

Slide 1

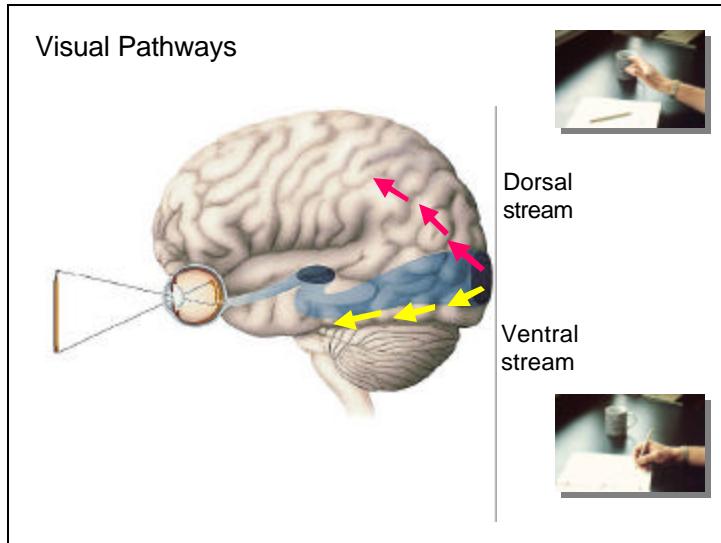
Banbury Center, May 14 2001



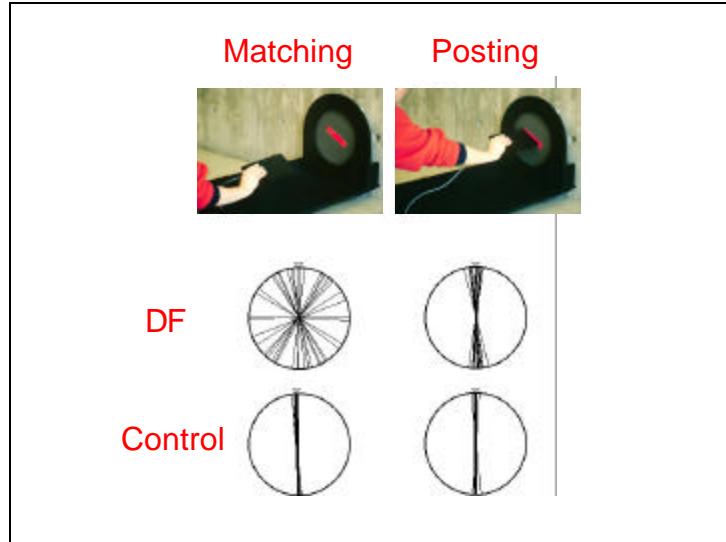
**Why we need two cortical visual systems:
A tele-assistance model**

MeI Goodale
Director
CIHR Group on Action and Perception
The University of Western Ontario

Slide 2



Slide 3



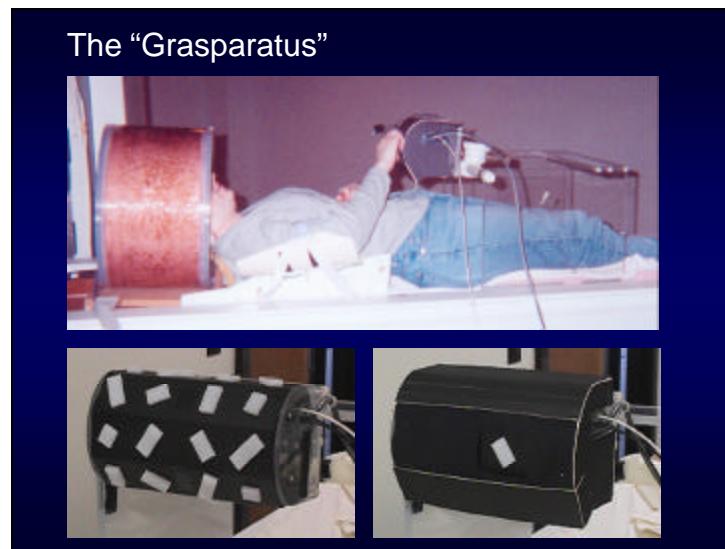
Slide 7



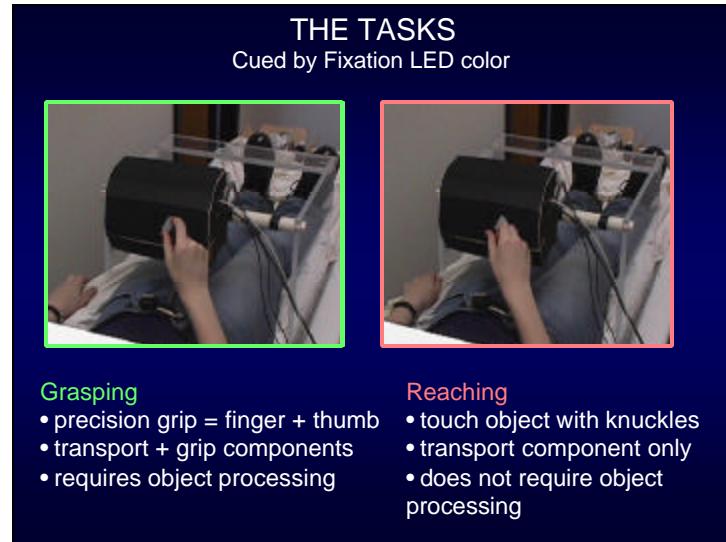
Slide 8



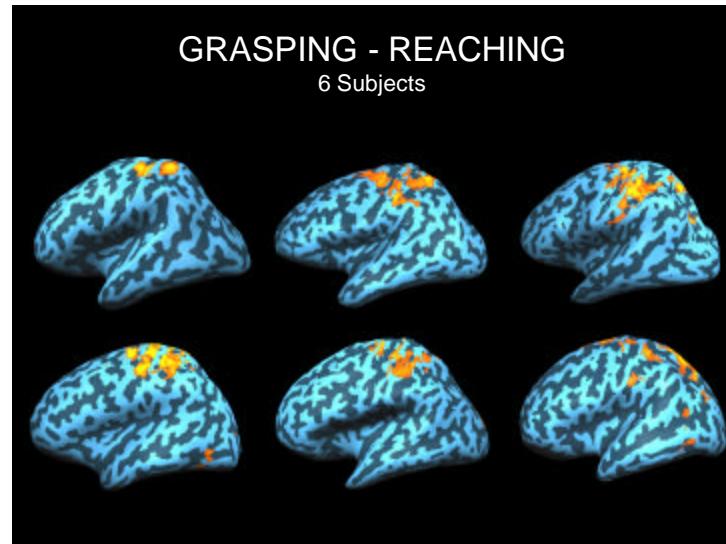
Slide 9



Slide 10



Slide 11

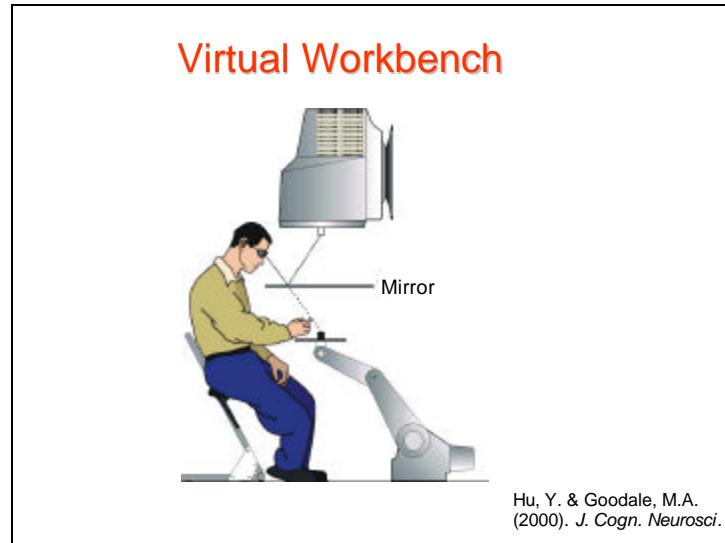


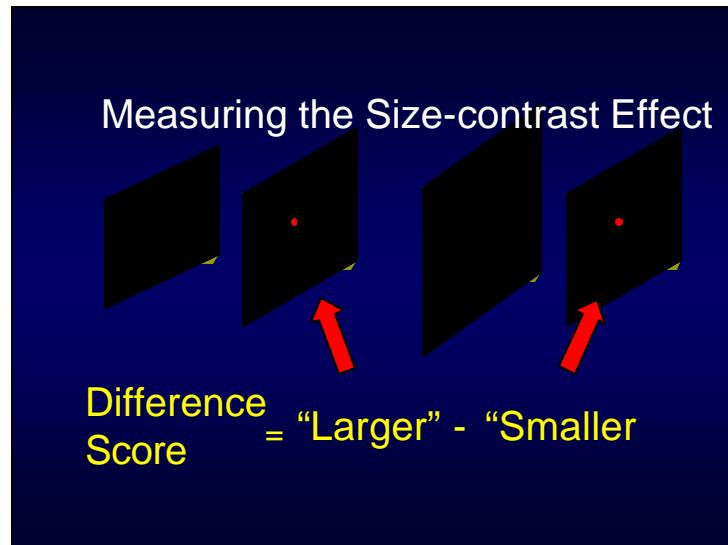
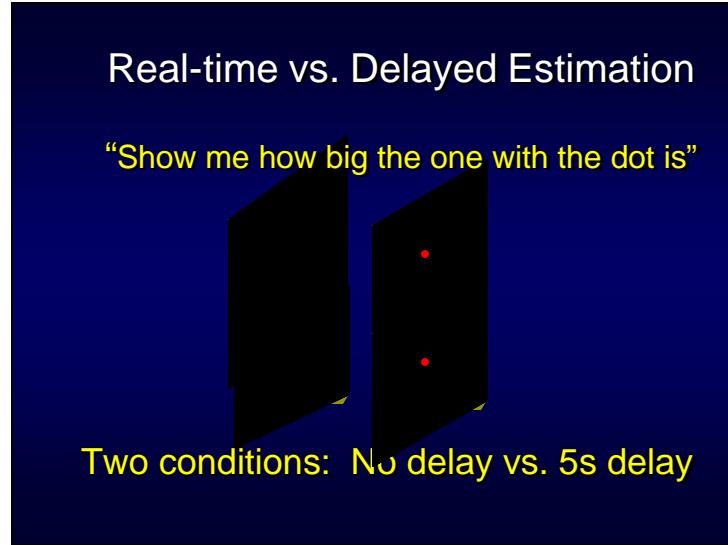
Slide 12

Ventral Stream	Dorsal Stream
Scene-parsing and object identification	Visual control of motor output
Scene-based frame of reference	Effector-based frames of reference
Relational metrics	Absolute metrics
Propositional	Isomorphic
Long-term representations	Moment-to-moment computations
“Conscious”	“Unconscious”

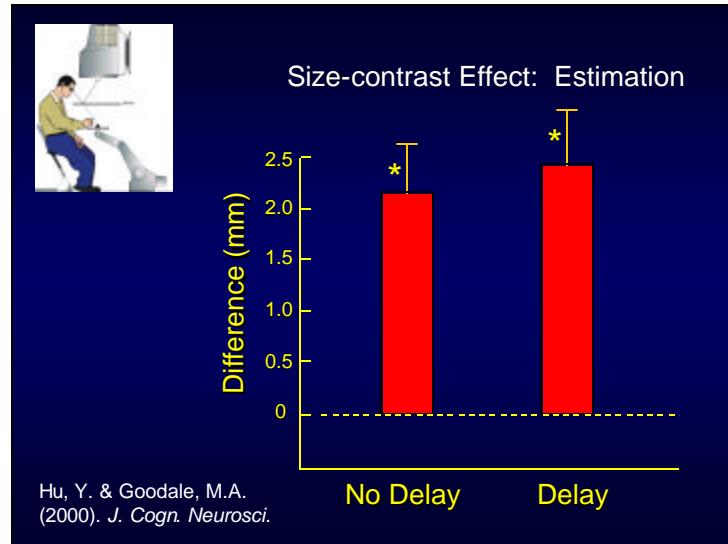
Goodale, M.A. & Humphrey, G.K. (1998). *Cognition*.

Slide 13

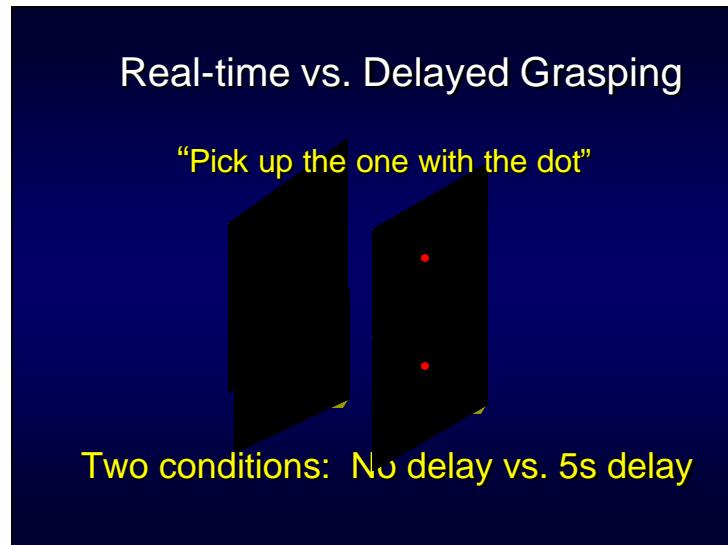




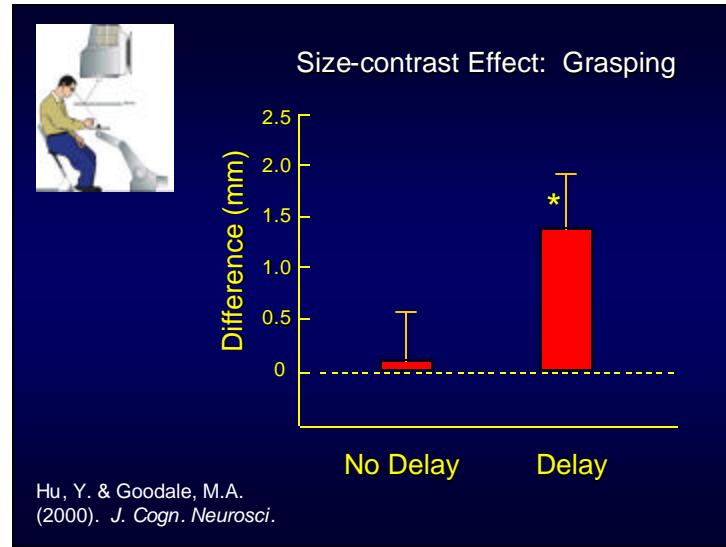
Slide 16



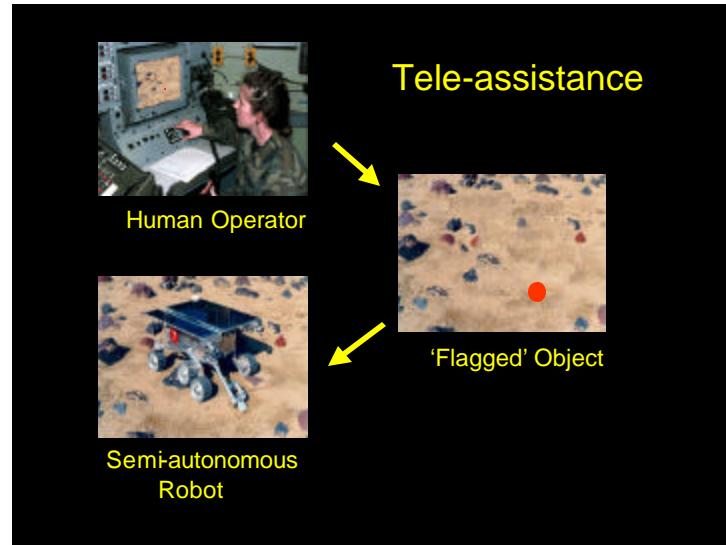
Slide 17



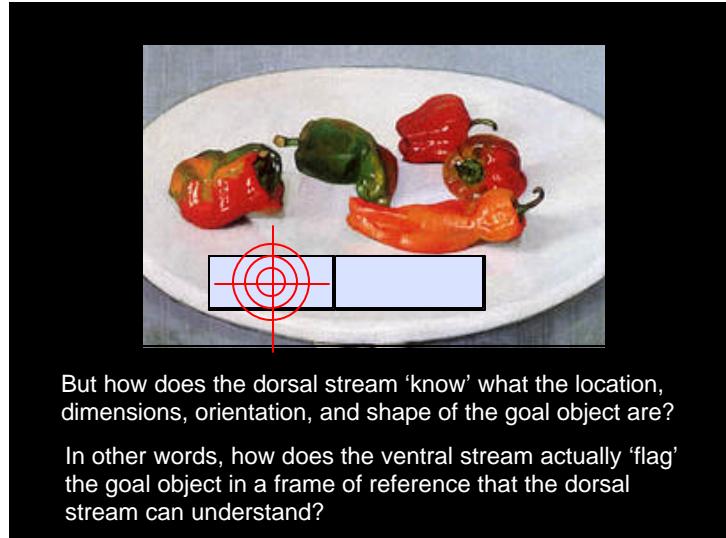
Slide 18



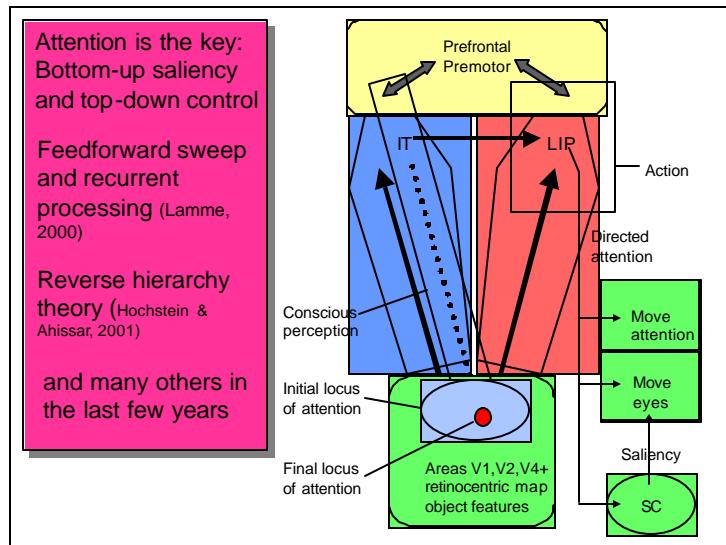
Slide 19



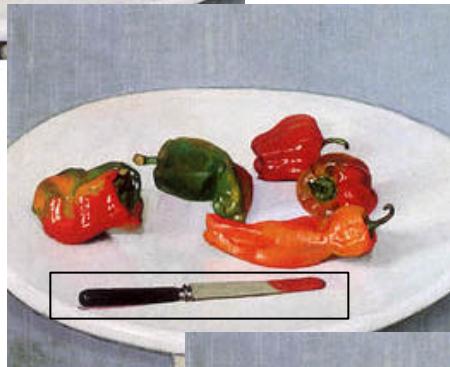
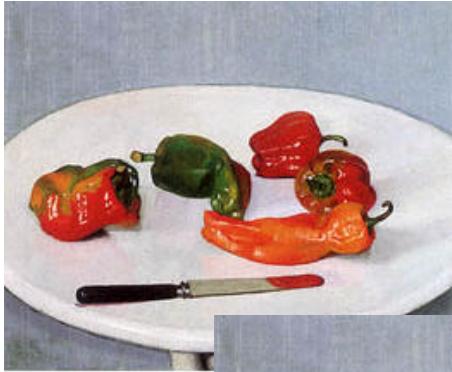
Slide 20



Slide 21

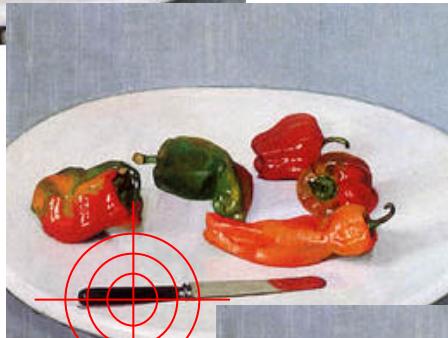
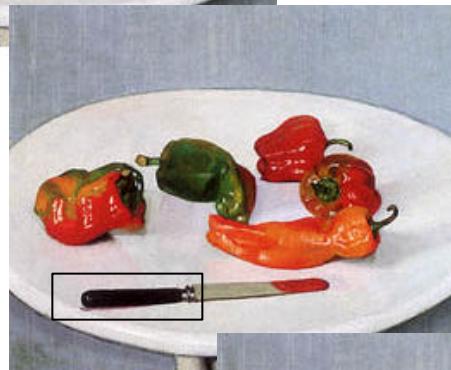


Biological Teleassistance

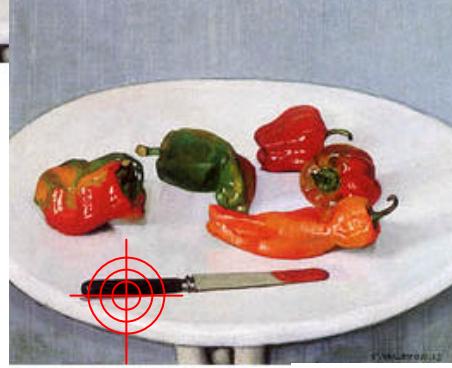


Ventral stream
processing
(Human operator)

Marked by
re-entrant signals
in area V1+ 



Dorsal
stream
processing



The great end of life is not knowledge
but action.

Thomas H. Huxley
1825-1895