Culture and Perception



The **Paradox** of Perception

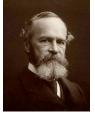
Not enough information to specify what is out there



Too much information for our puny brains to process



Attention



William James (1842-1910) Attention ... is the taking possession by the mind, in clear and vivid form, of one out of what seem several simultaneously possible objects or trains of thought

Attention

Limited Capacity

you can't pay attention to everything

"Selective"

you can pay attention to some things at the expense of others



Voluntary

(and usually effortful)



Find the red "o"

Find the red "o"

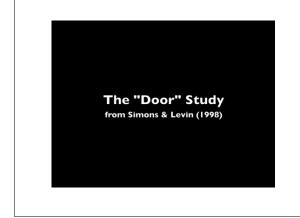
Overt

(attend by moving your eyes)

Covert

(attend by moving **your mind**)







Attention

Western
Educated
Industrialized
Rich
Democratic



Culture and Change Blindness

Takahiko Masuda^a, Richard E. Nisbett^b

^aDepartment of Psychology, University of Alberta ^bDepartment of Psychology, University of Michigan

Received 11 November 2004; received in revised form 17 October 2005; accepted 8 November 2005

Abstrac

Research on perception and cognition suggests that whereas East Asians view the world holistically, stending to the entire field and relations among objects. Westerners view the world malytically, becausing on the attributes of salient objects. These propositions were examined in the change-blindness paradigm. Research in that paradigm finds American participants to be more sensitive to changes in focal objects than to changes in the periphery or context. We anticipated that this would be less true for East Asians and that they would be more sensitive to context changes than would Americans. We prescribed participants with still photos and with animated vignettes having changes in focal object information and contextual information. Compared to Americans, East Asians were more sensitive to context changes than to focal object changes. These results suggest that there can be cultural variation in what may seem to be basic perceptual processes.

Keywords: Culture; Attention; Change blindness; Change detection; Holistic vs. Analytic thought; Japanese; Americans; Cultural psychology

A (Silly?) Stereotype

"Westerners" (incl. USA, W. Europe) analytic, object-focused, individualist. "the trees"

"Easterners" (incl. Japan, Korea, China) holistic, context-focused, collectivist. "the forest"

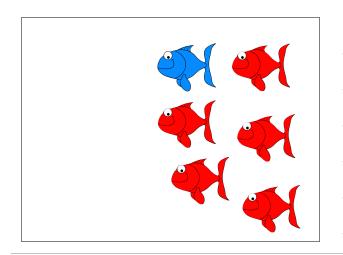
* this is an exclusionary and reductive way of dividing up populations; please bear with m

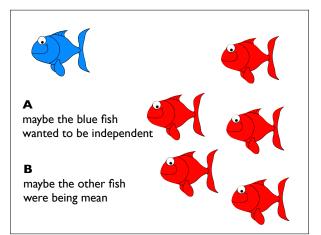
American Parents

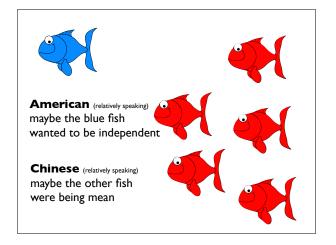
Relative emphasis on **nouns** "Is that a ball? Yes, that's a ball!"

Chinese Parents

Relative emphasis on **verbs & events** "Can you give it to me? Now I give it to you!"







Culture and Change Blindness

Takahiko Masuda^a, Richard E. Nisbett^b

^aDepartment of Psychology, University of Alberta ^bDepartment of Psychology, University of Michigan

Received 11 November 2004; received in revised form 17 October 2005; accepted 8 November 2005

Abstract
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 ${\it Keywords:} \ {\it Culture;} \ {\it Attention;} \ {\it Change blindness;} \ {\it Change detection;} \ {\it Holistic vs.} \ {\it Analytic thought;} \ {\it Japanese;} \ {\it Americans;} \ {\it Cultural psychology}$

"Focal" Changes

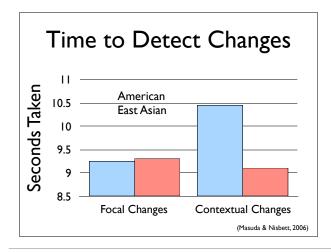




"Contextual" Changes







Questions + Themes

How much of our **culture** has its basis in **perception**?

How much of our **perception** has its basis in **culture**?



Facial Attractiveness

Aesthetic Preferences

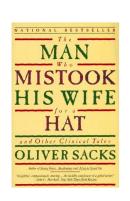


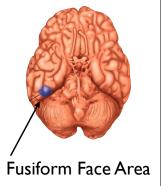


Facial Attractiveness

Aesthetic Preferences







Babies like faces...







...even at 9 mins old!

(Goren et al., 1975)







Most Attractive?





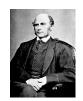








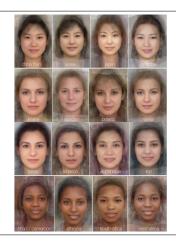
averaged faces together to find common negative traits; averages were attractive!



Francis Galton (1822-1911)







PSYCHOLOGICAL SCIENCE

Research Article

ATTRACTIVE FACES ARE **ONLY AVERAGE**

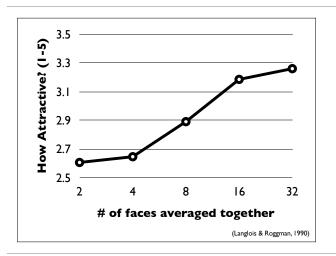
Judith H. Langlois and Lori A. Roggman Department of Psychology, University of Texas at Austin

Abstract—Scientist and philosophers have searched for ceasured for a paramonous answer to the question of what constructed hear a paramonous answer to the question of what constructed heart of the question of the q



How attractive?

(Rate on a scale of I-5)



Perception, 2007, volume 36, pages 1813-1820

doi:10.1068/p5601

Facial averageness and attractiveness in an isolated population of hunter-gatherers

Coren L Apicella, Anthony C Little ¶, Frank W Marlowe§
Department of Anthropology, Harvard University, Cambridge, MA 02138, USA; ¶ University of Stirling, Stirling FK9 4LA, Scotland, UK; § Florida State University, Tallahassee, FL 32306, USA;

e-mail: apicella@fas.harvard.edu Received 28 March 2006, in revised form 31 January 2007

Abstract. Average faces possess traits that are common to a population. Preferences for averageness have been found in several types of study of both real and computer-manipulated faces. Such preferences have been proposed to be biologically based and thus should be found across human populations, though cross-cultural evidence to date has been limited. In this study we examined preferences for averageness in both the West and in an isolated hunter-gatherer society, the Hadza of Northern Tanzania in Africa. We show that averageness is generally preferred across faces and caltures, but there were no significant preferences for averageness in European faces by Hadza judges. The difference was the preferred of the vocations may explain the difference of the training of the preferred of the properties of the training of the preferred of the properties of the propertie

Hadza: Hunter-gatherer society with no exposure to "Western" norms of beauty









"Koinophilia"

liking 'common' features perhaps to minimize harmful mutations



Evolution and Human Behavior 22 (2001) 31-46

Evolution and Human Behavior

Do facial averageness and symmetry signal health?

Gillian Rhodes*,*, Leslie A. Zebrowitzb, Alison Clarka, S. Michael Kalickc, Amy Hightower^a, Ryan McKay^a

tent of Psychology, University of Western Australia, Nedlands, Perth, WA 6907, Australia "Department of Psychology; Brandeis University, Waltham, MA, USA
"Department of Psychology; University of Massachusetts, Boston, MA, USA

Received 7 July 2000; received in revised form 29 August 2000; accepted 5 September 2000

We investigated whether the attractive facial traits of averageness and symmetry signal health, camining two aspects of signalling whether these traits are precived as healthy, and whether they rovide accurate health information. Its 300-l, we and enough genetiates not after the everageness provide accurate health information in Study), we and enough genetiates not after the everageness health correlated negatively with rated distinctiveness (a converse measure of averagenes) and onliviny with rated symmetry of the images. Its 500½, ye accurated whether these traits signal real, as well as preceived, health, in a sample of individuals for whom health scores, based on detailed as symmetry, replicating Study 1. Fixed infinient/curses rating of 17/yser-olds was one associated with poor childhood health in males, and poor current and adolescent health in females, although the last associated with security of the contraction of the con

How "distinct" is this face?

(distinctness = opposite of averageness)

More distinct faces:

More illnesses!

(Cold, measles, etc. ...)



(Rhodes et al., 2001)



Facial Attractiveness

Aesthetic Preferences





Facial Attractiveness

Aesthetic Preferences



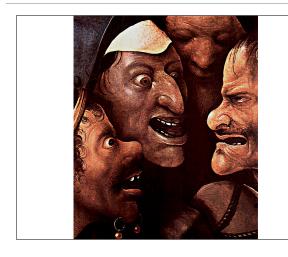














Most people like blue

Most people dislike dark yellow ("vomit yellow")

Saturated colors are liked more than muted colors

An ecological valence theory of human color preference

Stanban E Balmar¹ and Yasan B Schla

Department of Psychology, University of California, Berkeley, CA 94720

Edited* by Paul Kay, University of California, Berkeley, CA, and approved January 13, 2010 (received for review June 5,

Color perference is an important appet of visual experience, but them orders. Provide a research supported experience between the biological adeptation [humber Act, Ling YL (2017) Corn Bot 17422-1740 (2014) (2

assthatic preference | color vision | acolonical than

enteres model equinced 79% of the variance in Hutbert and Large perference date as a limited grant of 60%. Both madel and familied perferences weighted positively on the 8-sts, meatured that the second of the second of the second of the second that were more yellow green. On the Listad, shower, females weighted sumers had positively preferring redder colons, and made below the second of the second of the second of the second below green. This gentle difference formed the base of Hutbert below green that the second of the second of the second they are through the difference for the second of the second they are through the second of the second of the second they are through the second of the second of the second they are through the second of the second of the second they are the second of the second of the second of the second they are the second of the second of the second of the second to the second of the second of the second of the second the second of the secon

Ecological Valence Theory

we like the colors we like because they are the colors of the **things** we like

Blue things tend to be **nice** (or at least not bad)





Dark yellow things tend to be **nasty**





Democrats like blue, Republicans like red...

The politics of color: Preferences for Republican red versus Democratic blue



ed color: 15 April 2014 theocosic Society, Sc. 2014 seet. The present study reveal

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...and even more so on Election Day!

Preference for Red 45 Democrats Republicans 27 18 9 Normally Election Day

Berkeley students like Gold, Stanford students like Red

Psychon Dull Rev DOI 10.37594(3423-01)-007

Effects of university affiliation and "school spirit" on color preferences: Berkeley versus Stanford

Karen R. Schloss - Ross M. Peggesi - Stephen E. Pale

© The Authority 2911. This wrick is published with spot scoon or Springerfalk.com

And the second of the second o



...but only if they like their school!



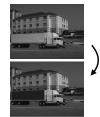
Facial Attractiveness

Aesthetic Preferences



Culture can change...

...how we pay **attention**



Culture can change...

...what looks beautiful



Culture can change...

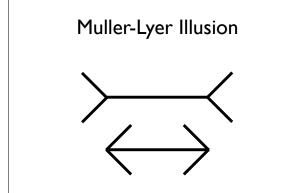
...how we see in the first place??

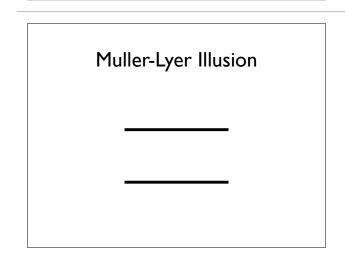






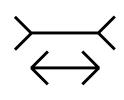






Muller-Lyer Illusion Muller-Lyer Illusion Muller-Lyer Illusion







BEHAVIORAL AND BRAIN SCIENCES (2010) 33, 61–135 doi:10.1017/S0140525X0000152X

The weirdest people in the world?

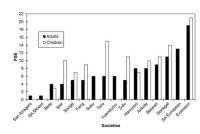
Joseph Henrich Department of Psychology and Department of Economics, University Columbia, Vencourser WCT 124, Canada

Steven J. Heine Department of Psychology, University of British Columbia, Varional VET 124, Canada

Ara Norenzayan
Department of Psychology, University of British Columbia, Vancous
VET 124, Canada

Abstract Revision of courts of courts of courts of the court of courts of the court of courts of

Keywords: behavioral economics; cross-cultural research; cultural psychology; culture; evolutionary psychology; experiments; external validity; reneralizability; luman universale; psoulation variability



"Because elements such as carpentered corners are products of particular cultural evolutionary trajectories, and were not part of most environments for most of human history, the Muller-Lyer illusion is a kind of culturally evolved by-product"

Article

Perception of the Müller-Lyer illusion in guppies

Maria Santaca* and Christian Agrillo

Department of General Psychology, University of Podova, Via Venecia 8, Podova 35131, Italy

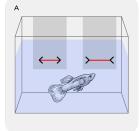
*Address correspondence to Marie Sentacă. E-mail: santacameria@gmail.com.

Received on 27 July 2013; accepted on 30 August 2

Abstract

The Matter-Layer Busidon is a well-known distinction flates that could work the speak distinctions. It is, more for counter-printing emotional influences as five speak and distinctions as five speak and distinctions. In the counter distinction and in the counter distinction and interest that five speak for the counter of the counter o

Key weeds: comparative perception, Müller-Lyer illusion, Poecilia resiculate, visual illusions



Correspondence

Immediate susceptibility to visual illusions after sight onset

Tapan Gandhi^{1,2,4}, Amy Kalia¹, Suma Ganash¹ and Pawan Sinha²

The dominant accounts of many visual lisasons are based on experience-driven development of sensitivity to certain visual coses. According to such accounts, which is a sensitivity to certain visual coses. According to such accounts, and the sensitivity to certain visual coses and the real three-dimensional structures they represent its surface receding in depth ender us susceptible to misperceiving some images that are dimensional surface. While this explanation appears reasonable, it facts direct experimental validation. To contrast

It with an account that dispersed is the control of the control of







Cataracts: "Easy" to fix — just pay ~\$3,000!

