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# Constraints, Discoverability & Feedback

MIS3506\*Spring 2024

# What is a Constraint?

- A limitation or restriction
- A control that limits or restricts
- Something that keeps you within a particular limit
- Limits the number of choices that a user can act upon
- Leads to a smoother, more functional product within given parameters

## What is a Constraint in User Experience?

#### **Client Specific**

• Brand, Logo, Guidelines, Attitude

#### **Project Specific**

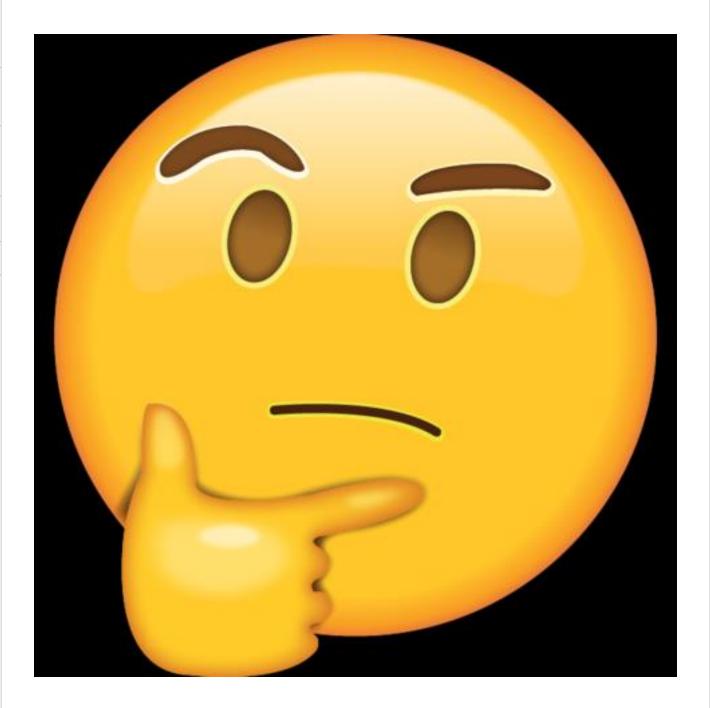
- Timeline, Budget, Goals
- UX Smooth

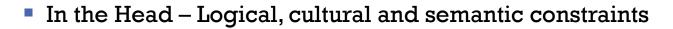
#### Accessibility and Clarity

- Compliance
- Privacy

# Is a Constraint always Bad?

What do you do when you have to operate something you've never used before?







#### In the World – Physical Constraints

Knowledge

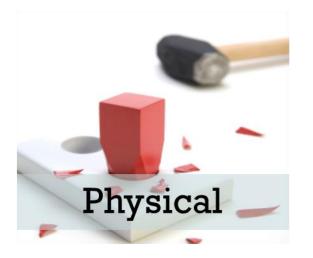




### How do you turn that into this?



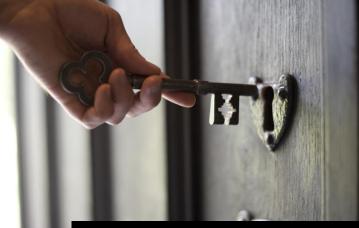
## Constraints







Constraints let people readily determine proper course of action, even in a novel situation (Norman, p. 125) Type A Plug comes From a computer, to bring the USB connection to the monitor for the HUB in it This Photo by Unknown Author is licensed under <u>CC BY-SA</u>



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### Physical Constraints: Limit the possibility of operations with physicality, highly visible





## Cultural Constraints: Conventions Shared by a Cultural Group

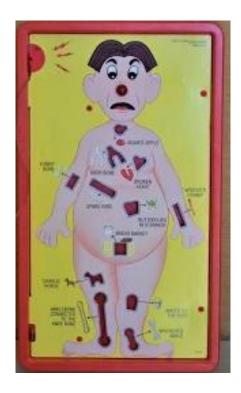








### Semantic Constraints: Rely on the Meaning of Situation to Control the Actions



	Style 1
DOB Enter the date of birth	DD / MM / YYYY
	Style 2
Date of Birth Date format DD/MM/YYYY	_/_/

### Logical Constraints: Make use of reasoning and logic to determine possible actions



#### **Technical Constraints**

- Platform Limitations
- Browser capabilities
- Device Constraints



Business Constraints

- Budget & Resources
- Brand Guidelines
- Deadlines

## Additional Constraints



User Constraints

• User Literacy

- Accessibility
- Complexity/Cognitive Load



Content/Legal Constraints

- GDPR/CCPA/ADA Compliance
- Content localization text size for languages

#### Constraints – some thoughts to consider

Logical constraints = good conceptual model

Logical – Tell a user to select 5 things & only 4 are readily visible – what does that tell the user?

Cultural – scroll bar on the right – what does that tell the user?

Physical constraints make some actions impossible: there is no way to ignore them. Logical and cultural constraints are weaker in the sense that they can be violated or ignored, but they act as valuable aids to navigating the unknowns and complexities of everyday life.

Semantic constraints – one part conditions what the other part is likely to be

## Handling Constraints in a Design Project

- IBIT project experience: designing a website for a local bakery
- Needed to make sure the platform could be integrated with Clover (the client's current POS system) and Hazlnut (the ordering system associated with Clover)
- Google is your friend—do your RESEARCH!



-	Sweet Potato Bun (dozen)	\$6.60	
	Kind: Bun	Qty	1
AMAGAS	*	122	
To check out	, your order subtotal must be \$10.00 or		move
	, your order subtotal must be \$10.00 or	more.	
To check out Subtotal Tax	, your order subtotal must be \$10.00 or	more.	move 6.60
Subtotal	, your order subtotal must be \$10.00 or	more.	6.60

#### Schedule a Lesson - Gibson School of Music and Arts

Please fill out this form to request a virtual lesson. We will call you back within one business day to schedule your lessons.

NOTE: In response to COVID-19, we are hosting sessions virtually for the health and safety of our students. Also, we continue to offer private music lessons and classes at GMA School following the CDC guidelines.

#### \* Required

Email address \*

Your email

(!) This is a required question



## Feedback

- The information that you give your users about the effect of the action they've taken or the state of the request they have submitted
- The visible response that one gets from performing an action

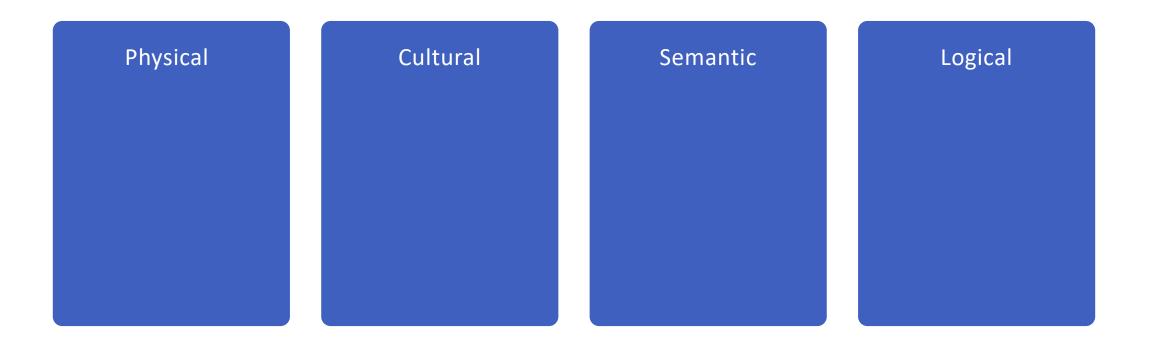
Characteristics of Good Feedback

- Specific concrete and relatable
- Timely (immediate!)
- Appropriate
- Focus on the Behavior
- Descriptive
- Not judgmental
- Accurate
- Enhances does not leave the user wondering what happened



## Constraints

In Teams: Define each of the constraints in your own words and provide an example for a digital experience



# ICA Breakout

Design three interactions with constraints for your new UX

