**Goal:**

The goal of our project is to answer the question, where and how expensive of a house one can afford given a set of inputs. Our objective is to use optimization and simulation utilizing home and census data and answer some basic questions such as where can I buy and what’s the suitable price.

**Overall Status:**

The overall project status can be split into :

Influence diagram, data collection, spread-sheet setup and test

**Influence diagram:**

We have a good grasp of what we are trying to achieve. As part of this exercise we created a requirements sheet and discussed all factors impacting the decision. We also went to identify which are inputs and which ones are optional parameters.

<https://www.lucidchart.com/invitations/accept/e80aa40f-72e9-43f5-924f-d02c09b34720>

**Data Status**

We have currently obtained data from Zillow, and US Census. Zillow provides us with home, county, and median price. US census provides us with average income of the neighbor hood information. We have also obtained Cost of living adjustment data for this.

**Spread Sheet Setup:**

We have begun this but we are at 20% mark right now. We will working towards getting this to 100% mark soon.

**Resources:**

All our files including out spreadsheet is in github and available for review on demand

<https://github.com/taposh/decision_science/>