KNOWING WHAT TO DO: CONSTRAINTS, DISCOVERABILITY AND FEEDBACK

DESIGN OF EVERYDAY THINGS-(DON NORMAN) CHAPTER 4

Presented by: Safal Shrestha

09/07/2022

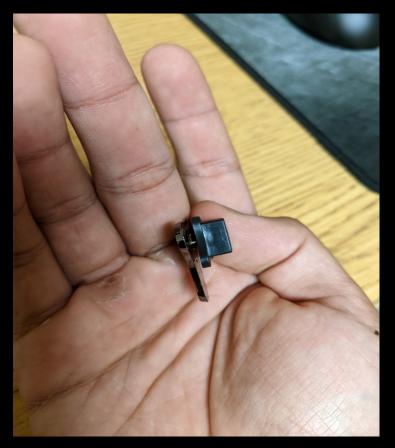




Cinestill Enamel Pin Example

- What helped?
- Visual identifiers
- Physical constraints

A similar pin that follows a better design.



What are Constraints?

- Constraints are powerful clues, limiting the set of possible actions.
- Good use of constraints = Easy to understand what affordances are possible.
- Limit unnecessary elements from our design.
- Goal to direct the user towards understanding the way to operate the device.

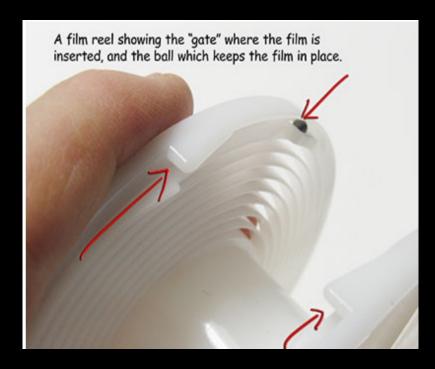
4 Kinds of Constraint

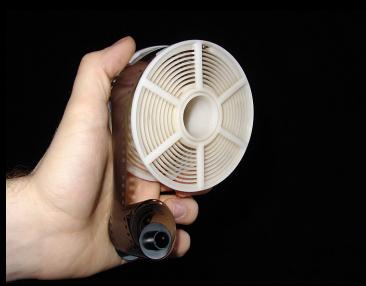
Physical

Cultural

Semantic

Logical





Physical Constraints

- A physical constraint is a physical limitation that constrains possible operations.
- Film loading spool
- Film is loaded in complete darkness.
- Physical constraints are a must for easy loading.





- Cultural Constraints are certain actions that are allowed by some cultures and some that are not.
- They vary by the culture.

Cultural Constraints

Another Example of Cultural constraints: Driver seat in Asia vs Driver seat in the North America





Logical constraints

- Logical relationship between the spatial or functional layout of components and the things that they affect or are affected by.
- Things that make sense logically.
- Like in the stove example from the previous chapter where mapping also plays a role.





Constraints that force Desired behavior

- Interlocks
- Lock Ins
- Lockouts

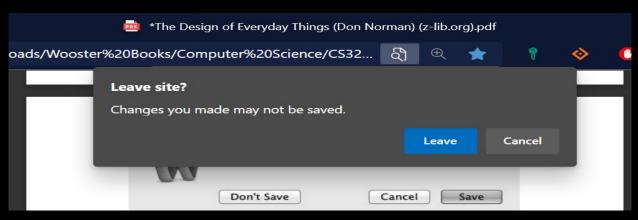
Inter Locks

• An interlock forces operations to take place in proper sequence. Examples include Microwaves forcing functions to prevent people from opening the door by cutting off power.



Lock Ins

• A lock-in keeps an operation active, preventing someone from prematurely stopping examples include Microsoft office applications asking whether we want to quit without saving our work. Console platforms making games and features exclusive to them.







- Conventions are a special kind of cultural constraint. For example, the means by which people eat is subject to strong cultural constraints and conventions.
- Affordances are the potential actions that are possible.
 - Conventions can clash with change.
 - Change is not always received well.



- If all else fails Standardize!
- Simplify everything by remaining consistent.

THANK YOU