATA + NARRATIVE WITH R WORKSHOP

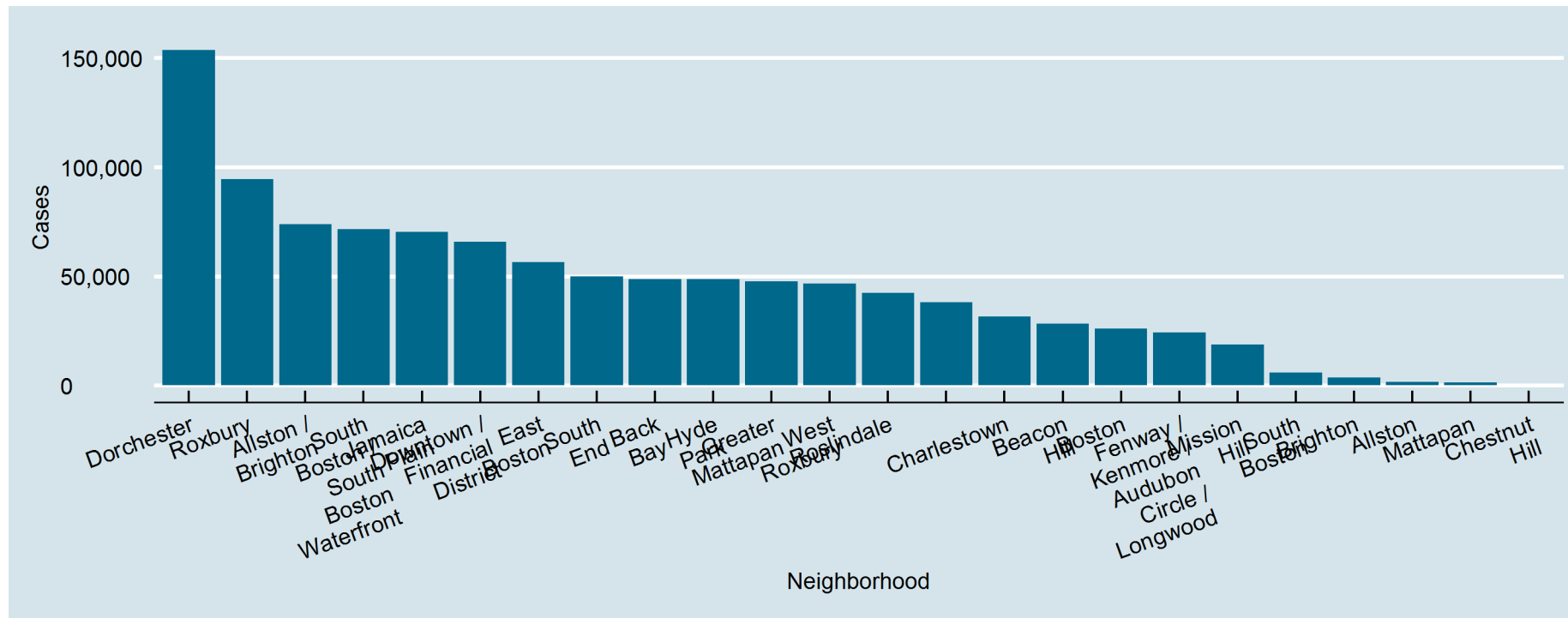
# Introduction

- ▶ Hanan Alsalamah
- ▶ Arvinth Raghavan
- ▶ Ian Riaf

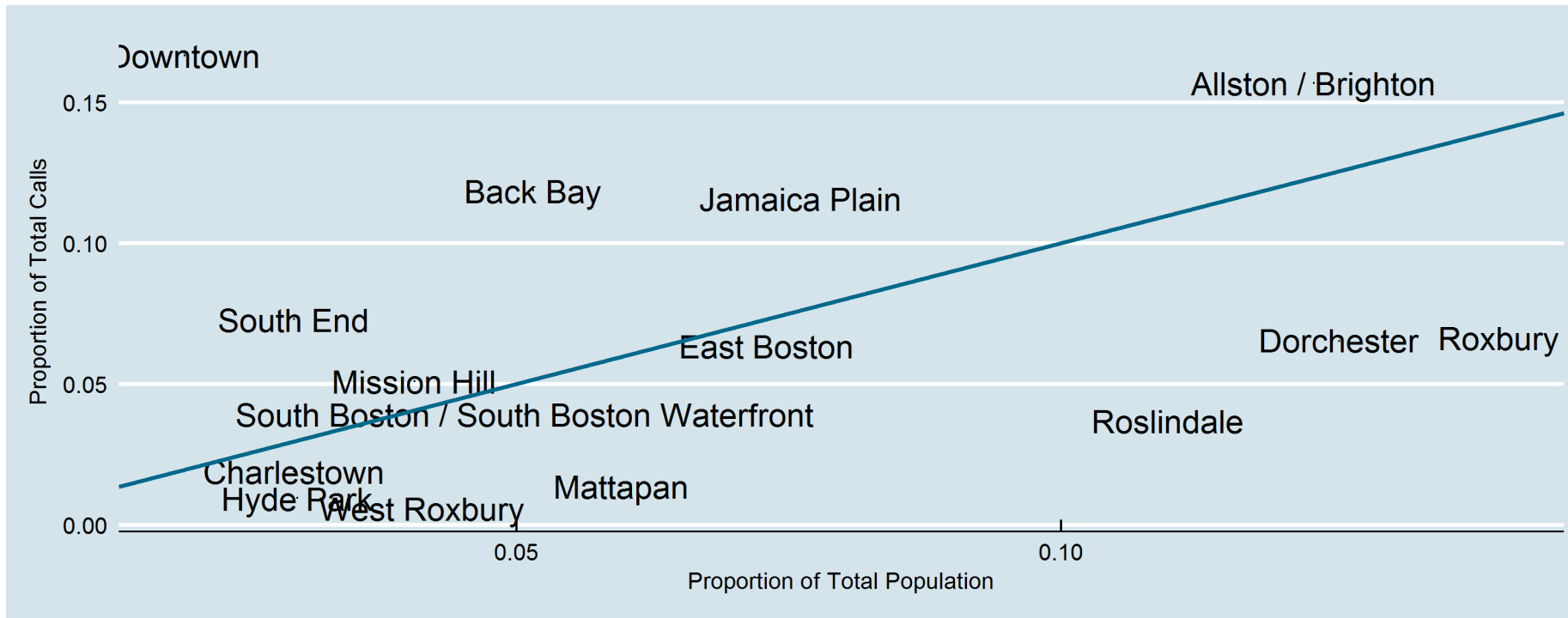
# Top 15 Reasons for 311 Calls



# Frequency of 311 Calls by Neighborhood



# Plotting Population Density Versus Frequency of Calls



# Looking at Graffiti in Boston





# Looking at Graffiti in Boston

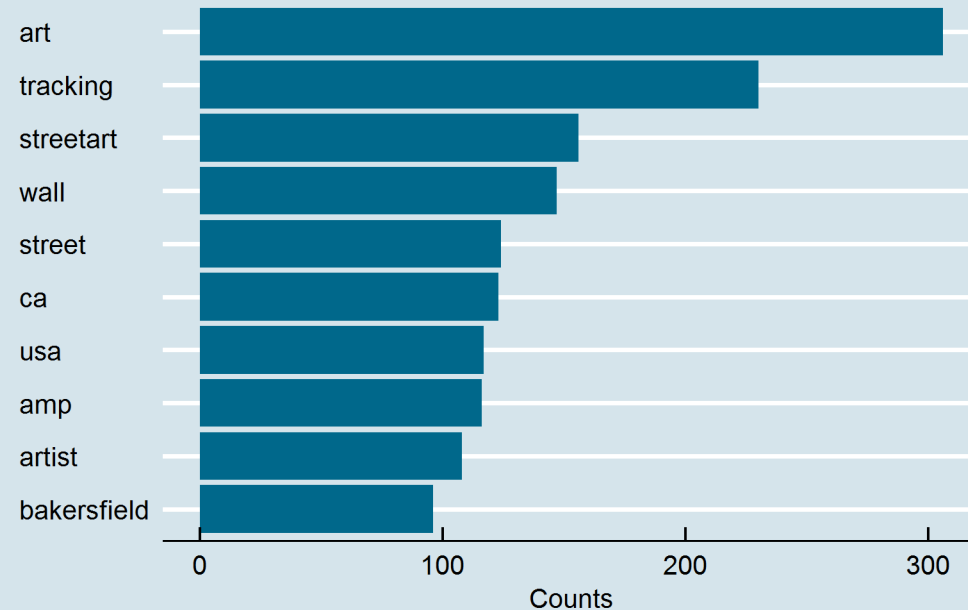
Before



After

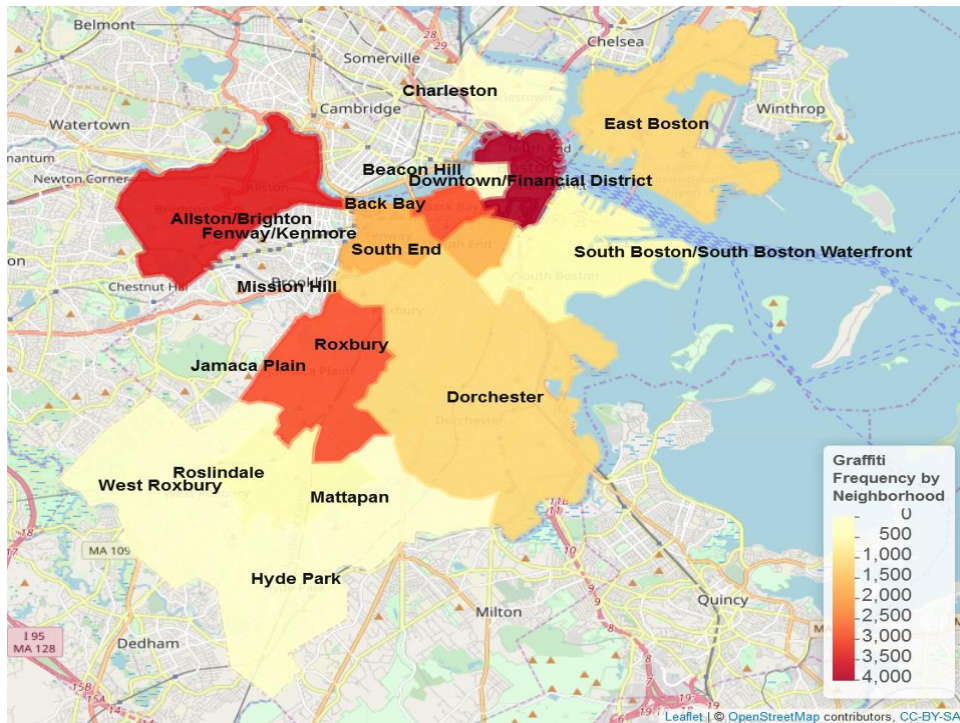


100

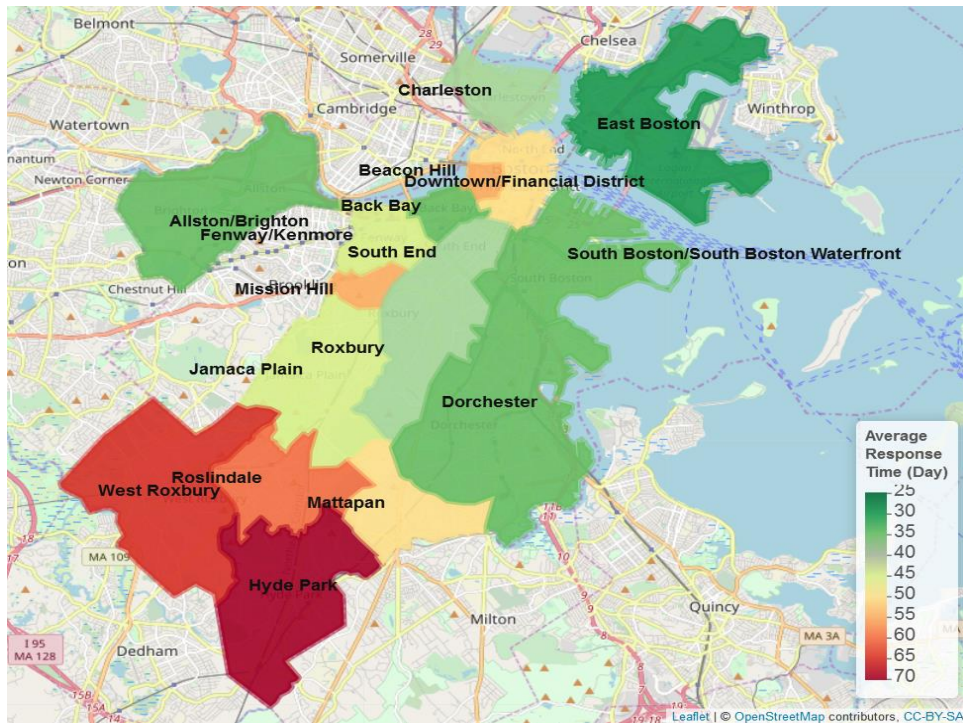




# Mapping the Boston Neighborhoods

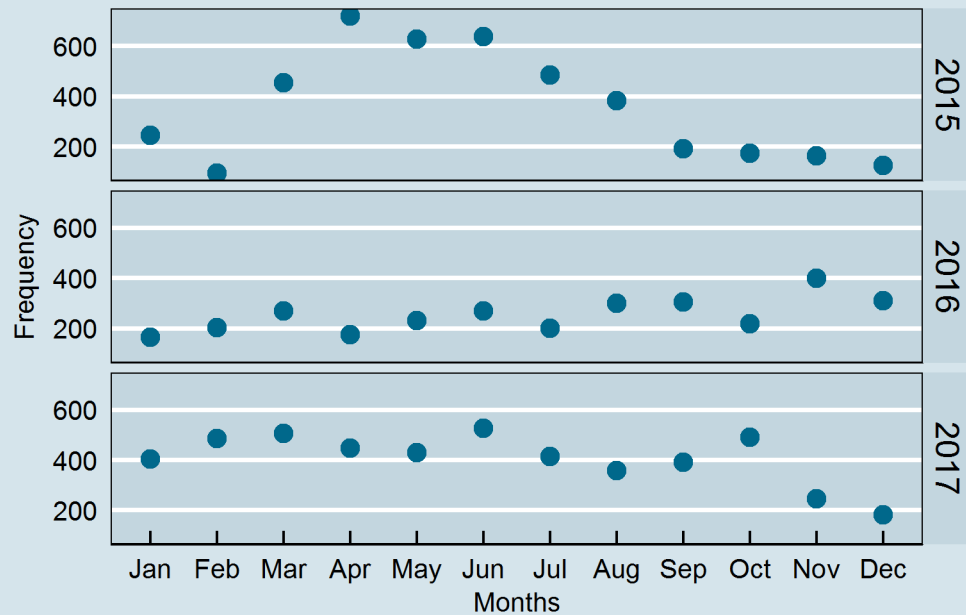


# Mapping Response Times by Neighborhood

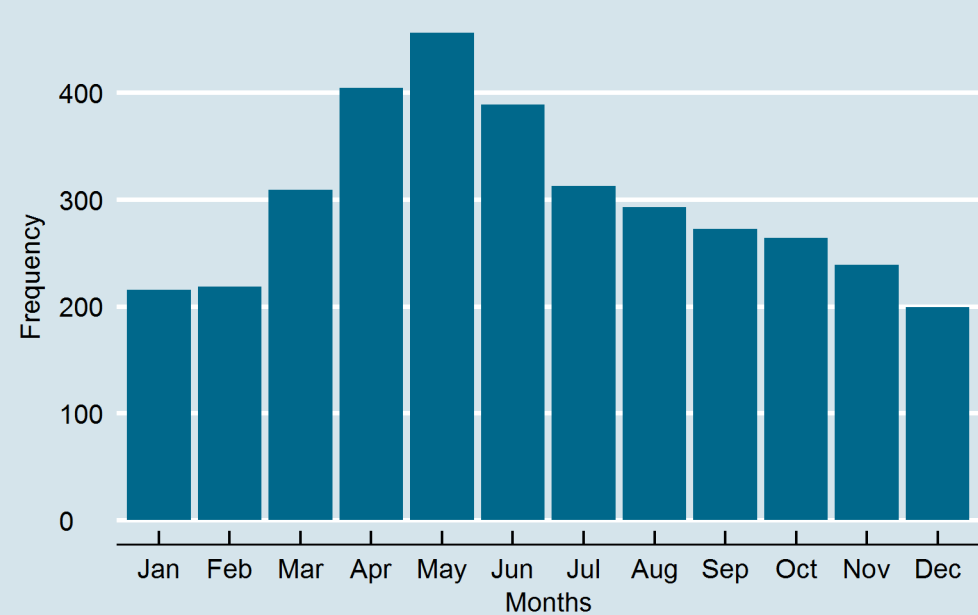


# Average Call Frequency, Month-by-Month

## Average Graffiti Calls by Year, 2015-2017

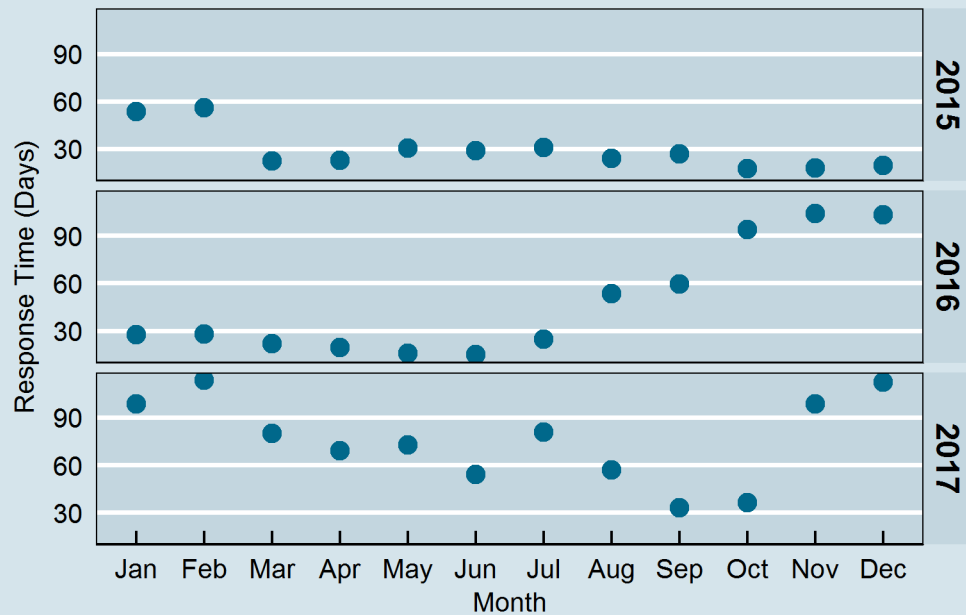


## Average Graffiti Calls by Month

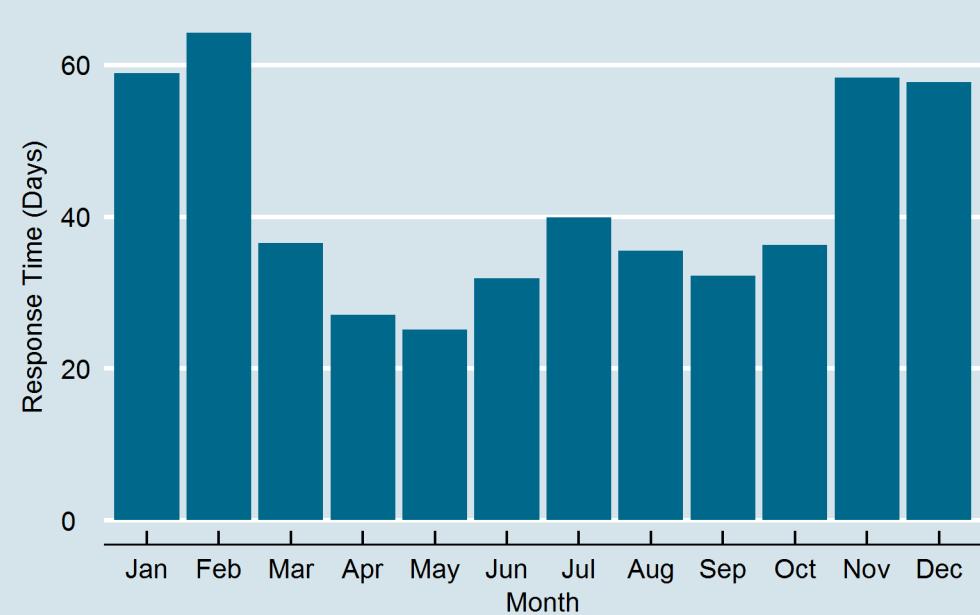


# Average Response Time, Month-by-Month

Average Response Time by Year, 2015-2017



Average Response Time by Month





Thank You!