Universality of Emotions

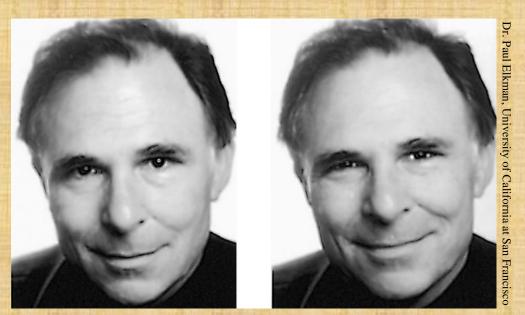




· Despite different languages, cultures and social norms, studies suggest that people "speak and understand substantially the same 'facial language' the world around."

Detecting and Computing Emotion

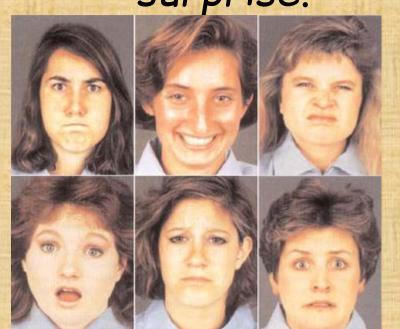
Most people find it difficult to detect deceiving emotions. Even trained professionals like police officers, psychiatrists, judges, and polygraphists detected deceiving emotions only 54% of the time.



Which of Paul Ekman's smiles is genuine?

Paul Ekman - Seven Basic Emotions

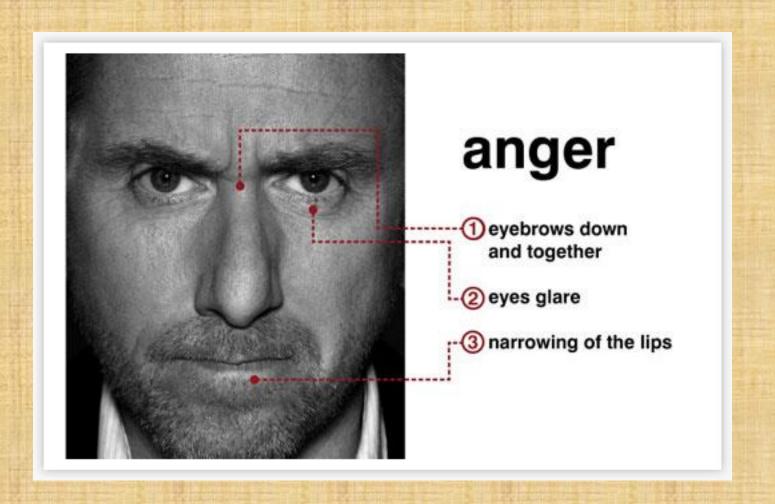
 Ekman, a leading psychologist in emotions, suggests humans everywhere can recognize seven basic emotions: sadness, fear, anger, disgust, contempt, happiness and surprise.



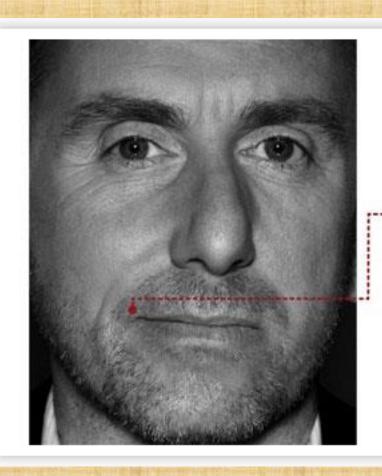
He says that these are Universal emotions

Here is a sample of 6 of Ekman's emotions. Which one is missing?

Anger



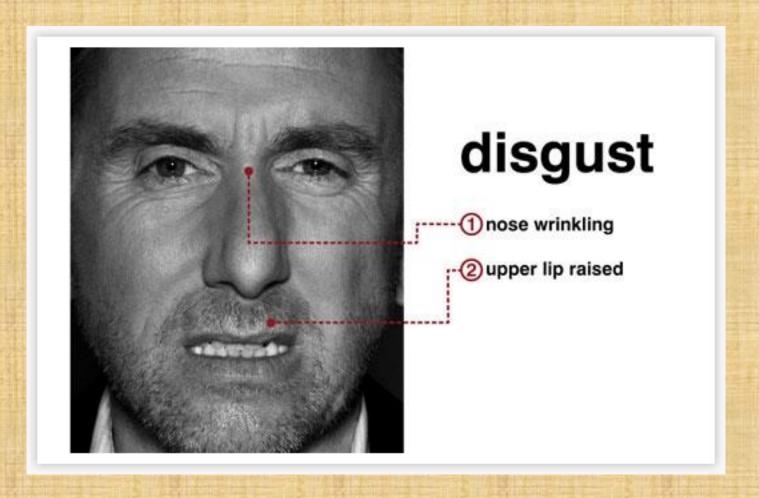
Contempt



contempt

lip corner tightened and raised on only one side of face

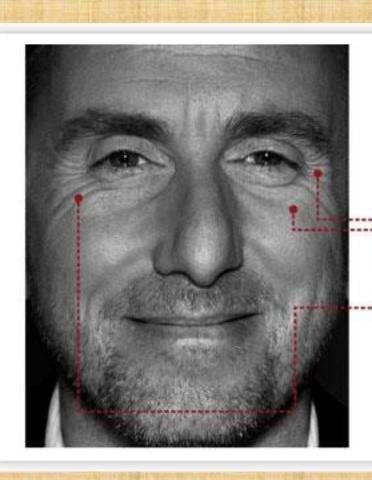
Disgust



Fear



Happiness

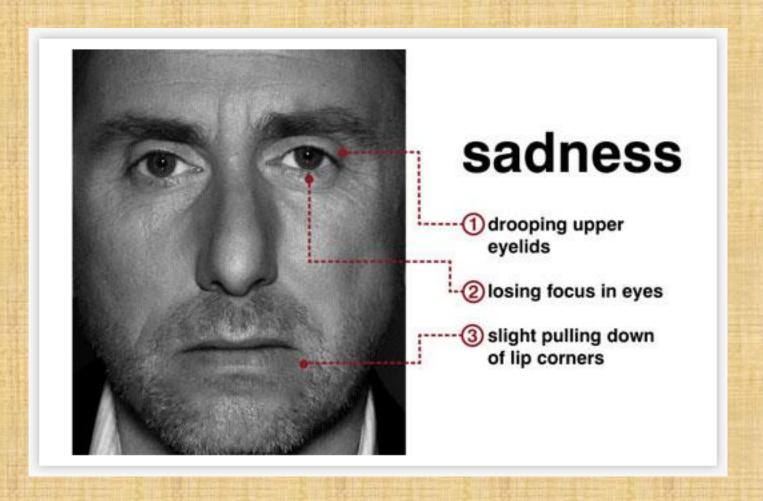


happiness

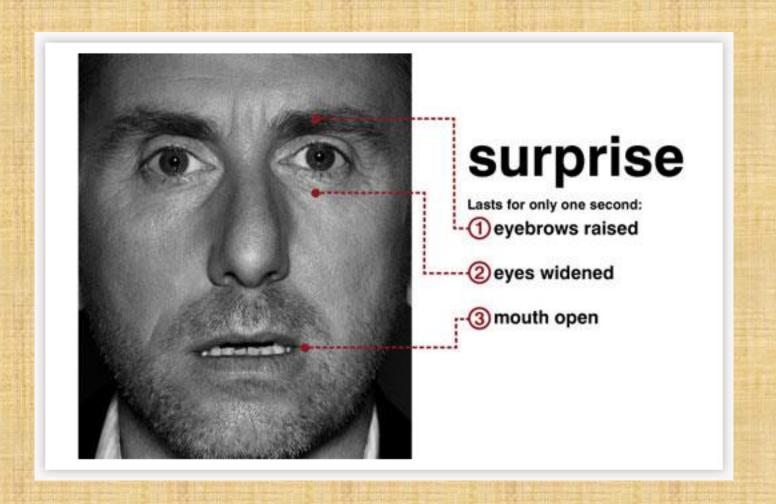
A real smile always includes:

- crow's feet wrinkles
- 2 pushed up cheeks
- 3 movement from muscle that orbits the eye

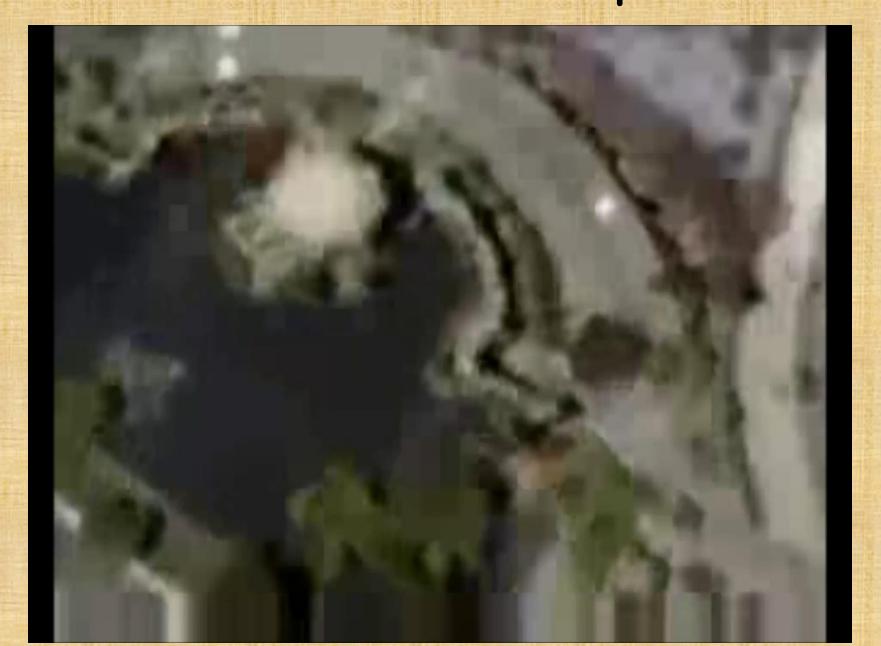
Sadness



Surprise



Paul Ekman - Microexpressions



Nonverbal gestures & emotion

Stephen L. Franzoi, Social Psychology. Copyright @ 1996. The McGraw-Hill Companies, Inc. All Rights Reserved.



Thumb extended up with closed fingers

In North America, Russia, and France, it normally means "Good job!" or "Excellent!"

In Nigeria it is a rude gesture, expressing strong disapproval.

In Japan, China, and Korea, it is used in counting, and means "four."

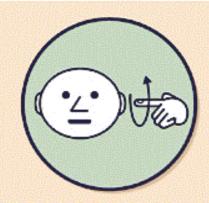
Gestures and Their Meanings

Gestures and Their Meaning Around the World

Source: Data from Calbris (1990); Manahan (1983); and Schneller (1992)

Nonverbal gestures & emotion

Stephen L. Franzoi, Social Psychology. Copyright © 1996. The McGraw-Hill Companies, Inc. All Rights Reserved.



Index finger at ear and rotated in a circle

In Argentina it means that someone is wanted on the telephone-probably a vestige of the old, hand-cranked phones.

In North America, Russia, Japan, France, and Germany, it means "Something is wrong with his (or her) head" or "They're crazy."

Gestures and Their Meanings

Gestures and Their Meaning Around the World

Source: Data from Calbris (1990); Manahan (1983); and Schneller (1992)

Nonverbal gestures & emotion

Stephen L. Franzoi, Social Psychology. Copyright © 1996. The McGraw-Hill Companies, Inc. All Rights Reserved.



Thumb and index finger forming a circle

In laos and France it means "Bad," "Zero," or "Worthless."

In Japan it means "money."

In North America and Russia it means, "That's good!"

In Arab states (accompanied by a baring of the theeth) it expresses extreme hostility.

Gestures and Their Meanings

Gestures and Their Meanings Around the World

Source: Data from Calbris (1990); Manahan (1983); and Schneller (1992)

Are there cross-cultural differences in recognition accuracy rates?

- Americans are better at recognizing anger, disgust, fear, and sadness than Japanese.
 - Cultural source of these differences may be individualism.
 - Individualism is associated with better recognition of anger, fear, and happiness.

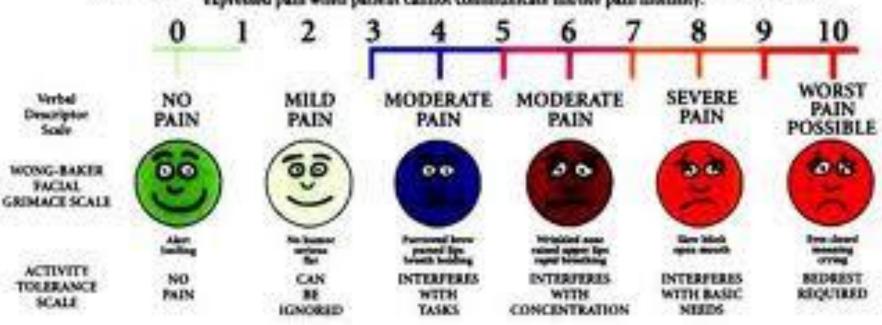
Display rules

- A social group's informal norms about when, where, and how one should express emotions. (Determines what is an "appropriate reaction".
- Controlled, voluntary expressions, "top-down."
- When those rules are violated nobody knows quite how to react.



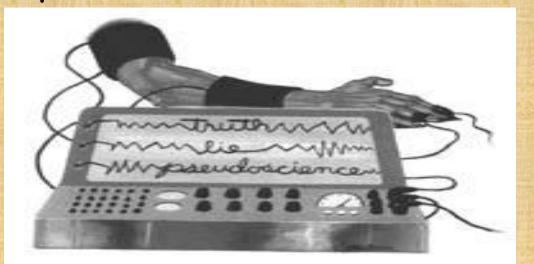
UNIVERSAL PAIN ASSESSMENT TOOL

This pain assessment tool is intended to help patient care providers assess pain according to individual patient needs. Explain and use 0-10 Scale for patient self-assessment. Use the faces or behavioral observations to interpret expressed pain when patient cannot communicate his/her pain intensity.



"Lie Detection"

- 1. Examiner asks several simple yes/no questions for a "baseline." (Is your name Thor? Is Kim the best Kardashian?)
- 2. Examiner then asks key questions she wants answers to.
- 3. Machine measures against baseline looking for changes in body such as heart rate and breathing.
- · Any potential problems with this method?

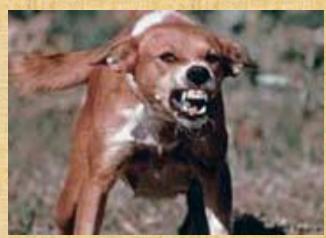


te to me

Facial Feedback Hypothesis

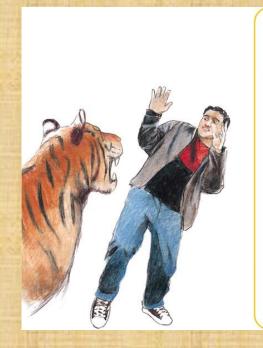
 Facial feedback hypothesis - facial expressions provide feedback to the brain concerning the emotion being expressed, which in turn causes and intensifies the emotion.





Emotions and Autonomic Nervous System

During an emotional experience, our autonomic nervous system <u>regulates and mobilizes</u> energy in the body that arouses us.



Sympathetic livision (arousing)		Parasympathetic division (calming)
Pupils dilate	EYES	Pupils contract
Decreases	SALIVATION	Increases
Perspires	SKIN	Dries
Increases	RESPIRATION	Decreases
Accelerates	HEART	Slows
Inhibits	DIGESTION	Activates
Secrete stress	ADRENAL GLANDS	Decrease secretion of stress hormones



The Opponent-Process Theory of Emotion (Solomon and Corbit, 1974)

Emotional reactions are biphasic; a primary reaction is followed by an opposite after-reaction

The primary reaction becomes weaker with repeated stimulations

The after-reaction is strengthened

Physiological Similarities

Physiological responses related to the emotions of fear, anger, love, and sexual arousal are very similar.

make it stop make it stop make it stop make it stop



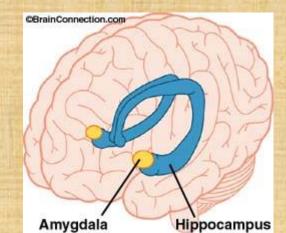
Lets ride this all day!

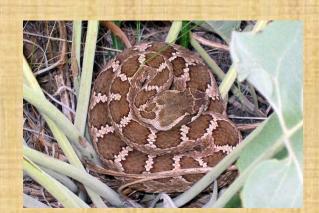
Excitement and fear involve a similar physiological arousal.

Origins of Emotions

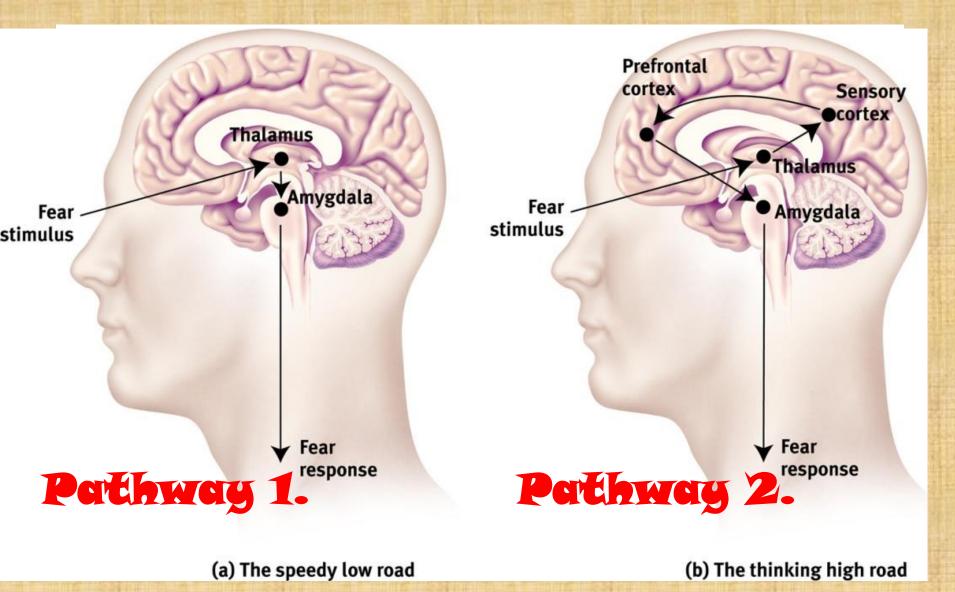
- One of the biggest breakthroughs in the study of emotions was the discovery of two distinct emotional pathways in the brain.
- One of the pathways is fast, and operates mainly at an unconscious level and has a built-in, innate sensitivity to certain cues.
- 2. The other pathway is much slower and linked to explicit memory. This system relies heavily on the cerebral cortex.
- · Both rely heavily on the limbic system.
- The amygdala plays an especially important role in both emotion pathways - negative AND positive emotions.







The Emotional Brain



Cognition Can Define Emotion

SPILLOVER EFFECY Arousal fuels emotion, An arousal response cognition channels it.

to one event spills over into our response to the next event.







Arousal from a soccer match can fuel anger, which may lead to rioting.

The tendency of one person's emotion to affect how other people around them feel.





Give a shot of adrenaline