A Content Analysis Of The Colors In The American Language **Course Textbook That Implemented At Prince Faisal Technical** College

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Abstract

This study aimed at analyzing the colors of the American Language Course textbook (ALC) at Prince Faisal Technical College in order to investigate if these colors agree with Goethe's Theory of Colors. The descriptive quantitative design is used to evaluate the colors in the ALC textbook. To achieve the purpose of the study, all the pictures in the ALC textbook were analyzed and categorized into three groups. The results showed that 55.7% of the colors were found in the tertiary color group as the first rank. The secondary color group gained the second rank with 47.6%, whereas the primary colors gained the third rank with 41.6%.

Keywords: American Language Course Textbooks, Content Analysis, Prince Faisal Technical College.

Introduction

of the most often used learning tools, Everybody has (Sarem, Hamidi & Mahmoudie, 2013). access to textbooks whenever and wherever they choose to learn. Particularly for kids, the textbook becomes the primary resource in their learning process. A textbook is plays a significant role in the educational process. Both a teaching resource that is available in the classroom for cadets and teachers profit from ALCs if the course practically all teachers. In addition to the teacher's equips them with the abilities necessary for teaching and explanation, it can help learners (Asiyah, Syafri & learning because English instruction may be inadequate Hakim, 2018).

functions as both a course book and a set of instructions and influence of the colors on cadets' learning. for teaching and learning. A textbook is a lesson manual

content, including exercises, reading passages, writing prompts, and grammar and vocabulary review. Students can study from a variety of materials in this age Additionally, it contains a lot of pictures and other of globalization. They have access to the internet, graphics to draw readers in while they read it. A lot of television, and even English language courses to learn textbooks are now released. Before using a book as the (Hakim, Aryati & Kurniawan, 2020). Textbooks are one basis for a lesson in class, a teacher should evaluate it

Prince Faisal Technical College's ALC textbook without a solid course (Hutchibson & Torres, 1994). Additionally, it plays a significant role in people's life The primary source for teaching and learning in because it is simple to use whenever and whenever class is the textbook. Students and teachers can use the cadets need it. It also has a lot of benefits, like tracking textbook as a guide. According to Mahmood (2011) cadets' development and accomplishment (Hycraft, textbooks can make it simple for pupils to comprehend 1998). So the leadership of Prince Faisal Technical the subject matter. The textbook has written content that College seeks to improve the ALC permanently because has been organized logically to aid students in of the importance of the course in the learning process. understanding topics in addition to the teacher's Therefore, it is important to conduct this study to analyze explanation in class. In this instance, the textbook the colors in the ALC textbook to find out the importance

The course needs to have a wide range of colors. that instructors and students use to methodically follow According to Vetter, Ward, and Shapiro (1995), giving a language course (Hakim & Abidin, 2018). According classroom instruction some color may improve students' to Hakim and Saputra (2018) book includes some written performance. Additionally, according to Buckingham students in learning. According to the findings of their changes to be made. study, pupils in grades 4 and 5 are more interested in colorful maps than those that are only black and white Purpose of the Study (Buckingham & Harrower, 2007).

light colors and high chromatic contrast ones are more appealing to younger students. Mahnke (1996) argues Questions of the Study that pictures of many colors are effective in attracting This study seeks to answer the following questions: young children in basic classes. Contrarily, youngsters who concentrate on the colors may become less focused, as demonstrated in Piaget's speech, while their attention is drawn more to features like form (Otto & Askov, 1968).

There have been numerous evaluation studies on the currently taught series "Action Pack" for various grades, Significance of the Study but none of them have examined the colors used in For the academic year 2021-2022, the ALC was ALC's illustrations. Content analysis is one of the best introduced for the Prince Faisal Technical College tools available for evaluation. The outcomes of the cadets. To the best of the researcher's knowledge, this is content analysis may give course authors and decision- the first investigation of the ALC colors to be conducted makers a complete picture of what changes should be in Jordan. The results of this study will be beneficial to made to the analyzed textbook.

Statement of the problem

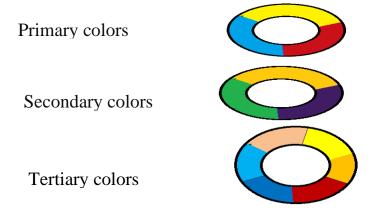
According to the expert, the amount of research on colors interested academics. and their influences on cadets' learning is lacking. Based on these findings, the researcher hopes to further the field Criteria of Analysis of study and close the gap in the amount of literature The following three- groups of colors are used as criteria regarding how to evaluate the colors of English courses. for the analysis: By examining the pictures through the perspective of

and Harrower (2007), employing color in the classroom color theory, this study, as is intended, will identify the is required, especially in the lower grades to engage colors utilized in the ALC textbook, which may enable

This study aimed to evaluate the colors used in the ALC On the other hand, Mahnke (1996) agrees that textbook at Prince Faisal Technical College in Jordan.

- 1. To what extent do the colors of the ALC textbook agree with the color theory proposed by Goethe?
- 2. What are the most and least used colors in all the textbook modules?

people with an interest in curriculum development. The results of the current study are anticipated to promote educational research and provide new prospects for



Unit of Analysis

All the pictures are analyzed based on three- categories This study is limited to all pictures that are used in the study.

Limitations of the study

of the colors as the unit of the analysis of the current "ALC textbook", which is taught in 2022 for cadets at Prince Faisal Technical College.

Definitions of Terms

American Language Course: the course which is employed by Prince Faisal Technical College. It has characteristics. Before starting any form of analysis, the many levels. In the case of the present study, courses at researcher should be systematic and objective (Riff, level 2 will be investigated.

Prince Faisal Technical College: It is a college located 2004). in Amman whose aim is to graduate military personnel who are experts in aircraft, engineering, electricity, and other professions in many sectors of the air force.

Color Theory: it has different definitions, such as concepts and categories, but the present study focuses on the color wheel.

Theoretical background

The theoretical and empirical options for synthesis and analysis are introduced in this section. Only three of color theory's fundamental categories—color wheel, color harmony, and color usage context—are more sensible and practical. Color theory has many concepts, definitions, and design applications. The color wheel is the subject of this investigation. The red, yellow, and blue color circle was first attempted to be developed by Sir Isaac Newton. He also created the rules for blending colors. This innovation enables white light to pass through two crystals and distort it into shadowy forms. The seven wavelengths of the visual spectrum served as the foundation for the invention of the color wheel (Bell, 2013).

Content analysis has been defined as systematic, repeatable method for grouping numerous text categories based on clear coding principles (Berelson, 1952). It was also defined as "any technique for making inferences by objectively and systematically identifying specified characteristics of messages" Thus, content analysis is not limited to textual analysis but can also be applied to other areas such as coding student drawings or coding of actions observed in videotaped studies. In order to allow for replication, however, the technique can only be applied to data that is durable in nature. (Holsti, 1969, p. 14).

Content analysis is used to guide actions by making new and valid inferences from the data in their context (Downe Wamboldt, 1992). Content analysis was initially primarily used to evaluate the text, but later on, essentially when a sizable sample was discovered, it was utilized to examine the visual communications. Additionally, symbolic material can be examined using the method of content analysis. The current study's

analysis of the material is restricted to the hues of the images used in the ALC textbook (Rose, 2007).

Research using content analysis has some key Lacy & Fico, 2014). The content can be coded into several categories to complete this phase (Krippendorff,

The significance of the colors in the textbook can be highlighted through the use of content analysis (Torrice & Logrippo, 1989). A lot of researches have been conducted on the significance of color and its facets, including its influence on the bodily systems of humans and the connection between color and mood and energy (Kueller & Mikellides, 1993).

There hasn't been any research done on how color affects education. Numerous studies have investigated the relationship between color and various facets of education, including students' motivation (Otto & Askov, 1968), age and color preference in surrounding environments (Jalil, Yunus, & Said, 2013), students' attention level and cognitive and learning abilities (Jalil et al., 2013), memory performance and attention keeping (Kim, 2010), and emotion as well as academic performance (Gaines & Curry, 2011).

Despite the fact that the colors are a key visual component of the textbook, the researcher has not been able to find enough studies that examine color and attempt to assess its potential impact on student learning.

Review of Related Literature

Abu Sa'aleek, R. (2018) Conducted a study to analyze the colors of "Action Pack 12" for the twelfth grade in order to investigate whether these colors agree with the color theory proposed by Goethe (1810). To achieve the purpose of the study, all the pictures of the textbook were analyzed and categorized into three groups. The results showed that more than 50% of the colors were found in the tertiary color group as the first rank. The second color group gained the second rank with 44.9%, whereas the primary colors gained the third rank with 39%.

Kasmaienezhad-Fard et al., (2017) examined the colors used in Malaysia's primary English textbook as well as the color preferences of 384 students. The study's findings revealed that primary colors received the highest rate of analysis in the images. Furthermore, the findings revealed that students prefer tertiary colors.

Roohani and Sharifi (2015) evaluated the visual elements in Interchange 3 and Top Notch 3B as the English textbook. The study's goal was to find a balance instructional or decorative. Three English as a Foreign between black-and-white and color drawings and photos, Language (EFL) textbooks produced by major English as well as to investigate the extent to which visual Language Teaching (ELT) publishers were surveyed to materials are used for decorative purposes. According to determine the possible learning functions images play in their findings, color pictures account for a large the texts. The findings revealed that while many images percentage of illustrations in both textbooks. According in ELT textbooks do not have active learning tasks for to the findings, Interchange 3 has more drawings than students, the majority of images still had a passive Top Notch 3, which has more photos.

Hanafy and Sanad (2015) investigated the differences in color preferences associated with the questionnaire was used. The participants of the study (Headway found to be the most preferred color.

gender-based colour differences among 7-9 years old black-and-white and color illustrations, respectively. children at single gender schools in Iran. 100 students (50 boys and 50 girls) among 7-9 years old children chosen from one all-boy and one all-girl elementary verify findings surrounding sex differences in color participated in the study. The findings of the study preferences, and to extend this realm of inquiry by revealed significant differences appeared among boys looking for possible differences in color preferences and girls towards four colors, including blue, green, pink, associated with sexual orientation. Data was collected and black.

students' color perceptions and preferences. The sample were found, with the main difference being a greater of the study consisted of 798 students from two preference for shades of blue by males than by females. universities in Malaysia. To collect the date, the Females, on the other hand, tended to be more evenly questionnaire was scheduled. Results revealed that both divided than males between preferring both green and females and males preferred colors such as blue, green, blue. and purple. Also, colors like pink and blue are preferred by females and males, respectively.

majoring physics. The results revealed that there was a learners' levels and interests. significant difference between the mean score of the two groups. Thus, it was concluded that using pictorial Concluding Remarks context improves the ESP reading comprehension of After reviewing the literature on the colors, the

Romney

learning function. The finding also revealed that most of the images in the texts were decorative.

Hill (2003) conducted a study to examine visual academic field of study in Egypt.to collect data, a elements in four British ELT textbooks from the 1990s Pre-Intermediate, Upper-Intermediate were 80 including students at graphic design and Matters, Cutting Edge Intermediate, and Inside Out information technology departments at first and final Intermediate). The researcher sought a balance of blackyears of study. Results showed that the white color was and-white and color illustrations within the main texts of the four textbooks in this study. According to the results, Mohebbi (2014) conducted a study to identify of Headway and Matters had the highest percentages of

Ellis and Ficek (2001) conducted this study to Based on a large sample of North American college students (1924 males and 3766 females). the finding of Jalila, Yunus, and Said (2013) examined the study revealed that a significant gender differences

Magableh (2000) conducted a study to evaluate the functional English of first commercial secondary Erfani (2012) investigated the probable class. The results showed lack of colors, grammar, roleeffectiveness of using pictorial context in ESP reading play, punctuation, spelling, and phonetic transcription of comprehension ability of Iranian university students the vocabulary, tests, visual aids and dialogues. The whose syllabus mostly focuses on this skill. This study results revealed that the materials were interesting and was conducted on two groups of Iranian students logically sequenced. The exercises were suitable for the

students. Results also showed that the experimental researcher has drawn various conclusions as there were group who received passage by pictures performed better some studies that were carried out on school stages, for than the control group who were not taught by pictures. example (Abu Sa'aleek, 2018; Kasmaienezhad-Fard et al., 2017; Mohebbi, 2014). While there were some analyzed business English studies that were carried out on university students, for textbooks, which they categorized into pictures as either example (Yunus & Said, 2013). But the current study is Dr. Izzeldeen A. Alrbehat 1292

similar to some previous studies in categorizing the color secondary, and tertiary colors. To investigate their based on three groups (e.g., Kasmaienezhad-Fard et al., current state, the colors of the pictures in the "ALC textbook" are quantitatively examined. 2017).

Methods and procedures

Population of the study

into the three groups as the following: primary, 1.

The colors in the ALC textbook used at Prince Faisal The population of the study is the entire pictures in the Technical College are evaluated using the descriptive ALC textbook, which is used to teach Prince Faisal quantitative design. The researcher divides the colors Technical College cadets in 2022. This is shown in Table

Table 1. Distribution the pictures to the units of the ALC textbook

Unit Number	Unit Title	Number of Pictures
1	A Trip to New Mexico	21
2	A New Bank Account	19
3	A Flat Tire	15
4	A Family Tree	17
5	Let's Talk about the Weather	19
6	American Occupation	20
7	Famous Writers	18
8	Sports	20
Total		149

Instrument of the study

frequencies and percentages were used to assess each was then calculated 94%. color.

Validity and Reliability

the list of categories used in the study to establish its results of the analysis are found in table two. validity and determine whether it was appropriate for the

research's goals. The required changes were made in accordance with the recommendations and comments of The instrument of the study was created by the the experts, completing the instrument. To find out the researcher to collect the data. For the purpose of reliability, the inter-rater reliability was calculated. The analyzing the colors used in the ALC textbook, the researcher analyzed the colors into three groups. The researcher created an innovative coding sheet. The researcher then chose a random sample of 95 pictures pictures were coded using the different color categories from the 149 total pictures in the course. The sample was (primary colors, secondary colors and tertiary colors). To analyzed by the researcher and the analyst, and the determine the current state of each color in the textbook, frequency of agreement and disagreement between them

Findings of the study

All the textbook pictures in the ALC textbook were A jury of five university professors specializing in TEFL considered in the investigation and their color types were and five Ph.D. students specializing in TEFL and determined one by one from the 193 textbook pages. A measurement and evaluation specialists were provided total of 149 pictures were sampled for the analysis. The

Table 2. Frequency of the color pictures in the ALC textbook.

Color	Frequency	percentages
Primary Color	62	41.6%
Secondary Color	71	47.6%
Tertiary Color	83	55.7%
Another colors	51	34.2%

The colors of the pictures were assessed into three colors which do not belong to these groups were groups: primary, secondary, and tertiary, whereas the considered as other colors.

tertiary, and other colors in the 149 pictures were used by the researcher. The analysis's results revealed that 62, 71, 83, and 51 times, respectively. Tertiary colors many of the colors utilized in the course are found in the were used in about 55.7 % of the textbook pictures, tertiary colors. ranking first, followed by secondary and the primary colors.

Discussion

textbook pictures.

According to Table 2, the third group has the greatest preferences towards the colors. rate, indicating that the curriculum planners gave this subject significant consideration. Regarding the third References criterion, "tertiary colors," it was noted that the colors were employed in appropriate circumstances, assisting pupils in comprehending the lesson's subject without consulting a dictionary.

The results show that the ALC textbook gives color consideration, as this may help cadets focus and improve their capacity for learning and comprehension. 2. These findings are mostly attributable to the fact that colors, as visual components, are significant in sustaining students' psychological stability as well as their aesthetic sense.

Conclusion

Content analysis is a potent method of data reduction 4. when performed correctly. Its main advantage is that it is a systematic, repeatable process for condensing a massive amount of information into a small number of 5. content categories based on explicit coding criteria. It has the appealing qualities of being unobtrusive and helpful while handling massive amounts of data. Beyond 6. simple word frequency calculations, content analysis is a highly sophisticated technique. Many word count restrictions have been considered, and techniques for extending content analysis to improve the analysis's usefulness have been addressed. False category 7. definitions and exhaustive but non-exclusive categories are two severe errors that render content analysis useless.

The findings suggest that the variety of colors is significant and can motivate students. The colors in the ALC textbook were examined in the current

According to Table 2, the primary, secondary, investigation. The colors were divided into three groups

Recommendations

There are some suggestions that might be useful for the teachers, further researchers, and also for the writer or This subsection shows the final result from all the publisher of the textbooks; the researcher suggests that perspectives to evaluate the colors used in the ALC instructors should be more aware of the importance of textbook at Prince Faisal Technical College. The results colors in engaging their students in the learning process. of this study showed that 55.7% of the pictures in the Moreover, the designers of ALC are recommended to ALC textbook used tertiary colors, 41.6% used primary take into consideration the fair distribution of colors colors, and 47.6% used secondary colors. There is also among the units and increase the number of colored another group of colors in art and painting, and they pictures in the course textbook. For future research, the include white, black, cream, and gray. These were called researcher suggests conducting other research to natural colors, and 34.2% of them were used in the investigate the colors in a different textbook, such as the schools' stage or other military colleges, and their

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