We have a dataset of appliance level energy consumption for multiple homes. This dataset is available to download at http://www.kaggle.com/c/belkin-energy-disaggregation-competition/data.

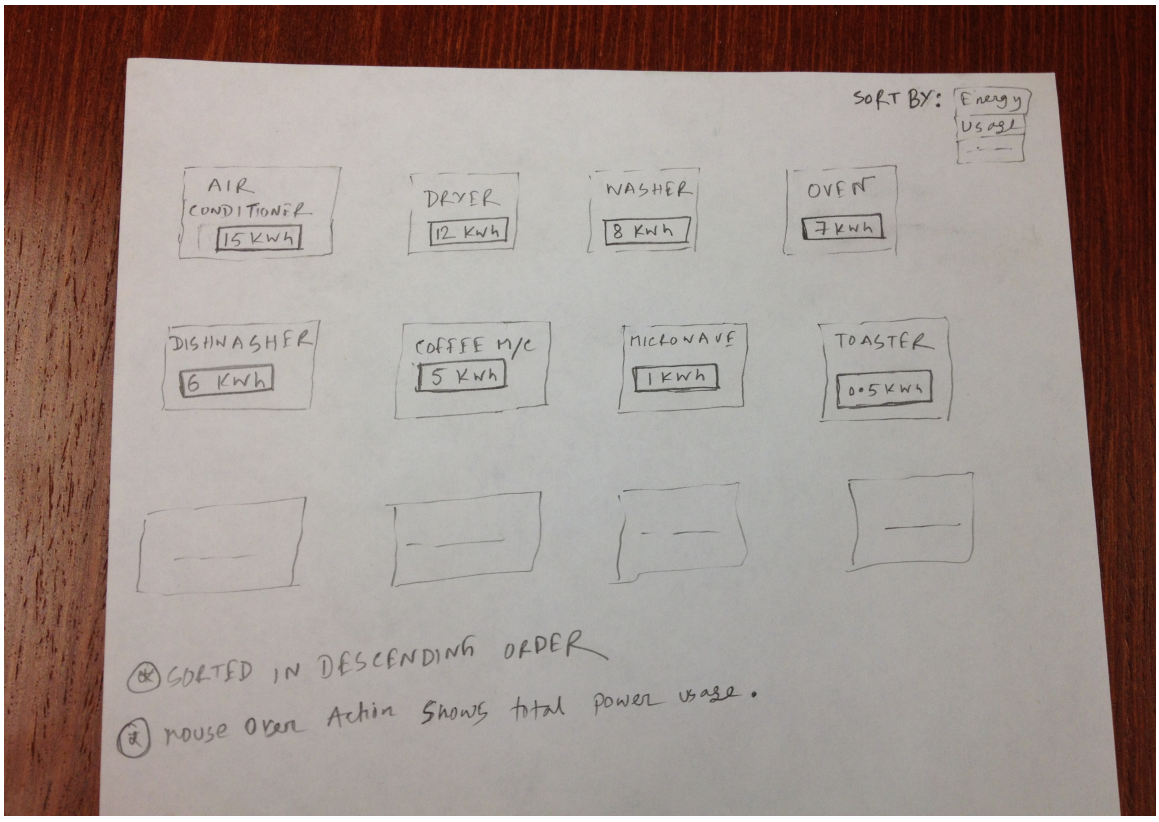
Our goal for this project was to visualize that data for one home in an easy and user-friendly way. Just by looking at the visualization, users should be able to figure out the appliance that is causing her the most amount of bill. This will help them not only to save money, but also to reduce their carbon footprint on the planet!

We were trying to find inspirations from the web and we came across this interesting visualization:

http://visualization.geblogs.com/visualization/appliances/

This visualization shows US state-wise energy consumption of different appliances. We tried to mimic their approach for a single home. The visualization will be really useful because it will be sorted in decreasing order of energy usage. Also, we planned to simulate the data from a specific start time so that the user can figure out what's on/off at any specific time point. Moreover, user will also be able to see their usage per week/month/year just by keeping putting their mouse pointer over the appliance. All these information will help them to use energy wisely and effectively.

Our storyboard for this visualization looks like the following figure:



As we see, appliances are sorted by their energy consumption. But we also have the option to sort them based on their usage time. They are always sorted in descending order, which means that the most energy hungry appliance will be at first position and so on. The sketch also shows some possible outputs of mouse over action.