

Information

Hello!

Before you proceed please read the [consent form](#) (you do not have to fill it out). If all of your questions have been answered, and you would like to participate in this study, click the consent buttons below. Remember, your participation is completely voluntary, and you're free to withdraw from the study at any time.

Yes

I am at least 18 years old

I have read and understood the consent form

I agree to participate in this online study

Directions:

In this survey, we will present you with 4 different softwares. For each software, we will present you with 2 different versions, and then we will subsequently ask you questions centered around which version you prefer.

Please complete the following steps for each software:

Step 1: Read the software description.

Step 2: Look at the examples showing how the software works for the 2 versions. It is possible for the 2 versions to have the same result for an example.

Step 3: Determine which version you like better, or which version's result you agree with more. Note that, we do not have a well-defined "correct" answer for which version is better. Please judge the correctness by yourself.

Step 4: After looking over all the examples, answer a few questions about the entire software.

Fire-app

Fire alarm software:

Software description:

This software aims to warn people of a potential fire. A camera periodically uploads a photo to the software. The software will then trigger an alarm if this photo contains fire.

You will be asked the following questions after you go through the software examples (you can read the questions now if you want, or just skip to the examples):

1. Considering all the examples, in your opinion, which version is better at raising

alarm **WHEN** there is fire in the image?

2. How important do you believe it is for the software to raise alarm **WHEN** there is fire in the image?
3. Considering all the examples, in your opinion, which version is better at **NOT** raising alarm **WHEN** there is **NO** fire in the image?
4. How important do you believe it is for the software **NOT** to raise alarm **WHEN** there is **NO** fire in the image?
5. Based on your answer from the previous four questions, which version would you use for the fire alarm software?
6. Why do you like version 1 more than version 2 (or vise versa)? (Don't need to answer if you choose no difference)

Software examples:

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm not raised.	Alarm not raised.

Like both Prefer V1 Prefer V2 Dislike both



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm raised!	Alarm not raised.



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm raised!	Alarm raised!



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm not raised.	Alarm not raised.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm raised!	Alarm not raised.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm raised!	Alarm not raised.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm not raised.	Alarm not raised.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	Alarm raised!	Alarm not raised.

Questions:

1. Considering all the examples, in your opinion, which version is better at raising alarm **WHEN** there is fire in the image?

Version 1 is better	Version 1 is slightly better	No difference	Version 2 is slightly better	Version 2 is better
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. How important do you believe it is for the software to raise alarm **WHEN** there is fire in the image?

Not at all important	Slightly important	Important	Fairly important	Very important
<input type="radio"/>				

3. Considering all the examples, in your opinion, which version is better at **NOT** raising

alarm **WHEN** there is **NO** fire in the image?

Version 1 is better	Version 1 is slightly better	No difference	Version 2 is slightly better	Version 2 is better
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. How important do you believe it is for the software to **NOT** raise alarm **WHEN** there is **NO** fire in the image?

Not at all important	Slightly important	Important	Fairly important	Very important
<input type="radio"/>				

5. Based on your answer from the previous four questions, which version would you use for the fire alarm software?

Definitely version 1	Version 1	No difference	Version 2	Definitely version 2
<input type="radio"/>				

6. Why do you like version 1 more than version 2 (or vice versa)?

Fashion software

Fashion software:

Software description:

This is a fashion software used for fashion recommendations. One of its services is to identify the outfit in an uploaded photo, and then build a smart photo album. Here we show a sub-component of this software. It checks whether a person is wearing a jacket.

You will be asked the following questions after you go through the software examples (you can read the questions now if you want, or just skip to the examples):

1. Considering all the examples, in your opinion, which version is better at identifying a jacket in a picture **WHEN** there is a jacket in the picture?
2. How important do you believe it is for the software to identify a jacket in a picture **WHEN** there is a jacket in the picture?
3. Considering all the examples, in your opinion, which version is better at **NOT** identifying a jacket in a picture **WHEN** there is **NO** jacket in the picture?
4. How important do you believe it is for the software to **NOT** identify a jacket in a picture **WHEN** there is **NO** jacket in the picture?
5. Based on your answer from the previous four questions, which version would you use for the fashion software?
6. Why do you like version 1 more than version 2 (or vise versa)? (Don't need to answer if you choose no difference)

Software examples:

Uploaded picture	Version 1 Result	Version 2 Result
	HAS jacket.	HAS jacket.

Like both Prefer V1 Prefer V2 Dislike both



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	NO jacket.	HAS jacket.



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	NO jacket.	HAS jacket.



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	NO jacket.	HAS jacket.



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	HAS jacket.	HAS jacket.



Like both	Prefer V1	Prefer V2	Dislike both
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Uploaded picture	Version 1 Result	Version 2 Result
	NO jacket.	HAS jacket.



Like both	Prefer V1	Prefer V2	Dislike both
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Uploaded picture	Version 1 Result	Version 2 Result
	NO jacket.	NO jacket.



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	NO jacket.	HAS jacket.



Like both Prefer V1 Prefer V2 Dislike both

Uploaded picture	Version 1 Result	Version 2 Result
	HAS jacket.	HAS jacket.



Questions:

1. Considering all the examples, in your opinion, which version is better at identifying a jacket in a picture **WHEN** there is a jacket in the picture?

Version 1 is better	Version 1 is slightly better	No difference	Version 2 is slightly better	Version 2 is better
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. How important do you believe it is for the software to identify a jacket in a picture **WHEN** there is a jacket in the picture?

Not at all important	Slightly important	Important	Fairly important	Very important
<input type="radio"/>				

3. Considering all the examples, in your opinion, which version is better at **NOT** identifying a jacket in a picture **WHEN** there is **NO** jacket in the picture?

Version 1 is better	Version 1 is slightly better	No difference	Version 2 is slightly better	Version 2 is better
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. How important do you believe it is for the software to **NOT** identify a jacket in a

picture **WHEN** there is **NO** jacket in the picture?

Not at all important	Slightly important	Important	Fairly important	Very important
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

5. Based on your answer from the previous four questions, which version would you use for the fashion software?

Definitely version 1	Version 1	No difference	Version 2	Definitely version 2
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. Why do you like version 1 more than version 2 (or vise versa)?

Smart-diary software

Smart-diary software:

Software description: This is a smart diary software that incorporates chat-bot features. A person will write a diary entry (any length) and upload it to the software. Then, the software will determine whether the diary entry's overall emotion is happy, sad, or neutral.

It replies to the person using such info.

You will be asked the following questions after you go through the software examples (you can read the questions now if you want, or just skip to the examples):

1. Considering all the examples, in your opinion, which version has a better match between the emotion in the response and the emotion in the uploaded diary entry?
2. Based on the software examples you just went through, which version would you use for the smart-diary software?
3. Why do you like version 1 more than version 2 (or vise versa)? (Don't need to answer if you choose no difference)

Software examples:

Uploaded diary entry	Version 1 Result	Version 2 Result
"Wanna sing. Can't. Sucks."	You might not be going through the best of times. Maybe you should seek help from a loved one or medical professional.	You might not be going through the best of times. Maybe you should seek help from a loved one or medical professional.

Like both Prefer V1 Prefer V2 Dislike both



Like both Prefer V1 Prefer V2 Dislike both

Uploaded diary entry	Version 1 Result	Version 2 Result
"I wish we had a Dunkin Donuts in Holland. Today my moms back from Japan. Can't wait to see her!"	You are having some AMAZING days! Enjoy them to the fullest!	Your posts show that you are having some decent times!

Like both Prefer V1 Prefer V2 Dislike both

Uploaded diary entry	Version 1 Result	Version 2 Result
"Off to London today."	Your posts show that you are having some decent times!	You might not be going through the best of times. Maybe you should seek help from a loved one or medical professional.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded diary entry	Version 1 Result	Version 2 Result
"Finally on the way out of office!!"	You are having some AMAZING days! Enjoy them to the fullest!	You are having some AMAZING days! Enjoy them to the fullest!

Like both Prefer V1 Prefer V2 Dislike both

Uploaded diary entry	Version 1 Result	Version 2 Result
"Finally going to bed after also staying up to watch the season premiere of the Hills!"	You are having some AMAZING days! Enjoy them to the fullest!	You are having some AMAZING days! Enjoy them to the fullest!

Like Prefer Prefer Dislike

both V1 V2 both

Uploaded diary entry	Version 1 Result	Version 2 Result
"I want the new GG episode already."	Your posts show that you are having some decent times!	You might not be going through the best of times. Maybe you should seek help from a loved one or medical professional.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded diary entry	Version 1 Result	Version 2 Result
"really don't feel like getting up today... but got to study to for tomorrows practical exam..."	Your posts show that you are having some decent times!	Your posts show that you are having some decent times!

Like both Prefer V1 Prefer V2 Dislike both

Uploaded diary entry	Version 1 Result	Version 2 Result
"Photoshop, I hate it when you crash."	You might not be going through the best of times. Maybe you should seek help from a loved one or medical professional.	You might not be going through the best of times. Maybe you should seek help from a loved one or medical professional.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded diary entry	Version 1 Result	Version 2 Result
"Last night was sooooooo much fun!"	You are having some AMAZING days! Enjoy them to the fullest!	You are having some AMAZING days! Enjoy them to the fullest!

Questions:

1. Considering all the examples, in your opinion, which version has a better match between the emotion in the response and the emotion in the uploaded diary entry?

Definitely version 1 Version 1 No difference Version 2 Definitely version 2

2. Based on the software examples you just went through, which version would you use for the smart-diary software?

Definitely version 1 Version 1 No difference Version 2 Definitely version 2

3. Why do you like version 1 more than version 2 (or vice versa)?

Smart-blog software

Smart-blog software:

Software description: This is a smart blog software that contains several channels for different topics, including food, travel, music, fashion, etc. A person will write a blog entry (any length) and upload it to the software. The software will then determine the blog entry's category and show it in the corresponding channel. Here we show a sub-component of the software. It checks whether the uploaded blog entry is talking about food.

You will be asked the following questions after you go through the software examples (you can read the questions now if you want, or just skip to the examples):

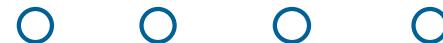
1. Considering all the examples, in your opinion, which version is better at determining whether a blog entry is talking about food **WHEN** the blog entry is talking about food?
2. How important do you believe it is for the software to determine whether a blog entry is talking about food **WHEN** the blog entry is talking about food?
3. Considering all the examples, in your opinion, which version is better at determining whether a blog entry is **NOT** talking about food **WHEN** the blog entry is **NOT** talking about food?
4. How important do you believe it is for the software to determine whether a blog entry is **NOT** talking about food **WHEN** the blog entry is **NOT** talking about food?
5. Based on your answer from the previous four questions, which version would you use for the smart blog software?
6. Why do you like version 1 more than version 2 (or vise versa)? (Don't need to answer)

if you choose no difference)

Software examples:

Uploaded blog entry	Version 1 Result	Version 2 Result
"The United States Food and Drug Administration is a federal agency of the Department of Health and Human Services."	NOT related with food.	NOT related with food.

Like both Prefer V1 Prefer V2 Dislike both



Uploaded blog entry	Version 1 Result	Version 2 Result
"While most songs about 'food' have hidden meanings — risqué or otherwise — they can still make the brain picture the literal lyrics."	NOT related with food.	NOT related with food.

Like both Prefer V1 Prefer V2 Dislike both



Like both Prefer V1 Prefer V2 Dislike both

Uploaded blog entry	Version 1 Result	Version 2 Result	Like both	Prefer V1	Prefer V2	Dislike both
"A traditional soul food dinner consisting of fried chicken with macaroni and cheese, collard greens, and fried okra."	Related with food.	Related with food.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Uploaded blog entry	Version 1 Result	Version 2 Result	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"Organic food is food produced by methods complying with the standards of organic farming."	Related with food.	Related with food.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Uploaded blog entry	Version 1 Result	Version 2 Result	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"Bird eggs are a common food and one of the most versatile ingredients used in cooking. Smaller eggs, such as quail eggs, are used occasionally as a gourmet ingredient in Western countries."	Related with food.	Related with food.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Uploaded blog entry	Version 1 Result	Version 2 Result	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Uploaded blog entry	Version 1 Result	Version 2 Result
"Livestock and poultry are carefully fed to increase the quality of such end products as meat, milk, or eggs."	NOT related with food.	Related with food.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded blog entry	Version 1 Result	Version 2 Result
"Throughout history, people have bought food from bakeries, creameries, butcher shops and other commercial processors to save time and effort."	Related with food.	Related with food.

Like both Prefer V1 Prefer V2 Dislike both

Uploaded blog entry	Version 1 Result	Version 2 Result
"Food production around the world relies heavily on agriculture. Farmers raise vegetables, livestock, and other products."	NOT related with food.	Related with food.

Questions:

- Considering all the examples, in your opinion, which version is better at determining whether a blog entry is talking about food **WHEN** the blog entry is talking about food?



2. How important do you believe it is for the software to determine whether a blog entry is talking about food **WHEN** the blog entry is talking about food?



3. Considering all the examples, in your opinion, which version is better at determining whether a blog entry is **NOT** talking about food **WHEN** the blog entry is **NOT** talking about food?



4. How important do you believe it is for the software to determine whether a blog entry is **NOT** talking about food **WHEN** the blog entry is **NOT** talking about food?



5. Based on your answer from the previous four questions, which version would you use for the smart-blog software?

Definitely version 1

Version 1

No difference

Version 2

Definitely version 2

6. Why do you like version 1 more than version 2 (or vice versa)?

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