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# An Examination of Student-Librarians' Reading Preference: Print Materials or Electronic Materials

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# An Examination of Student-Librarians' Reading Preference: Print Materials or Electronic Materials

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#### Abstract

Reading a complex cognitive process of decoding symbols in order to construct or derive meaning is an essential skill for academic success. This implies that in any institution of higher learning a lot of readings are done on all programmes by students for them to excel academically. This study therefore examined student-librarians' reading preference considering the fact that today students are exposed to two main reading material, print materials and electronic materials. The study employed a descriptive survey method with a student-librarian population of 120 randomly selected from four federal universities offering library and information science in Nigeria. The study was guided by three research questions while the main instrument used for data collection was a four-point Likert Scale structured questionnaire validated by three experts two from the department of library and information science and one from the department of educational measurement and evaluation. The data collected were presented in tables and charts analyzed using frequencies and percentages. The outcome of the study did show that despite the emergence of information and communication technologies (ICTs) which have transformed the way information resources are accessed as a result of digitalization of most information materials, student-librarians in Nigeria still preferred reading print materials to electronic materials (e-materials) though they showed acceptability for electronic resources. It was based on the finding that the following recommendations were made; librarians should as a matter of need go for hybrid collections (i.e. both print and electronic format of information sources) and student-librarians as librarians in the making should from the start be exposure to electronic literacy skills so as to gain adeptness in the use of electronic information resources.

**Keywords**: Student-librarians, Print materials, E-materials, Academic Libraries, Information and Communication Technology, Reading

#### **1.0.** Introduction

Reading a complex cognitive process of decoding symbols in order to construct or derive meaning is an essential skill for academic success (Onwubiko, 2020). This implies that in any institution of higher learning a lot of readings are done on all programmes by students for them to excel academically. Furthermore, several study programmes are characterized by a limited amount of lectures and a comprehensive independent study programmes. This means that students study more or less independently. The important thing is that the students themselves are capable of actively processing the material, whether independently or in group. . Reading therefore is a ticket for success in education and lifetime. According to Onwubiko (2010), reading is a practice of seeking knowledge information or entertainment through written words. Prior to the emergence of electronic books the only available form of materials for reading is the print but the evolution of information and communication technologies (ICTs) have transformed the way information is accessed and library users who use to physically come to the library to order or access information material can now access information materials electronically without going to the library as a result of increasing amount of information available in digital form. To this end, libraries are encouraging the use of digital/electronic resources, a salient issue that one has to take into consideration in the actual acceptability of these materials to users (Bodomo, Lam & Lee, 2003).

The assumption by many information technology experts when electronic books first appeared on the commercial market in 1990s was that print materials will become obsolete. Regardless of the paperless society prediction, the printed book has remained in the digital 21<sup>st</sup> century and remains a much utilized and integral part of our research, media and leisure culture. At the same time, e-books (both web-based and device-based) have experience continued growth and an undeniable presence despite their growing pains in recent years (Gregory, 2008).

### 1.1. Statement of Problem

After the invention of Gutenberg, print materials took the centre stage as the sole method of reading. However, the emergence of information and communication technologies changed the narrative as many reading materials are now in electronic formats. This development brought a change that readers are now exposed to choices as to what format is suitable for their readings. To this end, libraries have been forced to embrace this transformation leading to them encouraging the use of digital information resources and the crown glory is that must libraries have gone hybrid, some digital and others virtual making it imperative for library users to resort to e-materials. The university library as a centre of teaching/learning and research is in the forefront of promoting e-materials as a result of the astronomical growth of information which makes it utmost difficult for her to acquire all the needed resources required in satisfying the information needs of students and faculty members in print.

There is no doubt that ICTs swept every aspect of our human activities like a hurricane and brought about a paradigm shift in information storage and accessibility but what has not been asked is do students accept electronic materials over print materials? It is to find an answer to the above question that this study was embarked upon as to establishing student-librarians reading preference (whether it is print materials or electronic materials). using four selected federal universities in Nigeria running programs in Library and information science as case study.

## **1.2. Research Objectives**

The specific objective of this study is to examine and establish student-librarians' reading preference between print materials and electronic materials. Other objectives include:

- i. To ascertain how frequent student-librarians read print materials.
- ii. To ascertain how frequent student-librarians read e-materials.
- iii. To determine which of the formats that student-librarians prefer using and reading the more.

# **1.3. Research Questions**

The study was guided by the following research questions:

- i. How frequent do student-librarians read print materials?
- ii. How frequent do student-librarians read e-materials?
- iii. Which of the two formats do they prefer reading the more?

#### 2.0. Literature Review

As expressed by Bodomo, Lam and Lee (2003), the emergence of electronic media and the growing of electronic resources have had a significant impact on reading in the 21<sup>st</sup> century that reading is no longer confined to only print materials rather there are electronic versions of many print materials available on the world wide web. It was in the light of the above that Flanagin and Metzger (2001) revealed that though the information needs of the people have not changed but the way they satisfy these needs have changed. As disclosed by Krakoswska, (2013) and Akpojotor (2016), young people of today think, learn, socialize, shape identity and seek information differently in this digital age, the era of web 2.0 and participatory culture. In his study on faculty and graduate students' use of electronic journals, printed journals and electronic databases at Ohio State University (OSU) during the years 1998-2000, Rogers (2001) discovered that since 1998 there has been a significant progress in the acceptance and usage of electronic journals at OSU. In 1998, only 200 e-journals were available, while in 2000, the number of available e-journals increased to more than 3,000. In 1998, 19% of the respondents used e-journals at least once a week, while in 2000, the percentage increased to 36%. At the same time, the least weekly usage of printed journals decreased from 45% in 1998 to 34% in 2000.

The implication of this development is .that students and users of the library now have options as to the most suitable format to choose for their readings. To the side of libraries in general and academic libraries in particular, it has become imperative for them in developing their collections to put into consideration the preferred medium by users with a view to satisfying their needs. As found by Walter (2014) and Nyirenda (2012), institutional data suggest that many students are reluctant to use library e-books, while Hoseth and Mclure (2012) and Woody, Daniel and Baker (2010), discovered a clear preference for print materials despite of the general awareness of the advantages offered by e-books. On the other hand, users will prefer more computer content; digitized finding aids, digital repositories of articles and online access to newspapers (Lombardi,

2000). Tosun (2014) in his study discovered that large part of teachers and students do not read e-books. The study also revealed that books are reliable compared to computers and that reading comprehension is faster and better with the use of print books. The above result is in agreement with that of Keller (2012) and Jeong (2012) who found in their separate studies that greater comprehension is gained by students in reading of print books as against e-books. In another development, Aliyu, Ado, Danjuma, Garba and Gezaba (2014) in their study found that prolonged use of computers causes the eye to sore, itch, and be reddish

As noted by Weeks (2008), there are some types of research that are actually much easier, faster and more cost effective to perform using printed materials rather than electronic resources, whereas, online resources with some other information is easier and cost effective. The above declaration is a stronghold for the maintenance of hybrid library. All the same, it is obvious that the emergence of electronic resources and digital libraries have had an undeniable impact on the use of print resources in libraries; ICT innovation has transformed the ways academic libraries manage their affairs and that the internet has changed the accessibility to information materials. The declaration therefore is that electronic storage and delivery media have challenged the supremacy of printed words on paper and microforms of various kinds in the struggle for information dominance as print material have been for long the traditional method of reading and library users come physically to access information materials, while today users can access any information without going to the library (Shuman, 2001). Lewenstein (2000) opined that the experience of reading a book published online differs quite dramatically from reading a print book stating that the skills involved are more complex.

It is believed that the electronic revolution has not resulted in the complete replacement of printed publication by electronic media the technological advances of the computer age have drastically altered the relation between information sources and society as a whole. (Angell & Smith, 1998). As reported by Layman and Varian (2003), books (print) increased by 83% in the United States of America (USA) from 1999 to 2002 while online scholarly journals virtually doubled from 1991 to 2001. Recent studies for instance, Levine-Clark (2015) and Wang & Bai (2016) affirmed to this while Nicholas, et al (2008) was particularistic as they noted that e-book penetration is very strong.

According to Gilster (1997) cited in Bodomo; Lam and Lee (2003), we read books but we browse the web as the interaction between the reader and the e-book is no longer static. The reader has become more active in the process of reading by clicking and browsing through WebPages and hyperlinks. Ray and Day (1998) revealed that in order to utilize the growing range of electronic resources, students must acquire and practice the skills necessary to exploit them as the skills required to maximize the potential of electronic resources are much greater than those required for searching printed sources. Kozak (2003) averred that books have endured because they are remarkably well engineered; easy to use, portable, relatively cost effective and require no instructions or manual before use. On the other hand writes Tiwari (2008), traditional library are limited by storage space while digital libraries have the potential to store much more information since digital information require very little physical space to contain them. As such, the cost of maintaining a digital library is quite lower than that of traditional library.

#### **3.0. Methodology**

The study employed a descriptive survey method with a student-librarian population of 120 randomly selected through balloting from four federal universities offering library and information science in Nigeria which are: Bayero University, Kano (North), University of Ibadan (West), University of Nigeria, Nsukka (East) and University of Calabar, Calabar (South) with each of the universities producing 30 respondents. Of the 120 respondents, 76 (63.33%) were female and the remaining 44 (36.67%) were male. The study was guided by three research questions while the main instrument used for data collection was a four-point Likert Scale structured questionnaire validated by three experts; two from the department of library and information science, Nnamdi Azikiwe University, Awka and one from the department of educational measurement and evaluation, Abia State, University, Uturu. The data collected were presented in tables and charts analyzed using frequencies and percentages.

# 4.0. Presentation of Data

# Table 1: Distribution of respondents by level

Level	frequency	Percentage (%)
400	40	33.33
300	40	33.33
200	25	20.84
100	15	12.5
Total	120	100

# Figure 1



The data in table 1 and figure did show that 12.5% of the respondents were in 100 level; 2.84% or 25 respondents were in 200 level, 40 respondents representing 33.33% respectively were in 300 and 400 levels.

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Frequency of usage	No of respondents	Percentage (%)
Daily	47	39.17
weekly	36	30
Monthly	7	5.83
Occasionally	30	25
Total	120	100





From the data collected and displayed in table 2 and figure 2 above, 39.17% or 47 respondents read e-materials daily; 30 or 36 respondents read e-materials weekly and 7 respondents or 5.83% read e-materials monthly while 25% or 30 respondents read e-materials occasionally.

<b>Table 3: Frequency of readin</b>	ng print material	S
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No of respondents	Percentage (%)
75	62.5
30	25
4	3.33
11	9.17
120	100
	No of respondents 75 30 4 11 120

# Figure 3



Table 3 and figure 3 above showed that 62.5% of the respondents read print materials on daily bases; 30 respondents or 25% read print materials weekly, 9/17% (11respondents) read print materials occasionally, while 3.33% or 4 respondents read print materials monthly

Frequency of usage	No of respondents	Percentages
Daily	36	30
weekly	43	35.83
Monthly	34	28.33
Occasionally	7	5.83
Total	120	100

Table 4: Frequency of pr	nting e-materials	for reading
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# Figure 4



The collected data shown in table 4 and figure 4 revealed that 43 respondents or 35.83% read ematerials weekly; 30% or 36 respondents read them daily and 34 respondents representing 28.33% read e-materials monthly while the remaining 7 respondents or 5,83% only read ematerials occasionally.

Frequency of usage	No of respondents	Percentage (%)				
Frequently	36	30				
Occasionally	63	52,5				
Rarely	11	9.17				
Never	10	8.33				
Total	120	100				

Table 5: Frequency of annotating/highlighting e-materia	ighting e-material	1g/highli	f annotati	auency o	5: Fr	Table
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The data in table 5 showed that 63 respondents which is 52.5% of the entire respondents occasionally annotate/highlight e-materials while 30% or 36 of the respondents do that frequently. 11 (9.17%) rarely annotate/highlight e-materials and 10 of the respondents representing 8/33% indicated that they never annotate/highlight e-materials

Frequency of usage	No of respondents	Percentage				
Frequently	74	61.67				
Occasionally	31	25,83				
Rarely	12	10				
Never	3	2.5				
Total	120	100				

Table 6: Frequency of annotating/highlighting print materials

Table 6 above contains data on frequency of annotating/highlighting print materials by studentlibrarians while reading. The data reveal that 74 or 61.47% of the respondents frequently annotate/highlight print materials, 25.83% or 31 respondents occasionally annotate/highlight print materials while 12 or 10% rarely annotate/highlight print materials. Only insignificant 2.5% or 3 respondents indicated that they do not annotate/highlight print materials.

	8	
Preference	No of respondents	Percentage (%)
I prefer reading print materials	72	60
I prefer reading e-materials	24	20
I have no preference	24	20
Total	120	100

 Table 7: Preferred reading materials

Figure 5



As shown in table 7 and figure 5 above, of all the 120 respondents, 72 or 60% of them prefer reading print materials. 20% or 24 respondents prefer reading e-materials to print while the same number (24), do not have any preference.

Demonster	SDA		DA		A		SA	
Perception	F	%	F	%	F	%	F	%
I will not use a print if e-								
version is available	22	18.33	40	33.33	38	31.67	20	16.67
I prefer carrying about a								
printed material around than								
a computer or any other e-								
device	8	6.67	25	20.83	50	41.67	37	30.83
I can read a printed material								
anytime unlike e-material that								
is not convenient	6	5	15	12.5	60	50	39	32.5
I do not get unnecessary								
distraction with reading print								
materials	6	5	21	17.5	55	45.83	38	31.67
I would prefer to read a print								
material in bed but not same								
with computer and other e-								
devices	4	3.33	31	25.83	55	45.83	30	25
It is easy to locate a print								
material	2	1.67	32	26.67	60	50	26	21.67
I prefer to print a few pages to								

 Table 8: Student-librarians perception of print and e-materials

carrying a book around	2	1.67	30	25	53	44.17	35	29/17
Computers are sometimes								
unreliable while print								
materials are always there	2	1.67	22	18.33	57	47.5	39	32.6
I can stare at a print material								
for long unlike computer								
screen.	2	1.67	30	25	40	33.33	48	40
I comprehend better when I								
read print materials than when								
I read e-materials	3	2.5	30	25	41	34.17	47	39.17
I read faster when I read print								
materials	3	2.5	27	22.5	45	37.5	43	35.83
A print material can always be								
in one's grasp	2	1.67	16	13.33	60	50	42	35
Print materials are handy	2	1.67	8	6.67	54	45	56	46.67
No training is needed to use a								
print material	1	0.83	13	10.83	53	44.17	53	44.17
Use of print material is easy	1	0.83	4	3.33	63	52.5	52	43.33
Some print materials are								
heavy to carry around	1	0,83	6	5	57	47.5	54	45

Key: SDA=Strongly Disagree. DA=Disagree, A=Agree, SA=Strongly Agree

As shown in table 8, 51.66% representing 62 respondents disagreed or strongly disagreed that they will not use a print if an e-version is available. 87 (72.5%) respondents prefer carrying around a print material to carrying around a computer. 77.5% or 83 respondents agreed or strongly agreed to not getting unnecessary distractions with reading print material. 82.5% of the respondents indicated that they can read a printed material anytime unlike e-material that is not convenient; 70.83% prefer to read a print material in bed but not same with computer and other e-devices. On the unreliability of e-materials over print, 24 of the respondents disagreed or strongly disagreed but 80.1% or 96 respondents agreed or strongly agreed that e-materials using the computer are sometimes unreliable while print materials are always there. 71.67% agreed that it is easy to locate print materials, 73.33% agreed to reading print materials than e-materials, 88.34% or 106 respondents indicated that no special training is required to use print materials and 95,83% agreed that the use of print material is easy. However, 92.5% representing 111 respondents agreed that some print materials are too heavy to carry around unlike the computers and other e-devices

#### **5.0.** Discussion of Results

The collected and synthesized data as displayed in table7 and figure 5 as well as table 8 well presented the outcome of this study which is that student-librarians prefer reading print materials to e-materials. They noted that print materials are reliable, faster to read and better understood. The outcome of this study is in conformity with that of Walter (2014) and Nyirenda (2012), who revealed in their studies based on available institutional data that many students are reluctant to use library e-books, while Hoseth and Mclure (2012) and Woody, Daniel and Baker (2010), discovered a clear preference for print materials despite of the general awareness of the advantages offered by e-books. The findings in this study further buttress the discovering of Tosun (2014) in his study that large part of teachers and students do not read e-books. The study also revealed that books are reliable compared to computers and that reading comprehension is faster and better with the use of print books. The above result is in agreement with that of Keller (2012) and Jeong (2012) who found in their separate studies that greater comprehension is gained by students in reading of print books as against e-books.

The result of this study further proves wrong the claims of IT experts and affirms the assertion of Gregory (2010) that the assumption by many information technology experts when electronic books first appeared on the commercial market in 1990s was that print materials will become obsolete. Regardless of the paperless society prediction, the printed book has remained in the digital 21<sup>st</sup> century and remains a much utilized and integral part of our research, media and leisure culture.

The study also discovered that student-librarians believe that prolonged exposure to computer screen while reading e-materials causes the eyes to itch and turn reddish which may eventually develop into bad sight. This claim agrees with the finding of Aliyu, Ado, Danjuma, Garba and Gezaba (2014) in their study that prolonged use of computers causes the eye to sore, itch, and be reddish.

On the other hand, one cannot write-off e-materials as the result of the study also shows that reasonable number of students-librarians are satisfied with them (see tables 2 & 7 and figures 2 &5). From the data in these tables and figures we noticed that over 30% of the students-librarians still prefer e-materials in affirmation to Gilster (1997) cited in Bodomo; Lam and Lee

(2003) declaration that we read books but we browse the web as the interaction between the reader and the e-book is no longer static. The reader has become more active in the process of reading by clicking and browsing through WebPages and hyperlinks.

# 5.1. Conclusion and Recommendation

It is true that the outcome of this study is that student-librarians have preference for reading print materials over e-materials but that does not indicate that information and communication technology evolution has not permeate deep into our educational system rather it an indication that academic libraries and librarians have a lot to do in the area of creating awareness. Just like in the words of Weeks (2008), there are some types of research that are actually much easier, faster and more cost effective to perform using printed materials rather than electronic resources, whereas, online resources with some other information is easier and cost effective. The implication is that both print materials and e-materials have their own distinctive advantages and disadvantages as well as qualities for purposes of utilization and student-librarians should be meant to see them from these angles. It is in view of these, that the following recommendations are made:

- In the first instance, academic libraries and librarians should take it as a mandate to ensuring that proper awareness programs are kept in place so as to make studentlibrarians as information managers in the making to realize the importance of e-resources in information management and satisfying information needs in an era that information has become power and one main determinant of how individuals and nations are rated.
- As a follow up, student-librarians should be exposed to electronic literacy skills so as to gain adeptness in the use of electronic information resources. Ray and Day (1998) revealed that in order to utilize the growing range of electronic resources, students must acquire and practice the skills necessary to exploit them as the skills required to maximize the potential of electronic resources are much greater than those required for searching printed sources.
- Furthermore, academic libraries should go hybrid going by the words of Weeks (2008) that there are some types of research that are actually much easier, faster and more cost effective to perform using printed materials rather than electronic resources, whereas,

online resources with some other information is easier and cost effective. To this end, librarians should endeavor to have e-format of almost every print material in their collections and vis-vis. This has become imperative for them in developing their collections to put into consideration the preferred medium by users with a view to satisfying their needs.

Library schools should be more practical oriented in their teachings. The act of theoretical teaching that is mostly seen in library schools in Nigeria in the opinion of the researcher is obsolete and very absurd thus should be discouraged with installation and provision of state-of-the-art facilities and infrastructure befitting modern library schools as seen in developed countries like the US, Britain, Canada and Germany among other nations.

No matter the way one views it despite the fact that this study discovered that student-librarians have preference for reading print materials, the obvious is that the emergence of electronic resources and digital libraries have had an undeniable impact on the use of print resources in libraries; ICT innovation has transformed the ways academic libraries manage their affairs and the internet has changed the accessibility to information materials.

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