# Project 2 Proposal

**Members:**

* Edwin Brown
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**GitHub Repository:**

* <https://github.com/UC-Berkeley-I-School/Project2_Brown_Kramer.git>

**Primary Datasets:**

* S&P/Case-Shiller 10-City Composite Home Price Index <https://fred.stlouisfed.org/series/SPCS10RSA>
* [NASDAQ Composite](https://finance.yahoo.com/quote/%5EIXIC/history?period1=34560000&period2=1617062400&interval=1d&filter=history&frequency=1d&includeAdjustedClose=true)
* yFinance – Python library for retrieving historical data from Yahoo API
  + Dow Jones Industrial Average = “yf.download("^IXIC", start="1987-01-01", end="2020-01-01")”
  + S&P 500 = yf.download(”^GSPC ", start="1987-01-01", end="2020-01-01")”
  + Nasdaq = yf.download(”^IXIC ", start="1987-01-01", end="2020-01-01")”

**Initial Plots, Figures or Tables:**

**Some of the variables**

* **TODO**

**Supplemental datasets**

* 30 year Mortgage Rates <https://fred.stlouisfed.org/series/MORTGAGE30US>
* 30 year Jumbo Mortgage Rates <https://fred.stlouisfed.org/series/OBMMIJUMBO30YF>
* 10 year Treasury Constant Maturity Rate <https://fred.stlouisfed.org/series/DGS10>
* Consumer Sentiment <https://fred.stlouisfed.org/series/UMCSENT>
* Consumer Price Index for All Urban Consumers: All Items US City Average <https://fred.stlouisfed.org/series/CPIAUCSL>
* Smoothed U.S. Recession Probabilities [Smoothed U.S. Recession Probabilities (RECPROUSM156N) | FRED | St. Louis Fed](https://fred.stlouisfed.org/series/RECPROUSM156N)
* [Dates of U.S. recessions as inferred by GDP-based recession indicator (JHDUSRGDPBR) | FRED | St. Louis Fed](https://fred.stlouisfed.org/series/JHDUSRGDPBR)
* [Homeownership Rate for the United States (RSAHORUSQ156S)](https://fred.stlouisfed.org/series/RSAHORUSQ156S)

**What you plan to cover in the final report and how you plan to organize it.**

Does the Stock Market Affect the Housing Market? Correlation in consumer sentiment to stock market and housing prices.