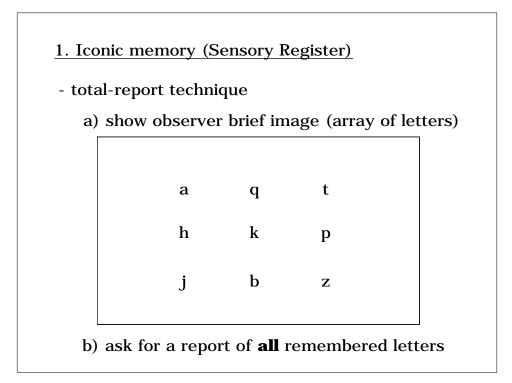
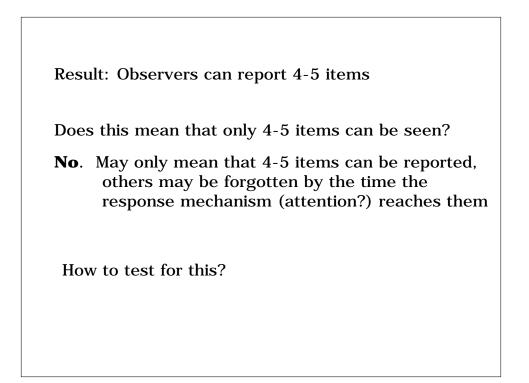
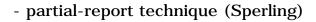


1. Visual Memory Systems
Three different kinds of memory systems:
 sensory register a "copy" of incoming stimulus only lasts for a short time
 2) short-term memory (STM) - a few important "chunks" of information - lasts as long as attention is given to it
3) long-term memory (LTM) - knowledge about the world (events) - lasts indefinitely

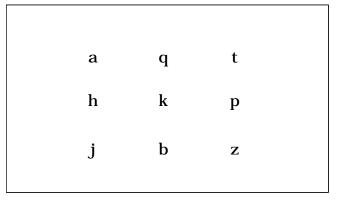




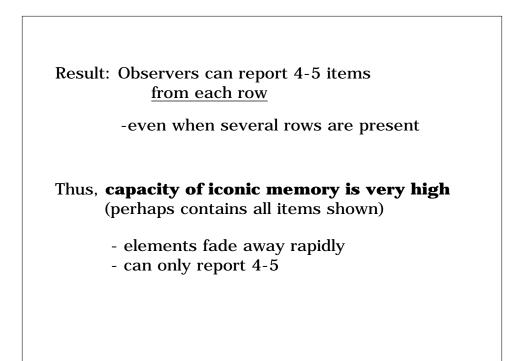


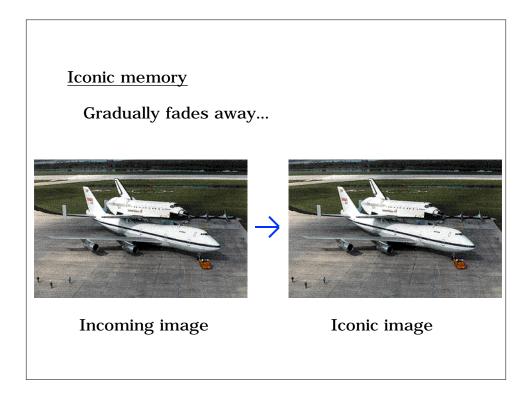
a) show observer brief image (array of letters)

b) signal one row via tone (high, medium, low)

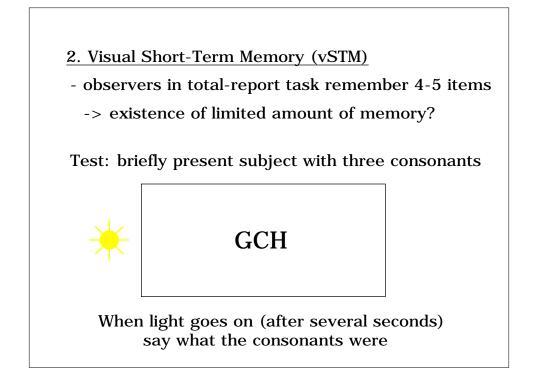


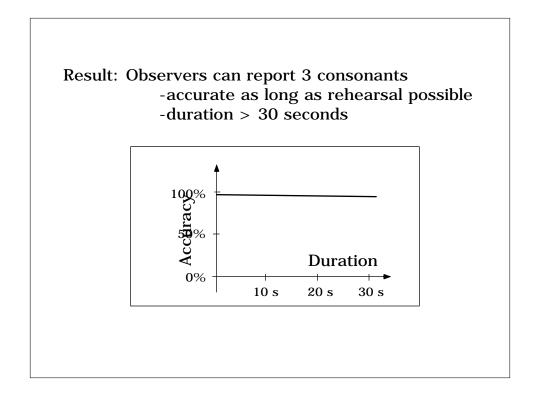
c) ask for a report of letters in **signalled row**

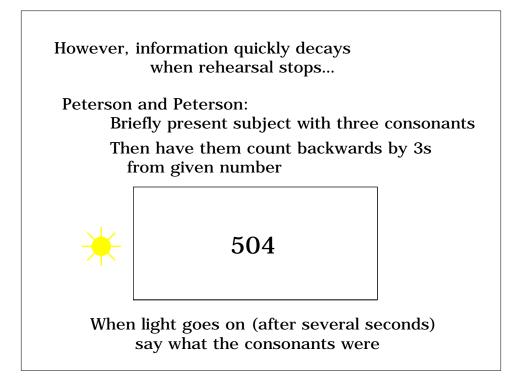


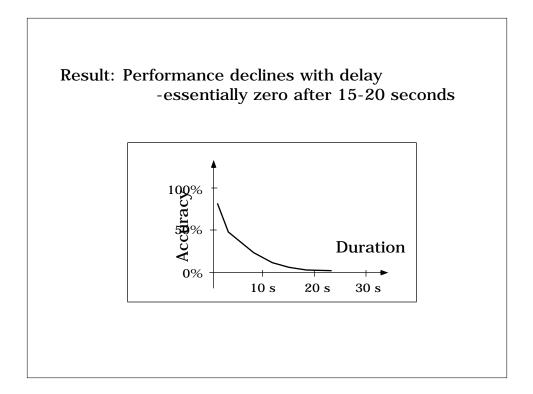


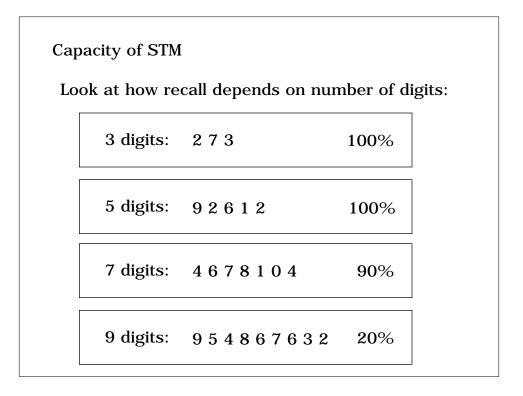
Iconic memory - a copy (photograph) of input		
Sector, or input		
literal copy		
very high		
preattentive (automatic)		
200-500 ms		
n: impossible		

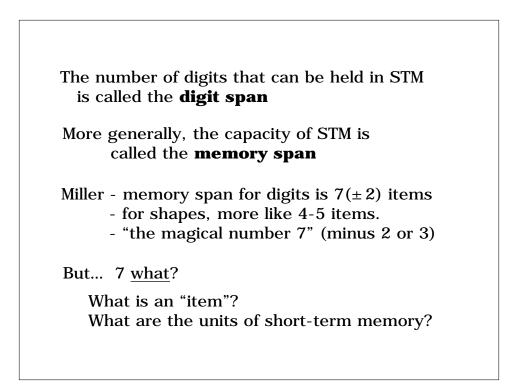


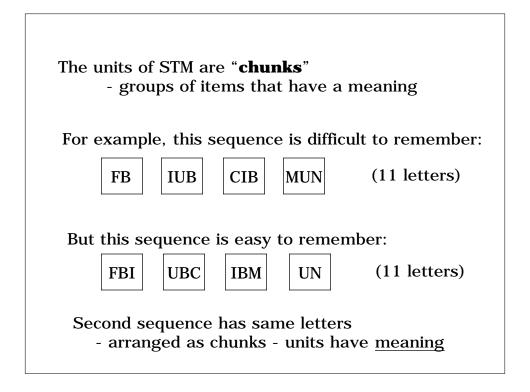


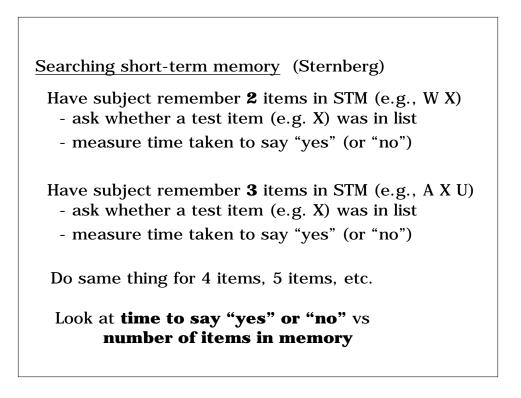


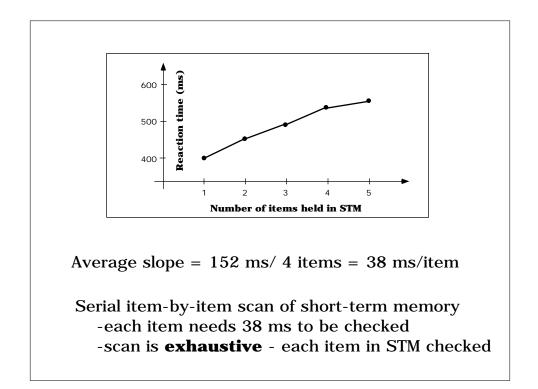


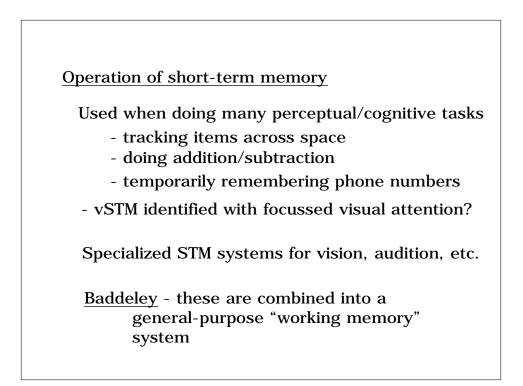




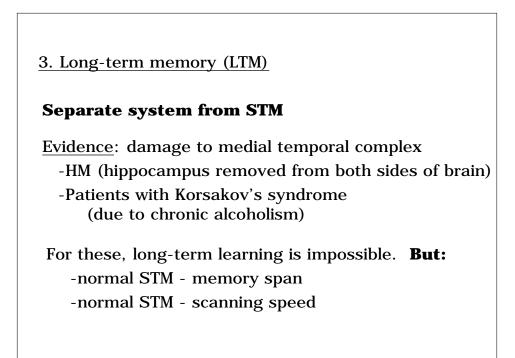








2) Short-term memory - data for mental operations		
- format of information:	"chunks"	
- capacity:	about 7	
- entry of information:	requires attention	
- duration of trace:	>30 seconds	
-maintenance of information:	continued attention/ rehearsal	



Capacity of LTM

Essentially unlimited: Can always add more

But, this does not mean that everything is remembered

<u>Technique</u>: present subjects with a list of words (or list of facts, etc.)

After a delay, test **recall**

(recall = ability to generate words)

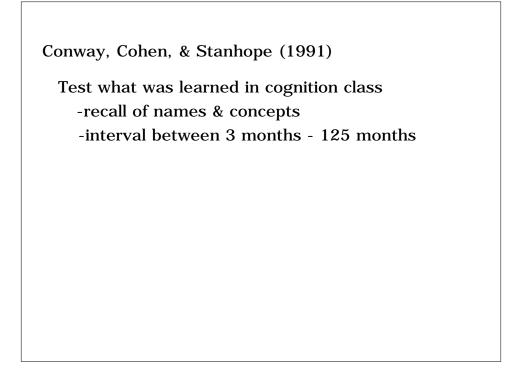
Recall

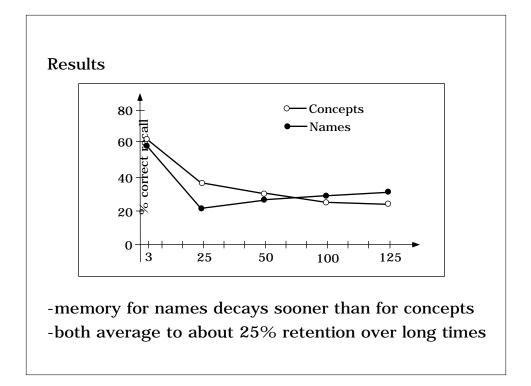
- e.g., What did you learn in class today?
- need to generate facts, ideas

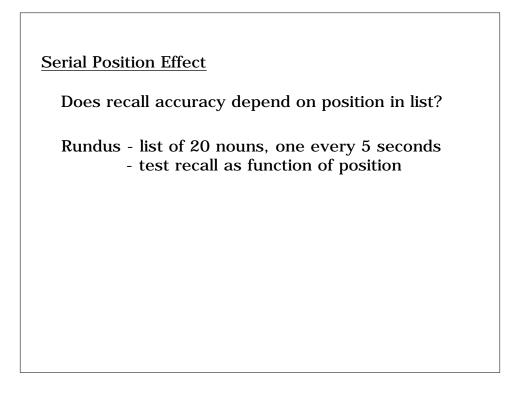
Recognition

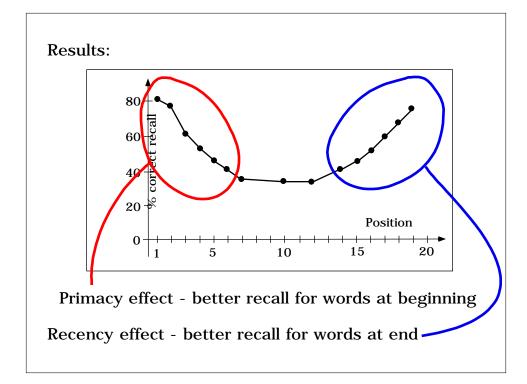
- e.g., Did you learn about LTM in class today?
- need to verify given facts, ideas

Recall is usually more difficult than recognition









Primacy effect

- due to greater rehearsal of items
- the more rehearsal, more chance to get into LTM
- if rehearsal prevented, primacy effect disappears

Recency effect

- due to items still in STM
- if use of STM prevented (wait a while before testing), recency effect disappears

2. Mental Imagery

Internal generation of "images"

Provides answers to questions about particular things: e.g., where is the clock tower in relation to the Main Library?

