Stefan

Survey Flow

Standard: Introduction (2 Questions)

Block: Demographics (5 Questions)

BlockRandomizer: 1 - Evenly Present Elements

Standard: Game Easy (3 Questions)

Standard: Game Hard (3 Questions)

Standard: GEQ (18 Questions)

Standard: Self-ID game (6 Questions)

Standard: Self-ID (15 Questions)

Standard: Debrief (1 Question)

EndSurvey:

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| Page Break |  |

Start of Block: Introduction

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**INTRODUCTION** Thank you for your interest in participating in this research study! My name is Stefan Leon, and I am conducting a study to explore the relationship between difficulty and cognitive performance in individuals. During this study, you will be tasked with playing a game of varying difficulty to the best of your abilities, after which you will be asked to answer a series of questions regarding your habits and perceptions towards the game you just played. The purpose of this is to assess your performance, in connection to the difficulty you will be randomly assigned to.  Your participation in this study is entirely voluntary, and you may withdraw at any time without penalty. All of your responses will be anonymous and confidential and used for research purposes only. For feedback, questions or concerns, please do not hesitate to contact us at stl200@aubg.edu and tlennie@aubg.edu.

**CONSENT FOR PROCESSING OF PERSONAL DATA** I understand that my participation in this study is entirely voluntary, and I may withdraw at any time without penalty. I also understand that my responses will be confidential, and only aggregate data will be reported in any publications resulting from this study. I have been provided with contact information for the researcher conducting this study, and I understand that I may contact them with any questions or concerns I may have. I certify that I am at least 18 years of age and that I have read and understood the information provided in this consent form. **By continuing, I agree to participate in this research study.**

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End of Block: Introduction

Start of Block: Demographics

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1 What is your age?

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2 What is your gender?

* Male (1)
* Female (2)
* Non-binary / third gender (3)
* Prefer not to say (4)

3 During the past month, on how many days did you play video games?

* Less than 1 day (1)
* 1-5 days (2)
* 6-10 days (3)
* 11-15 days (4)
* 15-20 days (5)
* More than 20 days (6)

4 How familiar are you with the Chrome Dino game?

* I have never played this game before. (1)
* I have played this game before. (2)
* I have played this game recently. (3)

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You will now be presented with a game, that you will be asked to play to the best of your ability. There are four possible versions of the game: **very easy**, **easy**, **hard**, and **very hard**. You will be randomly assigned to one of them. Please proceed whenever you are ready.

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End of Block: Demographics

Start of Block: Game Easy

You have been randomly assigned the **very easy** version of the game. Please take a moment to familiarize yourself with the game. Please click or press on the game screen in order to begin. Press the **SPACE bar** to jump, and try to avoid the obstacles.If you are on a mobile device, you will need to press the screen, instead.  
  
When you feel ready, press **Next** to proceed. 

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Now, please play the game **once**, to the best of your ability. Try to avoid the obstacles and get as high a score (displayed in the upper-right side of the game screen) as you can manage.

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Please record your score below.

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End of Block: Game Easy

Start of Block: Game Hard

You have been randomly assigned the **very hard**version of the game. Please take a moment to familiarize yourself with the game. Please click or press on the game screen in order to begin. Press the **SPACE bar** to jump, and try to avoid the obstacles. If you are on a mobile device, you will need to **press** the screen, instead.  
  
When you feel ready, press **Next** to proceed.

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Now, please play the game **once**, to the best of your ability. Try to avoid the obstacles and get as high a score (displayed in the upper-right side of the game screen) as you can manage.

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66 Please record your score below.

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End of Block: Game Hard

Start of Block: GEQ

Prompt **Game Enjoyment Questionnaire**  
  
In this section, you will be asked to indicate your level of agreement with certain statements, as they pertain to your perception of the game you just played. Please respond honestly and to the best of your knowledge. There are no right or wrong answers.

1 I felt content.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

3 I thought it was fun.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

4 I felt happy.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

5 It put me in a bad mood.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

6 I thought about other things.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

7 I found it tiresome.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

8 I thought it was hard.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

9 I felt good.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

10 I felt bored.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

11 I enjoyed it.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

12 I felt annoyed.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

13 I felt pressured.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

15 I felt irritable.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

16 I felt challenged.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

17 I felt frustrated.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

18 I felt time pressure.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

19 I had to put a lot of effort into it.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

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End of Block: GEQ

Start of Block: Self-ID game

Prompt **Self-Identity**  
In this section, you will be asked to indicate your level of agreement with certain statements, as they pertain to yourself. Please respond honestly and to the best of your knowledge. There are no right or wrong answers.

41 If I have to play a video game I’ve never played before, I already know I’m going to lose.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

42 No matter how challenging the video game is, I can beat it if I try hard enough.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

44 I can quickly and easily learn the buttons and controls for a new game.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

45 I consider myself a gamer.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

46 I enjoy playing video games.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

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| Page Break |  |

End of Block: Self-ID game

Start of Block: Self-ID

Prompt **Self-Identity**  
In this section, you will be asked to indicate your level of agreement with certain statements, as they pertain to yourself. Please respond honestly and to the best of your knowledge. There are no right or wrong answers.

35 I would prefer complex to simple problems.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

36 I like to have the responsibility of handling a situation that reuires a lot of thinking.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

47 Thinking is not my idea of fun.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

48 I would rather do something that requires little thought than something that is sure to challenge my thinking abilities.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

49 I try to anticipate and avoid situations where there is likely chance I will have to think in depth about something.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

50 I find satisfaction in deliberating hard and for long hours.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

51 I only think as hard as I have to.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

52 I prefer to think about small, daily projects to long-term ones.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

53 I like tasks that require little thought once I've learned them.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

54 The idea of relying on thought to make my way to the top appeals to me.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

55 I really enjoy a task that involves coming up with new solutions to problems.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

56 Learning new ways to think doesn't excite me very much.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

57 I prefer my life to be filled with puzzles that I must solve.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

58 The notion of thinking abstractly is appealing to me.

* Strongly disagree (1)
* Disagree (2)
* Somewhat disagree (3)
* Neither agree nor disagree (4)
* Somewhat agree (5)
* Agree (6)
* Strongly agree (7)

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End of Block: Self-ID

Start of Block: Debrief

debf **Debriefing**  
Thank you for your participation in this study! You were previously informed that the present study is looking at the relationship between difficulty and cognitive performance. The real goal of my research however, is looking at the connection between our perceptions of difficulty and performance. In reality, there is only one version of the game presented to all participants, which are only prompted with a message telling them they are playing a "very easy" or "very hard" version of the game. My hypothesis is that people will mostly perform better on tasks they perceive as easy, independently of the objective difficulty of the task. The purpose of the questions you were asked afterwards was measuring several other behavioral and cognitive tendencies that I believe will affect one's performance on the task. If you would like to be informed of the results of this test, at a later date, please contact us and we will email you the results as soon as they are available. Additionally, if you have any further feedback, questions or concens, please do not hesitate to reach out to at stl200@aubg.edu or tlennie@aubg.edu. Thank you again for your time!

End of Block: Debrief