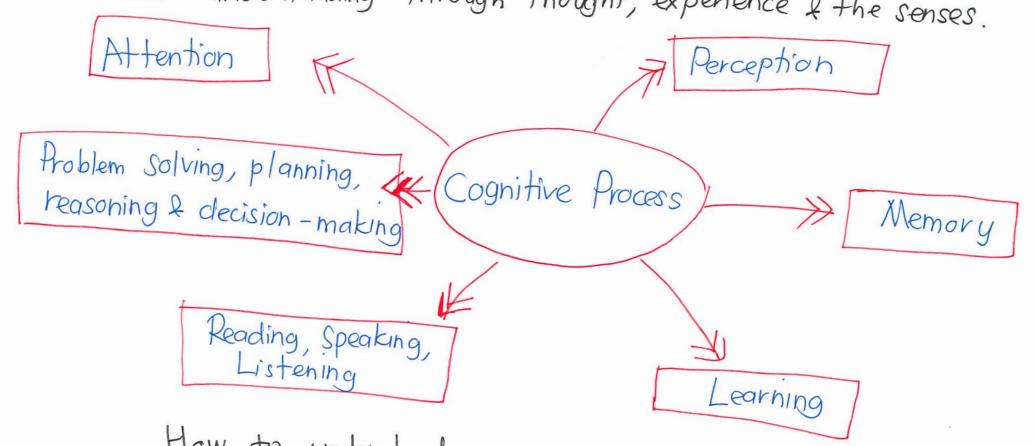
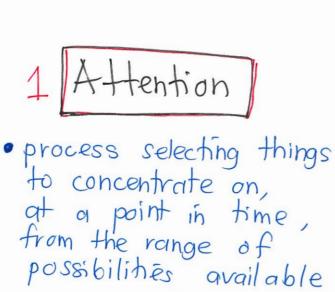
# 4: UNDERSTANDING USERS

Cognition the mental action/process of acquiring knowledge & understanding through thought, experience & the senses.



How to understand users, esp. their cognitive aspects.



## Perception

· how info is acquired from the environment via different sense organs reyes & transformed

fingers into experience of obj, events, sounds & tastes

> Vision Hearing Touch

auditory attention

es. waiting dentist

waiting room

visyal attention

> eg. Scanhing football results. checking team winning

for name to be called out to know when it is our time to go in

- allows us to focus on info that is relevant to what we are doing

90915

info presentation

info salient color techniqus -

(ognition

avoid too much info search engines

under lining ordering spacing

bordering 2 spacing

con

Soundaudible Speech o/p

text legible e distinguish from background

# Memory

· recalling various kinds of knowledge that allow us to act appropriately

Filtering - what info gets further processed & memorized

Recognizing things

learn through doing

· GUI & direct manipulation interfaces -> active learning

traditional techno interactive techno

 $\rightarrow$  web - based

- e-learning

- multimedia

Design implications

-) interface r

constrain f guide

users to select appropriate actions

Slink concrete representation f abstract concepts

Cognition

not overload users memory with complicated procedures

interface recognition <

-icons -consistent placed obj

variety ways of encoding digital info categories (files, emails, images)

- tagging

-time stamping

- Icohs

### Reading, Speaking, Listening

#### forms of language processing

Cognition

Design

minimum length of speech-based menus finstructions

accentuate intonation of artificial generated speech voices

text large on screen

Problem Solving, Planning, Reasoning & Decision Making

reflective cognition what to do what options what consequences

Design

add hidden info es web searching

simple + memorable functions at the interface