# USING OAS.WEB.ID TO CREATE ENGLISH VOCABULARY SIZE QUIZ 

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#### Abstract

A systematic and continuous vocabulary assessment is required to monitor the progress of learners' learning and readiness to follow certain instr8uctional programs. The purpose of this study is to report a tryout of constructing an online quiz using http://oas.web.id/. OAS is an ongoing R\&D project to help teachers and/or educational researchers create an online quiz by converting multiplechoice questions from a spreadsheet program (i.e. MS Excel or Google Sheets) into a Google Forms quiz, Moodle, paper-based quiz, Kahoot, or any other quiz makers that have import facility. This paper focuses on describing the making and tryout of a vocabulary-size quiz into Google Forms quiz to find out whether the resulting quiz works. The result shows that OAS offered an easy and very quick way in creating a vocabulary-size quiz successfully by copying the already available vocabulary-size questions based on Nation and Beglar's Vocabulary Size Test. The researcher and the voluntary test students got the scores immediately after they had submitted the Google Forms. It can then be concluded that the OAS created the vocabulary quiz successfully without any serious technical problems.


Keywords: Google forms, Online vocabulary test, Online answer sheet (Oas)


#### Abstract

ABSTRAK Sebuah asesmen kosakata yang sistematis dan berkelanjutan diperlukan untuk memonitor kemajuan dan kesiapan pembelajar untuk mengikuti program-program pembelajaran. Tujuan dari penelitian ini adalah untuk melaporkan sebuah uji coba dari penyusunan sebuah kuis dalam jaringan menggunakan http://oas.web.id/. OAS adalah sebuah proyek penelitian dan pengembangan untuk menolong guru-guru dan/atau peneliti-peneliti pendidikan membuat sebuah kuis dalam jaringan dengan cara mengonversi pertanyaan-pertanyaan pilihan berganda dari sebuah program lembar kerja (misalnya Microsoft Excel atau Google Sheets) ke dalam kuis Google Forms, Moodle, lembar kuis cetak, Kahoot, atau programprogram pembuat kuis lainnya yang memiliki fitur impor. Paper ini fokus pada penggambaran proses pembuatan dan uji coba sebuah kuis kosakata dengan Google Forms untuk mengetahui apakah kuis tersebut bisa digunakan. Hasilnya menunjukkan bahwa OAS menawarkan sebuah cara yang mudah dan sangat cepat dalam membuat sebuah kuis kosakata dengan menyalin pertanyaanpertanyaan kosakata yang telah disediakan berdasarkan tes kosakata Nation and Beglar's. Peneliti dan mahasiswa/i yang berpartisipasi di uji coba, langsung mendapatkan hasil kuis setelah mereka mengumpulkan Google Forms. Kemudian dapat disimpulkan bahwa OAS sukses membuat kuis kosakata tanpa ada masalahmasalah teknis yang berarti.


Kata kunci: Google forms, Kuis kosakata dalam jaringan, Online answer sheet (OAS)

## Introduction

The role of vocabulary in language teaching has been in and out of fashion and has been debated by many teachers and linguists. There have been numerous different approaches to language learning, each with a different perspective on vocabulary. At times, vocabulary has been given a prominent place in teaching methodologies, and at other
times more or less ignored. This section provides a brief historical review related to vocabulary learning up to the current state of the art.

The 1920s witnessed the beginnings of what has come to be called the Vocabulary Control Movement. One of the most significant types of research was frequency list studies to select the most useful words for language learning. The researchers aimed to help educators and teachers determine which words were likely to be used at certain grade levels. It was chiefly used as an objective criterion of the appropriateness of lexical items in schoolbooks and as a basis for the construction of achievement tests in vocabulary, reading, and spelling. It was also taken as a basis for word lists for foreigners learning English. The General Service List of English Words (West, 1953) is considered the best achievement in the Vocabulary Control Movement. The list consists of almost 2000 words and has played a major role in determining the lexical content of ESL/EFL course books and has still been widely used today.

After World War II, there was an increasing interest in the scientific study of language. The Audio-Lingual Method (ALM) was firmly grounded in linguistic and psychological theory at that time. The emergence of the ALM as the dominant teaching methodology had a direct and harmful effect on further developments in vocabulary teaching and research (Singleton, 2000). It can be said that the period from 1945 to 1970 was a dividing line for vocabulary as an aspect of language teaching in its own right. The arguments for teaching heavy doses of syntax went largely unchallenged.

By the 1970s, ALM had slowly been abandoned and since the late 1970s, there had been a revival of interest in vocabulary teaching. Representative samples of interest in vocabulary teaching and its development in the 1970s and 1980s could be found in several articles (e.g. Wilkins, 1972, Twaddell, 1973, Lord, 1974, Richards, 1976, Judd, 1978, Nation, 1982), and in books such as Carter and McCarthy (1988). Wilkins (1972), for example, writes: "without grammar, very little can be conveyed, without vocabulary, nothing can be conveyed" (p.111).

Although vocabulary is no longer a victim of discrimination in SLA research or language teaching (Laufer, 1997), it is still largely ignored by Indonesian EFL teachers and/or researchers. Until now, not many Indonesian EFL teachers realize the vital role of vocabulary. Some studies have been conducted to investigate the vocabulary size of Indonesian students, for example, Quinn's study (1968); Nurweni's
study (1995), Kweldju's study (1997), Nurweni and Read's study (1999); Kweldju et al.'s study (2000). More recent vocabulary-size studies investigating the vocabulary size of Indonesian students were conducted by Kurniawan (2017), Sudarman and Chinokul (2018), and Siregar (2020).

Some studies show that Indonesian students' poor mastery of English was mostly because of their limited size of English vocabulary. The results of vocabulary-size studies conducted in Indonesia show that high-school leavers' vocabulary size has not reached the target specified in the national curriculum.

Vocabulary learning is a field of investigation that has seen an explosion of experimental research in the past few decades. There are many dimensions to vocabulary learning, as reflected in the various areas of research being done on the topic. The recent development of vocabulary learning studies can be easily read in papers reviewing a dimension of vocabulary learning. Ramos (2015), for example, provides a literature review of incidental vocabulary learning.

The use of educational technologies for vocabulary learning has received increasing attention from language learners, educators, and researchers. For example, Lin and Lin (2019) review the use of mobileassisted ESL/EFL vocabulary learning, and Zou, Huang, and Xie (2021) review studies on digital game-based vocabulary learning.

## Vocabulary size-test

The development of lexical knowledge is now regarded as central to learning a language, by both researchers and teachers. Vocabulary is an essential building block of language; therefore, it makes sense to be able to measure learners' knowledge of it (Read, 2000). If learners are not tested on vocabulary, they might conclude that vocabulary does not really matter.

Vocabulary knowledge is not an all-or-nothing phenomenon but involves degrees of knowledge. It should be seen as a continuum, or continua, consisting of several levels and dimensions of knowledge (Read, 1989; Schmitt, 1999). They cover spelling, pronunciation, grammatical form, relative frequency, collocation, and restrictions on the use of the word, as well as the distinction between receptive and productive knowledge Nation (1990).

There are several different types of vocabulary tests. This study focuses on one type that is called vocabulary "size" or "breadth" tests. The purpose of the tests is to measure how many words EFL learners know. The tests provide estimates of the learners' abilities. Vocabularysize tests seem to be valid indicators of language ability in a broad sense.

Although word knowledge involves more than just the link between form and meaning, vocabulary-size tests focus on the formmeaning link because word meaning is the central component of word knowledge (Laufer \& Goldstein, 2004). The tests may cover many lexical items and are operationalized in discrete and context-independent test items. Compared to other vocabulary tests that are available at the moment, vocabulary-size tests have the following advantages according to Laufer and Goldstein (2004):

Tests of vocabulary size have been shown to predict success in reading, writing, and general language proficiency as well as academic achievement (Laufer 1997, Saville-Troike 1984) whereas other types of vocabulary tests yet have not. Therefore, size tests allow for more efficient placement and admission in language teaching programs than depth tests or fluency tests. Moreover, size tests can function as relatively simple and efficient research instruments providing us with the vocabulary size of the participants at the beginning of the treatment and showing the growth in vocabulary after the experimental intervention. (p. 401-402)

Read (2000) stated, although the vocabulary-size test seems superficial when compared to the vocabulary test that in-depth investigate a limited number of words, the vocabulary-size test is more
popular because it can provide a more representative picture of the overall state of the learner's vocabulary.

There have been some vocabulary-size tests available, for example, Vocabulary Levels Test (Krummel \& Schmitt, 2017). The typical formats used for vocabulary size tests are multiple-choice (e.g., Nation \& Beglar, 2007), word-definition matching (e.g., Beglar \& Hunt, 1999, Nation, 1993), word completion (e.g., Laufer \& Nation, 1999), and the checklist (e.g., Meara, 1992).

This study uses the data from the Vocabulary Size Test made by Nation and Beglar (2007). The test was developed to provide a reliable, accurate, and comprehensive measure of a learner's vocabulary size from the $1^{\text {st }} 1000$ to the 14th 1000 -word families of English. The test consists of 140 items (ten from each 1000 -word level) to see how close learners are to having enough vocabulary to perform certain tasks such as reading a novel, reading newspapers, watching movies, and listening to conversations. The goal of around 8,000-word families is an important one for learners who wish to deal with a range of simplified spoken and written texts. It is thus helpful to know how close learners are to this critical goal.

Below are three sample items from the $1^{\text {st }}, 4^{\text {th }}$, and $8^{\text {th }} 1000$-word levels from Nation and Beglar's (2007) Vocabulary Size Test. It can be seen that the higher the word level, the more difficult the item:

1. SEE: They saw it.
a. cut
b. waited for
c. looked at
d. started
2. COMPOUND: They made a new compound.
a. agreement
b. thing made of two or more parts
c. group of people forming a business
d. guess based on past experience
3. ERRATIC: He was erratic.
a. without fault
b. very bad
c. very polite
d. unsteady

The vocabulary size tests discussed above are originally paperbased tests that were difficult to be administered during the Covid-19 pandemic because all teaching-learning activities are conducted online. Even if it is possible to administer paper-based tests, it is not convenient or very time-consuming to grade the tests, and difficult to do item analysis. Some of the vocabulary size tests have been transformed into online tests that are freely available to the public. EFL students may take the test individually, but it is not practical for teachers to ask their students to take the online tests because the tests usually do provide the score of each test taker. They do not provide descriptive statistics for a group of students from a class. Therefore, this study is conducted to help teachers make a vocabulary size test more easily using http://oas.web.id/ (Hananto, 2021).

## Research method

The research method employed in this research is the same as the previously completed five-stage R\&D model done by the researcher in 2021 that went through (1) Preliminary Research Phase, (2) Model Development Phase, (3) Model Validation Phase, and (4) Effectiveness Test Phase, and to (5) Dissemination Phase. At the moment, another preliminary test is done for a vocabulary study test with the hope that this can be used as longitudinal research at a private Christian teachers college. Eight college students from English language teaching who are in their $5^{\text {th }}$ semester participated in this research as they piloted the vocabulary size test on June 27, 2022. The researcher gave them the link and they did the $8^{\text {th }} 1000$-word level. The test had 10 vocabulary MCQs with five options.

Basically, there are 9 steps for using oas.web.id to create a multiple-choice question (MCQ) vocabulary test and those steps can be categorized into three stages. The first stage is the test items preparation in which for instance an English teacher using this app in the future, prepares 20 numbers of MCQ and its answer keys or selects 20 numbers provided by the researcher inside the spreadsheet. If the English teacher chooses to use the provided ones, it is recommended use levels 7 and 8 provided in the spreadsheet (See figure 1).


Figure 1. The $7^{\text {th }}$ and $8^{\text {th }}$ Level

## Starting using oas.web.id

As any English teacher in the future plans to use the vocabulary test using oas.web.id, he/she may visit oas.web.id and will be redirected to onlineanswersheets.glideapp.io. The user/teacher then needs to click on "Google Forms Quiz +" and then click on "Input Question Link" to be in the spreadsheet provided by the researchers. In that spreadsheet entitled 'MASTER DATA', they need to go to sheet 'VST' to find the vocabulary questions, options, and answer keys (see previous Figure 1). Then they need to copy the A62-G81 area and go to sheet 'DATA' to paste it in B1 space by clicking Ctrl-V.

The second stage is sharing and conducting the test which begins with the English teacher clicking 'here' in row 2 on the same spreadsheet
page, that is the 'MASTER DATA' sheet. He/she will receive an email containing four links and then need to click on link no. 2 as follows

H hananto.besmart@gmail.com
Kepada: Yonathan Winardi; Hananto

Thank you. The following are your Google Forms Quiz + links:
Google Forms Name: No 122. Google Forms Quiz+

1. Link to Edit Forms:
https://docs.google.com/forms/d/1kX633MTFAb1WmrSGLtafbGYfpYSe5By8NJXWYGVDO5M/edit
2. Link to View Form for Students:
https://docs.google.com/forms/d/e/1FAlpQLSe69nWhvNrYKDzH84nj8CEgAYLdplyDgoBco-ldYB63fE8DnO/viewform
3. Link to Google Sheet Responses:
https://docs.google.com/spreadsheets/d/1v-Agnha9PGgo54bxiN-4BL9VO31kBSg2ecPF9xBF27k/edit
4. Link to Additional Statistics:
https://docs.google.com/spreadsheets/d/167AoEBKnOie8DP4EcGY9PANto2xJKjDkHhTHk5YLIg//edit?usp=sharing
```
G Balas << Jawab semua }->\mathrm{ Teruskan
```

Figure 2. Initial Step to Share the Vocabulary Test
Number 2 of the above links can then be shared with test-takers, the students in the English class. The test takers then use link no. 1 to edit the test whenever necessary and to complete the test instruction such as how long the test duration is and whether they can or can not open dictionary nor ask a friend.

The third stage is the analysis stage which mainly uses link no. 4 (See figure 2 above). After all students have done the test, then the researcher can directly check and analyze the test results, starting from some basic information such as average, median, and mode. Average is a score of all numbers in the data set divided by the number of values in the set. The Median is the middle score when a data set is ordered from least to greatest and mode one score that occurs most often in a data set. There is also the score frequency distribution shown on the left side. Below are some data that can be displayed, provided by the oas.web.id in the spreadsheet entitled '--OUTPUT MASTER Form 1' and inside sheet 'Statistics'


Figure 3. Frequency Distribution and Basic Statistics Info

Figure 4 below is the histogram of the test-takers achievement that is provided inside the sheet 'Histogram' and figure 5 shows the item analysis. The pink color, that appears in some parts in figure 5 , shows that the distractor is weak or ineffective and the level of difficulty of that question is too easy so it needs to be revised. This feature surely can help the English teacher to identify poor questions and distractors so improvement can be made fast. The practice of knowing item difficulty and distractor analysis in the past required extensive calculation, but now using oas.web.id it can be done just in time


Figure 4. The Histogram
--OUTPUT MASTER Form 1 \& © ©
File Edit Tampilan Sisipkan Format Data Alat Ekstensi Bantuan


Figure 5. The Item Analysis

## Trying out the vocabulary test

In the tryout done by the researcher with 8 female pre-service teachers in the faculty of education, almost all participants vividly stated that there was no issue or obstacle when they tried the vocabulary test using their own handphone. They all are taking English language education major. Below is the table showing their results and opinion

Table 1. Tryout Results

| Score | Coding | Opinion |
| :---: | :---: | :---: |
| $10 / 10$ | S1 | "There was no problem" |
| $5 / 10$ | S2 | "I didn't face any problem, but I just |
| never heard/read some of those |  |  |
| vocabularies" |  |  |

In addition to that success in the tryout, the tryout results are normally distributed which can signal that the vocabulary test is valid and good. The normal distribution shows the test is not too easy nor too difficult.

## Conclusion

Using oas.web.id to create vocabulary size test is simple, useful, and has been piloted with no technical issues. It can provide any English teacher who plans to use it in the future with quick results and with further analysis such as frequency distribution of the scores and its
histogram as well as item analysis which covers item discrimination, item difficulty, and distractor analysis. There are three stages in using oas.web.id: preparation, testing, and analysis, that will lead an English teacher to conduct formative and even summative vocabulary tests to monitor and improve his/her students' performance. Although the maximum number of questions oas.web.id can cater is 50 , it is considered sufficient and efficient to be done. It is recommended to conduct longitudinal research on more pre-service teachers to find out their prior vocabulary size, progress, and the relationship between their vocabulary size with their academic English performance during their college.

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