# **Effects of Persona Priming on Creativity**

persona.

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H1 - The group of participants primed with

either a single persona or multiple personas will

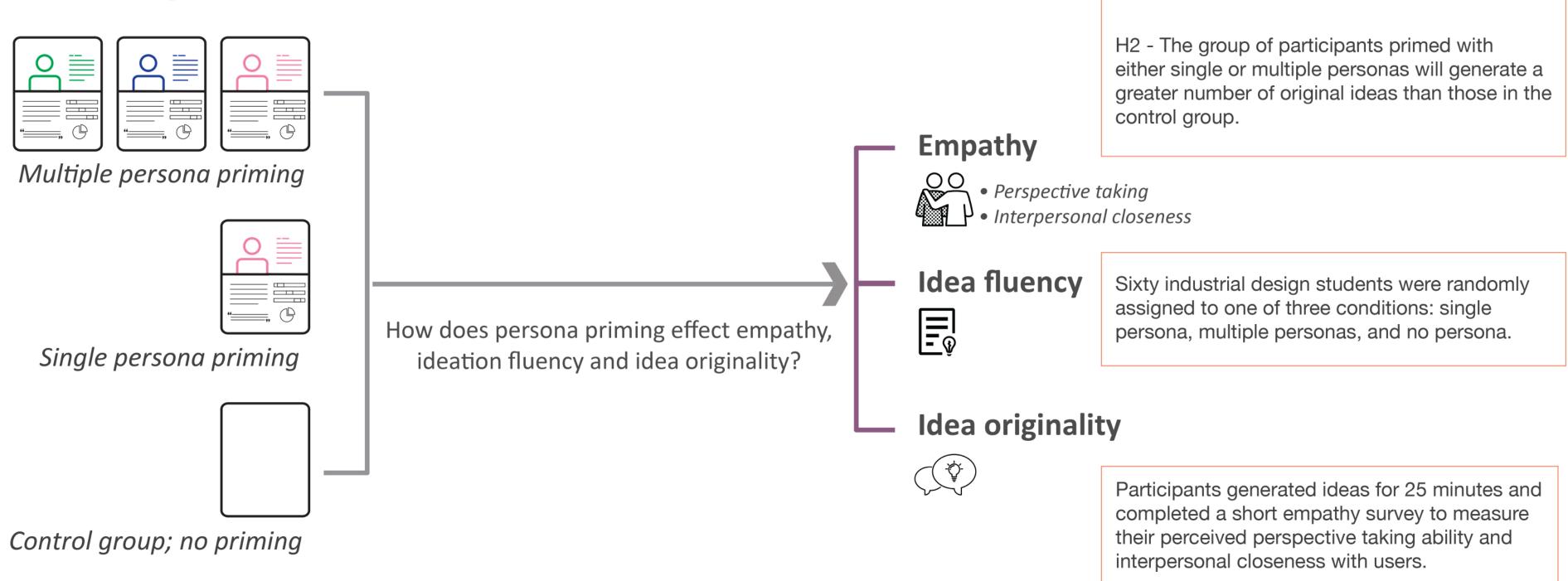
generate a greater number of ideas than those

in the control group who were not assigned a

#### Introduction

The purpose of this study is to measure the effect of persona priming on both ideation fluency and idea originality during brainstorming tasks. In a three between-subjects experimental design study, sixty industrial design students were randomly assigned to one of three conditions: single persona, multiple personas, and no persona. A one-way, between-subjects analysis of variance (ANOVA) revealed an overall persona priming effect on fluency and originality.

## **Conceptual diagram**

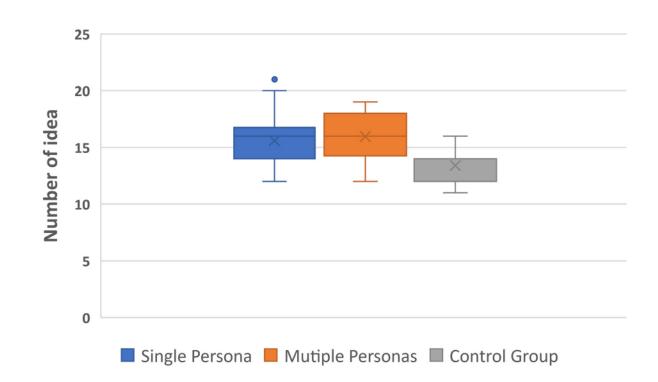


#### **Results**

#### **Idea Fluency**

Participants in the single persona group (SPG) generated more ideas compared to the control group (CG) ( $M_{SPG} = 15.60$ ,  $SD_{SPG} = 2.624$  vs  $M_{CG} = 13.40$ ,  $SD_{CG} = 1.39$ , p = 0.004).

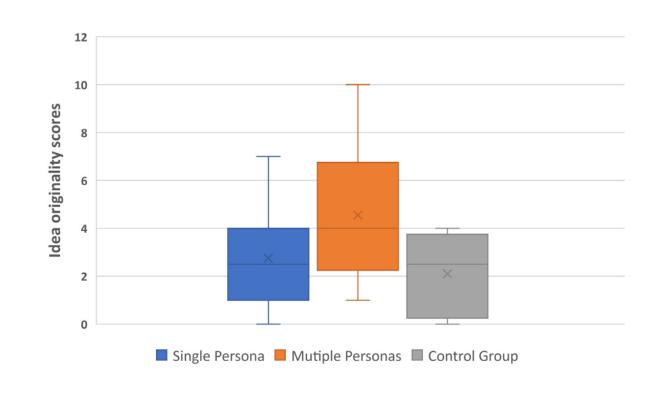
Participants in the multiple personas group (MPG) generated more ideas compared to the control group ( $M_{MPG} = 15.95$ ,  $SD_{MPG} = 2.06$ , vs  $M_{CG} = 13.40$ ,  $SD_{CG} = 1.39$ , p = 0.001).

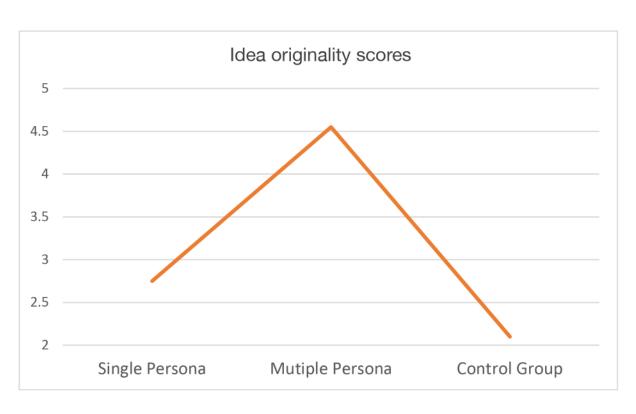


#### **Idea Originality**

Participants in the multiple personas group generated a significantly greater number of original ideas compared to the control group ( $M_{MPG} = 4.55$ ,  $SD_{MPG} = 2.66$ , vs  $M_{CG} = 2.10$ ,  $SD_{CG} = 1.5$ , p = 0.02).

A large effect size (Cohen's d = 1.3; an effect greater than 0.80 is considered significant) indicated that priming participants with multiple personas resulted in a significantly greater number of original ideas.





#### **Effect of priming on empathy**

#### **Perspective Taking**

Participants primed with personas showed no greater perspective taking ability.

### **Interpersonal Closeness**

The Inclusion of Other in the Self (IOS) scale was used to measure the perceived interpersonal closeness between participants and personas. Persona priming did not result in greater interpersonal closeness.