Library of Congress Classification (LCC): past, present and its future in the digital era

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This article describes the various aspects of LC Classification and its suitability as a library classification system for classifying library resources in India. It begins with an introduction, recounting its history and development, leading up to an explanation of principles, structure, tables, and notation. This is followed by number building examples for subjects specific to Indian context, such as the history of Hindi literature with MARC 21 coding for LCC numbers.LCC tools and aids are listed thereafter with a description of the use of technology for efficient and consistent number building, and the process of proposing new numbers online to be added to the LCC schedules.Finally, analysing both its advantages and criticisms it concludes that LCC is a suitable classification system for libraries in India.

Keywords: Library of Congress Classification; LCC; Library Classification

Introduction

The Library of Congress Classification (LCC) is a system of library classification developed by the Library of Congress. It was developed in the late nineteenth and early twentieth centuries to organize and arrange the book collections of the Library of Congress. Over the course of the twentieth century, the system was adopted for use by other libraries as well, especially large academic libraries in the United States. It is currently one of the most widely used library classification systems in the world. The Library's Policy and Standards Division maintains and develops the system¹. In recent decades, as the Library of Congress made its records available electronically through its online catalog, more libraries have adopted LCC for both subject cataloguing as well as shelflisting.

There are several classification schemes in use worldwide. Besides LCC, the other popular ones among them are Colon Classification (CC), Dewey Decimal Classification (DDC), Universal Decimal Classification (UDC), and Bliss Bibliographic Classification (BC). Out of these, DDC and CC are the two classification systems which are most commonly used in Indian libraries. The potential of Library of Congress Classification (LCC) system is yet to be explored in libraries in India. This article describes the various aspects of LCC and its suitability as a library classification system for classifying library resources in India.

History and development

The Library of Congress was established in 1800 when the American legislatures was preparing to move from Philadelphia to the new capital city of Washington, D.C. Its earliest classification system was by size and, within each size group, by accession number. First recorded change in the arrangement of the collection appeared in the library's third catalog, issued in 1808, which showed added categories for special bibliographic forms such as legal documents and executive papers².

On the night of August 24, 1814, during the war of 1812, British soldiers set fire to the capitol, and most of the Library of Congress's collections was destroyed. Some times after, Thomas Jefferson offered to sell to Congress his personal library; subsequently in 1815, the Congress purchased Jefferson's personal library of 6,487 books. The

books arrived already classified by Jefferson's own system. The library adopted this system and used it with some modifications until the end to the nineteenth century³.

Library of Congress moved to a new building in 1857. By this time, the Library's collection had grown to one and a half million volumes and it was decided that the Jefferson's classification system was no longer adequate for the collection. A more detailed classification scheme was required for such a huge and rapidly growing collection of documents. The Dewey Decimal Classification (DDC), Cutter's Expansive Classification and the German Halle Schema were studied, but none was considered suitable. It was decided to construct a new system to be called the Library of Congress Classification (LCC). James C.M. Hanson, Head of the Catalog Division, and Charles Martel, Chief Classifier, were made responsible for developing the new scheme. Hanson and Martel concluded that the new classification should be based on Cutter's Expansive Classification⁴ as a guide for the order of classes, but with a considerably modified notation. Work on the new classification began in 1901. Class Z (Bibliography and Library Science) was chosen to be the first schedule to be developed. The next schedules, E-F (American history and geography), were developed. But E-F were the first schedules to be published, in 1901, followed by Z in 1902. Other schedules were progressively developed. Each schedule of LCC contains an entire class, a subclass, or a group of subclasses. The separate schedules were published in print volumes, as they were completed. All schedules were published by 1948, except the Class K (Law). The first Law schedule-the Law of United States, was published in 1969, and the last of the Law schedules to publish was KB-Religious law, which appeared in 2004.

From the beginning, individual schedules of LCC have been developed and maintained by subject experts. Such experts continue to be responsible for additions and changes in LCC. The separate development of individual schedules meant that, unlike other classification systems, LCC was not the product of one mastermind; indeed, LCC has been called "a coordinated series of special classes"⁵.

Until the early 1990s, LCC schedules existed mainly as a print product. The conversion of LCC to machine-readable form began in 1993 and was completed in 1996. The conversion to electronic form was done using USMARC (now called MARC21) Classification Format. This was a very important development for LCC, as it enabled LCC to be consulted online and much more efficient production of the print schedules.

In the year 2013, the Library of Congress announced a transition to online-only publication of its cataloging documentation, including the Library of Congress Classification. It was decided, the Library's Cataloging Distribution Service (CDS) will no longer editions of its subject headings, print new classification schedules, and other cataloging publications. The Library decided to provide free downloadable PDF versions of LCC schedules. For users desiring enhanced functionality, the Library's two web-based subscription services, Cataloger's Desktop and Classification Web will continue as products from CDS. Classification Web is a webbased tool for LCC and LCSH. It supports searching and browsing of the LCC schedules and provides links to the respective tables to build the class numbers for library resources. LC has also developed training materials on the principles and practices of LCC and made those available for free on its website.

LCC principles and structure

Library of Congress Classification is an enumerative system of library classification which classifies by discipline, i.e. a system that lists numbers for single, compound, as well as complex subjects.

Main classes of LCC represent major disciplines which are divided into subclasses which are further divided into divisions. Such a categorization creates a hierarchical display for LCC, progressing from the general to the specific. Levels of hierarchy in the schedules are indicated by indentions.

The schedules of LCC were developed independently by different group of subject specialists based on the "literary warrant" of the materials already in, and being added to, the Library of Congress. Therefore, each schedule stands on its own with some differences from discipline to discipline; because of their intrinsic peculiarities.

Main Classes

LCC divides the entire field of knowledge into 21 main classes, each identified by a single capital letter

Africa.

of the alphabet⁶. The letters I, O, W, X, Y have not been assigned subject areas, but could be used for fu

	assigned subject areas, but could be used f
А	General Works
В	Philosophy. Psychology. Religion
С	Auxiliary Sciences of History
D	World History and History of Europe, Asia, Africa Australia, New Zealand, etc.
Е	History of the Americas
F	History of the Americas
G	Geography. Anthropology. Recreation
Н	Social Sciences
J	Political Science
Κ	Law
L	Education
М	Music and Books on Music
Ν	Fine Arts
Р	Language and Literature
Q	Science
R	Medicine
S	Agriculture
Т	Technology
U	Military Science
V	Naval Science
Z	Bibliography. Library Science. Information Resource (General)

Subclasses

Each of the main classes, with the exception of E and F, is further divided into subclasses, which represent disciplines or major branches of the main class. Most subclasses are denoted by two letter, or occasionally three-letter combinations. For example, following are some subclasses of class P.

Class P	Language and Literature
Subclass P	Philology. Linguistics
Subclass PA	Greek Language and Literature. Latin Language and Literature
Subclass PB	Modern Languages. Celtic Languages
Subclass PC	Romanic Languages
Subclass PE	English Language
Subclass PK	Indo-Iranian Philology and Literatures

Divisions

Each subclass is further subdivided into divisions that represent components of the subclass to specify form, place, time & subtopics. These are denoted by integers 1-9999, some with decimal extension. Some subtopics may also be denoted by a Cutter number (e.g., .S35).

For example, following are some divisions of subclass PK.

Subclass PK		
PK1-(9601)	Indo-Iranian philology and literature	
PK1-85	General	
PK101-2899	Indo-Aryan languages	
PK101-185	General	
PK(201)-379	Vedic	
PK401-976	Sanskrit	
PK1001-1095	Pali	
PK1201-1409.5	Prakrit	
PK1421-1429.5	Apabhramsa	
PK1471-1490	Middle Indo-Aryan dialects	
PK1501-2899	Modern Indo-Aryan languages	
PK1550-2899	Particular languages and dialects	
PK1550-1569	Assamese	
PK1651-(1799)	Bengali	
PK1801-1831.95	Bihari	
PK1841-1870.95	Gujarati	
PK1931-2212	Hindi, Urdu, Hindustani languages and literatures	
PK1931-1970	Hindi language	
PK1971-1979.5	Urdu language	
PK1981-2000	Hindustani language	
PK2030-2142	Hindi, Hindustani literatures	
PK2151-2212	Urdu literature	

Schedule format

There are 41 printed volumes of individual classification schedules for the main classes and subclasses of LCC. Each print schedule consists of preface, a contents page, broad outline of the schedule, followed by the main body of the schedule, tables, and index.

Preface

The preface gives the history of the schedule and the changes from previous editions.

Contents Page

The contents page lists the outline, subclasses, tables and index for the schedule.

Outline

The outline consists of detailed summary of the topics as well as subtopics. First there is a broad outline with subclasses, which serves as the table of contents in the print schedules. It is followed by detailed outline with 2 or 3 levels of hierarchy.

The Body of the Schedule

Different group of subject specialists were responsible for the development of individual classes, therefore a given class may display unique features. The use of tables and the degree and method of notational synthesis often vary from schedule to schedule. However, certain features are shared by all schedules: the overall organization, the notation, the method and arrangement of form and geographic divisions, and many tables. The organization of divisions within a class, subclass, or subject originally followed a general pattern, often called Martel's seven points. Briefly these are. (1) general form divisions: periodicals, societies, collections, dictionaries or encyclopaedias, conference, exhibition or museum publications, directories, yearbooks, etc.; (2) theory, philosophy; (3) history, biography; (4) treatises or general works; (5) law, regulation, state relations; (6) study and teaching, research; and (7) special subjects and subdivisions of subjects. Subsequent additions and changes have clouded this pattern to some extent, but it is generally still discernible. Since the development of K (Law) schedules, legal topics relating to specific subjects have been moved to class K (Chan 2007). This pattern of arrangement is a progression from the general to the specific.

Indentation of captions is used throughout the schedules, and is important in showing the hierarchical relationships to topics and subtopics. Notes may accompany LC class numbers and headings. They can indicate the scope of that number, or may refer the classifier to another number or section of the schedule⁷.

Tables

Tables are used extensively in LCC to allow to assign a move specific number and to allow for sub arrangement of similar topics without the need to print the same instruction repeatedly, thereby saving space. Tables in LCC can be categorized under three types: Internal tables, External tables, and Tables of general application.

Internal tables appear within the text of the schedule that applies to a specific subject or span of umbers. External tables appear at the end of the schedule, before the index, that applies to various subjects in a class or subclass. Tables of general application appear in Classification and Shelflisting Manual⁸ which are applicable throughout the schedules. Tables of general application include the biography table, the translation table, and the geographic tables based on Cutter numbers.

Biography Table

	815
.X	Cutter number for the biographee
.xA2	Collected works. By date
.xA25	Selected works. Selections. By date. Including quotations
.xA3	Autobiography, diaries, etc. By date
.xA4	Letters. By date
.xA5	Speeches, essays, and lectures. By date. Including interviews
.xA6-Z	Individual biography and criticism. By main entry. Including criticism of selected works, autobiography, quotations, letters, speeches, and interviews, etc.

Index

There is a detailed index accompanying each schedule in the back of the print version. Index entries refer to a specific LCC number in that schedule. It is important to note that there is no index to the LCC schedules for the print version. A combined index for the entire scheme exists only in the online version accessible and browsable through the Classification Web⁹.

Notation

The notation of a classification scheme is the series of symbols that stand for the classes, subclasses, divisions, and subdivisions of classes.

Symbols

LCC uses a mixed alphanumeric notation of the Roman capital letters, Arabic numerals, and a dot (.) to construct call numbers. A single letter denotes a main class and most subclasses are designated by double letters. Triple-letter combinations have been used only for some subclasses in D and K schedules. Divisions within subclasses are denoted by Arabic numbers; they are used integrally, from 1 to 9999 if necessary, with gaps left liberally to accommodate new topics as they arise¹⁰. A decimal extension is used when it is necessary to insert a topic between two consecutive whole numbers. Further subdivision is indicated by adding Cutter numbers (a combination of a capital letter and one or more numerals). This completes the class number part of the call number. The call number is completed by adding an item number or book number to the class number which is based on the main entry (primary access point, the author or title) in the form of an alphanumeric Cutter number, plus, in most cases the year of publication.

Expressiveness

Expressiveness has to do with the capacity of the notational system to "express" the hierarchical and coordinate relationships of the subjects which the notation represents. The LCC notation has limited expressiveness in comparison to other universal book classification schemes and, especially in comparison to the DDC¹¹. LCC notation is not hierarchical beyond the class-subclass level, i.e. LCC notation does not reflect all the general-specific relationships that are inherent in the classification scheme.

Hospitality

Hospitality has to do with a notation's capacity to accommodate new concepts or subjects as necessary in the schedules. It should allow for the insertion of both subordinate and coordinate subjects¹². In this sense, the hospitality of the LCC notation is enormous, provisions for new subject matter can be easily added to the system.

At the level of main class letters I, O, X, and Y have not been assigned to any subjects and are available for later use. At the level of subclass, gaps have been left between two-letter combinations, which can be used for future expansion. Also, there is an option of interpolating three-letter combinations to denote new subclasses. Subclasses can be further expanded by the use of decimal extension and Cutter numbers.

Mnemonics

These are memory-aiding devices used in the notation of classification schemes that enable an

enquirer to associate a certain symbol arrangement with a certain subject concept. They may occur by the use initial letters to indicate certain classes.

LCC notation lacks mnemonic aids. Some use of mnemonics can be seen in Class A, where the second letter of the subclass is taken from the name of the subject covered. For example, AC for Collections, AE for Encyclopaedias, AN for Newspapers, AS for Societies, etc.

Brevity

Brevity refers to the length of the notation to express the same concept. Notation should be as brief as possible. LCC notation result in relatively brief class numbers when compared to other classification schemes like DDC. It allows more combinations and greater specificity without long notations.

Building a Call Number

Following are some examples of building LCC call numbers:

1. A history 1993.	of Hindi literature by K.B. Jindal, published in	
PK2031 .J5	6 1993	
Class Numb	er	
РК	Indo-Iranian philology and literature	
2031	Hindi literature – History – General works	
Item Numbe	er	
.J56	Cutter for the author in the main entry (Jindal, K. B.)	
1993	Year of publication	
 Statistics for management, by Richard I. Levin and David S. Rubin, published in 1998. 		
HA29 .L48	1998	
Class Numb	er	
HA	Statistics	
29	Theory and method of social science statistics – General works – English	
Item Number		
.L48	Cutter for the author in the main entry (Levin, Richard I.)	
1998	Year of publication	
3. An autobiography: the story of my experiments with truth,		

by Mahatma Gandhi, 2004. Autobiography of Mahatma Gandhi translated into English.

DS481.G3 A313 2004

Class Number

DS	History of Asia
481	India (Bharat) – History – By period – Biography and memoirs
.G3	Gandhi, Mahatma, 1869-1948

Item Number

A313 A3 for autobiography and 13 for English translation

2004 Year of publication

4. Fostering e-governance: compendium of selected Indian initiatives, edited by Piyush Gupta, R.K. Bagga, and SrideviAyaluri, published in 2009.

JQ229.A8 F67 2009

Class number

- JQ Political institutions and public administration (Asia, Africa, Australia, Pacific Area, etc.)
- 229 Special topics
- .A8 Automatic data processing. Electronic data processing. Including use of the Internet for delivery of government services

Item number

F67	Cutter for title (Fostering)
2009	Year of publication

5. Walking with the Buddha: Buddhist pilgrimages in India, edited by Swati Mitra, published in 1999.

BQ6450.I4 W35 1999

Class Number

BQ	Buddhism
6450	Pilgrims and pilgrimages
.I4	India
Item number	
W35	Cutter for the title (Walking)
1999	Year of publication

MARC 21 coding for LC call numbers

In MARC 21 Format for Bibliographic Data (Library of Congress. 2014d), the LC call number appears in 050 field.

050	00	\$a PK2031	\$b .J56 1993
050	14	\$a JQ229.A8	\$b F67 2009

Indicators

First indicator	—	Existence in LC collection
# (blank)	—	No information provided (used when a call number assigned by and organization other than LC)

0	—	Item is in LC
1	—	Item is not in LC
Second indicator	_	Source of call number
0	—	Assigned by LC
4	—	Assigned by agency other than LC

Subfield codes

\$a - Classification number

\$b – Item number

Subfield \$a may be repeated to record an alternative class number.

Other subfields are defined in the MARC 21 format, viz., \$3, \$6, and \$8, but are not commonly used in general cataloguing.

Additionally, 090 field can be used in MARC coding in OCLC for locally assigned LC-type call number where both indicators are blank.`

Tools and aids for LC Classification

LCC is available in print and electronic format. There are some other tools and aids which describe and help in the application of LCC in practice.

LCC print schedules

Print edition is available in 41 separate volumes which can be purchased individually or as a set from the Cataloging Distribution Service of Library of Congress. Revision and expansion of LCC take place continuously. New revised edition of a particular schedule is published when there are sufficient changes.

SuperLCCS

Thompson Gale issues annually a print version of LCC schedules known as SuperLCCS, which combine each classification schedule with all the additions, changes, and deletions through the previous year. SuperLCCS is also available on microfiche¹³.

Classification Web

The electronic version of LCC is available online as Classification Web (http://classificationweb.net/). Fig. 1 shows the main menu and Fig. 2 shows the display of LCC numbers of Classification Web. It includes a full-text display of the entire LCC, LCSH, plus correlations between LCC and LCSH. Classification Web is most up-to-date version. It is updated daily and heavily used.

ANN. LIB. INF. STU., SEPTEMBER 2017

Classification Web	Library of Congress
Ma	ain Menu
Browse LC C	lassification Schedules
Search	LC Classification
Browse L	C Subject Headings
Search Lo	C Subject Headings
Search (Senre/Form Terms
Search Child	ren's Subject Headings
🛶 Search Med	ium of Performance Terms
Browsel	C Name Headings
Search L	C Name Headings
Bibliograph	ic Correlations (menu)
	e - <u>Outline</u> - <u>Subsets</u> - <u>Bookmarks</u> - <u>Help</u> .egal Notices - <u>Contacts</u> - <u>User Group</u> - <u>Home</u>
Standard Classification Browser - Enhanced	Classification Browser - Hierarchy Classification Browser

Fig. 1-Main menu of Classification Web

	Browse	Search	Tables	Refresh	Logout	Close	Menu	Help	<< > >>
LC Class # DS480	(Enhar	nced Brows	er)						

History of Asia-India (Bharat)-History-By period-English rule. 1761-1947-1862-1914-Marquis Curzon of Kedleston, 1899-1905

DS480	Marquis Curzon of Kedleston, 1899-1905 🗆
D\$480.2	Earl of Minto, 1905-1910 👄
DS480.3	Lord Hardinge, 1910-1916 🔤
DS480.4	1914-1919 🗔
	1919-1947 📟
DS480.45	General works 👄
DS480.5	Viscount Chelmsford, 1916-1921 —
	Including Amritsar Massacre, 1919; etc.
DS480.6	Marquis of Reading, 1921-1926 🔛
DS480.7	Earl of Halifax, 1926-1931 🔤
DS480.8	Marquis of Willingdon, 1931-1936 😑
DS480.82	Marquis of Linlithgow, 1936-1943 🔲
	Including Quit India Movement, 1942; etc.
DS480.83	Earl of Wavell, 1943-1947 🔤
	1947-1977 📖
	For India-Pakistan Conflict (September 1965) see <u>DS386-387</u> —
DS480.832	Periodicals. Societies. Serials 🦳
DS480.84	General works 👄
DS480.842	Partition, 1947 —
DS480.85	Chinese border dispute, 1957 🔲
DS480.852	National Emergency, 1975-1977
DS480.853	1977- 🗔
	Biography and memoirs 💷
DS481.A1	Collective 🖂
DS481.A2-Z	Individual, A-Z 👄

Fig. 2-Example of Classification Web display

Classification and Shelflisting Manual (CSM)

The purpose of this publication is to provide guidelines for establishing Library of Congress classification numbers and assigning them to library materials, as well as for shelflisting materials collected by the Library of Congress. It is an accumulation of guidelines that have been formulated over several decades dealing with commonly recurring questions that arise when using the LC classification.Fig. 3 shows the display of Classification and Shelflisting Manual in Cataloger's Desktop, an online product available for subscription from the Library of Congress.

LCC Outline

An outline of the LCC is available online on LC website at www.loc.gov/catdir/cpso/lcco/ containing files in PDF and WordPerfect format for all the main classes of LCC with caption of the subclasses and some more information.

Cataloging Calculator

This is an online tool, available at http://calculate.alptown.com/ can be used for deriving Cutter Numbers

Library of Congress (LCC) approved lists

Additions and changes to LCC which are proposed by catalogers and approved by the editorial committee of LCC are communicated to the library professionals through LCC Weekly Lists¹⁴ (Fig. 4). Weekly lists are also available now as RSS feeds.

Library of Congress Subject Headings (LCSH)

LCSH¹⁵ is available in print and online through Classification Web and Library of Congress Website. Many LCSH entries refer in bracket to one or more class numbers, often including terms for captions used in the schedules, though such class number are not always kept up-to-date.

Classification Web has a very useful feature, viz. LCSH to LCC correlations. While subject cataloging usually subject headings are provided first using LCSH, where first entry is based on the predominant topic. Then this LCSH to LCC correlation feature is used to ascertain the appropriate LC class number.

Name Authority Records

Literary Author Number (LAN) is assigned to literary authors which is recorded in the MARC field 053 of the name authority record (NAR). Following is an example (Fig. 5) of a Library of Congress Name Authority Record created using Exlibris Voyager



Class works limited to a specific geographic area in [...]

Fig. 3-Classification and Shelflisting Manual in Cataloger's Desktop

	Islam. Bahai Faith. Theosophy, etc.
	Islam
	The practice of Islam
	Islamic religious life (Descriptive works)
	Sufism. Mysticism. Dervishes. صوبة
	Monasticism. Sufi orders. Brotherhoods
	Individual orders, A-Z
BP189.7.M27M272	Majdhūbīyah. مجذوبية TABLE BP3
	Topics (not otherwise provided for), A-Z
BP190.5.O34	Obedience
	History of Asia
	Jordan. Transjordan
	Ethnography
	Individual elements in the population, A-Z
D\$153.55.C47	Christians
	Regions, towns, etc., A-Z
DS154.9.A38	'Ajitin Province
	Southeast Asia
	Burma. Myanmar
	Ethnography
	Individual elements in the population, A-Z
DS528.2.R39	Rawang

LIBRARY OF CONGRESS CLASSIFICATION MONTHLY LIST 03 (March 17, 2014)

Fig. 4—Library of Congress Approved List

>	010		‡a n 2012217300
	035		‡a (OCoLC)oca09476535
	040		‡a DLC ‡b eng ‡c DLC ‡e rda ‡d InU ‡d DLC
	046		‡f 19880101
	053	C	‡a PK2099.19.U2468 <
	100	1	‡a Dube, Śrīkānta, ‡d 1988-
	370		‡a Pachdevri (India)
	370		‡e Gorakhpur (India) ‡f New Delhi (India) ‡2 naf
	372		‡a Hindi literature ‡2 losh
	373		‡a Banaras Hindu University ‡a Jamia Millia Islamia (India) ‡2 naf
	374		‡a Authors, Hindi ‡2 losh
	375		‡a male
	377		‡a hin
	400	0	‡a Śrikānta Dube, ‡d 1988-
	400	1	‡a Dubey, Shrikant, ‡d 1988-
	400	0	‡a Shrikant Dubey, ‡d 1988-
	670		‡a Pūrvaja, 2012: ‡b title page (Śrikānta Dube) title page verso (Shrikant Dubey) jacket (graduated Kashi Hindu University; studied mass media and creative writing at Jamia Milia Islamia, Delhi; studied Spanish; freelance writer, translator; born on 1 January, 1988; lives in Gorakhpur)

Fig. 5-Literary Author Number in LC Name Authority Record

software showing a recently assigned LAN to a Hindi literary author.

Proposing a new class number in LCC

In 2006, an automated Minaret-based classification proposal system replaced the former manual worksheet-based system (Fig. 6). It can be accessed online at the URL: http://classificationweb.net/Menu/proposal.html

This automated system is used to propose a new classification number, to propose a new reference, or to modify an existing number. Following is an example (Fig. 7) of a recently made classification

proposal for an Indian caste "Telis", which was later approved and included in the LCC schedules.

Evaluation of the Library of Congress Classification

LCC like any other classification system has both strengths as well as weak points. Many of the criticisms labelled against LCC are no longer valid now or becoming less true with the automation of the schedules and the introduction of Classification Web.

Advantages of LCC

1. LCC is highly enumerative by listing all subjects of the past, the present, and the anticipatable

Classification Web		Library of Congress
	Classification Proposal Menu	
	Create, Edit and Browse Classification Proposals	
	Approved Lists Log Out - Preferences - Usage - Main Menu - Help	
	Available from the <u>Cataloging Distribution Service</u> , Library of Congress	



Proposed Schedules	LC Classification Proposal System				
			Modify a proposal for a new clas	sification number	
Proposal generated by Existing class # Proposed class #			Rare Book ○ Coop # ○ Displayed span ○ Suppressed span		
Hierarchy	History of Asia India (Bharat) Ethnograph Indiv		mments in the population, A-Z	~	
Caption	Telis				
TABLE					
Note ("Class here," "Including," etc.)	The following class num place where each tracing	or referen	h can be spans) correspond to the ce should appear in the schedules. this form, is the number to which	\sim	
○ See ref. (class #)		Caption			
○ For see (class #)		Topic			
○ Cf. note (class #)		Topic			
Cataloger's comments Pattern (if none, leave blank) Better (if none, leave blank)	If you would like to be n	otified who	n your proposal is scheduled for a		
			decision by the classification il address on the next line.		
Email address		- ,			

Fig. 7—LCC Classification Proposal Example

future. Because of this LCC class numbers required very less notational synthesis and therefore the scheme is very easy to use. This feature is very useful for classifying holdings of large libraries having comprehensive collection on all subjects, as it facilitates unique class numbers for a wide range of subjects.

2. LCC schedules are developed, revised, and maintained by subject experts rather than by generalists.

- 3. LCC is the most continuously revised classification scheme. The Classification Web database is updated daily incorporating new additions and changes proposed by catalogers and approved by the editorial committee of LCC.
- 4. LCC provides cooperative opportunity to introduce new numbers. New class numbers are proposed by catalogers at LC, its five overseas offices¹⁶, and SACO¹⁷, member libraries, covering all the regions and languages of the world.
- 5. Classification Web, the World Wide Web interface of LCC has made number building in LCC very easy by its various advanced search features.
- 6. LCC notation result in relatively brief class numbers when compared to other classification schemes, like DDC.
- 7. LCC notation is enormously hospitable and expandable. New classes, subclasses, divisions, and topics can be conveniently added without requiring wholesale revision.
- 8. LCC allows each work to be uniquely classified with the help of techniques like the use of Cutter numbers, expansion of decimal numbers and adding of date of publication.
- 9. Classification and Shelflisting Manual (CSM) provides comprehensive theory and guidelines on how to use LCC.
- LCC numbers are available widely for copy cataloguing purposes from Library of Congress online catalog¹⁸ and many records in OCLC's WorldCat (Online Computer Library Center 2014).
- 11. Application of LCC numbers is found to be very consistent. A study on the consistency of LCC and their implications for union catalogs concluded that under the condition that a library system has a title, the probability of that title having the same LCC-based class number across library systems is greater than 85 percent¹⁹.
- 12. LCC has the support of the resources of Library of Congress which ensures its dependability and future for wider use.

Criticisms of LCC (and Criticism of Criticisms)

- 1. LCC schedules lack consistency. (Different schedules are developed and maintained by respective subject experts so they do lack consistency but this can also be seen as an advantage as it allowed each schedule to be developed according to its own unique structure).
- 2. LCC has no overall index. (True for print format of schedules only, online version includes a unified index).
- 3. Scope notes of LCC are less descriptive. (Less required due to vast enumeration of subjects).
- 4. LCC is based on literary warrant from the collections of Library of Congress and reflect national bias. (Becoming less true day by day: see point 4 under "Advantages of LCC").
- 5. There is little documentation and guidelines for the subject analysis. (No longer valid with the publication of a unified Classification and Shelflisting Manual in Cataloger's Desktop).
- 6. LCC is too large for a classifier to fully master and there is a time lag between the revised edition of the schedules (Classification Web overcomes these two criticisms as it is updated daily and its advanced search feature enable ease of use).
- 7. Multi-topical compound subjects are difficult to classify. (All the classification schemes face this problem. For a book which is classified for shelving purposes, a single unique call number has to be provided base on the predominant topic of the book, but in case of electronic documents many call numbers can be given for every significant subject contained in the document for efficient retrieval).
- 8. Revision of the schedules sometimes require reclassification decisions. For instance, the increasing number of books on Buddhism prompted its removal from the subclass BL to a new subclass BQ.
- 9. Some parts of LCC are obsolete and reflect 19th/early 20th century worldview. (Sometimes required for maintaining stability of the system and minimizing the need of reclassification).
- 10. Costly print schedules and subscription of online version. (LC has made LCC schedules free as downloadable PDF files along with training documentation free on its website)

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Conclusion

LCC is well established, and has been used for many years by prominent libraries in United States and other countries. During the last century, the role of LCC has been expanded from a tool for locating the holdings of a library on shelves, to a tool for browsing them through the online catalog, and more recently for organizing and providing access to electronic and networked resources. The role of LCC as a knowledge organization system is yet to be exploited fully in the current environment. LCC has great potential as a means for organizing web resources. It can assist with browsing and with narrowing or broadening of searches. There has been an effort by LC to make available LCC as Linked Data²⁰ LCC schedules can be used to build specialized classification schemes for effectively organizing web resources in digital libraries in specific subject areas. LCC and Classification Web together become a great combination as a tool for efficient organization, management, and retrieval of information. LCC with well defined categories, well developed its hierarchies, worldwide use, and mapping to other subject schemas like LCSH holds promise in a variety of applications beyond its familiar role as a shelf location device. The scheme appears to remain a classic example of an enumerative scheme which has proved successful over the years and has great future being the scheme used by the biggest and most influential library of the world, the Library of Congress.

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