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# Levels of Processing Theory

### Levels of Processing

- · Information can be processed to different depths or levels
- · Replaces old theory of 'rehearsal'
- Shallow processing
  - Stimulus analysis, physical properties such as a word's sound
- Deep processing
  - Semantic analysis (meaning)
  - familiarly
    imagery
- · Deeper processing provides stronger storage of item in LTM

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# Levels of Processing Theory Applications

### Game: Name that Unix Command

- cat
   catenate rare English word types file on screen
- grep
   <u>global regular expression and print</u>
  - list as in "list files" or "list directories"
  - analogy: shreds of fiber from clothing = debugging
- mv
   move refers to computer concept
  - print (2/3 letter abbrev.) formats but does not print
  - Ipr line printer (anachronism)
  - A, W, K acronym for authors of program
- perl
   PERL <u>p</u>ractical <u>e</u>xtraction and <u>report language</u>

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• ls

lint

• pr

Ipr

awk

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## Distributed Cognition (Hutchins, 1995)

- Cognitive activities are embodied and situated within the work context in which they occur
- · Functional system -
  - individuals
  - setting
  - social context, organizational structure
  - compter systems and technology
- · Suchman (1987) Plans and Situated Actions
  - ethnomethodolgical analysis of novice user and Xerox machine
  - "situated" cognition, cognition is in a social context

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