Lecture 5

Emotional Representation

- Threat responses
  - Implicit threat detection
  - Emotion blindness
- Emotion and thinking
  - The amygdala and frontal cortex
  - Excessive emotional representation
  - Reduced emotional representation
Threat Responses

From Napoleon Dynamite
Two ways that visual info gets to the amygdala

Amygdala and Visual Processing

Amygdala

Faces

Objects

Form/shape

“Threat” pathway

“What” pathway

Occipital Cortex

Thalamus

Two ways that visual info gets to the amygdala
The “Threat” Pathway

A demonstration of “emotion blindness”
The “Threat” Pathway

What food did you see?
Emotion and Thinking

Orbital frontal cortex and amygdala are interconnected

“Threat” pathway

“What” pathway
Excessive Emotional Representation

Temporal Lobe Epilepsy
Reduced Emotional Representation

Capgras’ Delusion
Reduced Emotional Representation

Normal

Capgras’ patient

Emotional response (GSR)

Emotional response (GSR)