

User Empathy Reflection

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SECTION U
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1 Introduction

The goal of our User Empathy Experience was to put ourselves into a situation where we could gain a deeper understanding of the struggles of people who are living in food deserts and whose primary monetary resource for purchasing food is the USDA's Supplemental Nutrition Assistance Program (SNAP) [1]. To do this, we used public transportation to visit a food desert and obtain enough food that everyone on the team can eat and enjoy a meal together.

Food deserts are areas where residents have limited access to grocery stores within convenient traveling distance [3]. Because of the limited access to these food retailers in food deserts, access to affordable fruits, vegetables, whole grains, low-fat milk, and other foods that make up the full range of a healthy diet is limited [4]. In many cases, the people living within the food desert do not own cars [5] further limiting their access to healthy food options.

SNAP is a USDA program which provides food assistance for low-income individuals and families [1]. SNAP provides approximately \$4.32 per person per day to its beneficiaries [6]. For a family of five, that works out to be \$21.15 for the entire family for the day. Since my team consists of five members, we also held ourselves to the \$21.15 limit for our Empathy Experience.

Our goal was to follow the USDA's nutrition recommendations found on <https://www.choosemyplate.gov/> when choosing the food for our meal. According to this website, if we were buying food for a whole day, we would need the following quantities of each food type for each person [2]:

- 2 cups fruit
- 3 cups vegetables
- 8 oz equivalents grain
- $6\frac{1}{2}$ oz equivalents protein
- 3 cups dairy

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2 Anticipated Bugs

Before embarking on the User Empathy Experience with my team, I compiled a list of "bugs" that I anticipated my team would encounter while in the food desert. Below is that list with an explanation of each item:

- **Difficulty finding enough fruits and vegetables.** Because food deserts are characterized by a lack of affordable fruits and vegetables, I anticipated that it would be difficult for my team to find enough fruits and vegetables.
- **Difficulty staying under the SNAP budget.** I anticipated that we would have problems staying under the self-imposed SNAP budget. I made this judgment by looking at the receipt from a recent grocery trip where my family spent about \$177.00. Dividing this number out between the four people in my family results in about \$69.00 per person. \$69.00 divided by \$4.32 is about 16 meaning that we would have had to live solely off of the food we bought during that shopping trip for 16 days. In my family, it is common to buy groceries once a week, so our changes to our eating habits would be required in order for us to consume the proper amount of each food category.
- **Difficulty finding low-fat protein sources.** In many food deserts, fast food chains and convenience stores are the closest, if not only, food retailers in the area [7]. Although many

of these food retailers serve forms of protein, they are often high in fat content. Because of this, I anticipated that it would be difficult to find low-fat protein sources.

- **Difficulty finding low-fat dairy.** Judging from my past experiences at gas station curb stores, high-fat dairy such as ice cream is in abundance, but low-fat dairy such as milk or yogurt is not as common. Since curb stores are often the only retailers of food in food deserts, I anticipated that it would be difficult to find such low-fat dairy.
- **Difficulties using public transportation.** I have used public transportation in many places around the world with varying degrees of success. In some cases, such as when I used the Tube in London, things went smoothly. Other cases, such as when I attempted to ride a bus in New York City, were not so successful. Despite having grown up in the Denver Metro area, I am not very experienced in using the public transportation so I decided to assume the worst case scenario. Judging from past mistakes while using public transportation, I thought that it would be likely that we might miss the bus, get on the wrong bus, have to wait a long time for the bus, or miss a connection with the Light Rail.

In addition, I expected that it might be cumbersome carrying the groceries on public transportation. While in Boston for vacation this summer, I used the public transportation system to get around the city and I was often carrying a backpack. This was rather cumbersome at times. Therefore I expected carrying groceries to also be cumbersome.

- **Significant amount of time to find proper foods** I anticipated that it would take a significant amount of time to find the proper foods (if we were even able do to) because of all of the aforementioned factors.

3 Actual Bugs

During my teams trip to our assigned food desert, we encountered many difficulties. Some were expected, but others were surprising. All of them gave me insight into the difficulties faced by people living in food deserts.

- **Public transportation issues.** During my team's User Empathy Experience, we used three types of public transportation: Light Rail, bus, and walking. We didn't fully succeed at any of them. The Light Rail trip from Golden to Wadsworth was uneventful. While on the train, I took a picture of the light rail and later sketched it [Fig. 1]. Our troubles began after we arrived at the Wadsworth station because we had mistimed our ride and the Wadsworth bus was not going to come for another forty-five minutes. We ended up walking one mile from Colfax to 26th Avenue. By the time we had walked this distance, the bus had caught up to us and we took it from 26th to 38th. Had we waited for the bus to come to the Colfax stop, we would have arrived at the same time, without the mile of walking.

In our food desert, there were some stretches with nice paved sidewalks, but in other places the sidewalks were either in poor condition or nonexistent. For example, along Wadsworth near the Morning Side Retirement Community, there is no paved sidewalk, it is merely trampled down grass and dirt. I thought that it would be difficult for some of the less mobile residents of the retirement community to go to the store if that was the only sidewalk. When I returned on my own last Friday, I found that there are sidewalks on the other side of the retirement community that are in good condition, but when we were there as a team, we didn't find those sidewalks.

After our time in the food desert, we mistimed the bus and ended up walking 1.5 miles from the food desert to the Light Rail stop at Colfax. The bus passed us about a block before we got to the Colfax station. As we were coming up to the Light Rail station, we saw the train leaving the station so we had to wait for the next train. While we were waiting, we took our team photo [Fig. 2].

As we walked back to the Light Rail station, I was carrying the bag of groceries. Though not very heavy, it seemed as though the bag's weight increased with the distance walked. I have much more sympathy for people who must carry groceries long distances after having done it myself.

Overall, we were not successful in our use of public transportation. Overall, however, using public transportation gave me a greater appreciation for people who rely on public transportation for all of their transportation needs.

- **Difficulty finding quality fruits and vegetables.** We bought our food at the Shell curb store at 38th and Wadsworth. We found a great lack of fruits and vegetables in this location. There were no fresh fruits or vegetables in the store when we went as a team. There was a stand for bananas, but it was empty [Fig. 3]. When I returned on my own to the food desert, there was one banana in the stand. There was no shortage of fruit-flavored candies in the store, but no actual fruit. While at the curb store as a team, the closest food product to a fruit that we were able to find was a jar of grape jam, a highly processed derivative of a fruit. I knew that it would be difficult to find fruits and vegetables, but I was surprised at how sparse the selection was. I expected that there might be some apples or bananas consistently available for purchase but after two visits to the curb store, it was clear that this was not the case.
- **Difficulty finding low-fat protein.** Like fruits and vegetables, protein was not in abundance at the Shell curb store. There were packages of beef jerky, but they were relatively expensive and high in sodium. There were also some nuts, but those, too, were high in sodium. We ended up settling for a jar of peanut butter which is high in protein, but also fairly high in fat content.
- **Difficulty transporting perishables.** For our dairy product, we purchased some milk but did not account for the fact that it needed to be refrigerated. By the time we got back to the Mines Campus, the milk noticeably warmer. If the temperature that day had been any warmer, or if we had waited longer to prepare our food upon our return to campus, the milk may have been warmer and less safe.
- **Possible language barriers.** Our team's food desert was in a mixed-ethnicity neighborhood. Much of the area, especially the stretch along the south side of 38th Ave seemed predominately White. At 32nd and Wadsworth, there was a small shopping center with an Italian bakery and a store which sold products primarily from Eastern Europe. Right next to those stores was a Tax Services office which had their services listed in Spanish on the windows. Slightly south of the gas station was a Hispanic *joyería*, jewelry store. The fact there was signage in both English and Spanish, the existence of language barriers is likely.

4 Analysis

5 Remaining Unknowns

6 Summary and Conclusion

1 PT PERSPECTIVE 09-06-2016

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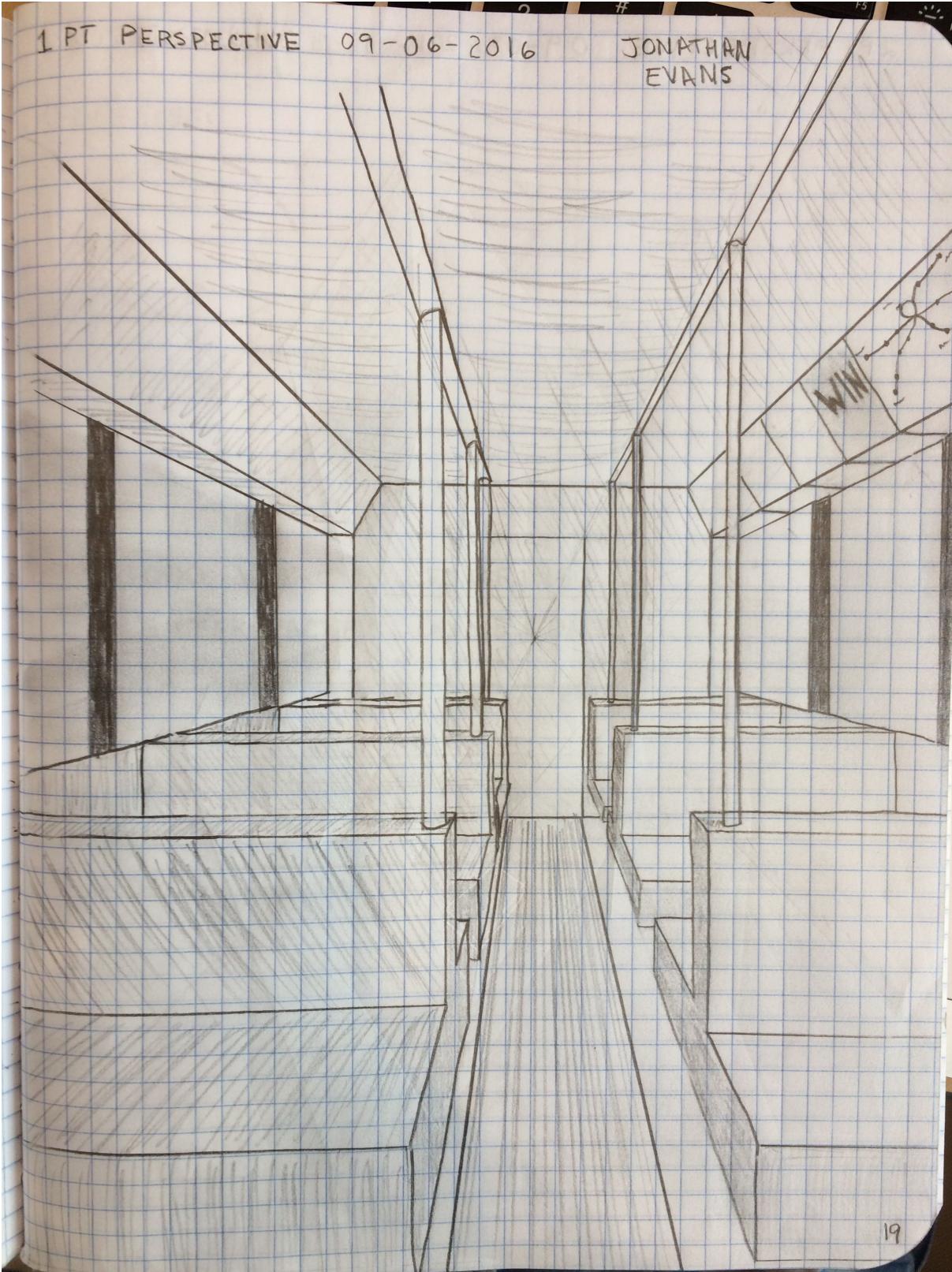


Figure 1: Sketch of Inside of Light Rail



Figure 2: Our team waiting for the next Light Rail train to come



Figure 3: The banana stand was empty

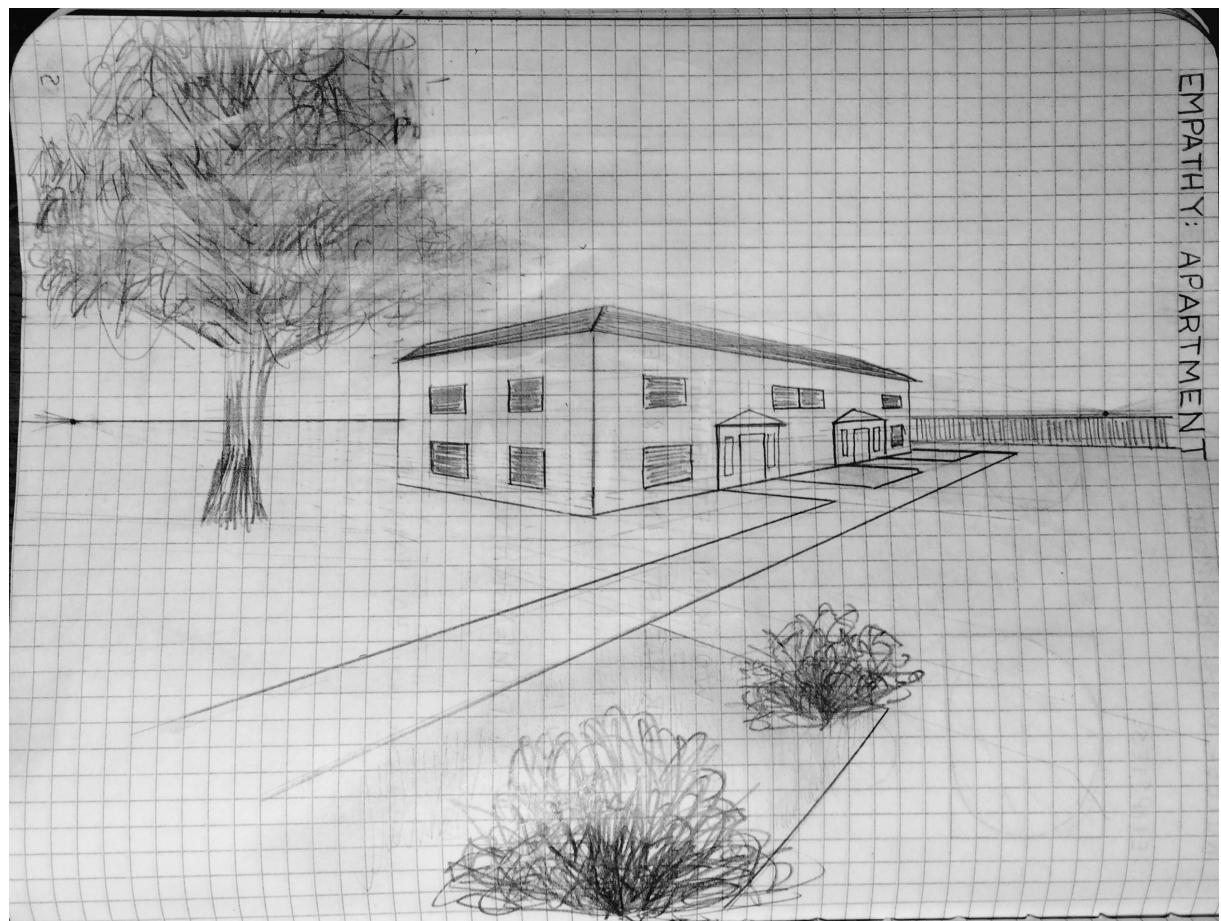


Figure 4: Sketch of the inside of a Light Rail train

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