## Linegraph Lab

Your Name

2023-02-01

## Line Graphs

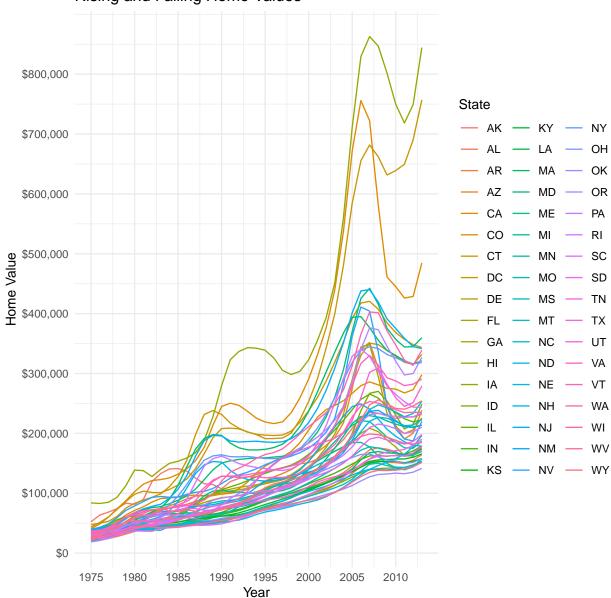
Using the housing dataset, we want to see the trends of the house values over time.

Filter only the first Quarter from each year (Qrtr == 1) when considering the different years and discard all other rows. Use either the "filter" function (install the dplyr library) or "subset" function from Base R to accomplish this.

Do all of the following:

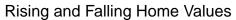
- i. Have different colored lines for different states.
- ii. Make sure the x-axis has ticks starting with 1975 and ending with 2013 with ticks every 5 years in-between.
- iii. Make sure the y-axis has ticks for every 100,000 (starting with 100,000 and ending with 800,000) but format it in a dollar amount \$XXX,XXX. Use the dollar\_format() function from the scales package to accomplish this.
- iv. Change the y-axis label to one that does not have a period between the words.
- v. Add an appropriate title.

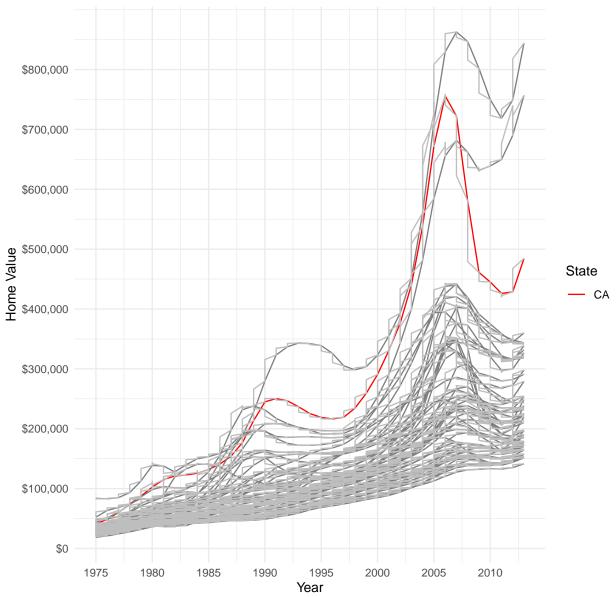




Now, color all lines gray except for California. Make California red. Add a nicer theme.

```
CA_red <- all_states + geom_line(data = housing, aes(group = State), color = "grey") +
    scale_color_manual(values = c("CA" = "red"))</pre>
CA_red
```





What happened around 2008 that might be relevant to the dip in home prices everywhere? Was California more or less affected during this dip in prices?

 $Your\ Answer\ Mortgage\ market\ crash,$  recession