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Research studies currently active.

*In addition to holding brief descriptions of the projects, these wiki pages are used by the lab to document ongoing work (for example, software programming notes).*

*We like to write lots of notes on the fly. The waist-deep-in-a-project, nuts-and-bolts documentation pages are usually only available to lab members.*

*We are happy to share code and techniques upon request.*

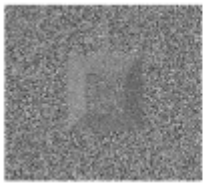
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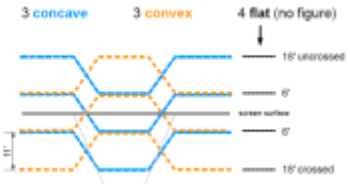
# Multiple Neural Pathways for Encoding Visual Shape

# Dorsal Visual Cortex Processes for Shape Perception

## Shape of 3D concavities

fMRI of perceiving shape from 3D concavities





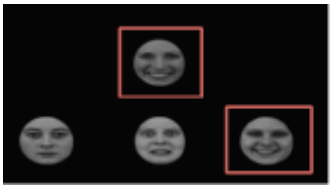

## 3D letter recognition

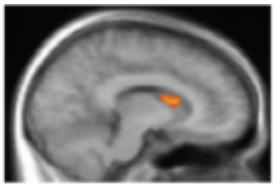
3D letter recognition and visual crowding



# Role of the Basal Ganglia in Shape-based Object Recognition

Holistic perception in Parkinson's Disease

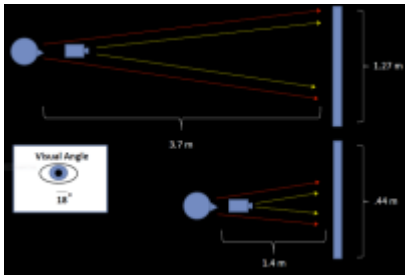




# Influence of Physical Size on Perception and Memory for Objects

### Effect of real-world size on object shape perception

Physical Size and Holistic Perception




fMRI Study on Physical Size and Holistic Perception

### Effects of large-scale spatial separation on word item memory

Learning in Large-Scale Interactive Displays

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# Identifying Object Shape Features

## How does the visual system identify parts of common objects?

Crowding and parts-based recognition

Deferred decisions in object recognition

## Which face features do we use to recognize different emotions?

Name That Emotion!

## Detecting clusters of objects

What is a Cluster?

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# Visual Numeracy

## Cortical networks for understanding numbers

### Mathematical Ways of Operating - Neural Correlates

Mathematical Ways of Operating - Neural Correlates

### Meta-analysis of numeracy neuroimaging

Meta-analysis of intraparietal sulcus (IPS) fMRI activation during numerical reasoning

## How does visual grouping affect enumeration?

Visual Number Sense

Visual Number Sense fMRI

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# Visual Esthetics

Color preference

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