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The Hispanic population has been growing at a high rate in the past two decades, culminating in 2007 as the largest minority group in the United States (Bernstein, 2008). However, the growth in population has not been isolated to just one particular region, but to new regions that had previously low numbers of Hispanics. Charlotte-Mecklenburg County, North Carolina experienced a septuplet growth rate in Hispanic population between 1990 and 2000, which led them to evaluate their user population, finding that they needed to provide a Spanish catalog. Since public libraries' goal is information dissemination, this study evaluates and compares how easy it is to navigate Charlotte-Mecklenburg's Spanish to a county similar in size-San Francisco County, California-in which a large Hispanic population has existed for a longer period of time. The study found that although both indicated a high level of navigability, some features were not available to Hispanic patrons.

Headings:

User-Computer interface – Spanish Electronic catalogs – Spanish – Analysis Public libraries – North Carolina -- Charlotte Public libraries -- North Carolina -- Mecklenburg County Public libraries – California -- San Francisco County

EASE OF NAVIGABILITY IN TWO PUBLIC LIBRARIES' SPANISH CATALOGS

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Introduction

Throughout its history, the United States has experienced waves of people from different backgrounds in nationalities, religions, and ethnicities immigrating to this country. For example, there was an influx of Irish in the 1840s and 1850s when an estimated 4.5 million immigrated because of the potato blight occurring in their homeland. German Jews came to the United States primarily in the 1840s and 1850s to escape persecution (Glazier, 1998). Another significant group of peoples that have had a significant immigration history are Hispanics¹. The beginning of the 20th century saw the Mexican Revolution in which thousands of Mexicans immigrated to the United States in order to escape the civil war that was raging in their homeland (Gonzales, 2000). The 20th century also saw the United States' annexation of Puerto Rico from Spain in the Spanish-American War in 1899. From that time forward, Puerto Ricans have migrated to the mainland United States in search of better jobs, particularly after WWII. During the same war the United States and Mexican governments made an agreement, called the Bracero Program, in which the latter would supply the former with labor since the United States was experiencing a labor shortage on account of its involvement in WWII. While the program was terminated in 1964 (Gonzales, 2000), it has not deterred Mexican immigrants wishing to enter the country.

¹ The words "Hispanic" and "Latino" will be used interchangeably throughout this paper.

In fact Hispanics have continued to remain such a significant presence in the United States population that the government decided to add the term "Hispanic" under the race category in the 1970 census. The data from the census found that 4.6% of the population, or 9.2 million people, considered themselves to be Hispanic (U.S. Census Bureau, 2009). By the year 2000, the millennial census stated that the Hispanic population comprised 12.6%, or 35.3 million people, of the population (U.S. Census Bureau, 2009). Lastly, in 2008 the U.S. Census Bureau released a news report that there are about 45 million Hispanics, or 15% of the population, surpassing African-Americans, whose numbers were at 40.7 million, as the largest minority group in the United States (Bernstein, 2008).

This demographic trend can also be viewed in certain states. In North Carolina, for example, Alamance County in 1990 had a Hispanic population of 736, which barely comprised 1% of their population. A decade later, nearly 9,000 Hispanics were recorded in the census, comprising 7% of the county population -- an increase of more than 1,000% (Pew Hispanic Center, 2009). In 1990 Mecklenburg County was home to fewer than 7,000 Hispanics, or 1.3% of its total population. In 2000 the census recorded 45,000 Hispanics out of 700,000 inhabitants-an increase of almost 600% (2009).

Public libraries have also noticed this trend in Hispanic growth rate in their communities. Michelle Boulé (2006) notes that the public library in one city, which wished to remain anonymous, has provided their burgeoning Hispanic population with brochures in Spanish that contain information about city procedures, and has celebrated Hispanic holidays and hired bilingual staff to provide a comfortable means of communication if patrons do not feel at ease speaking in English. However, despite these attempts to accommodate Hispanic users' needs, Boulé fails to mention an important aspect of library service: whether or not the library's Online Public Access Catalog, or OPAC, is translated into Spanish or not. This is a very important tool for users to find what they need, and begs the question: are Spanish OPACs easy to navigate? It is imperative for public libraries to provide their users with the means to access information, and there are several such Integrated Library Systems (ILS) that provide the ability to search in different languages, including Ex Libris, SirsiDynix, and Libero. A quality Spanish OPAC is a vital tool that libraries need to provide equitable access to their clientele, allowing Hispanics who do not know English very well to understand how it works and be able to access information they need.

The purpose of this study is to see if public libraries have Spanish OPACs that are easy to navigate and are providing Hispanic users instructions on how to use OPACs. In order to achieve this, one must be familiar with what attributes constitute a good OPAC.

Literature Review

In the field of public librarianship, and in general, there are several important aspects to ensure that the library encourages first-time users to return, especially if they are non-native speakers: librarians' attitudes, the layout of the library and the library's location in the town or city, its resources, layout of the library's catalog, etc. have their part in the users' perception of the library. Nonetheless, how a library designs their catalog can be the basis on which users decide whether or not to utilize it to access their library's collection. A catalog can also relay how accessible it is when a non-native speaker attempts to browse it. Having a poorly designed catalog can dissuade users from attempting to search the library's collection and maybe even the library itself. When using a library's catalog, especially for the very first time, the user may already have a strong feeling of trepidation when embarking into the unknown. In order to allay their nervousness, it would be useful to provide a catalog that is easy to navigate, has terms that are easy to comprehend, and requires little-to-no help from librarians to explain how to use it. Furthermore, there should be a version of the catalog in language(s) commonly found in the community so that those citizens can access the information they need. Spanish, for instance, is a language that is increasingly more common found throughout the United States and if concentrated in an area, the public library should have a Spanish version catalog available.

The field of library catalog evaluation is a large one, and this literature review will focus primarily on the layout of the catalog as well as the words contained in it. In this area, there have been guidelines created by researchers based on several investigations. Although the suggestions from the following articles have concentrated on English versions of catalogs, they may be used to help librarians to improve accessibility for the Spanish versions.

One of the most influential evaluations of Online Public Access Catalogs (OPACs) that helped in the creation of design guidelines for OPACs was Charles Hildreth's (1982) analysis of ten libraries conducted on behalf of the Online Computer Library Center (OCLC). These ten institutions, which included a public library, four small academic libraries three large academic libraries, and two bibliographic networks, were not selected as representative for their type of institution, but because they displayed an interest in the research project OCLC conducted. The institutions were required to have operational OPACs and a designated team member in the library whom OCLC could contact (Hildreth, 1982).

Through a comparative analysis of the institutions' interface designs, one of the results that Hildreth (1982) found was that there was a need for "natural" interface language so as to not frustrate or scare away the user, especially if they were new to the system. If an OPAC used some of the words that the user would use in their everyday vocabulary when speaking, it could make them feel more at ease with the system since the language on the screen could promote a sense of familiarity even if it was their first time using an OPAC.

Secondly, Hildreth (1982) cited Hayes, et al. (1981) when problems of communication arose between computers and humans. One of those problems was when the user entered linguistic errors in the search line. To remedy this, Hildreth recommended Hayes, et al.'s solution of deriving "a set of capabilities any gracefully interacting system should have" when a computer attempted to mimic human-human communication. In other words, OPACs should have a screen or prompt that alerts the user to their input error(s). In addition to this, an explanation "instructing the user how to best use the system's features" as it would guide the user on how to use the OPAC effectively. Also, there should be a screen or prompt to keep "the user informed of what the system is doing and why it is doing it", making the search process transparent to the user (p.51).

While Hildreth (1982) provided a list of properties for a more user-friendly interface design, he offered it more as a set of guidelines than a definitive list of attributes an OPAC needed given the myriad of viewpoints and the differences of institutions' needs. Nonetheless, he stated that while doing an analysis of the lists of features that institutions had or lacked he noticed "a pattern of high-level categories of attributes recommended or prescribed for the user-oriented interface" (Hildreth, 1982, p. 58). So, although he claimed the listed features were not a definitive checklist, it was a highly suggested list to evaluate other OPACs. This unofficial checklist could provide many researchers with the basis to evaluate their institution's OPACs. Furthermore, they may take the checklist seriously since the research was funded by OCLC, an extremely important and influential organization in libraries.

Stephan Salmon (1983) utilized Hildreth's guidelines when he conducted a comparison of the characteristics of twenty systems in various United States libraries that were operational, some of which included LUIS, TOMUS, ULISYS, etc. (p.37). While the author mentioned the institutions' names in tables, he did not explicitly state that his research included OPACs from universities, public and national libraries, and a hospital, it can be surmised from the institution names in his tables. Salmon noted that what made

online catalogs so "exciting" (1983, p.36) were the constantly changing characteristics, inviting observers and participants to describe and compare the different systems. Nonetheless, he then offered a warning to the readers of this study that the information may be out of date very quickly.

Salmon agreed with Hildreth in that the system should provide the user with specific error and help messages. However, when Salmon searched to see if the libraries provided Boolean search options, he failed to mention whether or not the institution provided help comments on how to do a Boolean search. An analysis of Boolean instructions would have been helpful to see how other libraries wrote their instructions.

Salmon agreed with Hildreth in prescribing the use of "natural" language, i.e., language humans routinely use when communicating with each other in an informal setting. Salmon recommended that the language of the search system should be jargonfree, and one may assume he was talking about the system being free from library-jargon even if he did not state it explicitly.

Lastly, Salmon noted that during his analysis he found that, up until 1983, neither the menu option, where users were presented with options already provided for them, nor the command menu, where the user enters words, letters, or symbols to tell what the computer to do, had been dominant in searching, with some libraries providing both. While these options no longer pertain to current public libraries' OPAC screens, it is analogous to "quick" menu screens where users are presented with the option of the most popular search options of author, title, keyword, and subject versus the more detailed screen that includes year, language, format, etc. Both the English and non-English version of OPACs should have these options. In their studies, both Hildreth and Salmon have attempted to give their readers a perspective that they believe came from a user's point of view when commenting on OPAC interface design. However, it was in Markey's (1983) article that readers heard what users would like in an OPAC in interviews. When the Council on Library Research (CLR) provided funding to conduct a study on library patrons and OPACs, one of the participants, OCLC, conducted "focus-group interviews with library patron OPAC users and nonusers and library public and technical services staff at six libraries" (p. 381). These groups, which consisted of six to twelve individuals led by a moderator for an indepth discussion on pertinent subject areas, were created to obtain qualitative information on library patrons' and staff's needs and perceptions of OPACs.

From the analysis of the participants' remarks, generalizations were made about the library users' and staff's needs from and perceptions of OPACs. One finding was that the OPAC saved them time seeing if a book was on the shelf or not where as a physical card catalog could not tell them that information. Tied into this statement was the instant gratification another user liked about the OPAC. While most library catalogs display the status of an item, the latter comment has been an issue for most OPACs when a search has not gone according to the wishes of the user.

One user also enjoyed the option of limiting the search; however, the discussion groups also yielded that the patrons felt that the subject terms they were using were either too broad or too narrow for the OPAC to find. Furthermore, they had trouble finding the right word for the subject heading search. Users wish to have cross-references ("see", and "see also" references) as well so that they know which terms they could use for searching subject headings. These suggestions could help with instant gratification as it would improve accessibility to the library's collection- since the OPAC is providing the user with the suggestions on how to refine their search or with help on which terms to use.

Another comment indicated that if one "misspelled" a word in the card catalog, it did not matter but could "just flip cards until you found it" (p. 383). Now patrons are put in the position of having to supply correct information-" when using an OPAC. Nothing was mentioned about a screen or prompt informing the user of their mistake as suggested in Hildreth (1982) and Salmon (1983)., an important feature for libraries to utilize in all versions of their OPAC.

Lastly, Markey's article notes that library patrons and staff at university and public libraries proposed that community information be posted on the OPAC such as local events in the city, continuing education courses, government and social agencies, job ads, dates of festivals, etc. (p. 385). By providing users a resource where individual events have been collected and listed in one area, the library staff can make the library into a place where users may think the staff cares about what is happening in the users' lives.

Fokker (1989) constructed a list of requirements that an OPAC is obligated to have, contrasting to Hildreth's (1982) view that his list of what he found from the analyses of institutions' OPACs should be considered as suggestions. Furthermore, the author used the suggested list of requirements provided by the CONDOC consortium that an OPAC should have in order to make it user-friendly. To do this, Fokker used the OPAC at the University of the Orange Free State to demonstrate how the university's OPACs complied with CONDOC's requirements. One of the suggestions that he used from the consortium was that the patron should be relieved of "the burden of any interpretation of library procedures and practices", i.e. "[t]he system should be basically self-explanatory to the user". Fokker recommended that the logon screen "should consist of the pressing of a single or prompted key" and that passwords, user numbers, and hardware identification should be used in order to facilitate the user's experience. Once the user accessed the OPAC, the search system should be the default screen "with self-explanatory menus to guide the user when necessary" (p. 5). This statement agrees with the Hildreth's (1982), Salmon's (1983), and Markey's (1983) findings that users would like to have help and error messages to guide them. Nonetheless, he proposed that the "user should not be confronted with a bunch of cross-references or a browsing list at every input" (Fokker, 1989). One questions the validity of this statement when users in Markey's (1983) article wished an OPAC had it. Furthermore, cross-references are guides for users in order to suggest terms they may not have thought of.

When searching, Fokker (1989) recommends that the "importance of spelling should be stressed to users" (pg. 8), supporting the findings of the three previous authors that this is a common problem, but he suggests that the system could do an automatic match of common misspellings. It is interesting to note that somebody in the 1980s, when the Internet was just bourgeoning, suggested an extremely useful feature that Google provides. Additionally, after the OPAC has found what the user entered, Fokker proposed that there should not be a maximum number of records displayed on the results page; however, the list of results may overwhelm the user looking at the sheer number of records that may have come up and so it may be beneficial to have a maximum amount of records.

Cherry et al. (1994) examined twelve libraries that were members of the Canadian Academic Research Libraries (CARL) and had their OPACs online. This study compared the weakness and strengths of each system the universities used to help libraries who are planning to go online with OPAC system selection. The authors created a checklist of 170 features from existing literature that were all weighed equally, which limited the study in that the relative value of one feature may not be as important as another. Each question represented one feature in the OPAC. Data were collected twice by one of the authors between June and November of 1992 and checked against the data collected by an independent researcher between December of 1992 and February of 1993. The sets of data were checked for disagreements and any differences found were checked again. The resulting data reflected the status of the OPACs as of February of 1993.

Nine OPACs allowed for Boolean searches. All twelve offered browse searching but only five included cross-references in the index. Cherry et al. wrote that users were enthusiastic "about the idea of online displays of thesaurus terms to help them choose broader, narrower, and related terms" (p. 183). She found out that some of the features most of the libraries' OPACs were lacking were: an online "mailbox" for users to send suggestions, a "break" or "interrupt" key or command to stop a search, and an option for users to select the length of system messages. The mailbox could prove useful for users who may feel reluctant to speak to a staff member about the shortcomings in the system. Furthermore, it would also allow non-native speakers to submit their suggestions if they feel self-conscious about their English-speaking skills. Cherry et al. followed up on the 1994 version of the evaluation of OPACs with a second OPAC evaluation of ten Canadian public libraries with online OPACs and twelve Canadian academic libraries in 1998. They were selected because they were members of CARL, their OPACs could be accessed via the Internet, and they represented a broad geographical range in Canada. Two researchers, working independently, evaluated the systems with the checklist. Any disagreements were resolved by checking and reevaluating the features on the captured screens.

The guidelines that Cherry, et al. (1998) used recommended that abbreviations should be avoided in OPACs, but this recommendation was frequently ignored. The use of abbreviations could confuse the user, especially if it is their first time using an OPAC. Furthermore, agreeing with Hildreth (1982), Salmon (1983), and Fokker (1989), Cherry, et al. (1998) recommended that the OPAC should be free of technical library terms, such as "LCCN" for "Library of Congress Call Number" and "OCLC#" for "Online Computer Library Center Number" as the user could be unfamiliar with those words. However, Cherry et al. found that the majority of libraries' OPACs used technical library terms.

Other features that the team found to be useful to an OPAC included a "back" button so the user can go back to the previous record, thus allowing the user to navigate the results more easily. Also, because Cherry, et al. (1998) did not mention that an OPAC should have a "forward" button, it is unclear whether the evaluated OPACs already had a "forward" button. They also recommended that web catalogs should have options available to the user at the top and bottom of the page, which most OPAC did not have; however Cherry et al. failed to elaborate what those options should be. A more recent OPAC evaluation was conducted by Luong and Liew (2009) on 13 New Zealand academic libraries' OPACs. They selected these institutions based on the different types of software used in New Zealand. They also say that the approach they took was "similar to that of Cherry et al. (1994)" and base their findings on a checklist (p.377). They did this to see how libraries were customizing their OPAC interfaces so that they could be beneficial to their users.

The results showed that all of the libraries had advanced searching abilities such as Boolean searches, truncation operators, keyword and field searching. While the truncation operators may not be necessary in a public library's OPAC, the others may provide help in broadening or narrowing the users' searches. The researchers found that only one library took Fokker's (1989) suggestion in providing a program to note misspellings and to alert users to them, which is extraordinary when Google has been providing this feature since 2000 (Google Answers).

Only three of the OPACs provided cross references in the results list, with one offering searching by barcode number. Furthermore, language translation and thesaurus features were not found in most OPACs, tools that users were enthusiastic about "to help them choose broader, narrower, and related terms" (Cherry et al., 1994, p. 183). Only two of the libraries offered links to related items, acting like the cross-references that Markey (1983) indicated users would like to have. Only seven of the surveyed OPACs used relevance ranking, which could prove useful to the user as it would allow them to organize the results according to their needs. Additionally, the authors mentioned that there was software offered by Endeca that sorted search results by "most popular" from circulation statistics, but none of the libraries had this.

Sauperl and Saye (2009) compared four OPACs, an online bookstore, Amazon, and two internet search engines in order to review some the changes and directions library catalog have incorporated. What they noticed was that Google, Amazon and library OPACS only used one interface and did not change those displays according to age group or user disability. Modifiable displays are important to meet accessibility standards as well as user needs and expectations.

Furthermore, language is a very important component of an OPAC. Sauperl and Saye (2009) found that "none of the interfaces were offered in different or multiple languages and scripts" and commented that while "English is the dominant language" does it meant the "other languages should be abandoned?" (p. 508).

Šauperl and Saye (2009) also found that Amazon offered suggestions of potentially useful items on the basis of items already purchased by the user. They then question why "do libraries not provide a similar service: not, of course, for items purchased but rather for items one has checked out or when new related items arrive?" (p. 507). This could help users decide which item to check out next. The software mentioned by Luong and Liew (2009) that sorts search results by most popular from library circulation statistics, is one option libraries could utilize to recommend items.

Regarding language, the International Federation of Library Associations (IFLA) published a final report for guideline on OPAC displays (2005). In this report, IFLA states that the OPAC is designed to find items that meet the user's input in search fields and that the users' needs should be considered in that design. In order to do that, the catalog should be in the users' language "so that they can find what they want using the words, or other means of communication with which they are familiar" (pg. 15). This will

permit users to comfortably navigate the OPAC and not feel as though they are not welcome at the location or being discriminated against.

In conclusion, there have been many suggestions that several of the authors agreed should have in order to facilitate searching the OPAC for users. For instance, Fokker (1983), Šauperl and Saye (2009), and Luong and Liew (2009) have all advocated the use of search engines to correct or suggest other words when the users commit spelling mistakes. This could be helpful to users in that it allows them to search the library's database without having a proficient grasp of the language. Also, Markey's (1983), Cherry, et al.'s (1994), and Luong and Liew's (2009) articles supported the idea of having cross-references or thesauri in OPACs in order to facilitate searching for users. This would be helpful in that it guides users to the terms that could be utilized in searching the catalog. However, in Fokker's (1983) article, he prefers that there should not be any cross-references so as to not overwhelm the user. Lastly, Hildreth (1982), Salmon (1983), Fokker (1989) recommends that OPACs use "natural language", or language that is readily understandable by the library's users. Cherry, et al. (1998) supports the previous authors' claims by saying that the OPAC interface should be free of library jargon.

Methods

In order to analyze the amount of Spanish in the OPAC and thereby determine the ease of navigation in it, content analysis was selected as the appropriate method of analysis. Content analysis is used to analyze the content within texts. Texts can be defined as advertisements, newspapers, books, and magazines and so forth as well as conversations (formal and informal-), speeches, theater and so on. When analyzing the text, the researcher can break the data down into levels; e.g., breaking down an entire book into chapters, sections, paragraphs, sentences, phrases, and words to determine the frequency of certain words, themes, concepts, and ideas. This methodology can aid the researcher in making inferences about the texts' author(s), time period, cultural climate, and biases and prejudices of the author and/or publisher by seeing what was included and excluded in the text. This paper concerns itself with the amount of Spanish displayed in a public library's OPAC and whether or not there are any tools to help Spanish-speaking users navigate the website if there are words not translated into Spanish; content analysis will allow the researcher to see if the library in question is subtly excluding or including non-native English speakers in the use of their OPAC and consequently the library itself via latent content, i.e. through the lack of Spanish.

The sample size of the study will be the OPACs of two counties that are located in the United States. As previously stated, this study will look at cities with a growing Hispanic population. In order to obtain a better evaluation it is prudent to compare counties that are similar in population, but have had a Hispanic population for different periods of time; this will allow for the comparison of a library that has only recently needed to accommodate Hispanic users with another that has had more time to accommodate the library's OPAC to those users' needs.

In order to select these two cities the researcher conducted research on the immigration patterns of Hispanics in the United States and found that Latinos are moving to the southeastern part of the country, such as Georgia, Tennessee, and the Carolinas, where previously there had been few Hispanics. The researcher then chose a state where Hispanic population growth had seen extraordinary amounts of increase and found that North Carolina experienced a nearly 400% increase in the Hispanic population. In order to narrow the scope for the study a county within North Carolina was selected that also witnessed a remarkable increase in the Latino population. Mecklenburg County fulfilled this requirement in that between the 1990 and 2000 census the Hispanic population increase from about 7,000 comprising 1% of the population to about 45,000 people, comprising about 6% of the population. In 2007, data showed that out of the approximate 870,000 people that lived in Mecklenburg County about 89,000 were Hispanic.

The choice for the county acting as a comparison to the North Carolina county was made by searching for a county in which the overall population was similar in size, but not necessarily the same size of Hispanic population. Furthermore, the desired county would be in a state with a heavy concentration of Hispanics in it. This ruled out such states like New York and Washington that have cities where they contain pockets of heavily Hispanic-populated areas, but not throughout the state. Places like Arizona, New Mexico, Texas, Florida, and California are more likely to have Hispanics dispersed throughout their area as they share a border with or are close to a Spanish-speaking country as well as having a history of being previously occupied by a Spanish-speaking empire, Spain. Data from the Pew Hispanic Center that San Francisco County was appropriate to study. The county's population in 1990 was just over 700,000 people, which was comprised of about 100,000 Hispanics. In the 2000 census, the county's population grew to about 780,000 people and the Spanish-speaking population demonstrated a 10% increase. In 2007, however, San Francisco County experienced a small decline in both overall population, down to 765,000 people, and Hispanic population, down 2,500 people. Nonetheless, the two counties are similar enough in size to allow a comparison of the two counties' OPACs.

I evaluated the OPACs based on checklists gleaned from several sources such as Cherry, et al. (1994, 1998), Hildreth (1982), Luong and Liew (2009). If there were components missing from these checklists, such as foreign language, then I created another category devoted to that topic. Because these OPACs may be run by an ILS and the public library having little choice as to which features to choose to implement in their OPACs, I analyzed what features the ILSs have to accommodate these libraries with nonnative English-speaking users and added those criteria to the checklists if deemed relevant to the study in question.

In order to obtain the data needed to conduct a comparison of OPACs, a checklist was adapted from other researchers who have created them in order to do their own comparisons of catalogs. The checklist is comprised of feature groups thought to be useful in an OPAC, including searching capabilities, access points, bibliographic displays, user assistance, the page layout, labeling, and text. These groups are essential in navigating a public library's catalog because they can make the user decide whether the library meets their needs and whether or not the library is friendly to non-native English speakers. The page layout is important because a page with lots of information, blinking images, and a messy layout can dissuade users from seeking information; this is equally true of bibliographic displays. The OPAC should have an organized, concise way of presenting information to the users to help them in finding what they need with hardly any effort to locate needed material. User assistance is also necessary for an OPAC in that it allows the user to access help remotely. Labeling is equally important in an OPAC because it helps users to navigate, search, and evaluate the catalog. Finally, searching capabilities and access points are needed so that the user has various options of looking for the item she or he wants. The checklist used for this study is included below:

Searching features

1. Offers types of searches

- a. Basic search
- b. Advanced search

2 Full search capability on conventional access points

- a. Title
- b. Keyword any where
- c. Key word (using and, or, not)
- g. Series
- h. Author or editor or organization
- i. Subject
- j. Class number (or call number)
- k. ISBN/ISSN
- 1. Notes
- m. Summary
- n. Table of content

3 Provision for Boolean search

- 4 Provision for exact matching
- 5 Provision for phrase searching
- 6 Hypertext links in full bibliographic record display
 - a. Authors
 - b. Subject
 - c. Call number
 - d. Series
 - e. Location map

7 Provision for field directed searching

8 Provision of browsing capabilities

- a. Browsing by authors
- b. Browsing by subjects
- c. Browsing by series
- d. Browsing by publishers
- e. Browsing by call number
- f. Browsing for new titles
- g. Browsing by type
- h. Browsing by title

9 The user can select return to a previous screen and change a selection Search for new items

- 10 Related items
- 11 Provision for single search interface
- 12 Provision for a visual map
- 13 Faceted navigation ability
- 14 Thesaurus search

Search limits and strategies

- 1.Displays search strategy
- 2 Refining of initial search

3 Provision for comprehensive search limits

- a. Specific year of publication
- b. Year publication (before, after, between)
- c. Publication status
- d. Library location
- e. Publisher
- f. Place of publication
- g. Medium
- h. Item type
- i. Language
- j. Serials

Access Points (CM Fig. 33-40)

1.Author

- 2 Keyword in author
- 3 Title
- 4 Keyword in title
- 5 Subject heading
- 6 Keyword in subject heading
- 7 Publisher
- 8 ISBN/ISSN
- 9 Provides name authority control
- 10 Provides subject authority control
- 11 Notes

Bibliographic displays

1. Provisions for bibliographic displays

- a. Short display
- b. Long display

2 Limiting the number for the display of records (output control)

3 The circulation status is shown on the same screen with a call number

4 Items in a set are numbered successively when there are more items than can be displayed on one screen

User Assistance

1.Is there an online tutorial?

- 2 Help messages are provided
- 3 Display system messages (such as error messages) by using contrasting display features (e.g.) bolding, color

4 Spell check software is available to the user

- 5 Provide options to the user listed near both the top and bottom of page
- 6 Provide options clearly separated from the information round them

Output/services/facilities/external links

1.Facility for sorting records

- a. Author
- b. Title
- c. Relevance
- d. Classification
- e. Date of publication
- f. Format
- g. Ranks output by popularity
- h. Subject heading
- 2 When multiple records are retrieved in a single search, the user can select
 - a. Any single record for display
 - b. Several records not in sequence for display (e.g. record #2, #5, etc.)
 - c. A range of records for display (i.e. by specifying the first and the last records.,
 - e.g. from record #5 to #9)
- 3 Results can be printed
- 4 Search results can be saved
- 5 Search results can be added to the user's list
- 6 Interface with the circulation system
- 7 Provision for exporting/downloading of retrieved records
- 8 Links to external sources
 - a. Free sources selected on the internet (URL)
 - b. Links to book review
 - c. Links to table of contents, companion and supplementary materials
 - d. Links to e-journals and e-books

Page Layout

1. Is there at least one blank line between the page title and the body of the display?

2.Highlighting techniques used (bolding, font size and underline)

3.Labels, text and instructional information displayed in consistent locations, formats throughout the display

4. Provision of next/previous

Results

Once the library page was translated to Spanish, it was clearly dominant in C-M's and SF's catalogs, but there were instances where wording may have seemed awkward, especially in C-M's catalog, and/or headings and descriptions of events remained in English, as in SF's case. Also, services offered to Anglo-speaking patrons are not provided for Spanish-speakers. For example, in C-M's catalog there is an option to take a tutorial on how to use a catalog in English, but there is not one for Spanish-speakers. SF and C-M provide extensive help on how to conduct advanced searches, but SF is the only one with hints underneath the simple search box. While both catalogs store the user's search history, it C-M's that provide the user with a visual sense of the search with its visual thesaurus. Lastly, both catalogs offered important access points in Spanish. Nonetheless, providing subject headings in Spanish seems to be both catalogs' major weak spot: sometimes there are only English subject headings, sometimes only Spanish, or the same subject headings in both languages.

Home Page

A library's OPAC is a source of information for those users who need to locate resources. Usually, the catalog contains search fields for the title of the item, author(s), keywords, and subject in the basic search while date of publication, publisher, language, and location are in the advanced searching options. With these fields the user can hopefully find what they are looking for quickly. However, there may be instances where additional effort is needed on behalf of the searcher. They may need to click on additional links that, hopefully, lead them to the item or clarify conflicting or vague information. Much research has been conducted on the navigability of English-language OPACs for guidelines on how to do this. There has been, however, appallingly little research conducted on the navigability of OPACs that are in Spanish, considering Hispanics make up 15% of the United States' population, or 40 million out of 282 million people out of the total population, and are the largest minority group in the country (Bernstein, 2008). Furthermore, most of the research on catalog navigability has had a bias towards the academic setting with few articles dedicated to the public library OPAC. This paper hopes to provide the public library world with more information on this aspect by conducting an evaluation of how public libraries help their users navigate the catalog when it is in Spanish. Due to time limitations, however, this paper will compare two public libraries with different backgrounds: Charlotte-Mecklenburg County, North Carolina, where they have recently witnessed a rise in Hispanic population growth so dramatic that it necessitated a Spanish version of the library's catalog, and San Francisco County, California, where the Hispanic population has been there for a relatively long time, i.e. since the U.S. Census Bureau included the term "Hispanic" in the census

questionnaire in 1970 (U.S. Census Bureau). This study focuses solely on the OPAC navigation experience, and no contact was made with these two public libraries' employees.

The most important feature on the library homepage is the icon to switch to the Spanish version. The icon should large and in a visible location so that users will quickly know where the icon is located (Galitz, 2002). From eye pattern tracking studies, it has been noted that users' eye movements have been found to scan a webpage in an "F"shaped way. That is, they scan the left side, the top and some of the middle of the webpage while the rest of the webpage is accorded less attention (Nielson, 2010). To translate Charlotte-Mecklenburg's (C-M) library website into Spanish, the user has to search at the bottom to find it (Figure 1). This could dissuade potential users of the library because the entire page is in English, a language with which they may not be familiar and may not search the entire page for the translation button. Furthermore, C-M's website show a bias towards English even when the user locates the drop down box to switch into a different language. The user needs to know what "translate page" means as well as how their language is spelled in English since the menu box does not provide the languages offered in the offered language, i.e. the menu says "Spanish" and not "español" for Hispanic users. All of this makes it difficult to navigate the library's homepage as well as introducing barriers to navigating it because of possible intimidation factors. To translate San Francisco County's (SF) library website into Spanish, the icon is below "San Francisco Public Library" with the phrase "en Español" ("in Spanish")² in the welcoming banner. However, SF library has made it so that the icon is in a slightly

¹ All translations are done by the author.

darker color than the background of the welcoming banner and in small text, which increases the likelihood of the translation button being missed by users with poor eyesight and/or having trouble distinguishing the color.





For the C-M library, once the user has selected "Spanish" as their interface

language for the catalog, the library page looks like this (Figures 3 and 4):



Figure 4:



As shown above, the majority of the page has been translated into Spanish.

However, the subheadings have remained in English. Whether this was intentionally left in

English or a failing of the translation system, Systran, that C-M employs is not known. There is a possibility that Hispanic users will understand the general topic of each area by glancing at the bullet points under each subheading, but in Figure 5 one can see that the tabs, which are extremely helpful in navigating the site, and a sample of the drop down menus are still in English. Furthermore, in Figures 3-5 one can see that the news box containing information in helping their users find jobs or important changes taking place in the library remains in English. If the Hispanic user does not know any English or very little at all, they will ignore this and remain unaware of new opportunities for them at the library. However, Figure 6's drop down menu has choices in Spanish that will take the user to the web page they need, if the label in English, "Find it Fast", does not dissuade them first.

Figure 5:



In Figure 6, under the heading "Power Up Your Reading", there is a bullet point with the title "Encuentre los grandes libros para los cabritos". As the author has had nearly a decade of learning Spanish and spent a year abroad in Spain, she knew that what makes sense in one language does not always make sense in another, especially with translating software. From what the author saw in Figure 1 and compared it to Figure 6, the author deduced it was trying to say: "Find great books for kids". First, "great" in Spanish is "gran", not "grande", which means "big". Secondly, from what it appears, it looks like the translator made an egregious mistake with translating the word "kid" into Spanish. In English, "kid" can be a baby goat, a young antelope, or slang for a human child (Oxford English Dictionary, 2001). This translator saw the word "kid" and thought it meant the baby goat, using the word "cabrito", which is the diminutive for goat in Spanish, "cabra". Although this is the correct word, however, it could also be used as a curse word for a child born out of wedlock. Depending on which Hispanic region, e.g. Central or South America, Spain, or Mexico, that constitutes the majority of Charlotte-Mecklenburg's Hispanic user community, it would be better to use "chaval(a)", "pibe(a)", or "cabro(a)", respectively. Furthermore, throughout the website the author encountered poor Spanish word choices³ (Figure 7) and random words not translated ("homebound") into Spanish (Figure 8) that are significant for full comprehension of the document or action, as well as words not further explained, such as "homebound" in the "Biblioteca por Correro" ("Library by Mail") page (Figure 8), that users may not be familiar with. These incongruities may seem minor but can in fact deter users from further navigating the library's website and/or services if they do not fully understand what a word means.

³ Under "Zinger Recommends", the link says "mes negro de la historia", i.e. "history's black month", while "el mes de la historia de los negros", i.e. "Black History Month", would have been better. Also, the translator does not appear to take into consideration the present-day politically correct word for Blacks, African-Americans, and instead translating the page verbatim.

Figure 6:



34
Figure 7:



Figure 8:

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Home Catalog Locations Events Research/Homework	Services Kids Teens About Us Contact Us
Casero > Catálogo > PLCMC: Biblioteca por correo	🥮 <u>Comentario en esta paginación</u>
Biblioteca por	correo
 El honorario para este servicio del ahorro de tiempo es \$5 por el libr biblioteca por correo está libre <u>homebound a los patrón</u>. Su libro será enviado a usted con un anuncio publicitario de vuelta pe período normal de la comprobación de tres semanas aplicado a su o biblioteca. Localice el título que usted desea pedir prestado de nuestro <u>catálogo</u> abajo. Los items de la biblioteca por correo están conforme a las mismas o renovación que cualquier otro item. Las cargas de la biblioteca por correo se deben cargar a una tarjeta debido a las restricciones y a los períodos de empaquetado de la co DVDs, los libros de la cinta magnética para audio, o CDs de alquiler Un libro por enviar. La petición será llenada como material llega a estar disponible. 	o, sin embargo, el servicio de la agado por adelantado con nuestro cu enta de la tarjeta de la <u>o en línea</u> y llenar el formulario guías de consulta y multas de la de crédito. omprobación, no podemos ofrecer los bestsellers, los videos, r a través del correo.
Se requieren todos lo	s campos.
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For the SF library, once the user has selected "Spanish" as their interface

language for the catalog, the library page looks like this (Figure 9):



As shown above and like C-M's library, most of the links that are displayed on the webpage are in Spanish except for the titles of events. To see if all titles are in English, the author clicked on "calendario"⁴ and found that the titles were in a mix of English and Spanish (Figure 10). While this allows the users to navigate the titles with ease, it was found that the exhibition titles were in English while help with scholarly work, e.g. SAT test-

⁴ "Calendar", respectively"

preparation, school homework, etc., was in Spanish. However, clicking on an English-titled exhibition leads the user to this page that had a brief summary of the showcase in Spanish but the title remained in English (Figure 11). When clicking on "Occupation! Economic Justice as a Civil Right in San Francisco", the webpage leads the user to an English-only webpage (Figure 12). This may be frustrating to some users who want to know what kinds of exhibitions the library has.

Figure 10:

io :: San Francisco Public Library - Mozilla Firefox		
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Viernes 19 de Febrero de 2010 - Jueves 11 de Marzo de 2010	Faces of Ghana-Photo Reflections	Biblioteca Central Centro Africano Americano: Exposición - 3ª Planta
Viernes 19 de Febrero de 2010 - Domingo 21 de Marzo de 2010	Renewal: Printmakers from the New Northern Ireland	Biblioteca Central Skylight Gallery Exhibit Area - 6th Floor
Hoy 8:00 - 10:00	Staff Use	Park Park: Sala de Reuniones
Hoy 12:30 - 4:30	Community Group Use	Biblioteca Central Sala de Conferencias Familia Sycip - 4ª Planta
Hoy 2:00 - 5:30	Película y Charla: Medicina para la Melancolía	Biblioteca Central Auditorio Koret - Planta Baja
Hoy 2:00 - 3:30	SAT Revisión	Chinatown Chinatown: Sala de Reuniones
Lunes 1 de Marzo de 2010 - Lunes 31 de Mayo de 2010	Elegant Needlework: Embroidery from Shanghai	Biblioteca Central Centro Chino: Exposición - 3ª Planta
Lunes 1 de Marzo de 2010 10:15 - 10:45	Cuentos para los Pequeños	Marina Marina: Área Principal
Lunes 1 de Marzo de 2010 10:30 - 11:00	Cuentos para los Pequeños	Biblioteca Central Sala de Cuentos para Niños - 2ª Planta

Figure 11:

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Figure 12:



While there does not appear to be any glaring translation typos, there does seem to be some confusion as to the placement of adjectives. In Spanish, adjectives are often placed after the noun. However, the language will sometimes follow English adjective placement practices, especially regarding technology, or appropriate the entire English word. For example, instead of saying "correo electrónico", the general usage practice in Spanish has been to say the English "e-mail". This has been pattern in the Spanish language when anything is prefaced with "electronic". Thus, while Hispanic speakers may know what is trying to be communicated by "Libro-e & Música-e"⁵ (Figure 13), it may make more sense to write "eLibro" and "eMúsica". As to whether the library's decision to have it the way they do will hamper navigability is questionable.



decision to have it the way they do will hamper havigability is question

⁵ "E-book & E-Audiobook Websites".

Searching Evaluation

When a user searches for an item in C-M's library, they encounter an ambiguous search box for the catalog (Figure 14). There is no guidance for the user on what to type in. While it is great that C-M is trying to provide the user a sense of searching without limitations, some structure would be beneficial if the person wants to browse by location or language. If one clicks on the "Catálogo Clásico"¹ in the upper right hand corner, it leads the user to a catalog with fields (Figure 15). Nonetheless, it is in English, thereby restricting navigation if the user is not comfortable with English. If, however, the user decides to forge ahead to see if the catalog is available in Spanish, they would have to try the "Enhanced Catalog" tab shown on Figure 15. In the upper right hand corner of Figure 16, one can see there is option of translating the catalog into Spanish ("Catálogo en español")², although one loses the video recorded tour of the catalog in the Spanish version (Figure 17), preventing users from knowing any additional advice or tips that may be useful when conducting searches.

¹ "Classic Catalog".

² "Catalog in Spanish".

Figure 14:



Figure 15:

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You're searching: Public Library of Charlotte and Mecklenburg County	
Basic Search	
Search the library catalog by selecting your desired index, input your term and select the arrow button.	

Please note, this is our Classic Catalog. To search our Enhanced Catalog, click the tab above.

Horizon Information Portal 3.09_74.01

© 2001-2004 Dynix All rights reserved.

Figure 16:



Figure 17:



From searching the C-M's library page, it appears that the website does not have advanced searching options, but rather faceted searching as seen in Figure 18, with the options for refining in clearly delineated rectangles in different colors. Also, abbreviations have been avoided in the textual information provided so as to be conducive to user navigation. While this can lead users to related material, it produces more effort on behalf of the user to navigate the catalog. Furthermore, as seen in the screenshot, not all of the words are translated into Spanish, a theme that seems to be recurring in C-M's catalog.



SF's abbreviated version of the catalog search box in the upper right hand corner of the screen is like C-M's, except it provides the users with the option of structure, having "Opciones de búsqueda" (Figure 19) below the search box. Users also have the option of "Buscar en Encore", "Catálogo Clásico", "Calendario", "Fotos de San Francisco", and "Buscar el sitio Web"³. However, as shown in Figure 20, when clicking on "Fotos de San Francisco", the site does not take the user to a new search page, but instead keeps the same screen and changes the words in the search box to let the user know what the system is searching. If the user does not pay attention to what they are doing, this may lead them to confusion.

³ "Searching options", "Search in Encore", "Classic Catalog", "Calendar", "Photos of San Francisco", and "Search the Website", respectively.

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+ http://sfpl.lib.ca.us/index.php?pg=040000002&sl=2#

Figure 20:



Done

For more options the user can search various fields: "autor", "material", "author/título", "editorial", "título", "número de clasificación", "ISBN/ISSN", and "número de documento gubernamental". Furthermore, one can also "ver catálogo complete"⁴ (Figure 21). While this may not entirely hamper navigation, it could introduce confusion on the user's behalf as they may expect to search the library's entire material holdings. Additionally, the SF library does provide its users explanations on how to search by each field. For example, when searching by author, the SF library instructs the user to write the last name first, then the first name. For title, they recommend complete or part of the title. However, there is no mention as to include the definitive or indefinite article or not, although from the shown examples, it is implied to omit articles (Figure 22).

⁴ "Author", "Material", "Author/Title", "Publisher", "Title", "Classification Number", and "Government Document Number", and "see the complete catalog", respectively.

Figure 21:

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WebPAC PRO © Innovative Interfaces, Inc.

Figure 22:

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In contrast to C-M's library, SF's library has a traditional advanced search screen (Figure 23) with the majority of it translated into Spanish, although sorting and some language options remain in English.

Figure 23:				
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The SF library does provide provisions for truncation, exact matching, Boolean searching (Figure 24), and proximity searching (Figure 25) if the user clicks "consejos útiles para su búsqueda"⁵ (Figure 23).

Figure 24:	
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queda Avanzada en el Catálogo 🗙 👩 Consejos Utiles para su Búsqueda 🗙 🔅	
Consejos Utiles para su Búsqueda	
Modificadores	Ejemplos
Conectores	
And se añade de forma automática entre palabras.	niños cuidado busca cada instancia de estas palabras " niños cuidado" busca las palabras como una frase
Or busca múltiples palabras en cualquier campo.	Guatemala or Nicaragua
And not excluye las palabras indicadas.	historia and not colonial
Contigüidad	IT to an the state II
Las palabras entre comilias se buscan como una frase. El orden de las palabras es importante.	"Antología personal"
Truncamiento	
Las palabras se pueden truncar por la derecha usando un asterisco.	politic*
Use un solo * para truncar 1-5 carácteres.	busca política, político, políticas
Use dos ** para un truncamiento abierto.	Alex** busca Alexander, Alexandria, Alexis
Proximidad	
Use near para buscar palabras cercanas y en cualquier orden.	Latinoamérica near literatura
Use within # para buscar palabras que no estén separadas por más palabras que las indicadas. Before y after buscan palabras en un orden especifico.	América within 3 economía Las palabras América y economía no pueden estar separadas por más de 3 palabras
Cuando los conectores de proximidad están dentro de la frase de la búsqueda, escriba la frase entre comillas.	"near fatal" "deep within" "before midnight" "after school"
Campos	
Especifique los campos de búsqueda usando las siguientes abreviaturas:	

⁵ "Useful advice for your search."

Figure 25:

nsejos Utiles para su Búsqueda - SFPL.org - Mozilla Firefox	
Edit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	
C X 🟠 🙆 http://sflib1.sfpl.org/screens/searchtips_spi.html	😭 🔹 🚼 🔹 encore ils
.S 🧕 UNC Home 🚇 UNC Libraries 🗋 help.unc.edu 搹 Webmail 🗋 MyUNC	
iúsqueda Avanzada en el Catálogo 🗙 👩 Consejos Utiles para su Búsqueda 🗙 📑	
Modificadores	Ejemplos
Conectores	
And se añade de forma automática entre palabras.	niños cuidado busca cada instancia de estas palabras "niños cuidado" busca las palabras como una frase
Or busca múltiples palabras en cualquier campo.	Guatemala or Nicaragua
And not excluye las palabras indicadas.	historia and not colonial
Contigüidad	
Las palabras entre "comillas" se buscan como una frase. El orden de las palabras es importante.	"Fotografía digital" "Antología personal"
Truncamiento	
Las palabras se pueden truncar por la derecha usando un asterisco.	politic*
Use un solo * para truncar 1-5 carácteres.	busca política, político, políticas
Use dos ** para un truncamiento abierto.	Alex** busca Alexander, Alexandria, Alexis
Proximidad	
Use near para buscar palabras cercanas y en cualquier orden.	Latinoamérica near literatura
Use within # para buscar palabras que no estén separadas por más palabras que las indicadas. Before y after buscan palabras en un orden especifico.	América within 3 economía Las palabras América y economía no pueden estar separadas por más de 3 palabras
Cuando los conectores de proximidad están dentro de la frase de la búsqueda, escriba la frase entre comillas.	"near fatal" "deep within" "before midnight" "after school"
Campos	
Especifique los campos de búsqueda usando las siguientes abreviaturas: • a: (autor) • t: (título) • s: (materia) • n: (notasse usa para obtener títulos de cuentos breves, poemas y canciones en una colección)	a:vallejo and t:virgen* s:impedid* and s:educa*
	F

When attempting to search a book found in both SF's and C-M's libraries, "La isla de los amores infinitos"⁶ by Daína Chaviano, the item was searched with the definitive article "la", which stands for "the" in English, since no search instructions were provided and the author of this paper assumed no prior knowledge of searching in a library catalog.

C-M returned these results in Figure 26. Although the author of this paper started in the Spanish version of the catalog, the system reverted back to the English version. This could irritate users as they would probably expect the system to remain in Spanish and would have to put forth more energy reverting back to the Spanish catalog. To see whether the system would translate the results page in Spanish or go back to the screenshot found in Figure 16, "Catálogo en español" was clicked in the upper right hand corner in Figure 26. The results are shown in Figure 27.

⁶ "The Island of Eternal Love".

Figure 26:





However, once in the Spanish version of the search page, the system remained in this screen when searching for "La isla de los amores infinitos" (Figure 28). Still suspicious, "La isla negra"⁷ was entered to see if it would remain in the same screen or not. It was in the same screen when the results came up (Figure 29).



⁷ "The Black Island".

Figure 29:

m estalog pleme or



It is possible to refine the search. When a query was entered in the search box for a more prolific topic, such as Pablo Neruda, Figures 30 and 31 show how the user can refine the search. While the majority of the results were in Spanish, some of the options to narrow the results were in English, preventing the user from fully navigating the catalog. Nonetheless, the catalog offers Hispanic users the option to limit the search by material found at the top of the search results (Figure 30) as well to sort the results by relevance, year, title, and author¹. However, in Figure 32, one can see that the classic version of the catalog offers far more options than the newer one, although the option tabs near the search field not let one return to the search screen first used and the names of the material are in English. The user has to use the back button on the top of the webpage to navigate back to the all-purpose search field. Furthermore, the classic version on the left hand side does not have a search box for keyword (Figure 33).

¹ "Relevancia", "año", título", and "autor", respectively.,

Figure 30:



Figure 31:

iguie 51.											
e Mecklenburg Libra	ry - AquaBrowser	Library ® - Mo	zilla Firefox								
<u>V</u> iew Hi <u>s</u> tory <u>B</u> oo	okmarks <u>T</u> ools	<u>H</u> elp									
-) C 🗙 🖌	http://ca	atalog.plcmc.o	rg/?uilang=es						🔂 • 🛃• s	an francisco library	
UNC Home 回 UN	NC Libraries 📄 he	elp.unc.edu 🖷	Webmail 📄	MyUNC							
otte Mecklenburg Li	brary - Aqu										
	Recipient of Libr Public I f Charlotte &	ary Journal Fi Librar Mecklenb	ve Star Award Y urg County	PLCMC.o	rg Pay Fines	Locations	Research/Homew	ork Questi	ons/Contact Us	Technical Feedba	ick sh
Sugerencias	Auto	Hide 📢	Pablo ne	eruda		Búsqueda	Clásico	> Texto-Sólo	› Ayuda > Imprim	r My Discover	ies
Sugerencias	Autoi	le la	Solicitado	remarkable lite	rary endeavors.			FARD NEEUDA) u 2_as (2)		
oppre toby p cellist	at bounty	n	Jonetado	Editor: Signatura: Materia: Etiquetas:	New York : Blo trade by Holtzl 804.96 NERUD Authors, Chilea Biography., <u>Ne</u> biography, Jatii 20th century, N	omsbury : Dis brinck Publish A an 20th cen <u>ruda, Pablo, 1</u> etry, <u>neruda</u> , I n american litu writing, literar	tributed to the ers, 2004. 904-1973. terary erature, chile, y criticism	a pagina na di	 M8_ar (2) Idioma Inglés (36) Español (7) Italiano (1) indeterminac Serie Discoveries (The Texas Pare (1) 	la (1) 1) an American	
poemas mei amor	narada p rida	oetry	Libro Material Solicitado	To go singing i Neruda / Debr Ray, Deborah I Account of the poet. Editor:	through the world orah Kogan Ray. Kogan, 1940- childhood of <u>Pablo</u> New York : Far JB NERUDA OV	<u>: the childho</u> <u>Neruda</u> , the f rar, Straus ar	<mark>od of <u>Pablo</u> amous Chilean d Giroux, 2006.</mark>	8 Ge Claudee Bernel On (ord)	 Twayne's wo series (1) 9 más rdsrcMDTags poetry (28) neruda (27) latin america 	rld authors n literature (26)	m
Pa mathias Cas	blo neruda ^{als} picasso	adopt		Materia: Etiquetas:	Poets, Chilean Juvenile literat <u>Neruda, Pablo,</u> youth Juvenile <u>neruda</u> , south chile, poets, ki	20th centu ure., Poets, C , 1904-1973 literature.) america, prin ds	ry Biography hilean., · Childhood and hary, poetry,		 > 20th century > chilean litera > 188 más Geográfica > Chile (3) > Negra Island 	(26) ture (25) (1)	
veinte				» Save or tag					 Negra Island America (1) 	(Chile) (1)	
dwell	iablo tree	maya	Libro Material	Pablo Neruda Goodnough, D Goodnough, D Traces the life the famous Ch	: Nobel prize-winn avid. and career, includir ilean poet.	ning poet / Do	avid activities, of	AALO NERUDA MARIO NERUDA	 Latin America Lapso de tiempo 20th century Siglo XX (1) 	(1) (9)	
angelou	mora grieve	rage	Solicitado	Editor: Signatura: Serie: Materia:	Springfield, NJ YA B NERUDA Hispanic biogra Poets, Chilean Juvenile literat <u>Neruda</u> , <u>Pablo</u> ,	: Enslow Publ aphies. 20th centu ure., Poets, C , 1904-1973 J	ishers, c1998. ry Biography hilean., Jvenile	Ar long	Persona > Neruda, Pabl > Kierkegaard, 1813-1855 (o, 1904-1973 (19) Søren, 1)	
Asociación Traducción	Variació Tesauro	n del deletreo		» Save or tag					Fuentes exter	nas – 🗆	
Senda de descubri	imiento		-	Pablo Neruda	/ Joseph Roman.			The second second	Login		-

Figure 32:



Figure 33 also demonstrates that the classic version of the catalog does not allow users to search between years or language in which the item was issued. One may also note that it does not restrict by library location on the left hand side. However, by using the refining list on the right side, one can limit by location (Figure 34) and have it work in tandem with the left side refining list.

gure 33:				
Mecklenburg Library - AquaBrowser Library ® - N	Aozilla Firefox	support to be a longer by the local built		
w History <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp				
C X 🔝 🏦 http://catalog.plcmc	.org/?uilang=es			😭 🔹 🚼 • san francisco library
NC Home 回 UNC Libraries 🗋 help.unc.edu	न Webmail 📄	MyUNC		
e Mecklenburg Library - Aqu 🔶				
💻 🙀 Recipient of Library Journal	Five Star Award	PLCMC.org Pay Fines Locations Research/Hom	ework Quest	ions/Contact Us Technical Feedbac
🗠 Public Libra	# 37			
<u>PLCMC</u> of Charlotte & Mecklen	burg County	🗸 🗸 Login 🚯 My Account	Classi	c Catalog 🛛 📮 Catalog In Englisi
Clásico			> Texto-Sólo	Ayuda Imprimir My Discoverie Búsqueda asociativa
		Resultados 1 - 10 de 30 para [Busqueda compleja], ordenado	os por: relevancia	RSS FEEDS
Búsqueda con				Selección
Título				Mostrando resultados de:
Autor		(29) (2) (1)		Todas las sucursales 🔹
pablo neruda				Refinar
Materia		Sus resultados han sido agrupados por edición > Mostrar toda	is las resultados	Materia
		Los mejores poemas de amor / Pablo Neruda ; selección		 Spanish language materials (3)
Editor		de Javier Argüello.	Pabla	 Poesía (2)
	Libro	Editory Parcelona : Lumon : Pandem House	Neruda	> Amor (1)
Publication year	Material Solicitado	Mondadori, 2006.		 Songs (Medium voice) with orchestra (1)
Series	Solicitado	Signatura: F	-	> 10 más
		» Save or tag		Fecha de publicación
Formato	-	Intimacies : poems of love / Pablo Neruda ; translated	AC I	 Dure 3 anos (2) Dure 10 años (9)
		from Spanish by Alastair Reid ; paintings by Mary Heebner	Neruaa	Autor
Numero ISBN/ISSN	Libro	traducción del español por Alastair Reid ; pinturas por	and the states	> Reid, Alastair, 1926- (5)
	Material	Mary Heebner. Neruda, Pablo, 1904-1973.	THIN IS	> Tarn, Nathaniel, (3)
Los resultados deben coincidir:	Solicitado	Editor: New York : Harper, c2008.	and the second second	 Belltt, Ben, 1911-2003 (2) Schmitt Jack 1932- (2)
● Todos los campos ◎ Un campo o		Signatura: 861		 Merwin, W. S. 1927- (William
nas		» Save or tag		Stanley), (2)
Rúsquoda Poinician		20		Cónoro
		<u>Neruda ; ilustraciones de Mario Toral.</u>		 Poetry (3)
	Libro	Neruda, Pablo, 1904-1973.		 Translations into English (3)
	Material	Editor: Santiago de Chile : Editorial Grijalbo, 2004,		 Musical settings (2) Biography (1)
	Solicitado	Signatura: 861 SPAN - N OVERSIZE (861)		Idioma
		Etiquetas: poetry, <u>neruda</u> , love, chile, 20th century,		 Inglés (26)
		latin american literature, latin america,		> Español (5)
		chilean, hober		indeterminada (1)
		» Save of tag		Fuentes externas
		Isla Negra : a notebook / translated from the Spanish by Alastair Reid : afterword by Enrice Marie Sarti		
	Libro	Neruda, Pablo, 1904-1973.		Log in

Figure 34:



Figures 35 and 36 show the user on the left hand side of the screen what items are related to this item (in black), suggestions of possible misspelled words like Google has (in orange), thesaurus (in gray), translations (in green), and the path of words chosen by the user. From the cloud of words, the author selected "amor" on the left side of the visual thesaurus and "Pablo Neruda" was highlighted in blue to show the words the author selected previously. However, the possibility of saving one's search history is not apparent from the website. Moreover, a user must have a C-M library card to access some of the user features.



Figure 36:


From the help page (Figure 37-38), the Boolean searching options available to users are "and"- which is understood by the terms the user enters in search box, and "or", which the user had to enter. The Boolean operator "not" was not included in the searching directions and is assumed to not be a search option. Furthermore, the author could not find any options to search by exact matching, but did a search with "isla negra" in quotations (Figure 39). While the first two results show that obviously the phrase is in their records, the third one does not (Figure 40).

Figure 37:

🕑 Ayuda de Aquabrowser - Mozilla Firefox	
Elle Edit View Higtory Bookmarks Iools Help	
🔔 http://catalog.plcmc.org/help.aspx?bookmark=main&inilibrary=false&unext=false&udebug=&lastquery=&lvq=&lsi=&wilang=es&searchmode=assoc&hardsort=&skin=plcmc-skin&rctx=&c_over=1&ccurpage=1&cc	oncept=&branc 🏠
« Regresa al catálogo	
Pautas básicas para la búsqueda en AquaBrowser Library	
Buscar en AquaBrowser Library es fácil. Simplemente hay que teclear uno o más términos (las palabras o la frase que mejor describe la información que Ud. quier encontrar) en el cuadro de búsqueda y pulsar Intro o el botón Buscar.	e
AquaBrowser generará al instante los resultados: en el centro aparecerá una lista con los resultados más relevantes; a la izquierda estarán agrupados los resulta relacionados; y a la derecha se visualizará un exhaustivo menú de opciones que le permitirán reorientar la búsqueda hacia direcciones específicas.	dos
Términos de búsqueda	=
Seleccionar el término de búsqueda correcto es la clave para encontrar la información que Ud. está buscando. Comenzar con la opción más indicada es la mejor m encontrar la información que Ud. necesita. Usar múltiples términos ayuda a restringir los resultados de la búsqueda. Si Ud. no puede encontrar los términos adec nube de palabras podrá ayudarle.	anera de uados, la
Por ejemplo, para buscar información sobre cómo reparar su coche de cierta marca, use jaguar repair Buscar	
Nube de palabras	
Un problema que los usuarios de muchas bibliotecas tienen cuando están buscando en el catálogo es que ellos simplemente no pueden pensar en el mejor términ búsqueda. AquaBrowser Library ofrece sugerencias en la nube de palabras situada la izquierda de la pantalla para ayudarle cuando necesite ayuda para encontrar término de búsqueda.	o de el mejor
En esta nube de palabras Ud. podrá encontrar:	
Asociaciones que tienen algo que ver con el término que Ud. haya usado	
• Variaciones en la ortografía del término usado. Hacer clic sobre una variante ortográfica para reemplazar el término introducido (de esta forma se pueden también fallos de escritura)	corregir
• Traducciones del término de búsqueda introducido a los idiomas que se pueden encontrar en la biblioteca	
Términos de tesauro que pueden ser tanto sinónimos como antónimos de su término de búsqueda	
• Variaciones de palabra (stemming) que pueden incluir algunas variantes de su término a partir de la raíz (por ej. si Ud. introduce 'throw' puede sugerirse t 'threw')	ambién
• Senda de descubrimiento: su término de búsqueda inicial y los términos seleccionados posteriormente de la nube de palabras.	
Distancia de la sugerencia con respecto a los términos originales desechados	
• El registro donde se haya utilizado más veces la palabra se estima como el más relevante por el algoritmo de relevancia automática.	-

Ayuda de Aquabrowser - Mozilla Firefox	
Edit View History Bookmarks Iools Help	
http://catalog.plcmc.org/help.aspx?bookmark=main&inlibrary=false&noext=false&debug=&lastquery=&lvq=&lsi=&uilang=es&searchmode=assoc&hardsort=&skin=plcmc-skin&rctx=&c_over= busqueda. AquaBrowser Library offrece sugerencias en la nube de palabras situada la izquierda de la pantalla para ayudarle cuando necesite ayuda p	=1&curpage=1&concept=&brand ara encontrar el mejor
término de búsqueda.	
En esta nube de palabras Ud. podrá encontrar:	
Asociaciones que tienen algo que ver con el término que Ud. haya usado	
 Variaciones en la ortografía del término usado. Hacer clic sobre una variante ortográfica para reemplazar el término introducido (de esta form también fallos de escritura) 	na se pueden corregir
• Traducciones del término de búsqueda introducido a los idiomas que se pueden encontrar en la biblioteca	
Términos de tesauro que pueden ser tanto sinónimos como antónimos de su término de búsqueda	
 Variaciones de palabra (stemming) que pueden incluir algunas variantes de su término a partir de la raíz (por ej. si Ud. introduce 'throw' pue 'threw') 	de sugerirse también:
• Senda de descubrimiento: su término de búsqueda inicial y los términos seleccionados posteriormente de la nube de palabras.	
Distancia de la sugerencia con respecto a los términos originales desechados	
• El registro donde se haya utilizado más veces la palabra se estima como el más relevante por el algoritmo de relevancia automática.	
Menú de afinado	
AquaBrowser ofrece una lista casi interminable de categorías de entre aproximadamente 30 dimensiones que le permiten afinar los resultados de su obtener exactamente lo que Ud. quiere. Después de haber buscado sus términos, use el menú para seleccionar el formato de documento exacto, el	is búsqueda para l autor, la materia, el
idioma, la serie, etc. Observe que junto a cada categoria se muestra un número - esto indica el número exacto de ítems disponibles, por tanto no tr	endrá nunca que ir.

Búsquedas 'AND' automáticas

recorriendo una lista de resultados en la que no se ve el final.

Buscar y harry potter

Por defecto, AquaBrowser Library buscará sólo los ítems que incluyan todos los términos de búsqueda. No es necesario incluir el operador 'AND' entre los términos. Ud. puede también usar el operador 'OR' entre los términos para indicar que los resultados pueden tener alguno de los términos introducidos.

Por ejemplo, para encontrar documentos que tratenn tanto sobre jaguars como sobre cheetahs, introducir jaguar OR cheetah Buscar

Mayúsculas

La búsqueda en AquaBrowser Library No es sensible a las mayúsculas. El término que Ud. introduzca en el cuadro de búsqueda se considerará igual tanto si Ud. lo teclea en mayúsculas, como si lo teclea en minúsculas.

Ejemplo: Harry Potter

Buscar recuperarán los mismos resultados.

powered by AquaBrowser Library®

Done

Figure 39:



Figure 40:

Charlotte Mecklenburg Library - AquaBrowser Library ® - Mozilla Firefox File Edit View Higtory Bookmarks Iools Help C X A methoda: http://catalog.plcmc.org/?uilang=es A methoda: A methoda and a methoda	
File Edit View Higtory Bookmarks Iools Help C X A <td< th=""><th></th></td<>	
C X A (A http://catalog.plcmc.org/?uilang=es	
	٩
🔝 SILS 📕 UNC Home 🤠 UNC Libraries 🗋 help.unc.edu 👬 Webmail 🗋 MyUNC	
the Charlotte Mecklenburg Library - Aqu	
Example a star and the star and	eedback
Dublic Library	
FUDIC LIDIALY	English
	Chylish
Sugerencias Autor Hide "isla negra" Búsqueda Clásico Texto-Sólo Ayuda Imprimir My Disc	coveries
« Vuelva a la lista de resultados < Anterior	
Regro Borracca [cound recording] / Ottmar Liebert	
+ Luna Negra.	
tesla black Editor: Los Angeles, CA : Higher Octave, c1991. » Save or tag	
Signatura: JAZZ > Material Solicitado)
mera Matena: Guitar music (Jazz), Dance music Spain., Spainards Music.	
vertormer(s) Ottmar Liebert, guitarra Flamenca, with Luna Negra: Jon Gagan, Dass, keyboards : Dave Bryant, drums percussion, palmas : Gary Meek, tenor,	
alto saxophones ; Jeff Elliot, trumpet, flugelhorn ; Dominic Camardella,	
aragüés island piano.	=
Description 1 sound disc (65 min.) : digital ; 4 3/4 in.	
Contents Isla del sol (3:43) August moon (4:10) In the hands of love (4:42)	
(5:03) La rosa negra (4:25) Borrasca (3:34) Bullfighter's dream	
infinitos niagra visra (3:42) Thru the trees ; Cloudless sky (3:57) La Aurora (4:07)	
Driving 2 Madrid (b4 the storm) (4:07) The storm sings (3:58) Night	
in Granada (3:52) 1st rain ; Cry of faith (4:29) Bajo la luna mix (6:19).	
bajo Ud for this http://catalog.plcmc.org/?hreciid=%7clihrary%2fm%2fplcmc-	_
tesoro record: data%7c690851	
MARC Display	
amores Augulable 2	
Asociación Variación del deletreo Copies	
Traducción Tesauro Requests 0	
× Find: Isla	•

javascript:if (window.ABLFrame) ABLFrame.ShowDetail('|library/m/plcmc-data|690851',0,'cs=resultlist');

Like C-M's search box at the public library's homepage, SF's does not offer any guidance on how to search. "La isla de los amores infinitos"² by Daína Chaviano was searched with the definitive article "la", which stands for "the" in English, since no search instructions were provided and the author of this paper assumed no prior knowledge of searching in a library catalog (Figure 41). Unlike C-M's search system, SF's system did not revert back to English or make the user click multiple times to obtain the Spanish search interface, making it easier for the user to access. However, as one can see in Figure 41 and like C-M's system, SF's interface still retains words that are in English -- for example, the sort option below the yellow bar, the refining options on the left hand side, and the popular choices on the right, possibly alienating users. It is possible to refine searches in that one can choose the language, publishing date, library branch, etc, which are located on the left hand side.

² "The Island of Eternal Love".

Encore - Mozilla Firefox	ander Hale	
e Edit View History Bookmarks	oois <u>H</u> eip	
	ttp://encore.sfpl.org/iii/encore/search?target=isla+de+los+amores+infinitos&search_btn=&formids=target⟨=eng&suite=def&reser	ve 😭 🔹 🛐 san francisco public library
) SILS 🧕 UNC Home 回 UNC Libraries	: 🗋 help.unc.edu 🔚 Webmail 🗋 MyUNC	
Encore	*	
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	Classic Calaba	
Cooroby View		SAN FRANCISCO
Search: isla de los	amores infinitos	PUBLIC LIBRARY
S Explore Rela	ited Searches	oncoro
		encole
		Classic Library Catalog Feedback
Refine by:	Searched: isla de los amores infinitos (1 - 3 of 3)	Other Sources:
	Sorted by Relevance <u>Title</u> <u>Date</u>	WLINK+
At the library (3)	 (1 - 1) Most Relevant	Show 3
Title (3)		
FORMAT	La isla de los amores infinitos / Daína Chaviano 2006	Refine by Tag:
BOOK (3)	Chaviano, Daína, 1957-	cubaros cubans
Adult/Teen Materials (3)	CHECK SHELF - GLEN PARK BRANCH - SPANISH F CHAVIANO - Book	
Glen Park (1)	Show at a valiable copies/ volumes Show at 4 copies/ volumes	Popular Choices:
Main Library (3) Mission (1)	Add to cart V More info	People looking for this may want to
Sunset (1)	Request it Export to RefWorks	borrow these:
LOCATION		🚺 La isla de los amores infinitos /
GLEN PARK BRANCH (1) MAIN - 1st Floor (1)	————— (2 - 2)	Daína Chaviano.
MAIN - 3rd Floor - International Center		Difference is the second of the second secon
(2)	Zhongguo zi mi = La Isla de los amores infinitos / Daiyina Chaweiyanuo	the Spanish by Andrea G
SUNSET BRANCH (1)	zhu ; Jiang Huizhen yi ; Fan Yuan shen ding	7 Thongguo zi mi = La Isla de los
LANGUAGE	E La ista de los amores infinitos 7 ; Chaviano. Daína, 1957- Explore	amores infinitos / Daiyina
English (1)	Isla de los amores infinitos. Chinese	Chaweiyanuo zhu ; Jiang Huizben vi
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One can also conduct related searches, as seen below in Figure 42. SF, unlike C-

M, does not have a visual navigation map. This may prove an obstacle to some users when they cannot think of a different word that the visual map may provide.

Figure 42:		
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When the author entered the letter "a" to view the system's browsing capabilities, a pop-up informed the user to enter in at least two characters (Figure 43). This was not in any of the other languages into which SF's library page is translated: Spanish and Chinese. Furthermore, although the Spanish interface was chosen, most of the results were in English as well as the language options on the left hand side (Figure 44).



Figure 44: Encore - Mozilla Firefox _ 0 <u>_</u>X <u>File Edit View History Bookmarks Tools H</u>elp K 🔁 🗸 C 🔀 🏠 📀 http://encore.sfpl.org/iii/encore/search/C|Sad|Orightresult|U1?lang=eng&suite=def 😭 🔹 🛃 🔹 san francisco public library ۵ 📄 SILS 🧕 UNC Home 😑 UNC Libraries 📄 help.unc.edu 搹 Webmail 📄 MyUNC Encore ÷ other sources. Renne by. archeu, au (1 - 25 01 1005 Sorted by Relevance | Title | Date 1 2 3 4 5 next AVAILABILITY LINK+ At the library (636) ____(1 - 175) Most Relevant Show 30139 Online (46) SEARCH FOUND IN AD 1970 Refine by Tag: Title (527) Author (175) AD (London, England : 1969) 127 advertising attention Subject (91) Show library holdings Sec **FORMAT** deficit hyperactivity disorder comedy Periodical Add to cart / More info BOOK (657) Explore films compact discs MUSIC SCORE (192) Export to RefWorks disaster relief electronic journals MUSIC CD (63) DVD/VCD (44) emergency management E-BOOK (38) feature films motets 1966-+ more Ad : the international survey of advertisements = **COLLECTION** Internationale Anzeigen = Annonces internationales popular music San Adult/Teen Materials (976) Ad (New York, N.Y. : 1966) Book Anza (Closed) (37) francisco sonatas songs LIB USE ONLY - MAIN - 4th Floor - Page Desk - 659.4 Ad1 [1966] -Explore Bayview (17) with piano trio sonatas continuo Bernal Heights Branch (32) Add to cart 🗸 More info Branch Bookmobile 1 (15) united states video + more Export to RefWorks recordings for the hearing LOCATION impaired ANZA BRANCH (35) 2010 ANZA CHILDREN'S (2) Vzgliad iz vechnosti. 3.Ad [Show more tags] BAYVIEW -- STORAGE (1) Marinina, Aleksandra BAYVIEW BRANCH (14) 3 holds on first copy returned of 1 copy Popular Choices: BAYVIEW CHILDREN'S (3) Book Show copies on order + more Explore People looking for this, may Add to cart LANGUAGE More info want to borrow these: English (773) 兰 Mad men. Season one Export to RefWorks Request it Latin (92) [videorecording] / Lions Italian (53) Gate Television Inc. ; French (35) created by Matthew German (29) Ad women : how they impact what we need, want, and 2009 Weiner. Spanish (22) buy / Juliann Sivulka No linguistic content (16) 🔘 Doctor Who. The Sivulka, Juliann. Russian (14) Book complete fourth series CHECK SHELF -MAIN - 4th Floor - 659.1082 Si94a -Hebrew (11) Explore [videorecording] / CBC Japanese (10) Add to cart More info **Contents** Television; BBC Wales; Dutch (7) Summarv BBC ... Chinese (6) Export to RefWorks Request it Fict./Bio. Multiple languages (6) Illustrated history of Tagalog (5) women / Irene M. Portuguese (4) Ad boy : vintage advertising with character / Warren c2009 Franck and David M. Greek, Ancient (to 1453) (4) Brownstone. 📃 Dotz. Masud Husain Arabic (4) Done

79

It does not appear possible to access browsing from the main page, unless one types in a letter or number to obtain browsing capabilities. Nonetheless, one can browse by author (Figure 45), classification number (Figure 46), title (Figure 47), and material (Figure 48). Furthermore, results are limited to 10,000.³ One can browse by new titles, by going back to the main page under the tab "Libros & Materiales"⁴ (Figure 49) and can browse by genre (fiction or non) or by material type (Figure 50).

³ "El resultado ha sido limitado a 10000".

⁴ "Books & Materials".

Figure 45:

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	9		Αλεξιου-Πρωταιου, Γεωρφιασ.	1978	1
	10		A.A.A 3 Autores Relacionadas/os		3
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	12		A.A.A.C.E Véase American Association for Adult and Continuing Education		1
	13		A.A.A.E Véase Association of Arts Administration Educators (U.S.)		1
	14		A.A.P.M.E Véase American Academic Association for Peace in the Middle East.		1
	15		A.A.A.S Véase American Association for the Advancement of Science		1
	16		A.A.S. Committee on Science, Engineering, and Public Policy Véase AAAS Committee on Science, Engineering, and Public Policy		1
	17		A.A.S. Committee on Scientific Freedom and Responsibility Véase AAAS Committee on Scientific Freedom and Responsibility		1
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Figure 46:

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	7		D.A.E. Occasional Papers Véase Occasional papers (University of Cambridge. Dept. of Applied Economics)	1
	8		D A I S Y Age : De La Soul (Musical group) p1989	1
	9		D.A. Levy & The Mimeograph Revolution / edited By Larry Smith & Ingrid Swanberg. c2007	1
	10		DANCE	2
	11		D A N C I N : Mills, Stephanie, 1980	1
	12		D.A.N.G.E.R. Spells The Hangman : Lobdell, Scott. c2009	1
	13		D.A. Pam Véase DA pam	1
	14		D.A.: Prosecutors In Their Own Words / Mark Baker.: Baker, Mark, c1999	1
	15		D A R L I N G : Beach House (Musical group) p2008	1
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D.A.T.A. Book Electronics Information Series.

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Figure 48:

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Figure 49:

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Figure 50:

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3	DVDs y VHS [título]03/10		15
4	CDs de música [intérprete]03/10		41
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Access Points

In C-M, the access points that can be searched by are: author (Figure 51); title

(Figure 52); publisher (Figure 53); ISBN (Figure 54); ISSN (Figure 55); notes (Figure 56);

subject headings (Figure 57); keyword in title (Figure 58); and series (Figure 59).



javascript:ABLFrame.Search('author:"Neruda, Pablo, 1904-1973."', 'user', '', 'resultlist');

Figure 52:



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Figure 53:

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Figure 55:

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Figure 56:



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Figure 58:



javascript:ABLFrame.Search('author:"Allende, Isabel."', 'user', '', 'resultlist');

Figure 59:



javascript:ABLFrame.Refine.AddFromSidebar(1143008, 'Ave fenix. Serie mayor');

Despite having these access points, there are discrepancies in when the most important access points, i.e. subject(s), author(s), title, series, and call number, are hyperlinked. For example, in the full bibliographic view for "El cartero de Neruda"¹ (Figure 60) the author is not linked while everything else is. However, for the short bibliographic view (Figure 61), everything but the call number is hyperlinked. The reason for the difference in displays is unclear.

Figure 60:



¹ "Neruda's mailman".

Figure 61:



Likewise, SF's search system provides the following access points by which the user can search: author (Figure 62); title (Figure 63); publisher (Figure 64); ISBN (Figure 65); ISSN (Figure 66); notes (Figure 67); subject headings (Figure 68); keyword in title (Figure 69); and series (Figure 70).

Figure 62:		
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	1915.	
	20 poemas de amor y una canción desesperada / Pablo Neruda.	1992
1	Neruda, Pablo, 1904-1973.	
1A	Mexico, D.F.: Editores Mexicanos Unidos, 1992.	
	103 p. : III. ; 19 cm.	Book
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2 20 p	poemas de amor y una canción desesperada Véase neruda pablo 1904 1973 Veinte poemas de amo	or y una canción desesperada
6	20 poemas de amor y una capción desegnerada / Pablo Neruda : prólogo de Luciana Dr	VETERS
	Neruda Pablo 1904-1973	1980
3	Mexico : Editores Mexicanos Unidos, 1980.	
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4	Neruda, Pablo, 1904-1973.	
т	Santa Tecla, El Salvador : Clásicos Roxsil, [197-?]	
an 1997	69 p. : ill. ; 17 cm.	
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La isla de los amores infinitos / Daína Chaviano.	2006
1 Chaviano, Daína, 1957-	2000
Barcelona : Grijalbo ; New York : Distibuted by Random House, 2006.	
381 p. ; 24 cm.	Book
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	2 csta disponibler
Highly relevant titles entries 2-3	
The island of eternal love / Daína Chaviano ; translated from the Spanish by Andrea G. Labinger.	2008
2 Chaviano, Daina, 1957-	
New York : Riverhead Books, 2008.	
x_i , s to p general. tables, 24 cm.	Book
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Zhongguo zi mi = La Isla de los amores infinitos / Daiyina Chaweiyanuo zhu ; Jiang Huizhen yi ; Fan	2008
3 Chaviano, Daina, 1957-	
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	Spain Social life and customs 16th century Fiction.							
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	Ad	dventure fictior	n.					
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Existencia	Microfilm: Vol. 63 (1973)	
	Microfilm: Vol. 81 (1991) Paper: Vol. 61, no. 1 (Jan. 1971)-	
	Pre-1993 magazines may require delayed paging. Call department for details: (415) 557-4400.	
Latest Received:	enero 2010 v.100 no.1	_
Descripcion	v. : ill. ; 25 cm.	=
Frecuencia	Monthly	
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	Some issues include supplements. Available on microfilm from University Microfilms International	
Materia	Public health Periodicals.	
	Public health United States Periodicals.	
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Cont En Parte	American journal of public health and the nation's health	
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Descripcion	32 p. : col. ill. ; 22 cm.	
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	Read-itl readers. Nivel verde	
	Read-itl readers. Green level.	
Resumen	Clever cat is proud of his green eyes and lovely tail, and the other barnyard animals learn to app	reciate his gifts as well.
	"Gato Chivo es presumido. Todos los animales piensan que es un gatitio bobo. Pero cuando ur	zorro llega al estable, es diferente. ¿Podrá salvar a sus
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Materia	Self-esteem Fiction.	
	Autoestima Ficción juvenil.	
	Cats Fiction.	
	Gatos Ficción juvenil.	
	Domestic animals Fiction.	
	Animales domesticos - Ficcion juvenil.	
Autor Sec	Axworthy, Ann, ill.	
	Robledo, Sol.	
ISBN	9781404826625 (hardcover)	
	1404826629 (hardcover)	
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	Los Amores De Neruda / Inés María Cardone.	-0000	E
1	Cardone, Inés María.	c2003	
-0	Santiago Centro [Chile] : Plaza & Janés, c2003.		
	223 p., [12] p. of plates : ill. ; 24 cm.	Dark.	
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	Confieso Que He Vivido / Pablo Neruda.	100.1	
2	Neruda, Pablo, 1904-1973.	1994	
-	Barcelona : Plaza & Janés Editores, 1994 (various printings)		
	485 p. ; 19 cm.	Back	
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	not yet rated ¿Evaluaciones?	¿Está disponible	?
	Confieso Que He Vivido : Memorias / por Pablo Neruda.	1071	
3	Neruda, Pablo, 1904-1973.	1974	
-0	Barcelona : Seix Barral, 1974 (various printings)		
	509 p. : port. ; 20 cm.		
	SPANISH B N3585a2 1974	BOOK	_
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	Mi Vida Junto A Pablo Neruda : [Memorias] / Matilde Urrutia.		
4	Urrutia, Matilde, 1912-1985.	c1995	
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Una isla sin mar / César Silva Márquez.	
1 Silva Márquez, César, 1974-	
Barcelona : Mondadori, 2009.	
164 p. ; 23 cm.	
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Titulo El río / Ana María Matute.		Otros Recursos
Publicac Barcelona : Plaza & Janés, 1994.	L.	
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Edicion 1a ed.		
Descripcion 190 p. ; 18 cm.		
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ISBN 8401426022 (pbk.) : \$9.50		
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Despite having these access points, there are discrepancies of when the most

important access points, i.e. subject(s), author(s), title, series, and call number, are

hyperlinked. For example, in the full bibliographic view for "El cartero de Neruda"¹ (Figure

¹ "Neruda's mailman".
71) the call number is not linked while everything else is; in the short bibliographic view

(Figure 72), again the call number is not linked.



Done



Done

Bibliographic Displays

In terms of the ways in which the record can be displayed- in the C-M catalog, the

user has two options: short (Figure 73) and long (Figure 74).



Figure 74: Charlotte Mecklenburg Library - AquaBrowser Library ® - Mozilla Firefox _ 0 <u>_ x</u> <u>File Edit View History Bookmarks Tools H</u>elp 🔇 💽 🗸 🕜 🔝 http://catalog.plcmc.org/?uilang=es 😭 🔹 🚰 🔹 san francisco public library م 📄 SILS 🛄 UNC Home 回 UNC Libraries 🗋 help.unc.edu 搹 Webmail 🗋 MyUNC Charlotte Mecklenburg Library - Aqu... 🕂 PLCMC.org Pay Fines Locations Research/Homework Questions/Contact Us Technical Feedback 📌 Recipient of Library Journal Five Star Award! ublic Librarv 回 Catalog In English (1) My Account Classic Catalog of Charlotte & Mecklenburg County Login Clásico My Discoverie Texto-Sólo Ayuda Imprimir Hide 🧹 Búsqueda Sugerencias Autor « Vuelva a la lista de resultados < Anterior Siguiente > La isla bajo el mar / Isabel Allende. amore Libro Nueva York : Random House, 2009. Editor: Signatura: F bajo aisle Materia: Women slaves Fiction., Racially mixed women Fiction., Haiti -- History -- To 1791 Fiction., Haiti -- History -- Revolution, 1791-1804 Fiction., Louisiana -- History -- To 1803 Fiction., Louisiana -- History -- 1803-1865 Fiction. tesoro ISBN 0307476049 tesla Description 510 p. : maps ; 25 cm. Edition 1. ed. Vintage Español. Url for this http://catalog.plcmc.org/?hreciid=%7clibrary%2fm%2fplcmcdata%7c1186273 record: ila isle MARC Display yisra » Save or tag.. ucla Material Solicitado Available 3 Copies aragüés › Más información en Requests 0 LibraryThing island (owned by 32 members) Disponibilidad **** negra Location Collection Call# Status Due Belmont Center Library Spanish Collection Checked In F 🚺 SHARE 🛛 📲 😭 💐 ...) Carmel Library Spanish Collection F Checked out 03/01/2010 infinitos North County Library Spanish Collection Checked In F Variación del deletreo North County Library Spanish Collection F Checked In Tesauro Traducción Senda de descubi North County Library Spanish Collection Checked out 02/16/2010 F × Find: isla 🖊 Next 🕇 Previous 🖌 Highlight all 🔲 Match case

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Figure 75 illustrates the way that the interface also helps the user navigate the OPAC in that it limits each page to 10 items.



In the SF catalog, the search results are limited to 15 per page and the system informs the user of how many results it retrieved (Figure 76). Users are able to sort by relevance, title, and date, if they are able to understand English. In addition, the user can see if an item is available without having it click on the record, provided, of course, if they know English. Furthermore, the results are not ordered numerically and when one clicks on a record and then goes back to the search screen, it is difficult to know which record was clicked on since there are no changes in color to tell the difference between a clicked or an un-clicked record.



Output/services/facilities/external links

As one can see in Figure 77, the C-M catalog user can sort by relevancia, año, título, autor², and material, which is located under the search box. In order to sort by year, one has to go to the "fecha de publicación"³ tab on the right hand side. There is no possibility to order the records by popularity or classification. Furthermore, one can see that there is no possibility to select the records, and they are not numbered to facilitate in letting the user which one they had clicked on and which ones they have not.

Figure 77:



² "Relevance", "year", "title", and "author", respectively.

³ "Date of publication".

Records can be saved (Figure 78), however, the user must: (1) know enough English to understand the function of the term "save" and (2) be logged in to C-M's library system to save the record (Figure 79).



Figure 79:



Results can also be printed out in the upper right hand corner ("Imprimir"⁴), if the

user wishes to do so (Figure 80).



⁴ "Print".

In SF's system, one can sort by title, date, or relevance, if the user knows English (Figure 81). Furthermore, there is no way for the user to select certain records that they may want to save. However, this feature may only be accessible once the user is logged in. Nonetheless, one can click the button that says "Add to cart" and keep it noted, but there is no apparent button to let one see the items they have selected. SF library also includes RefWorks®, a database that allows users to export and save citations users want.



Users can also rate the books that they have read and add tags (Figure 82)-

however, one needs to be logged in to do so (Figure 83).



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Figure 83:

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User Assistance

When error messages occur, contrasting features, e.g. bold typing against plain, is used (Figure 84) as well as suggesting additional help in the message. In bold, the message says that "There are no results." Below that, the message in plain font gives more information by saying that "Your search did not obtain any results. You can try one of the following options:

- Select one of the suggestions in the visual thesaurus to the left
- Redo your search, utilizing additional and different terms or widen your terms."



However, in Figure 85, the same thing more or less occurs when "ipablo" is entered except that it contains a suggestion before "No hay resultados": "Quiere usted decir, buscar por : *Pablo*?"¹ Using one of Google's features, the C-M library uses a spelling suggestion generator to help the user find what they are looking for in addition to highlighting the suggestion from the rest of the other information.



¹ "There are no results"; "Did you mean to say, search for: Pablo?"

In regards to online tutorials, there was not one in the Spanish version of the C-M

catalog (Figure 86), in contrast the English version of the catalog for which there was one

(Figure 87).



Charlotte Mecklenburg Library - AquaBrowser Library	® - Mozilla Firefox				- 0 X
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While there was no online tutorial detailing the procedure of how to search for items in the SF catalog, there is in Figures 21-25 advice in Spanish on how to do a search, both simple and advanced. Help messages are provided as well as a spell checker (Figure 88) using contrasting colors. This is only useful to the patron if they know English, despite first clicking on the link to translate the catalog into Spanish.



Done

Page layout

One of the faults of the C-M catalog is that it does not provide the options of navigating the results page both at the top and at the bottom of the page. These options are only available towards the bottom of the page (Figure 89); the top is free of these options (Figure 90). The SF OPAC, however, does not provide any options for navigating the results once the user is looking at records (Figure 91).





Figure 90:





Done

The labels for each access point in the SF catalog (author, title, publication, subject, ISBN²) are clearly defined and they are not crowded together. However, for the subjects showing on this bibliographic record, "materia" is used for "subjects" instead of "sujetos" (Figure 92). While both Spanish words mean more or less the same, the author went to the Diccionario de la Real Academia Española's³ website to see if the words could be further refined. Under "sujetos", the author found that the definition explicitly states the word to include "themes or matter that are talked or written about" versus "the topics that compose a literary, scientific, etc. work" of "materia". The latter seem more formal and may work in a more formal setting, i.e. university, where as a public library is more informal and the former word seems more appropriate for a casual setting.

² "Autor", "título", "publicación", "materia", respectively.

³ Dictionary of the Royal Spanish Academy.

Figure 92:

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C-M's page layout for records also shows the labels for each access point (author, title, publication, subject, ISBN), and they are clearly defined and not crowded together (Figure 93). There are more features, and the layout is busier than SF's; whether this is a bad thing or not depends on the user. There is, however, a provision for text-only in the upper right-hand corner near the search box where it says "texto-sólo". However, one must have some inkling of English to navigate it (Figure 94) as the page does not provide versions of it in other languages.

Figure 93:

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Figure 94:

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Charlotte Mecklenburg Library - AquaBrowser Library ®

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Welcome to the Mobile Catalog.

Search

- Enter your query in the text box above and press Enter (or click 'Search')
- In the central panel, you will get search results, ranked by relevance.
- Click on a result for a full view with holding information.

Discover

- The word cloud on the left shows you related terms, spelling variations and translations.
- Click on words in the word cloud to explore the contents of the catalogue.

Refine

- Refine shows you what your search results contain.
- Click on any term to focus and narrow your results.

Discussion

Although neither OPAC user interface under review is perfect, each can offer the other suggestions in improving their interface features. In order to reach the Spanish version of C-M's library catalog, the user should not have to go through so many clicks to obtain the translated page. Also, when the drop-down menu displays the languages to translate the webpage, the selection should be in the offered language, i.e. "español" instead of "Spanish", so speakers of that language will understand what is being said. Furthermore, the site was not completely translated to Spanish, leaving the user possibly uninformed of the various programs to assist the user because they do not know and/or are too intimidated by English to pursue the matter further. C-M'S website did not provide an online tutorial in Spanish on how to search the library's catalog, which could possibly dissuade users who are unfamiliar with how a library catalog operates from using the library.

SF's Spanish version of its library page was easily accessed, having only to click once to have the page translated. Most of the website was translated into Spanish, including the calendar of events, services, and links about the library. Nonetheless, certain key components, for instance, the sorting options and the description of the monthly events, remained in English. Neither library offered any links to web translation services to make up for the fact that some of the content was not offered in Spanish. In contrast to the C-M website, SF's provided extensive detail on how to search the catalog either by field or by kind of search, i.e. Boolean or truncation, for the user unfamiliar to a library. Although, SF does provide a tool for saving the user's search history and related tags, it does not offer the visual thesaurus map that C-M does, showing the user related words, association, translations, and thesaurus. In both public libraries' catalogs, one can search by all of the major access points. Also, the label preceding the access point, e.g., "publisher", was translated into Spanish and was one of the few labels to be in the user's native language.

Overall, each library has done a decent job in offering the library's webpage in Spanish, although there are limitations in each in restricting complete ease of navigation in their pages. Nonetheless, there is a good possibility that the features provided for Hispanics are an Anglo-centric view of what they need. To compare the features that C-M's and SF's catalogs have against libraries where Spanish is the dominant language would give them a sense of how well, or not, they are providing for the Hispanic population.

Barber et al. (2008) conducted a study of university, specialized, public, and national libraries of MERCOSUR countries, a South American trade agreement between Argentina, Brazil, Paraguay, and Uruguay akin to NAFTA, whose catalogs were available online. The researchers did not disclose how many libraries' OPACs they analyzed and so this makes it difficult to assess the impact of, for example, the fact that only 20% of libraries have the option to save records and/or send them by e-mail. While one is aware that this is a low rate, one does not how low. Is it one out five libraries or forty out of two hundred?

In the study, Barber et al. found that 5% provided tutorials and one-third provided written instructions on how to navigate the system. Written explanations also dominate in the two public libraries evaluated: both SF and C-M have detailed written guides of how to navigate the catalog while only the former has a tutorial for Spanish-speakers. C-M's library may not have a tutorial in Spanish because they do not have a staff member comfortable in speaking the language, have no one who speaks the language, or it did not occur to them to create a tutorial in Spanish.

While there is a high rate of MERCOSUR catalogs having author, title, and material fields by which to search, the majority were unable to be searched by publisher, ISSN, ISBN, or classification number: 12%, 11%, 8%, and 0.7%, respectively. SF's and C-M's catalogs, in contrast, provide the users with all these features, surpassing the searching quality found in MERCOSUR libraries. Furthermore, when searching, only 12% of libraries show the users' search history, something SF's and C-M's libraries provide for their users. However, two-fifths of the MERCOSUR catalogs do supply a thesaurus to give their users alternative words to search. Both SF and C-M have thesauri, albeit in different formats: for the former, it is available in tags provided by patrons; the latter, again in tags provided by the patron as well as a thesaurus map.

In general, it appears that the U.S. public libraries' catalogs are better than MERCOSURs' at times, as evident in the number of access points one can search by. While SF's and C-M's catalogs have the some of the deficiencies of MERCOSURs', i.e. no online tutorial, they are generally less than MERCORSURs'. In conclusion, it seems that all need to improve on their catalog features.

Conclusion

In a world full of studies conducted on English-based catalog interfaces and thereby indirectly concerning themselves with only how Anglo-speakers are able to find items in a library catalog, hopefully this study will alert others to the needs in non-English catalog interfaces and increase the research on the functionality and effectiveness of bi- or multi-lingual catalogs in order to serve the underserved and minority speakers in this country. The research conducted in this paper demonstrates how public libraries are accommodating non-English speaking users, in this case, Hispanics, by investigating the availability of help features in navigating the library's catalog in general and when searching for items, how much of the catalog is in the appropriate language, and choice of words used in the catalog interface. This type of research can also provide public libraries guidance on what to be aware of when constructing or correcting a Spanish catalog interface.

One of the unfortunate downsides of this study was that time did not allow for a survey or interviews of library personnel who are responsible for the OPAC and user services. Another limitation of the research performed was that it only compared two public libraries in order to obtain the most general sense of how public libraries are responding to Hispanic population growth in the United States; a more thorough investigation would include several public libraries with Spanish catalog interfaces from each region. Furthermore, libraries' catalogs constantly change, a fact that the author encountered when capturing screenshots of San Francisco's catalog, even within a couple weeks of collecting data. Therefore, although the data located in this paper could be used as guide on how to enhance one's catalog, whether in Spanish or any other language, the screenshots should not be considered as a reflection of the public libraries' current catalog interface. Lastly,

although this researcher majored in Spanish in her undergraduate university, spent a year abroad enrolled in a university in Spain, and graduated with Departmental Honors in Hispanic Studies, she is not a native Spanish speaker, something that would have been more helpful when examining word selection and grammar in San Francisco's and Charlotte-Mecklenburg's catalogs.

This research has been exploratory in nature, and it is hoped that the study will inspire further research related to multilingual catalog interfaces and electronic services to multilingual communities. Areas for future investigation include: OPAC user studies involving non-native English speakers and surveys of library personnel responsible for polyglot catalogs. This study will add to the research base on catalog design for diverse user communities.

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