

# USC Sprinkles ATM Machine



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# Introductions

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# Interface Design



Figure 1: Welcome Screen

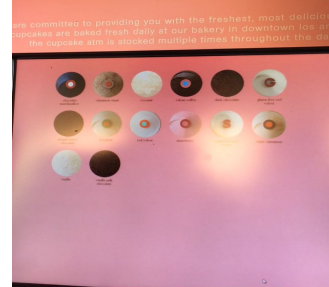


Figure 2: Flavors Screen

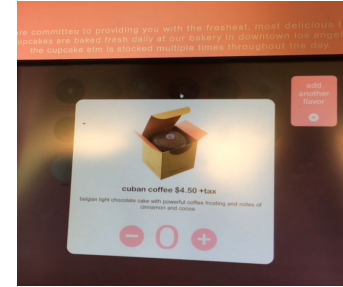


Figure 3: Pop Up



Figure 4: Flavors Selection

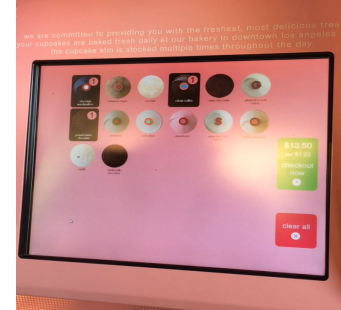
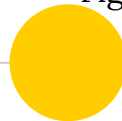


Figure 5: Flavors Quantity



# Interface Design

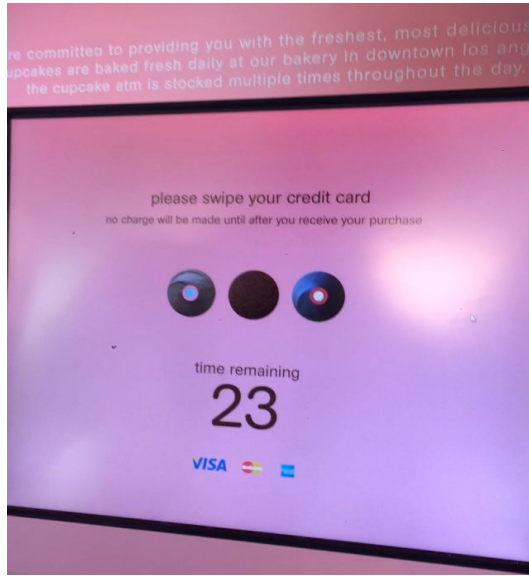


Figure 6: Transaction

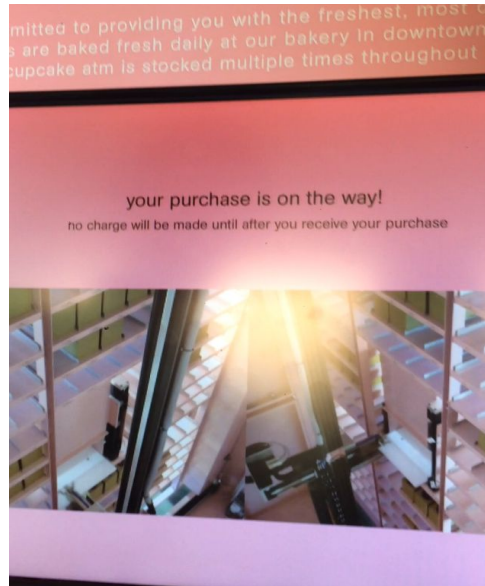
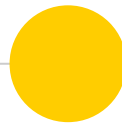


Figure 7: Purchase Handling



Figure 8: Purchase Handling



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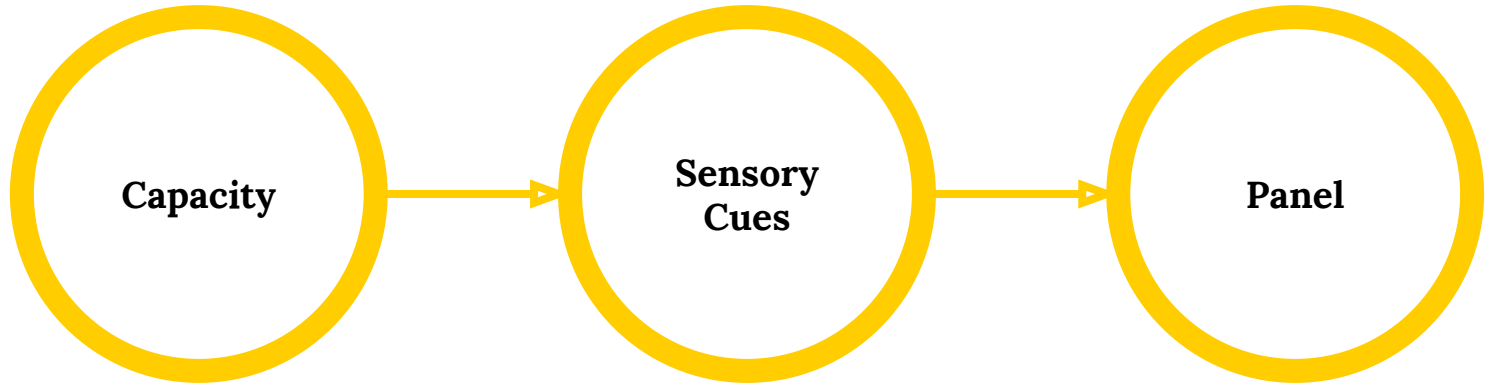
# **Design Improvements**

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## Design Improvements

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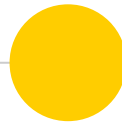
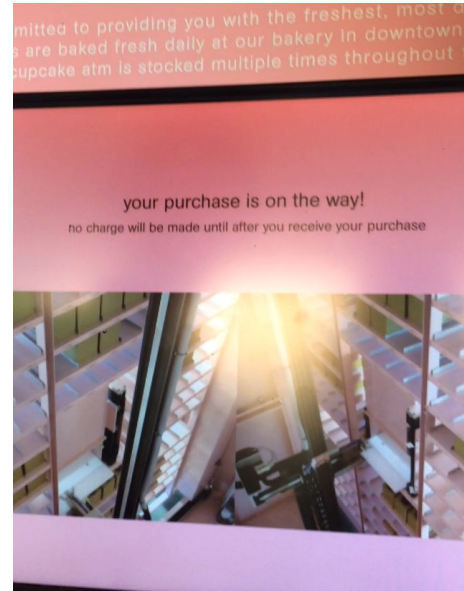
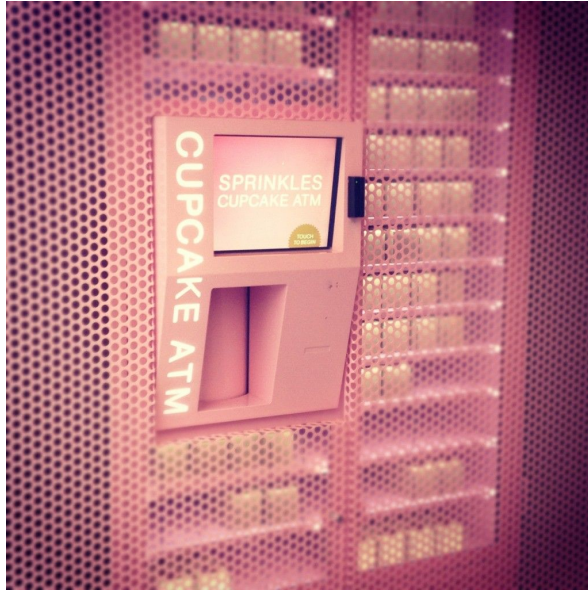




# Capacity and Speed

Capacity Increase, Capacity Transparency, and  
Decreased Cycle Time

# Capacity







## Speed Factors

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Decrease  
Decision  
Making Time

Cutting down  
53 second time  
gap

Decrease  
Machine  
Response Time



## Decision Making Speed

### Choosing the Cupcake

The problem with the USC Sprinkles ATM is that it is too small and difficult to read which wastes time in deciphering what cupcakes are which

Solution:

Scroll Through

Magnified Screen

### Choosing the Quantity

The plus and minus system of ordering quantity is inefficient

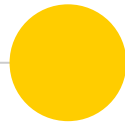
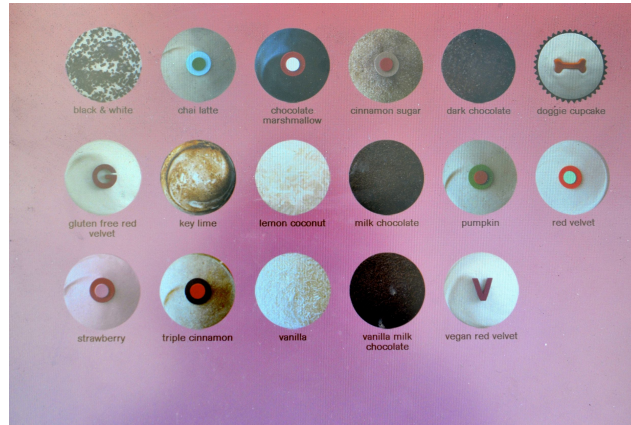
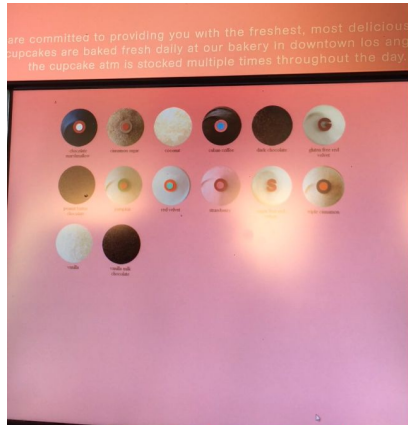
Solution:

Click to Increase

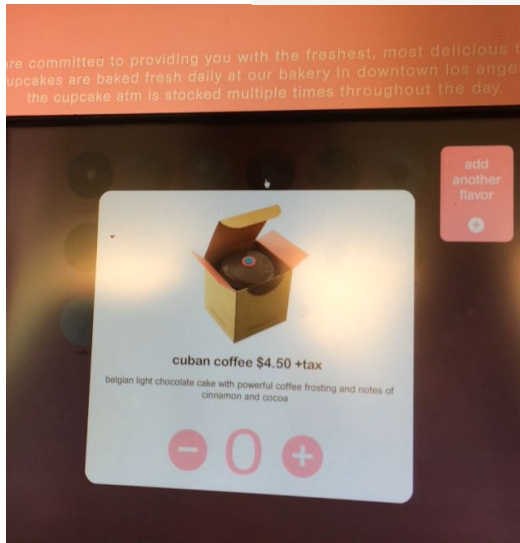
Sliding Scale Button



# Choosing the Cupcake



# Choosing the Quantity





## Machine Response Time

### Retrieving the Cupcake

The vacuum / claw way of doing it is too slow for multiple orders.

Solution:

Vending Machine  
Mechanics





# Sensory Cues and Language

Auditory Cues, Physical Cues and Increased  
Language Options



## Sensory Cues



- Visual impairment: **audio**
  - Synchronization of screen text + audio output

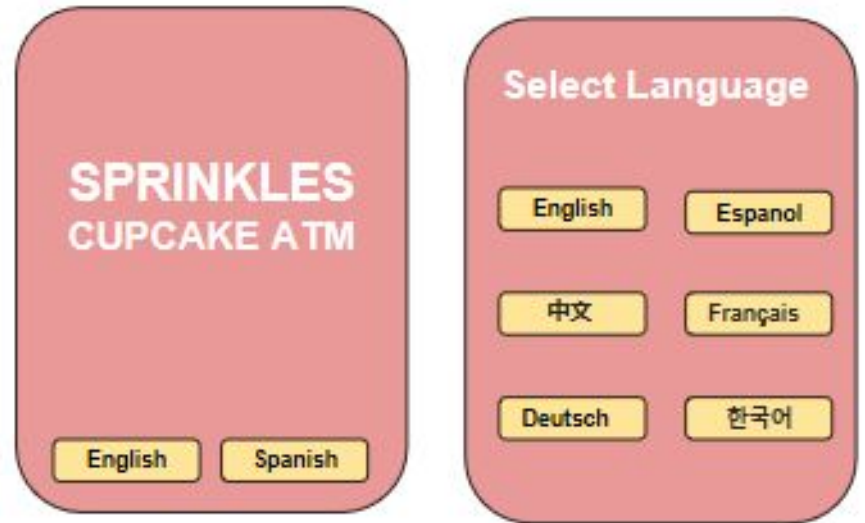


- Eyesight loss: **physical**
  - Synchronization of screen text + audio output + braille



## Language

- LA most diverse city - 1/3 Hispanic
- USC- greatest international student population







# Layout Changes

Cash Utilization & Panel Design



## Cash Utilization

- Increases ATM versatility
  - Better user experience





## Panel Design

- ◉ Front Facing touchscreen
  - Not tilted inwards
- ◉ Improves usability for:
  - Physically disabled
- ◉ Sleek Design

