

## TASK 3 – Aspect Labelling

**Page 1:** This page provide an introduction about the survey, essential information about IRB approval and contact info, participant information and some information about the number of questions and pages in this survey.



Thanks for choosing this survey. This survey aims to enhance user satisfaction when searching a query (the information need) on Google. This is a research project being conducted by Ms. Leila Tavakoli at RMIT University. Your participation in this research study is voluntary. **You are allowed to participate even though you contributed to the previous rounds.**

The procedure involves filling out an online survey that will take a few minutes. Your responses will be confidential and we do not collect identifying information such as your name, gender, age or email address. All data is stored in an RMIT password-protected electronic format. To help protect your confidentiality, the surveys will not contain information that will personally identify you. The results of this study will be used for scholarly purposes only and may be shared with RMIT University representatives.

If you have any questions about the research, please contact Ms. Leila Tavakoli via email at [leila.tavakoli@rmit.edu.au](mailto:leila.tavakoli@rmit.edu.au).

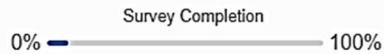
This research has been reviewed according to RMIT University IRB procedures for research involving human subjects. The IRB approval number is 66-19/22334. Please read the full participant information details which are available here:

[Participant Information Sheet](#)

Please read the following instruction and answer **6** questions given in **9** pages to complete the task. You have 1 hour to complete this survey. [Loading the next page may take a few seconds](#).

By taking this survey you agreed with this electronic consent. Please note that there are several attention check questions in the task. If you do not answer them correctly, you will NOT be compensated.

**Page 2:** This page provide the instruction of the survey and the steps which need to be done by the workers. There is also a CAPTCHA to detect



### Introduction

Assume whenever Google cannot understand the information you request from the query you submit, it asks you a multi-choice clarification question. By answering this clarification question, you receive the information you need much faster.

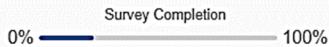
In this study, we are going to assess the quality of clarification questions generated by the Google search engine for given queries from the users' points of view. The study will be conducted in two sequential steps:

- In the first step, you are given a query submitted to Google and the search result shown by Google. You are expected to review all search results and answer one question.
- In the second step, a multi-choice clarification question asked by Google is shown. You are expected to judge the clarification question and its potential answers in terms of different aspects.

Check the box to go to the next page.



**Page 3:** To ensure workers pay attention to the different aspects of the query and the document summaries, we show them eight relevant summaries and one irrelevant summary in addition to the query. Workers are then asked to identify the irrelevant document summary, which is placed in a random rank position for each task. For this example, document #6 is irrelevant.



Assume you have googled a query and Google has shown you several results on the first page. The query and the search results are shown below. Please read the results carefully. (Some results might be blank)

**Query:**  
yucca

**Result #1:**

**[Yucca Wikipedia](#)**

Yucca is genus of perennial shrubs and trees in the family Asparagaceae subfamily Agavoideae Its 40 50 species are notable for their rosettes of evergreen tough sword shaped leaves and large terminal panicles of white or whitish flowers They are native to the hot and dry parts of the Americas and the Caribbean Early reports of the species were confused with the cassava Manihot esculenta

**Result #2:**

**[Yucca Uses Side Effects Interactions Dosage and Warning](#)**

Yucca is the common name for the more than 40 species of plants in the Yucca genus The root of the non flowering plant is used to make medicine Yucca is used for osteoarthritis high blood

**Result #3:**

**[Yucca Better Homes amp Gardens](#)**

The yucca plant has co evolved alongside several species of moths their symbiotic relationship benefits both plants and moths The yucca emits fragrance at night to attract the moths to pollinate them As the moths begin to mate the female finds freshly opened bloom and works her way down to the ovary of the flower

**Result #4:**

**[The Health Benefits of Yucca](#)**

Yucca shouldn't be confused with yuca which is root vegetable also known as cassava Yucca offers numerous health benefits and is often used medicinally Parts of the yucca plant can be

**Result #5:**

**[Yucca Uses Benefits amp Side Effects Drugs com Herbal](#)**

Yucca plants are characterized by stiff evergreen sword shaped leaves crowded on stout trunk There is dense terminal flowerhead faintly resembling candle The flowers are white or greenish All yucca plants depend for pollination on nocturnal yucca moths Each variety of moth is adapted to single species of yucca Scientific Name

**Result #6:**

**[Amazon com 22 inch smart tv](#)**

VIZIO Series 24 Inch Class 1080p Full HD LED Smart TV D24F G1 with Built in HDMI USB SmartCast Voice Control Bundle with XRYX 6 5 ft HDMI Cable and Accessories 3 8 out of 5 stars 14 199 99 199 99

**Result #7:**

**[How to Grow and Care for Yucca Plants Garden Design](#)**

Yucca aloifolia Commonly called Spanish bayonet or aloe yucca Zones 8 11 Height Spread Up to 20 feet tall 4 feet wide and with clumps to 10 feet wide Exposure Partial to full sun Bloom time Early summer Color Green leaves cream to white flowers The leaves of this yucca are extremely sharp hence the common name of Spanish bayonet

**Result #8:**

**[Yucca Growing How to Care for Yucca Plants Outside](#)**

Yucca Growing Outdoors As it is native of the southwestern United States yucca thrives in soil that drains well and can be in full sun It is also able to withstand temperatures as cold as 10 12 so you can grow b yucca plant in many different climates

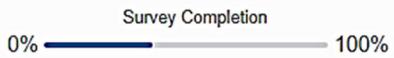
**Result #9:**

**[Yuca Recipes Food Network Food Network](#)**

This hardy root vegetable fries up wonderfully Find recipes for yuca fries chips and more

**Question 1:** One result does not belong to the given query and is **irrelevant**. Please write down the number of the irrelevant result in the box below.

**Page 4:** In this page, we show the workers the query and a clarification pane that is generated for the given query and inform the workers that they will answer a few questions about it in next few pages.



To understand your query accurately, Google has asked you a multi-choice clarification question as below.

Please answer the questions in the next pages. (Note: Rotate your screen to landscape if you do it on your mobile.)

**Query:**  
yucca

**Multi-choice clarification question:**

Select one to refine your search				
yucca valley	yucca mountain	yucca desert	yucca lake	yucca canyon

**Page 5:** In this page, we ask the workers to provide their opinions about “*coverage*” of the clarification pane. We give them the definition of the *coverage* and show them a clarification pane with high coverage and a clarification pane with low coverage as examples.



*Checking the coverage of the multi-choice clarification question.*

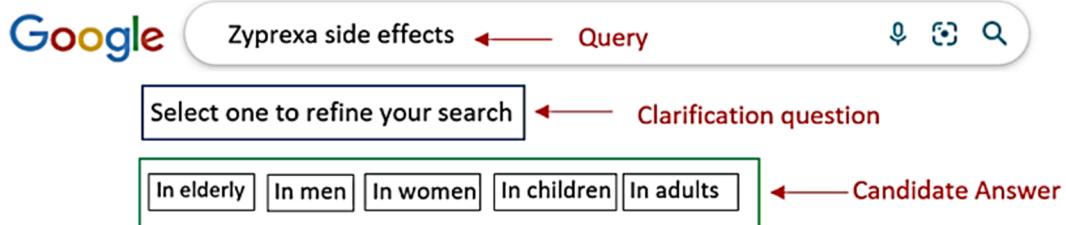
(Note: Rotate your screen to landscape if you do it on your mobile.)

**Definition:** A multi-choice clarification question has high coverage if its potential answers cover every potential aspect of the query.

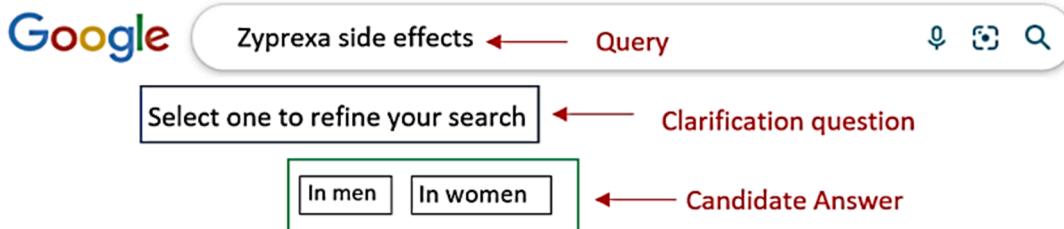
Examples:

[more](#)

*Example of a multi-choice clarification question with **high coverage**:*



*Example of a multi-choice clarification question with **low coverage**:*



**Question 2:** Does the multi-choice clarification question have a **high coverage** for the given query?

**Query:**  
yucca

**Multi-choice clarification question:**

Select one to refine your search				
yucca	yucca mountain	yucca desert	yucca lake	yucca canyon

Strongly agree

Somewhat agree

Neither agree nor disagree

Somewhat disagree

Strongly disagree

**Page 6:** In this page, we ask the workers to provide their opinions about “*diversity*” of the clarification pane. We give them the definition of the *diversity* and show them a clarification pane with high diversity and a clarification pane with low diversity as examples.

Survey Completion  
0% ————— 100%

*Checking the diversity of the multi-choice clarification question.*  
(Note: Rotate your screen to landscape if you do it on your mobile.)

**Definition:** A multi-choice clarification question has high diversity if its potential answers do not contain redundant information.

Examples:  
[more](#)

*Example of a multi-choice clarification question with high diversity:*

The screenshot shows a Google search bar with the query "Gift for grandfather". Below the search bar is a button labeled "Select one to refine your search". Underneath this button are two options: "birthday" and "Christmas", both enclosed in a green rectangular box. Red arrows point from the text "Candidate Answer" to the "Select one to refine your search" button and from "Clarification question" to the green box containing "birthday" and "Christmas".

*Example of a multi-choice clarification question with low diversity:*

The screenshot shows a Google search bar with the query "reading quote". Below the search bar is a button labeled "Select one to refine your search". Underneath this button are two options: "baby" and "kids", both enclosed in a green rectangular box. Red arrows point from the text "Clarification question" to the "Select one to refine your search" button and from "Candidate Answer" to the green box containing "baby" and "kids".

**Question 3:** Does the multi-choice clarification question have a **high diversity** for the given query?

**Query:**  
yucca

**Multi-choice clarification question:**

Select one to refine your search				
yucca valley	yucca mountain	yucca desert	yucca lake	yucca canyon

Strongly agree  
 Somewhat agree  
 Neither agree nor disagree  
 Somewhat disagree  
 Strongly disagree

**Page 7:** In this page, we ask the workers an attention check question to ensure that the workers do not answer the questions randomly.



**Question 4: Today is Friday. Which day was yesterday?**

Thursday

Saturday

Sunday

Tuesday

**Page 8:** In this page, we ask the workers to provide their opinions about “*understandability*” of the clarification pane. We give them the definition of the *understandability* and show them an understandable clarification pane and a non-understandable clarification pane as examples.



*Checking the **understandability** of the multi-choice clarification question.*

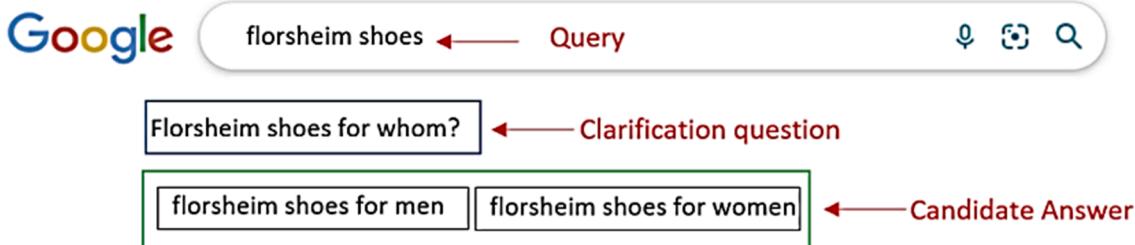
(Note: Rotate your screen to landscape if you do it on your mobile.)

**Definition:** A multi-choice clarification question is understandable if it is easily readable and meaningful. (Assume this is the query you have submitted and you understand the meaning of your query. Now the question is to check whether the multi-choice clarification question is understandable for your query or not.)

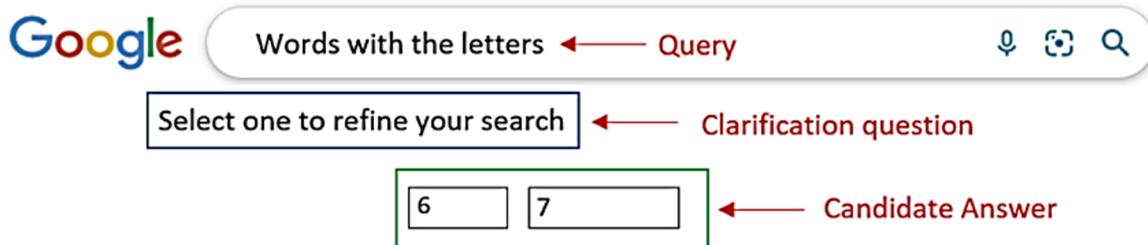
*Examples:*

[more](#)

*Example of a multi-choice clarification question with **understandable**:*



*Example of a multi-choice clarification question with **non-understandable**:*



**Question 5:** Is the multi-choice clarification question **understandable** for the given query?

**Query:**  
yucca

*Multi-choice clarification question:*

Select one to refine your search				
yucca valley	yucca mountain	yucca desert	yucca lake	yucca canyon

Strongly agree

Somewhat agree

Neither agree nor disagree

Somewhat disagree

Strongly disagree

**Page 9:** In this page, we ask the workers to provide their opinions about “*importance order*” of the candidate answers in a clarification pane. We give them the definition of the *importance order* and show them a clarification pane with correct order for candidate answers and a clarification pane with incorrect order for the candidate answer as examples.



**Checking the *importance order* of the multi-choice clarification question.**

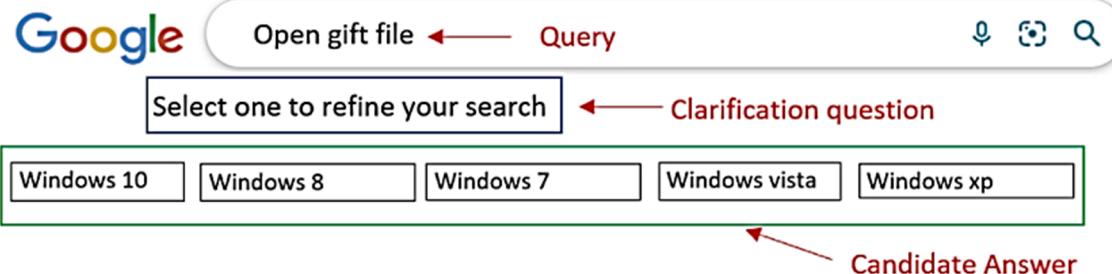
(Note: Rotate your screen to landscape if you do it on your mobile.)

**Definition:** A multi-choice clarification question has the correct order if the most relevant and important answers to the different aspects of the query are positioned from left to right.

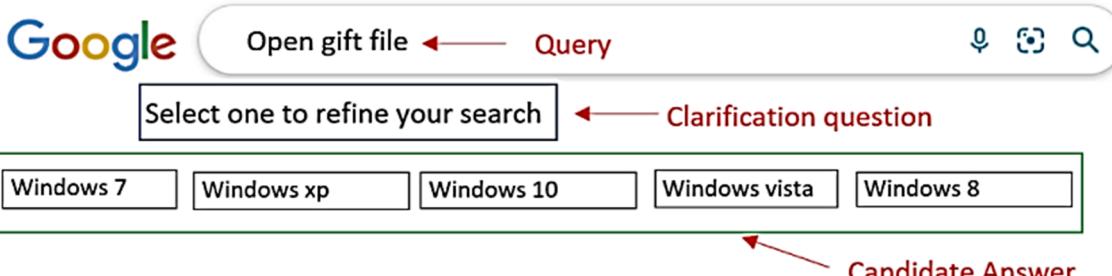
**Examples:**

[more](#)

*Example of a multi-choice clarification question with **correct order**:*



*Example of a multi-choice clarification question with **incorrect order**:*



**Question 6:** Does the multi-choice clarification question have the **correct order** for the given query?

**Query:**  
yucca

**Multi-choice clarification question:**

Select one to refine your search				
yucca valley	yucca mountain	yucca desert	yucca lake	yucca canyon

- Strongly agree
- Somewhat agree
- Neither agree nor disagree
- Somewhat disagree
- Strongly disagree

**Final Page:** This is the last page and we ask workers to take the randomly generated code shown here in their submission on Mechanical Turk. This the final stage of quality check.



Thank you for your time.  
Please provide your feedback. It will help us to improve this survey.

Here is your Mechanical Turk code:

CQ-73675-CC



Submit