Supplemental Study 1

10 pattern judgments, within subjects (25 total across participants)

In this study, you will read about a hypothetical situation and answer some questions.

It is very important that participants are attentive during this study.

Therefore, please pay attention and read all information and questions carefully.

Page Break -

Imagine the following scenario:

You are interested in learning a new language.

Because of this interest, a friend recommended that you use Duolingo. Duolingo is a language learning app that provides free lessons to help people learn dozens of languages.

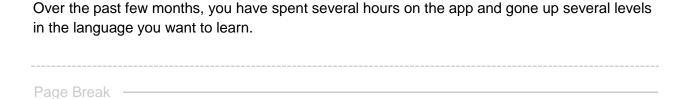
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Your Duolingo profile (sample shown below) keeps track of the different types of lessons you have completed.



When you complete a lesson, it is logged in the appropriate category. The app also keeps track of how often you use it and how well you do on different tests, like verb conjugation and vocabulary.

You really enjoy using Duolingo to learn a new language. You find the app is easy to use, and it is the only tool you have been using to learn a new language.



Duolingo also tracks which days you log on and do lessons and which days you do not use the app.

<u>Imagine that over the course of using the app, you have seen many different patterns of your use.</u>

Over the next pages, you will see some examples of your usage patterns. Green boxes with a checkmark indicate that you did use Duolingo on that day, while red boxes with an X indicate that you did not use Duolingo on that day. For example, the image below shows that you used the app on 1 day and then did not use the app on 2 days:



For each pattern, imagine that you had used the app in this pattern over the last several days, with the last day shown being what you did yesterday.

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Participants saw ten of the following patterns in random order on separate pages. For each pattern, participants read "Please answer the question based on how you would feel on <u>Day X</u>.", where X was the next day after the last day shown in the image. For example, in the example image above, they would be asked about Day 4.

All possible patterns (25 total) are shown on the following pages. The label before each pattern represents the variable name with all participant responses for that pattern (e.g., '1' is all responses about the first pattern, with just Day 1).

The primary DV was:

Given this pattern, to what extent do you feel like you <u>have a streak right now</u>?, from Not at all (1) to Very much (7)

1

Day 1
\checkmark

2

Day	Day
1	2
✓	✓

2 wm

Day	Day	Day
1	2	3
X	✓	✓

2b

Day	Day	Day
1	2	3
✓	✓	X

2m2



3 wm

Day	Day	Day	Day
1	2	3	4
X	✓	✓	

3

Day	Day	Day
1	2	3
✓	✓	✓

3b wm

Day	Day	Day	Day	Day
1	2	3	4	5
X	✓	√	✓	Χ

3b

Day	Day	Day	Day
1	2	3	4
✓	✓	\checkmark	X

4 wm

D	ay	Day	Day	Day	Day
	1	2	3	4	5
>	<	√	\checkmark	✓	\checkmark

4

Day	Day	Day	Day
1	2	3	4
\checkmark	✓	✓	✓

4b wm

Day	Day	Day	Day	Day	Day
1	2	3	4	5	6
X	✓	✓	✓	✓	

4b

Day	Day	Day	Day	Day
1	2	3	4	5
✓	✓	✓	✓	X

5 wm

Day	Day	Day	Day	Day	Day
1	2	3	4	5	6
X	\checkmark	\checkmark	√	√	

Day	Day	Day	Day	Day
1	2	3	4	5
\checkmark	✓	\checkmark	√	

5b wm

Day	Day	Day	Day	Day	Day	Day
1	2	3	4	5	6	7
X	✓	✓	✓	✓	✓	X

5b

Day	Day	Day	Day	Day	Day
1	2	3	4	5	6
✓	✓	✓	✓	✓	

10 wm

Day	Day 2	Day	Day	Day	Day	Day	Day	Day	Day	Day
1		3	4	5	6	7	8	9	10	11
X		√	✓	✓	✓	√	√	√	√	✓

10

Day	Day								
1	2	3	4	5	6	7	8	9	10
✓	✓	✓	\	✓	✓	✓	✓	✓	

10b wm

Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
1	2	3	4	5	6	7	8	9	10	11	12
X	√	\checkmark	✓	√	\checkmark	√	√	√	✓	✓	X

.....

10b

Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
1	2	3	4	5	6	7	8	9	10	11
\checkmark	\checkmark	\checkmark	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	✓	

20 wm

Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
X	✓	✓	√	√	✓	√	√	✓	✓	√	√	√	√	√	√	\checkmark	✓	✓	✓	✓

20

Da	y Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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20b wm

Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
X	✓	√	✓	√	√	√	√	√	✓	√	√	√	✓	√	✓	√	√	✓	✓	√	X

20b

Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	✓	✓	√	√	✓	✓	✓	

gender What is your gender?

Male (1)
Female (2)
Other/prefer not to answer (3)

age What is your age?
id What is your lab ID?

Page Break

comment Please write any comments or feedback regarding this survey below.