gAstronomic Innovation



Gastronomic:

of or pertaining to food and cookery; especially the art of good eating...

It is common knowledge that today's society is living an increasingly fast and chaotic way of life. Because of this, many families and individuals have come to believe they do not have the time, energy, or motivation to cook for themselves; they opt for microwaved dinners, fast-food, and highly processed foods. This trend has led to increased health-care costs, decreased qualities of life, shorter life spans, and countless other health related issues.

Many young people are accustomed to eating food that is so highly processed the food lacks any resemblance towards its original form. Children often do not know what foods are made of, or where they come from. By reconnecting children with food origins, young people will gain a greater understanding of the world around them, and provide them with the knowledge to make informed decisions on what and how to eat.



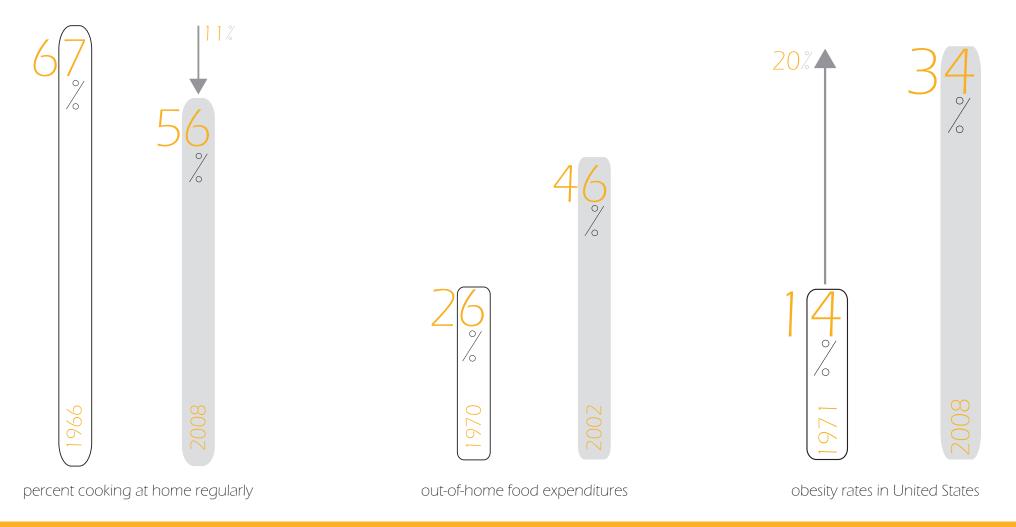
http://www.lowcaloriefastfoodoptions.com/ fast-food-the-dark-side-of-the-all-american-meal/



http://www.tylerbeverages.com/tylers-ays-food-services/food



http://en.wikipedia.org/wiki/File:McDonalds-Chicken-McNuggets.jpg



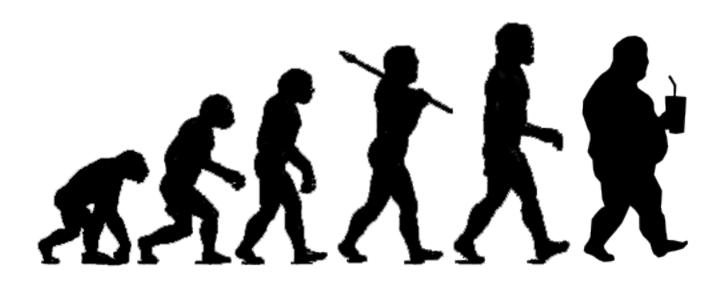
Fast and processed foods are not inherently bad.

Organic does not mean healthy.

Nutrition is more than a reflection in the mirror...

Historical Context

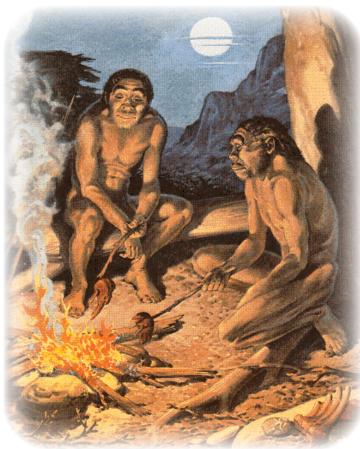
What makes us human?







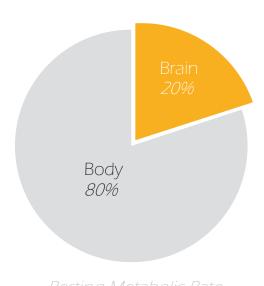




http://reviews.wikinut.com/Food-Evolution/36wovy0p/

Just 500,000 years later, a radically more advanced species — Homo erectus — emerged. Its brain was up to twice the size of its predecessor's, its teeth were much smaller, and its body was quite similar to ours. Cooking food allowed for easier chewing and digestion, making extra calories available to fuel energy-hungry brains.

(Miller, 2013)



Percent Energy Consumption



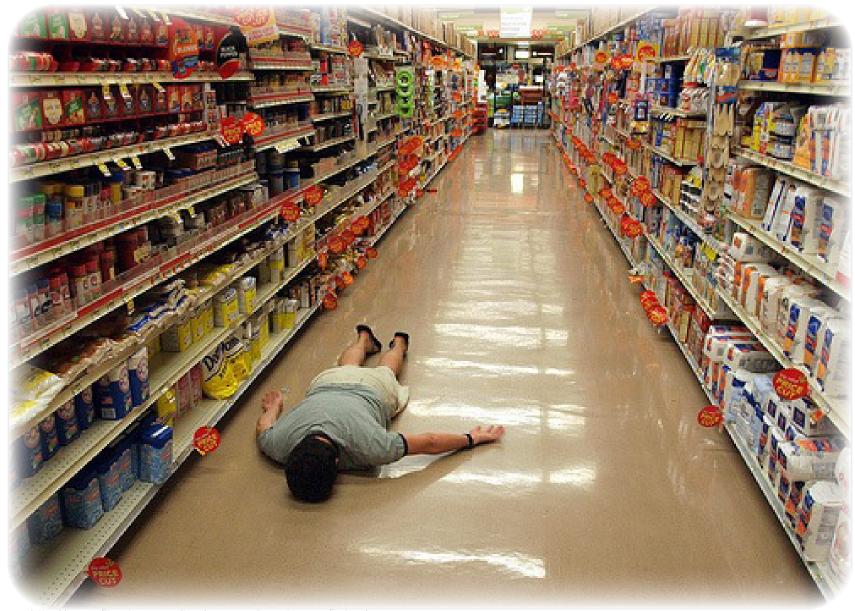
The lure of the processed foods industry took off in the aftermath of WWII when American households were thriving and began purchasing televisions. The packaged foods were brought to households around the country, and families began to view the convenience as being the epitome of American success. Since then, an epidemic has swept the world resulting in people no longer cooking wholesome meals for themselves, but opting to purchase premade, highly processed foods with no regards to what the food actually consists of. All connections with our food were severed. This has undoubtedly led to increased nutrition related issues resulting in elevated health care costs and decreased well-being.



The packaged foods industry did more than just create a sense of inadequacy among home cooks. In research we conducted we found that people's uncertainty didn't just stem from the fact that home cooking seemed too difficult and inconvenient but from a lack of trust...People no longer believe in themselves. (Shapiro, 2010)



...shopping can be...



http://www.fiterature.com/tag/grocery-shopping-confusion



In general, there is not a strong relationship between nutrient intake and income level. (Senauer, 1986).

So, when considering the true cost of cooking at home, one must remember that recipes rarely use up the entire portion of purchased food – there will be leftovers that can be prepared into different meals. This significantly reduces the cost per meal when cooking at home.

How can architecture be used as a tool to ultimately improve society's overall health and well-being?



http://www.childrens-learningadventure.com

Knowledge alone has proven ineffective in altering eating behavior, but the offering of hands-on cooking and tasting demonstrations appears to be far more encouraging.

(Horodynski, Hoerr, & Coleman, 2004).

TYPOLOGY

youth oriented culinary education center

UNIFYING IDEA

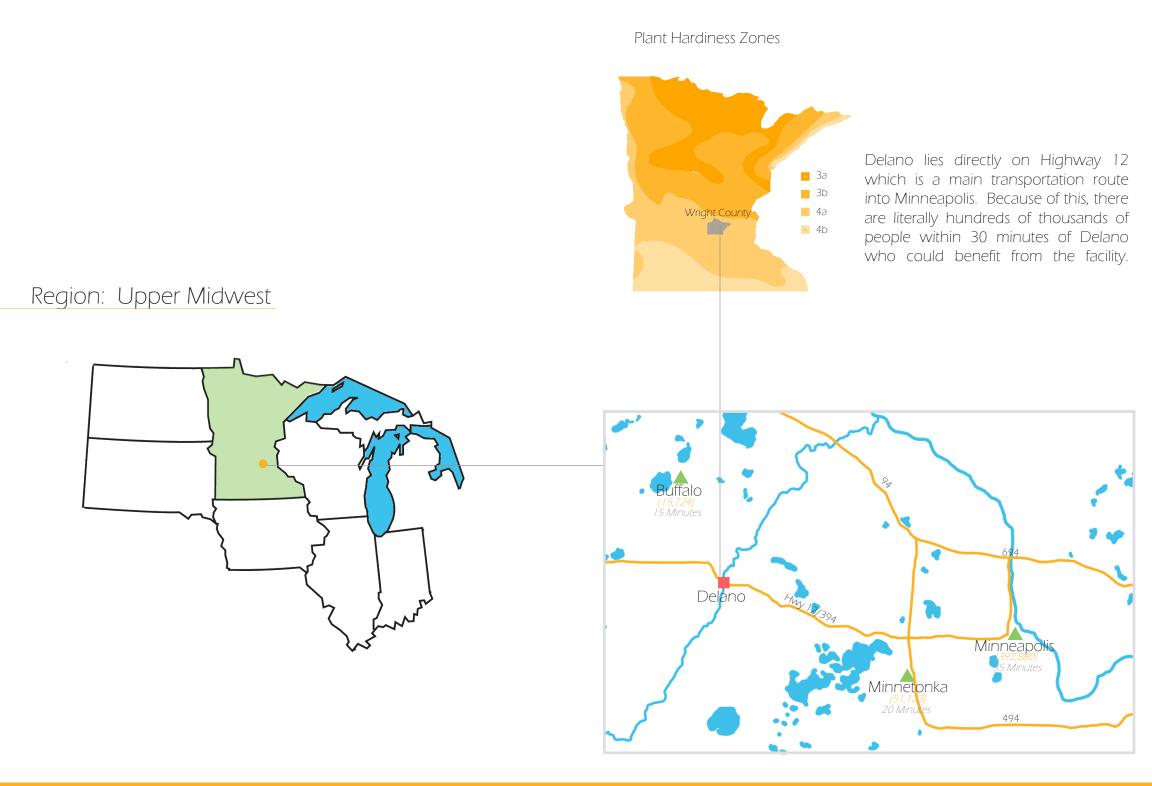
A youth oriented culinary education center can contribute to improving the health of future generations by empowering youth to make informed Gastronomic decisions before they become trapped in the cycle of "fast" and processed foods that has been branded into them by today's society.

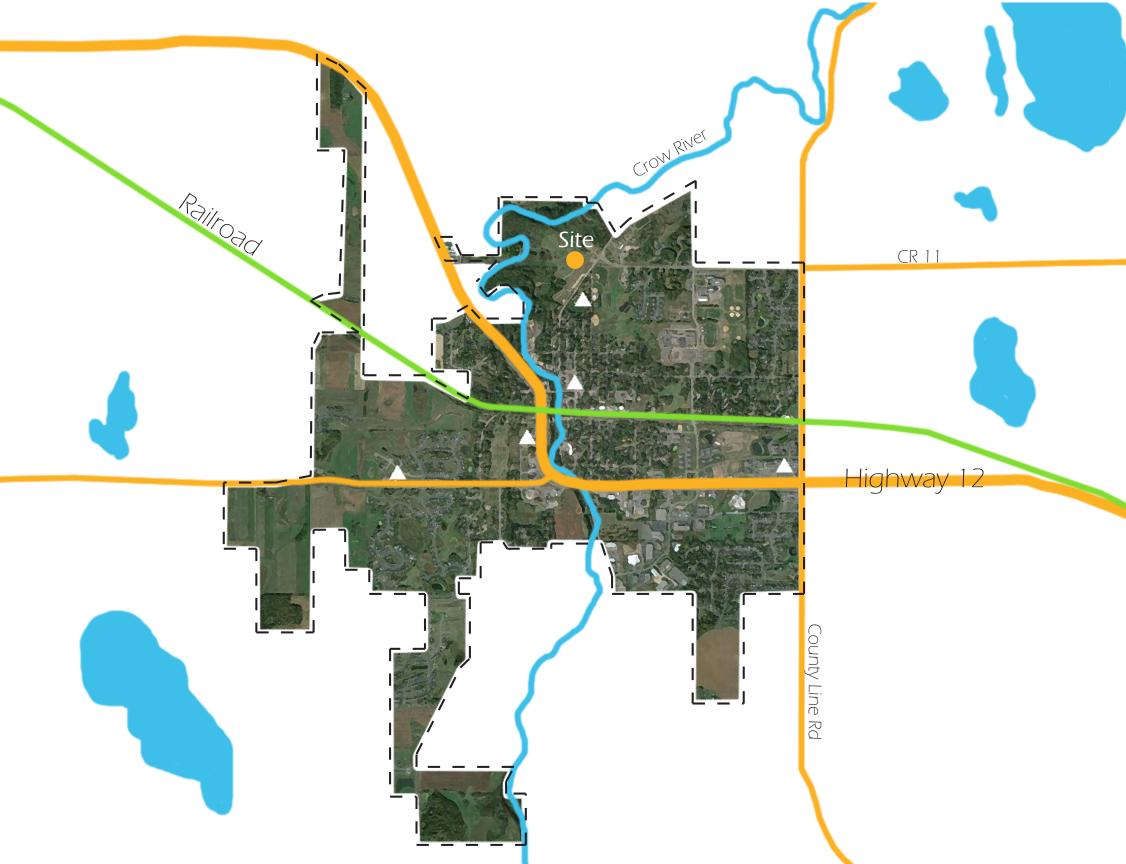
How does it fit into the existing public school education system?











Site Characteristics

- 1. Close to Delano City Park
- 2. Easily Accessible and Visible
- 3. Many potential visitors4. Close to Delano Public Schools
- 5. Large, open, and flat



Pedestrian Foot Traffic



Vehicle Traffic



Utility Traffic









Site: Micro



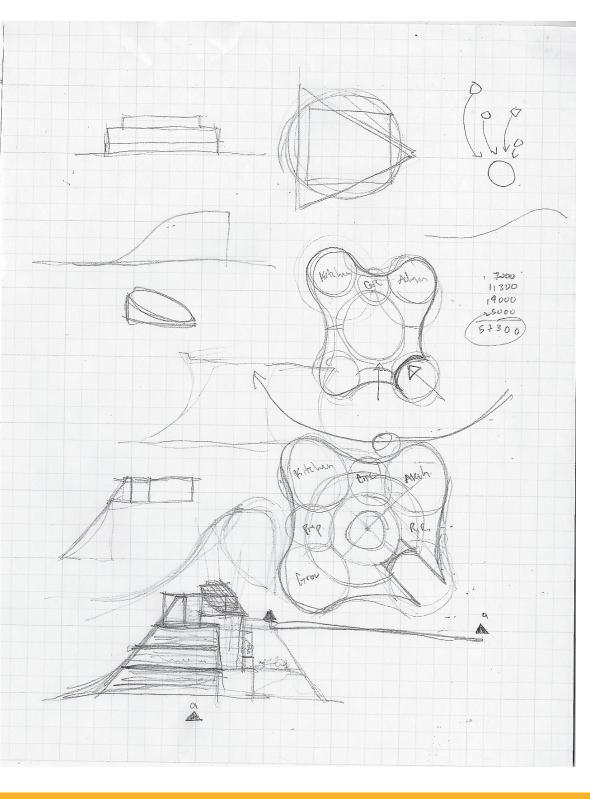




	Crop Productivity Index
106D2: Lester Loam - 12 to 18 percent slopes	67
603: Hanlon Fine Sandy Loam - 0 to 2 percent slopes	82
1030: Pits - gravel Udipsamments complex	0
1163: Suckercreek Loam - 0 to 2 percent slopes	20
1197: Suckercreek Fine Sandy Loam - 0 to 2 percent slopes	64

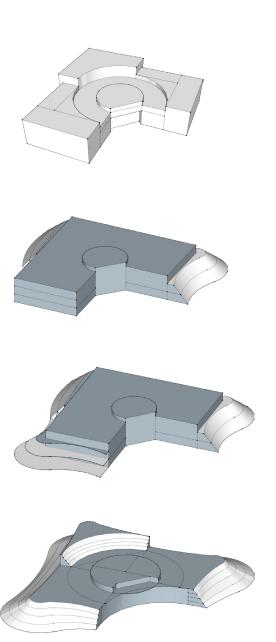


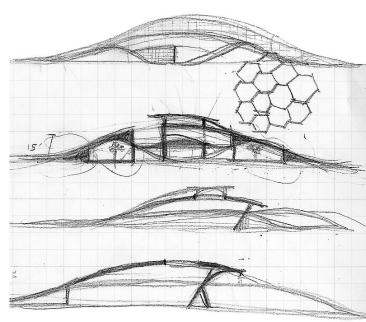
Process



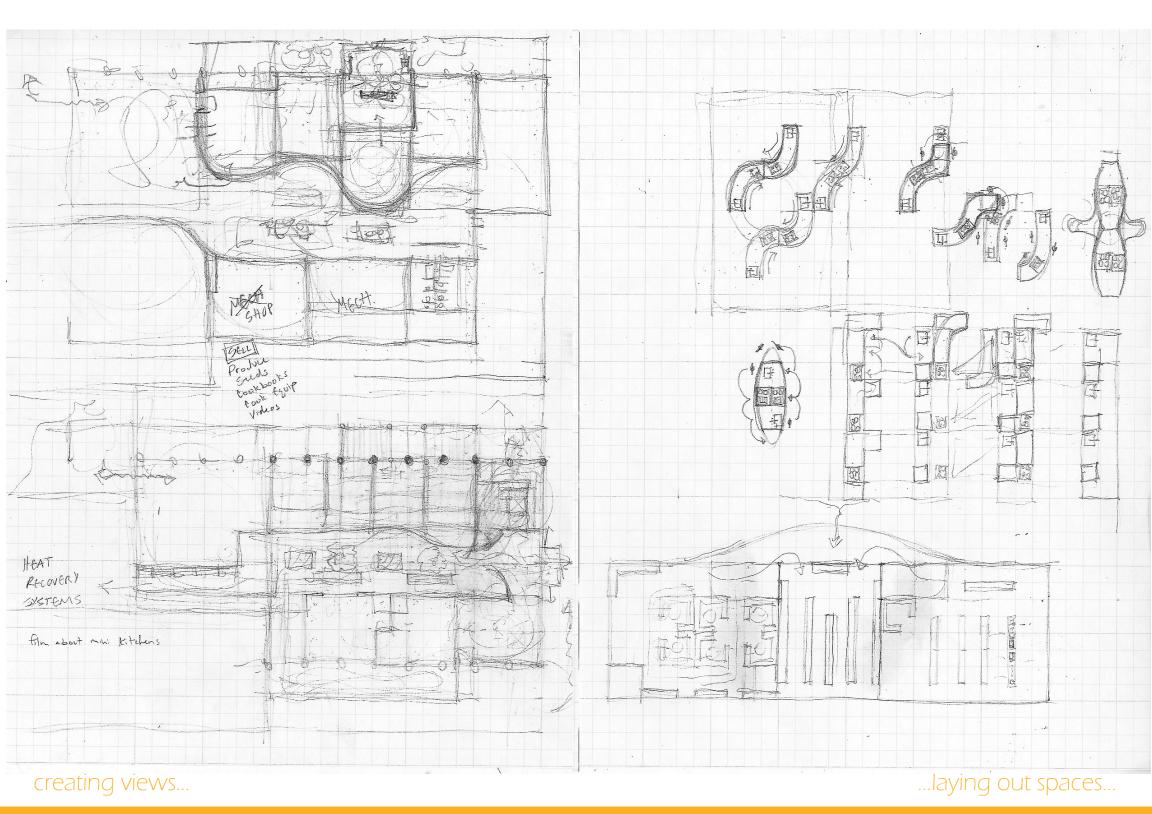
Problems with initial design...

- 1. Too tall and intimidating
- 2. Too centralized; not addressing potential views
- 3. Not addressing the site

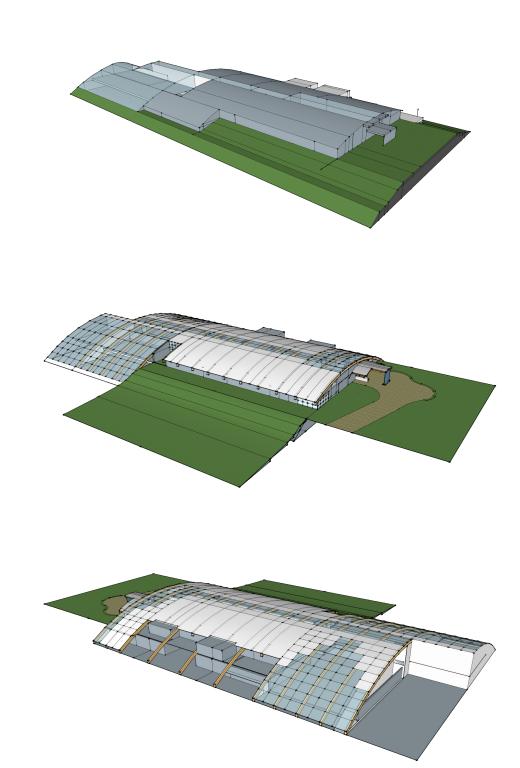




...lowering the profile...

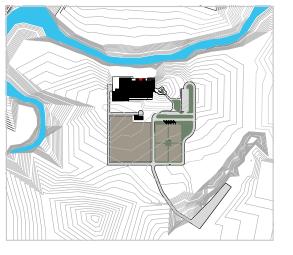


Initial problems addressed...



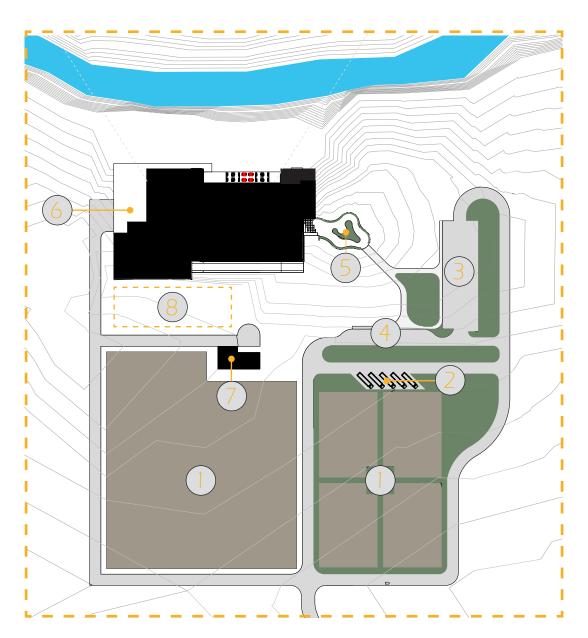
Final Design





Grow Space: 4.33 Acres

Building Square Footage: 96,000 SF



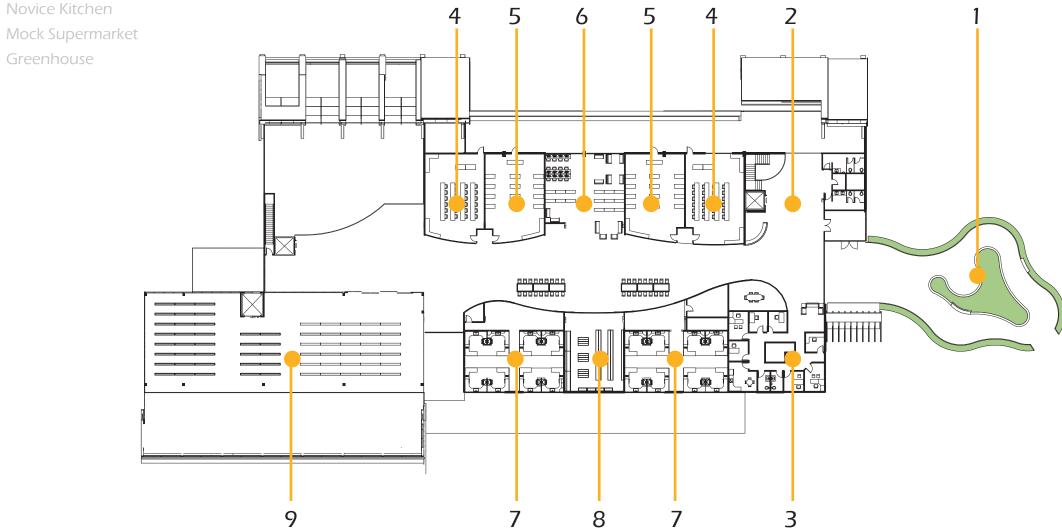
- 1 Outdoor Grow Space
- 2 Bus Parking
- 3 Visitor Parking
- 4 Drop Off Zone
- 5 Entry Plaza
- 4 Loading
- 7 Farming Storage
- 8 Farmers Market



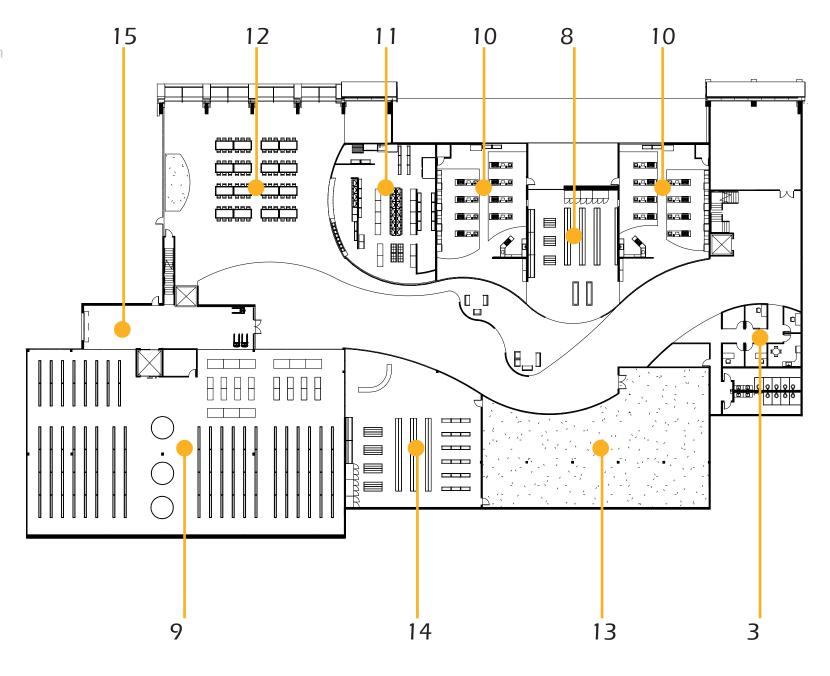


- Entry Plaza
- Reception
- Offices 3
- Lecture Classroom
- Laboratory Classroom
- Media Center
- Novice Kitchen





- 1 Entry Plaza
- 2 Reception
- **3** Offices
- 4 Lecture Classroom
- 5 Laboratory Classroom
- 6 Media Center
- 7 Novice Kitchen
- 8 Mock Supermarket
- 9 Greenhouse
- 10 Advanced Kitchen
- 11 Performance Kitchen
- 12 Multipurpose Space
- 13 Mechanical
- 14 Market
- 15 Loading





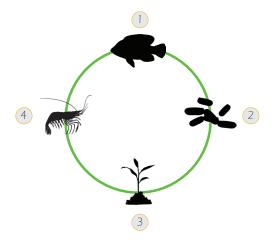


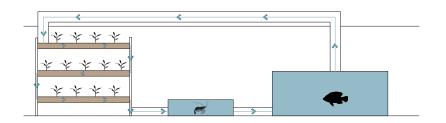


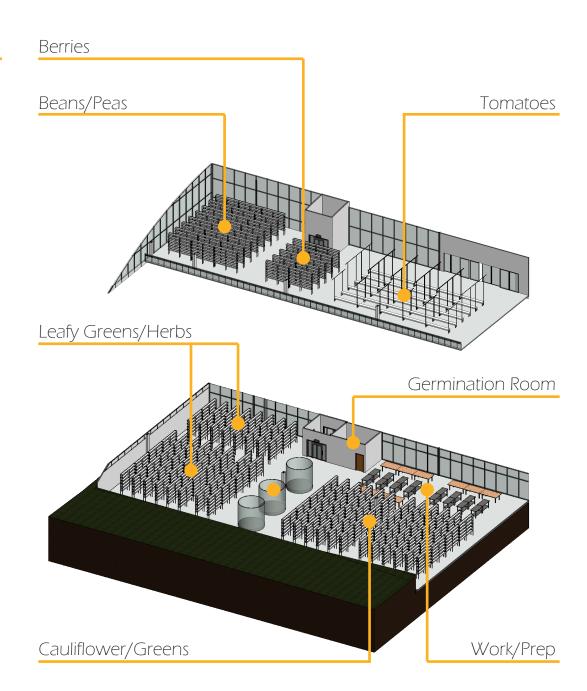
Magenta LED Lighting

- Optimum frequency for maximum plant growth.
- Supplements natural daylight

- Fish produce ammonia rich waste
- Microbes convert ammonia into nutrients for the plants
- Plants use nutrients and filter the water
- Prawns aerate the water bringing in oxygen for the fish









Novice Kitchens

Used by students to expand upon the previous information given to them. The culinary experience will teach students how to actually use the nutrition information in their everyday lives.

1 Familiar Environment

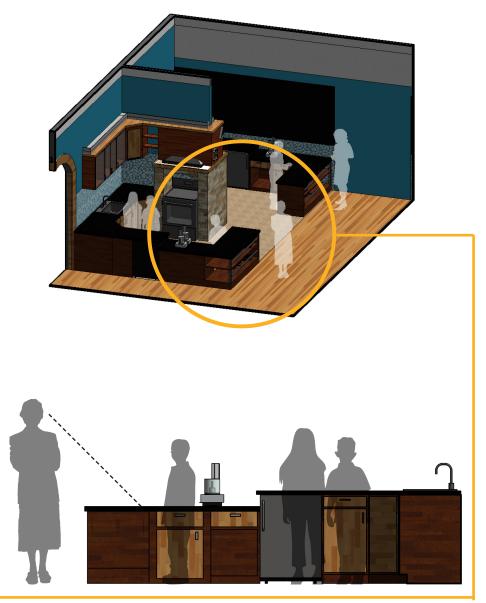
Kitchen stations designed to resemble "home" kitchen. This will help create a familiar environment for the students to help alleviate possible anxieties.

2 Lowered Countertops

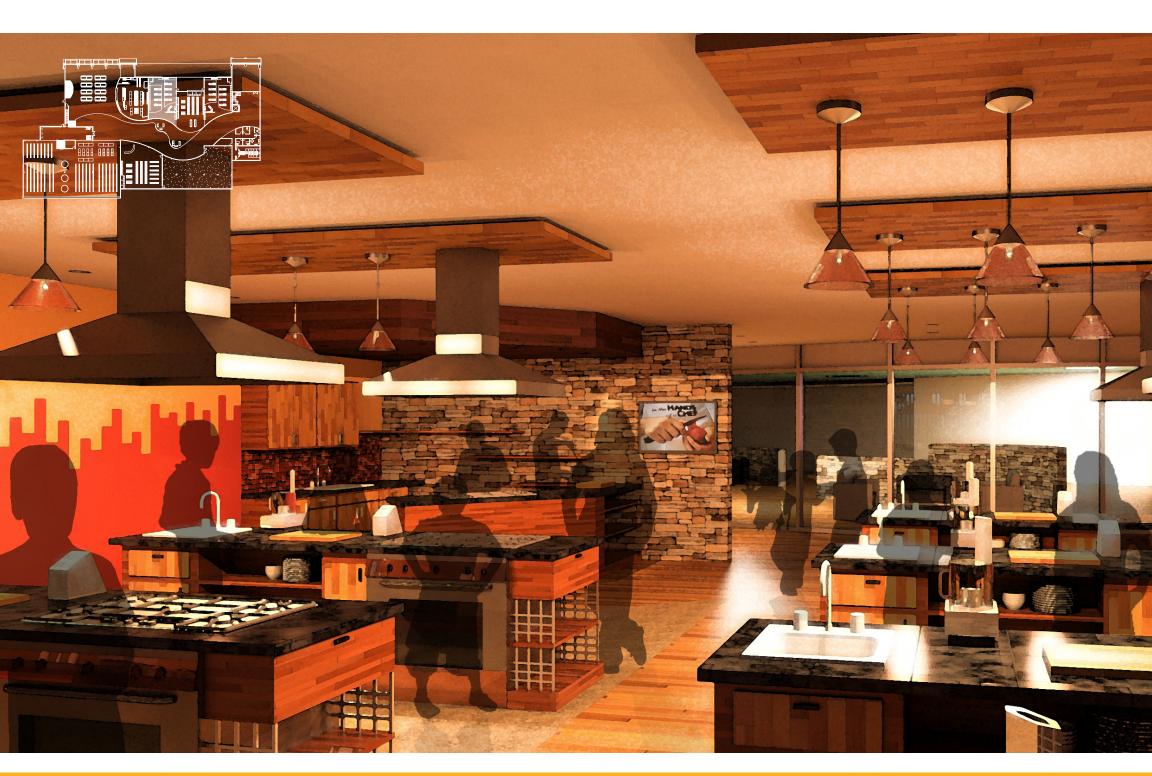
Decreases the need for stools to stand on.

3 Aisle Location

Instructors can maintain a constant view on the students as they prepare their food.



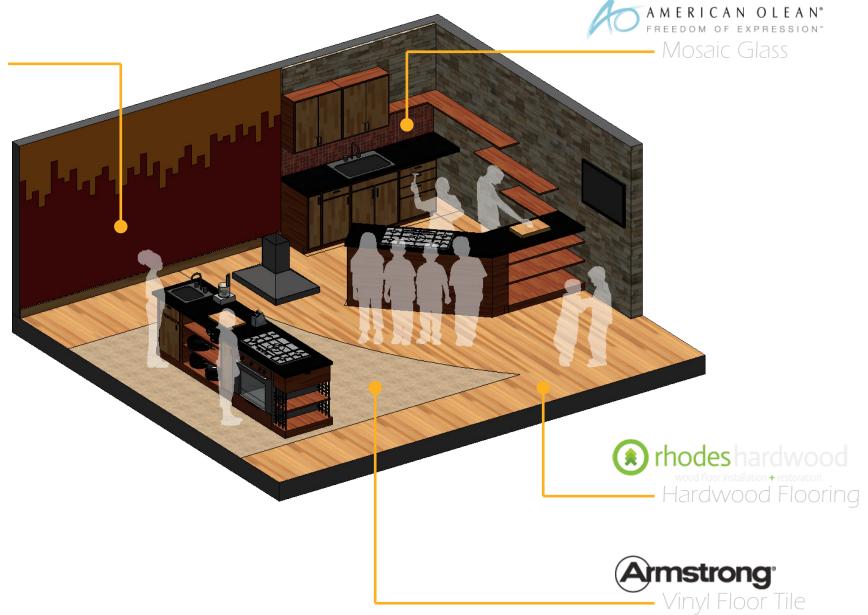
...designing for the user...



Advanced Kitchens

These are found on the bottom floor and will offer students practice in more difficult culinary techniques. The Advanced Kitchens are designed to teach students to cook efficiently in limited space.

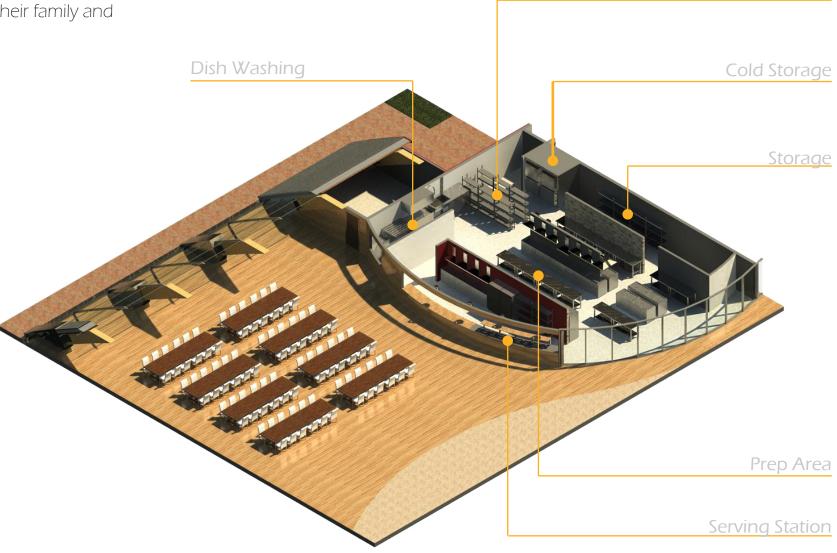
Painted CMU Wall -



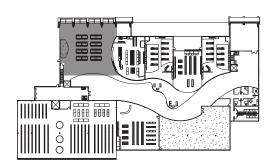


Performance Kitchen

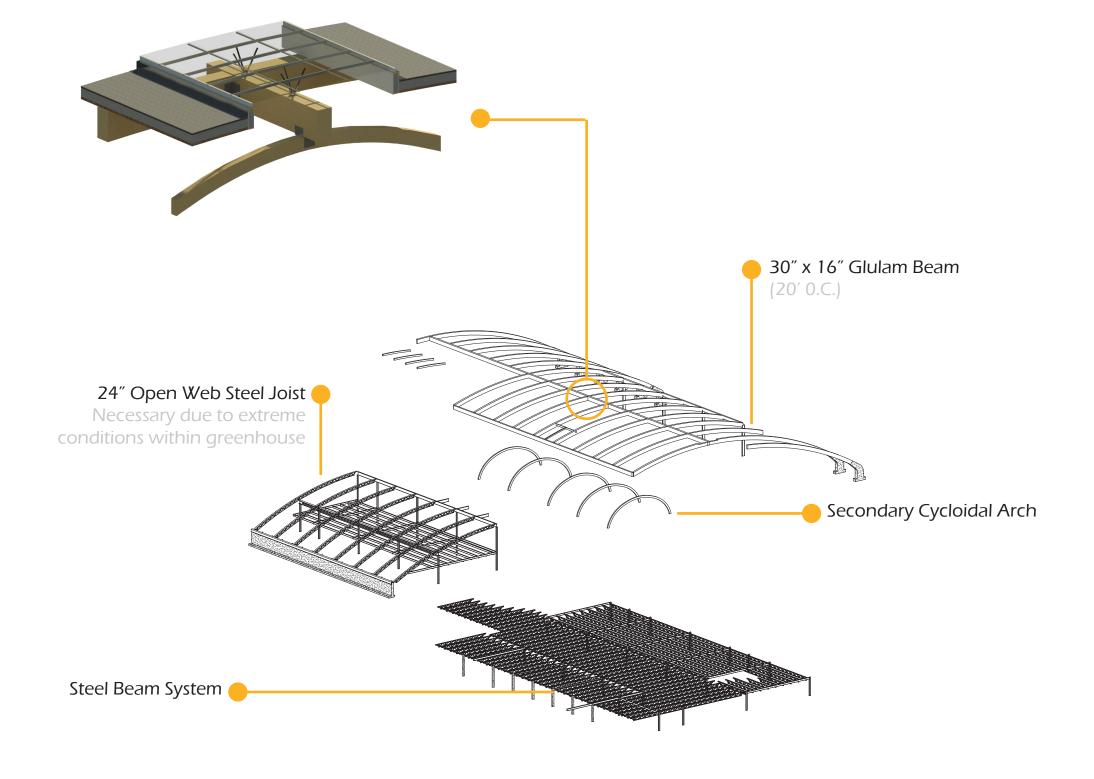
The culinary program culminates with the students putting on a cooking recital to share their newfound skills with their family and friends.

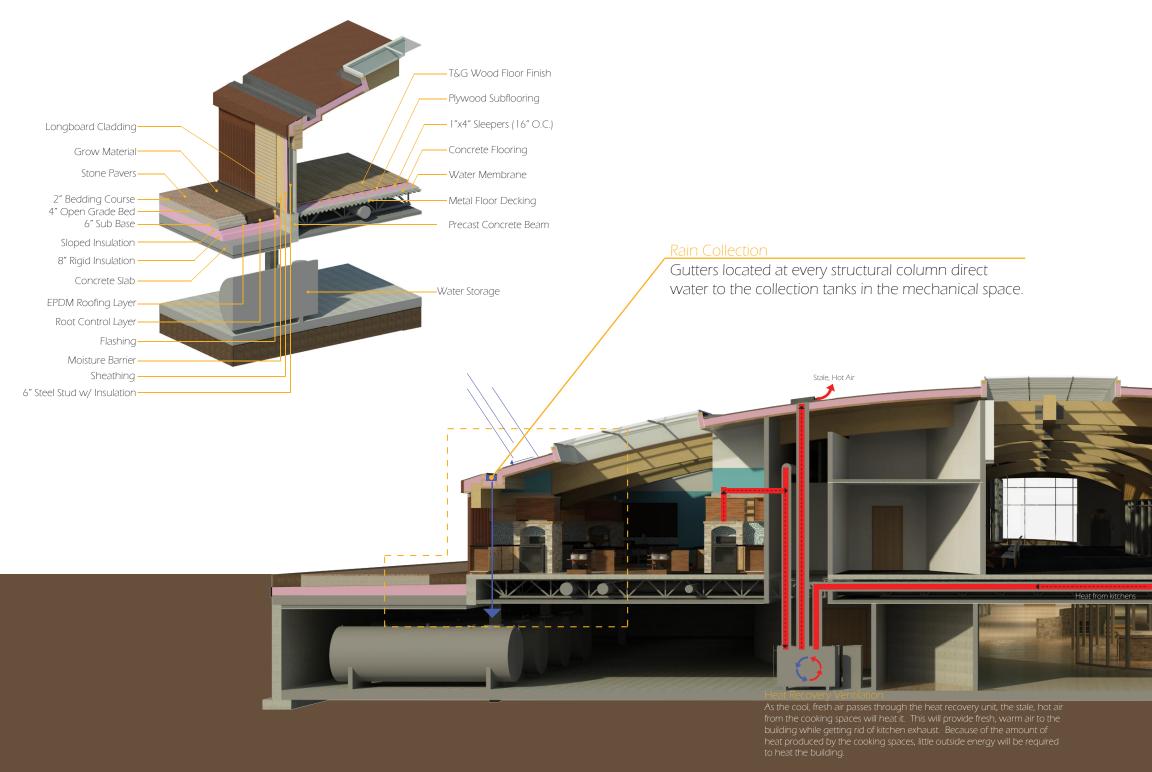


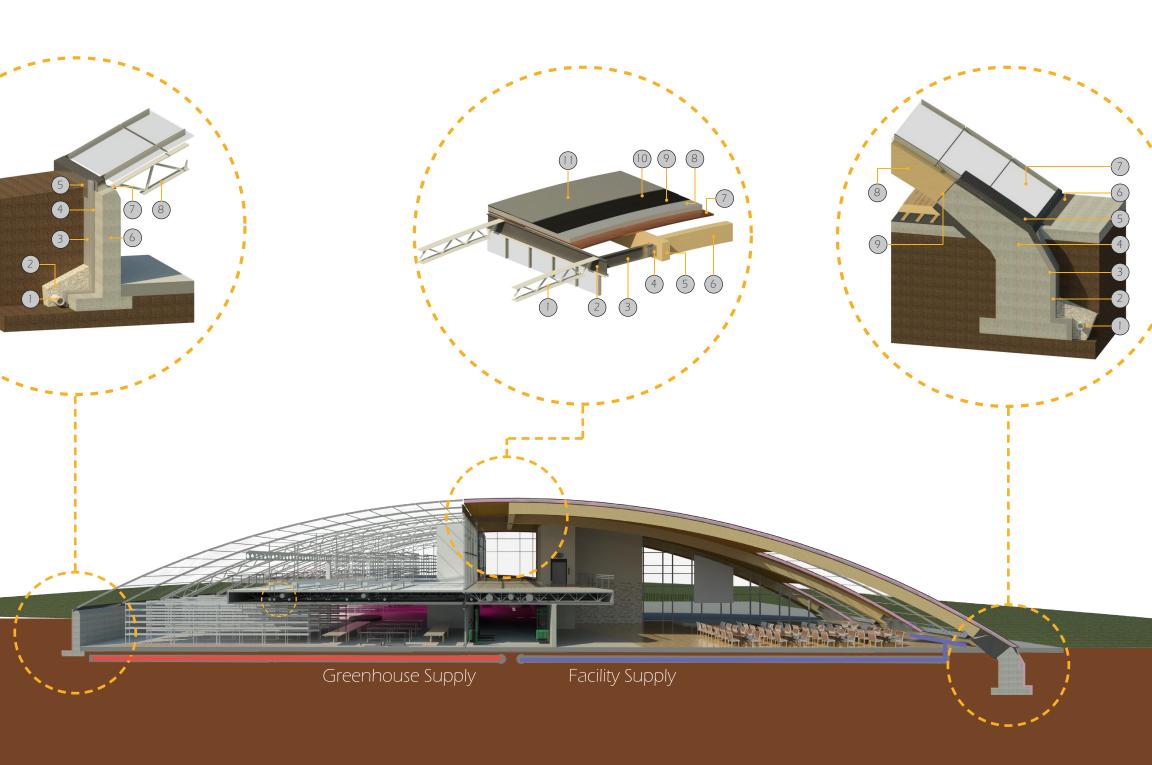
Dish Storage



Systems







It is my desire that this thesis project not only educates readers on its content, but stimulates interest producing supplementary exploration. There is a profound skill which is being lost in our lack of cooking – one which I believe should be a second language to us.

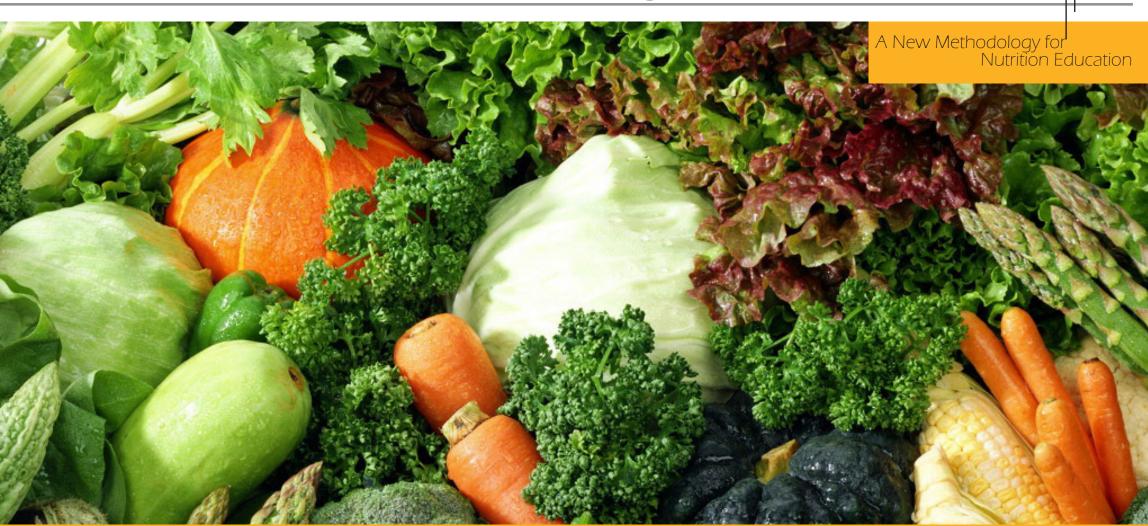
Cooking is what makes us human.







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Questions?