2.2 Assignment

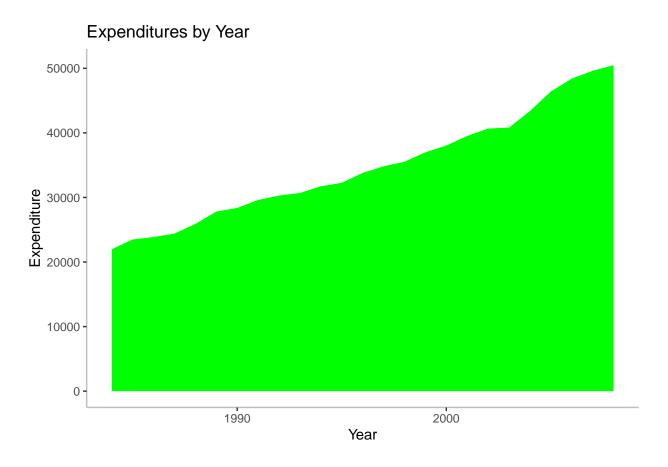
Alexa Wittlieff

July 3, 2022

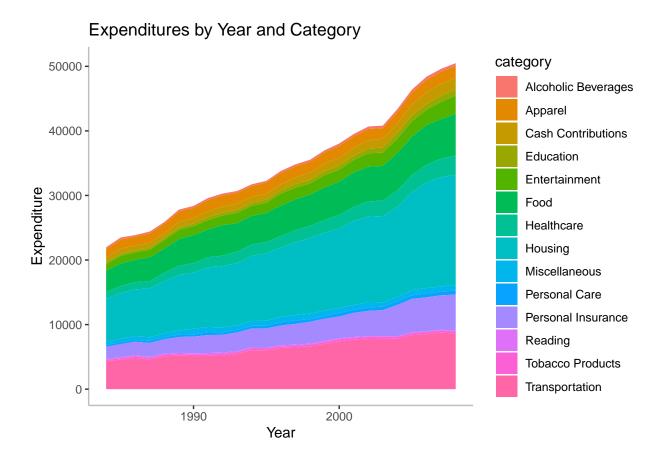
2008 Expenditures by Category



```
groupyr_df <- spend_df %>% group_by(year) %>% summarise(total_expenditure = sum(expenditure))
ggplot(groupyr_df, aes(x=year, y=total_expenditure)) + geom_area(fill='green') +
    ggtitle("Expenditures by Year")+ theme_bw() + theme(panel.border = element_blank(), panel.grid.major = panel.grid.minor = element_blank(), axis.line = element_line(colour = "grey")) + xlab("Year") + ylab("E
```



```
ggplot(spend_df, aes(x=year, y=expenditure, fill=category)) + geom_area() + xlab("Year") + ylab("Expend
panel.grid.minor = element_blank(), axis.line = element_line(colour = "grey")) +
ggtitle("Expenditures by Year and Category")
```



```
ggplot(groupyr_df, aes(x=year, y=total_expenditure)) + geom_step(color="green") + xlab("Year") + ylab("
panel.grid.minor = element_blank(), axis.line = element_line(colour = "grey")) +
    ggtitle("Expenditures by Year")
```

