esearch Project "Harmonia" ocial diversity in schools: nderstanding, managing and aging and acting





Eye-tracking as a Measure of Intergroup Attitudes¹

Looking is Liking. Or Not?

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Abstract

One of the leading contemporary debates among social psychologists studying intergroup relations focuses on measures. More specifically, measures of implicit (uncontrolled) and explicit (controlled) attitudes towards social groups (i.e., Hofmann et al., 2005; Wittenbrink & Schwarz, 2007). The present research investigates the potential of eve-tracking as a method examining intergroup attitudes within both children and for adults. A learning and recognition paradigm is proposed.

Introduction

· Socio-normative approach toward prejudice development. Antiracist norms affect expression of explicit but not implicit attitudes (i.e., Monteiro, França, & Rodrigues, 2009).

· Existing measures for implicit attitudes among children (i.e., IAT; Rutland, Cameron, Milne, & McGeorge, 2005) are problematic due to limitations in children's cognitive abilities.

· Examining intergroup attitudes using eye-tracking as it is unobtrusive and can be used within both adults and children.

· Main Research Question: How to interpret gazing data? · Location and duration of fixations (pauses between saccades) indicate attention and information processing (Karatekin, 2007). **Hvpotheses**

· Visual Search Hypothesis: Attention (longer gaze) to Correct Face when present, if not present, attention divided over four faces. · Facility Hypothesis: Well-learned compared to not well-learned associations between persons and traits are indicated by longer fixation duration:

duration) previously learned "positive" vs. "negative" persons.

Participants

Psychology students at the Lisbon University Institute (N = 51; 87%) female; mean age = 20.03 yrs, SD = 4.62).

Apparatus

Tobii T60 eye-tracker (1024x768 pixel resolution, 60-Hz Frame rate) with Tobii Studio software (Tobii Technology, Stockholm, Sweden).



Desian

2 (association: well learned vs. not well learned) X

2 (valence: positive vs. negative traits) X

2 (answer: incorrect face but correct emotion vs.

incorrect face and incorrect emotion) within participant. Measures

Fixation duration.

Procedure

XXX Part I: Learning Task · Pairing 16 words with 16 faces • 8 positive words (intelligent, clean, • 8 negative words (stupid, dirty, ...) · Manipulation of the association: well learned (easy task) vs. not well learned (difficult task)

- 4 of the pairs (2 pos, 2 neg) are shown 6 times
- 12 of the pairs (6 pos, 6 neg) are shown 2 times



××+ Part II Recognition Task A word (pos/neg) is presented surrounded by 4 faces (2 "positive" and 2 "negative" persons) 4 conditions to compare: - Correct face present + easy task - Correct face present + difficult task ------ Correct face absent + easy task - Correct face absent + difficult task Total 40 trials Results Visual Search Hypothesis Correct Face Absent Correct Face Present 1 □ Easy □ Easv 0,9 0,9 Difficult Difficult 0,8 0,8 0,7 0,7 0,6 0.6 0.5 0.5 0.4 0.4 Correct Face 2 Face 3 Face 4 Face 1 Face 2 Face 3 Face GLM repeated measures;

2 (Correct/Face 1 vs. Faces 2, 3, & 4) x 2(Present vs. Absent)

* Main effect of Presence: F(1, 50) = 66.66, p < .001, $\eta^2 = .57$ * Interaction between Face & Presence: F(1, 50) = 71.51, p < .001, $\eta^2 = .59$

Facility Hypothesis



Valence Hypothesis

Discussion

•When Correct Face present, people focused more on correct compared to incorrect faces (Visual Search Hypothesis); •Well-learned associations were fixated on longer than not well-

learned associations (Facility Hypothesis);

•When Correct Face present/absent, people focused more on same-valence faces (Valence Hypothesis);

Currently, studies are designed incorporating gender (agency) and ethnicity (status) as factors. Furthermore, a child-friendly version is being developed. Correlations with implicit (i.e., IAT) and explicit measures will be examined as well.

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· Valence Hypothesis: People correctly distinguish (longer gaze

Method

