# **Our Famous Punching Bag – Usability Issues**

# Flat Style Reduces Discoverability

Where can you click? Everything looks flat, and in fact "Change PC settings" looks more like the label for the icon group than a clickable command.

- Low Information Density
- Amount of Info projected on a window is drastically reduced.
- Overly Live Tiles Backfire
- ✓ Misuse for all apps results in apps being not recognised!



### **MORE ON USABILITY**

### Some of the key factors affecting Usability are

- Format of Input
- Feedback
- Visibility
- Affordance added by Donal Norman/
- Affordance of an object --sort of operations/manipulations that can be done on or to it.
- Examples such as A door affords opening
- Visibility mapping between control and its effect. Eg. Cars
  have good designed controls steering wheel has only one
  functionality good feedback easy to understand
- Really bad ones follow......

#### **MORE ON USABILITY**

- Mobile Phones and VCR's score poor on visibility front
- There is little visual mapping between control and user goals
- Also controls have multiple functions...
- Who can miss out the Set Top Box Remotes!!
- \* Elders have simply lost the charm of watching TV...
- And to make things worse....multiple designs with functionalities being supported not in a consistent manner...
- One more interesting case How many of us read the **product** manuals given with products such as phones, washing machines, etc.
- \* Golden Theory in Design -Blame the Design, Not the User

- It is the Duty of Machines and Those Who Design them to Understand People –Don Norman
- Bad UX and UI Makes Users Blame Themselves
- \* User hate uncertainty, and do anything to escape it, as quickly as possible— even if it means lying to themselves.
- Design isn't about pushing pixels. It's about advocacy.
- it's not about the user understanding technology, but about the technology (and those who create it) understanding them
- Design is a CONFIDENCE GAME
- Plenty of Success and Failure Stories! what better example than Google Search Engine for Usability. Many who visit sites via google even when they know the exact url! That sums up Google's Popularity and Usability

# **Disciplines Contributing to HCI**

- Computer Science technology, software design, UIMS, etc.
- Cognitive Psychology information processing capabilities, limitations, etc.
- Social Psychology Social + Organizational structure
- Ergonomic and Human Factors Hardware Design, Display Readability, etc.
- Linguistics Natural Language Processing
- Artificial Intelligence intelligent Software
- Engineering & Design Graphic Design, etc.
- **.....**

### Some of the Issues / Factors in HCI

ogs in Hel:-Organisation Factors Engranmental Factors Training, job denym, politics Noise, heating, lighting roles, coak Organisation Ventilation Health and safety The User Compat factors Fuctors Cognitive Procus- capabilities seating / Eapont Motivotion, satisfuction layout experience, personalty User Interface Input derices, of derices, dialogue smelling, use of Colorer, icons, Commands, rangutors grythigs, rational lagrage, wer grygnt Task Fuctors fary, complex, novel, task also certify, monthing 8kill Constraints God, Ame States, hudgets, staff, exports bldys System functionality
Hardware / Software / Application Productinly Factors Increase ofp, Increase Oity, Decrease Wists. durease erusi, increase innovating