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## 000 Computer science, information, general works

### SUMMARY

001–006	[Knowledge, the book, systems, computer science]
010	Bibliography
020	Library and information sciences
030	General encyclopedic works
050	General serial publications
060	General organizations and museology
070	Documentary media, educational media, news media; journalism; publishing
080	General collections
090	Manuscripts, rare books, other rare printed materials

## 001 Knowledge

Description and critical appraisal of intellectual activity in general

Including interdisciplinary works on consultants

Class here discussion of ideas from many fields; interdisciplinary approach to knowledge

Class epistemology in 121. Class a compilation of knowledge in a specific form with the form, e.g., encyclopedias 030

*For consultants or use of consultants in a specific subject, see the subject, e.g., library consultants 023, engineering consultants 620, use of consultants in management 658.4*

*See Manual at 500 vs. 001*

### .01 Theory of knowledge

Do not use for philosophy of knowledge, philosophical works on theory of knowledge; class in 121

### .1 Intellectual life

Nature and value

*For scholarship and learning, see 001.2*

*See also 900 for broad description of intellectual situation and condition*

**.2 Scholarship and learning**

Intellectual activity directed toward increase of knowledge

Class methods of study and teaching in 371.3. Class a specific branch of scholarship and learning with the branch, e.g., scholarship in the humanities 001.3, in history 900

*For research, see 001.4*

*See Manual at 500 vs. 001*

**.3 Humanities**

Including relative value of science versus the humanities

Class here government policy on humanities

**.4 Research**

Including research methods; qualitative research, quantitative research, scientific method; descriptive and experimental methods; support of and incentives for research; awards, bursaries, certificates, competitions, contests, fellowships and scholarships, financial support, grants, honors, medals, prizes

Class here action research, evaluation research, works discussing what research is

Class operations research, computer modeling and simulation in 003; class student finance in higher education in 378.3. Class research in a specific subject with the subject, plus notation 072 from Table 1, e.g., research in linguistics 410.72; class results of research in a specific subject with the subject without notation 072 from Table 1, e.g., results of research in linguistics 410 (*not* 410.72); class support of and incentives for research in a specific subject with the subject, plus notation 079 from Table 1, e.g., research awards in mechanical engineering 621.079

*See Manual at 500 vs. 001; also at 519.5, T1—01 vs. 001.4, T1—072*

Interdisciplinary works on historical research relocated to 907.2

**.9 Controversial knowledge**

Including well-established phenomena for which explanations are controversial; the end of the world; deceptions and hoaxes; errors, delusions, superstitions

Class here interdisciplinary works on controversial knowledge, parapsychology, occultism

Class a hoax that influenced history with the hoax in 900, e.g., False Dmitri 947

*For parapsychology and occultism, see 130. For controversial knowledge concerning a specific subject, see the subject, e.g., paranatural and legendary phenomena as subjects of folklore 398, Piltown man hoax 569.9, controversial medical remedies 615.8, an alleged conspiracy to assassinate John F. Kennedy 973.922*

*See Manual at 001.9 and 130*

- .94           Mysteries  
               Reported phenomena not explained, not fully verified  
               Including Atlantis, Bermuda Triangle, pyramid power  
               Class here nonastronomical extraterrestrial influences on earth  
               *See also 900 for Atlantis as a subject of archaeology*
- .942          Unidentified flying objects (UFOs)  
               Variant name: flying saucers  
               Class here human-alien encounters
- .944          Monsters and related phenomena  
               Including abominable snowman, Loch Ness monster  
               *See also 590 for animals whose reality is not controversial*

## 002       **The book**

- Including interdisciplinary works on chapbooks [*formerly 398*]  
               Class here historical bibliography, interdisciplinary works on the book  
               Class comprehensive works on historical and analytical bibliography in 010  
               *For book publishing, see 070.5; for rare books, see 090; for social aspects of the book, see 302.23; for book arts, see 686. For chapbooks with content limited to a specific subject, see the subject, e.g., murder 364.152, anonymous jokes from oral tradition 398, 18th-century English fiction 823*
- .02          Miscellany  
               Do not use for lists, inventories, catalogs; class in 010
- .029         Commercial miscellany  
               Do not use for trade catalogs and directories; class in 010
- .07          Education, research, related topics
- .074         Museums, collections, exhibits  
               Class catalogs and lists in 010

## 003 Systems

Including system identification; forecasting and forecasts; interdisciplinary works on forecasting; computer modeling and simulation; computer applications in systems, computer implementation of mathematical models of systems, interdisciplinary works on computer modeling and simulation; theory of communication and control; cybernetics, interdisciplinary works on control and stability of systems; kinds of systems; systems distinguished in relation to time

Class here operations research; systems theory, analysis, design, optimization; models (simulations) applied to real-world systems

Class computer vision in 006.3; class psychology of human perception in 153.7; class simulation in education in 371.39; class perception in animals in 573.8; class information theory in communications engineering in 621.382, without using notation 01 from Table 1; class coding for purpose of limiting access to information (cryptography) in 652; class use of systems analysis and operations research in management in 658.4; class social aspects of and interdisciplinary works on communication in systems in 302.2. Class systems in a specific subject with the subject, plus notation 01 from Table 1, e.g., systems theory in the social sciences 300.1; class information theory in communications engineering of a specific kind of communications with the kind, without using notation 01 from Table 1, e.g., radio 621.384; class information theory in any other specific subject with the subject, plus notation 01 from Table 1, e.g., information theory in economics 330.01

*For artificial intelligence, see 006.3; for forecasting by parapsychological and occult means, see 133.3; for social forecasting, forecasting and forecasts for specific areas, see 303.49; for purely mathematical treatment of networks without reference to real-world systems, see 511; for control theory in automation engineering, see 629.8. For computer modeling and simulation applied to a specific subject, see the subject, plus notation 01 from Table 1, e.g., computer modeling in economics 330.01; for control and stability of systems in a specific subject, see the subject, plus notation 01 from Table 1, e.g., control and stability of systems in general engineering 620.001*

*See also 004.2 for analysis and design of computer-based systems; also 511 for mathematical models not applied to real-world systems; also 519.7 for mathematical programming not applied to real-world systems*

[.028 5] Computer applications

Do not use; class in 003

## > 004–006 Computer science; computer programming, programs, data; special computer methods

Unless other instructions are given, class a subject with aspects in two or more subdivisions of 004–006 in the number coming last, e.g., external storage for personal computers 004.5 (*not* 004.16), data security in client-server computing 005.8 (*not* 004), natural language processing in full-text database management systems 006.3 (*not* 005.75)

Class comprehensive works in 004

## 004 Computer science

Including processing modes; computers, processors, computer systems distinguished by their processing modes; centralized processing; nonelectronic data processing

Class here data processing; selection and use of computer hardware; electronic computers; electronic digital computers; computer systems (computers, their peripheral devices, their operating systems); cyberinfrastructure; central processing units; computer reliability; interactive, online processing; mobile computing; comprehensive works on hardware and programs in electronic data processing

Class computer modeling and simulation in 003; class programming for multiprocessor computers in 005.2; class web services in 006.7; class comprehensive works on analog computers in 004.1; class comprehensive works on associative processing and memory in 004.5; class comprehensive works on multiprogramming, on time-sharing in 005.4. Class computer applications in a specific subject with the subject, plus notation 0285 from Table 1, e.g., computer applications in banking 332.10285

*For computer programming, programs, data, see 005; for special computer methods, see 006; for engineering, manufacture, repair of computers, see 621.39. For a specific aspect of mobile computing, see the aspect, e.g., handheld computing devices 004.167, wireless communications 004.6, mobile operating systems for handheld computing devices 005.4*

*See also 025.04 for automated information storage and retrieval; also 303.48 for computers as a cause of social change; also 343.09 for computer law; also 364.16 for financial and business computer crimes; also 371.33 for computer-assisted instruction (CAI); also 658 for data processing in management; also 794.8 for computer games*

*See Manual at 004–006 vs. 621.39; also at 004 vs. 005*

### .01 Philosophy and theory

Including human-computer interaction, human factors, usability

Apply notation 01 from Table 1 as modified here throughout 004–006, e.g., usability in software engineering 005.101

### .02 Miscellany

#### .028 Auxiliary techniques and procedures; apparatus, equipment, materials

Do not use for testing and measurement; class in 004.2

**.1 General works on specific types of computers**

Including digital computers (e.g., supercomputers, mainframe computers, midrange computers); hybrid and analog computers

Class here specific types of processors, computer systems based on specific types of computers

Class specific types of computers, processors, computer systems distinguished by their processing modes, massively parallel supercomputers, nonelectronic analog computers in 004; class programmable calculators in 510.285; class comprehensive works on midrange and personal computers in 004.16

*See Manual at 004.1*

Embedded computer systems relocated to 006.2

**.16 \*Personal computers**

Former heading: Microcomputers

Class here specific types of personal computers; comprehensive works on midrange and personal computers

Class midrange computers in 004.1

**.165 Specific personal computers**

Arrange alphabetically by name of computer or processor, e.g., Apple iMac<sup>®</sup>

*See Manual at 004.165*

Specific handheld computing devices relocated to 004.1675

**.167 \*Handheld computing devices**

Class here specific types of handheld computing devices

**.167 5 Specific handheld computing devices [formerly 004.165]**

Arrange alphabetically by name of computer or processor, e.g., BlackBerry<sup>®</sup>

\*Use notation 01 from Table 1 as modified at 004.01

**.2 \*Systems analysis and design, computer architecture, performance evaluation**

Including analysis of a user's problem preparatory to developing a computer system to solve it; performance measurement and evaluation to aid in designing or improving the performance of a computer system; systems analysis and design, computer architecture, performance evaluation of specific types of electronic computers

Class systems analysis and design, computer architecture, performance evaluation of specific types of computers distinguished by processing mode in 004; class communications network design and architecture in 004.6. Class performance evaluation as a consideration in purchasing a specific item with the item in 004, plus notation 029 from Table 1, e.g., evaluating personal computers for purchase 004.16029

*For software systems analysis and design, see 005.1; for database design and architecture, see 005.74*

**.5 \*Storage**

Including hardware aspects of virtual memory; comprehensive works on associative (content-addressable) memory and associative processing; internal storage (main memory); external storage (auxiliary memory)

Class associative processing in 004; class comprehensive works on virtual memory in 005.4

**.6 \*Interfacing and communications**

Standard subdivisions are added for either or both topics in heading

Including interfacing and communications for specific types of electronic computers (e.g., digital computers, computers distinguished by processing modes, hybrid and analog computers); interfacing and communications protocols; kinds of hardware; communications network architecture; data transmission modes and data switching methods; local-area networks

Class here data communications; internetworking, interoperability; wired communications, wireless communications; interdisciplinary works on computer communications

Class client-server computing in 004; class data, programs, programming in interfacing and communications in 005.7; class security measures in interfacing and communications in 005.8. Class peripheral control units controlling a specific kind of peripheral with the peripheral, e.g., printer controllers 004.7; class protocols for specific aspects of interfacing and communications with the aspect, e.g., protocols for error-correcting codes 005.7

*For social aspects of computer communications, see 302.23; for economic and related aspects of providing computer communications to the public, see 384.3; for interdisciplinary works on telecommunication, see 384*

*See also 004 for distributed processing*

*See Manual at 004.6 vs. 005.7; also at 004.6 vs. 384.3; also at 004.6 vs. 621.382, 621.39*

\*Use notation 01 from Table 1 as modified at 004.01

- .602           Miscellany  
                   Do not use for standards; class in 004.6
- .67            \*Wide-area networks  
                   Including Internet; World Wide Web  
                   Class here metropolitan-area networks  
                   *For Internet, World Wide Web as information systems, see 025.042. For a specific aspect of cloud computing, see the aspect, e.g., grid computing 004, web services 006.7*  
                   *See Manual at 004.67 vs. 006.7, 025.042, 384.3*
- .670 917 3                    Socioeconomic regions by concentration of population  
                                   Do not use for metropolitan-area networks; class in 004.67
- .69            Specific kinds of computer communications  
                   Including Internet telephony  
                   Class computer communications in multimedia systems with the system, e.g., online social networks 006.7
- [.690 1–.690 9]           Standard subdivisions  
                                   Do not use; class in 004.601–004.609
- .692           \*Electronic mail  
                   Class here instant messaging; point-to-point communications  
                   Class e-mail lists in 004.693
- .693           \*Discussion groups  
                   Class here chat groups, electronic bulletin boards, e-mail lists, newsgroups; broadcast communications  
                   Class electronic mail in 004.692
- .7            **\*Peripherals**  
                   Including peripherals for analog, digital, hybrid computers; peripherals for computers distinguished by processing modes; peripherals combining input and output functions; computer terminals; input peripherals; output peripherals  
                   Class peripheral storage, tape and disk devices in 004.5; class input devices that utilize pattern recognition methods in 006.4; class output peripherals that utilize computer sound synthesis in 006.5; class computer graphics output devices in 006.6; class ergonomic engineering of computer peripherals in 621.39. Class a special-purpose input device with the purpose, e.g., graphics input devices 006.6, game paddles 688.7  
                   *See also 004.6 for communications devices*

\*Use notation 01 from Table 1 as modified at 004.01



**005 \*Computer programming, programs, data**

Class here software compatibility, portability, reliability, reusability

Class computer programming, programs, data for special computer methods in 006; class comprehensive works on hardware and programs in electronic data processing in 004

*See Manual at 004–006 vs. 621.39; also at 004 vs. 005*

**SUMMARY**

- 005.01 Philosophy and theory**
  - .1 Programming**
  - .2 Programming for specific types of computers, for specific operating systems, for specific user interfaces**
  - .3 Programs**
  - .4 Systems programming and programs**
  - .5 General purpose application programs**
  - .7 Data in computer systems**
  - .8 Data security**

.01 Philosophy and theory

Including usability

**> 005.1–005.5 Computer programming and programs**

Class comprehensive works in 005

**.1 Programming**

Including special programming techniques; software systems analysis and design; analysis of a user's problem preparatory to developing a software system to solve it; verification, testing, measurement, debugging; preparation of program documentation; preparation of software documentation; program maintenance; software maintenance; microprogramming and microprograms

Class here application frameworks, application programming, computer algorithms, integrated development environments, software engineering

Class firmware viewed as hardware in 004; class real-time programming, parallel programming in 005.2; class programming for personal computers in 005.26; class programs for personal computers in 005.36; class algorithms discussed solely from a theoretical perspective, without regard to computer implementation, in 518. Class a specific application of programming within computer science with the application in 005.4–005.8 or 006, e.g., programming of computer graphics 006.6

*For programming for specific types of computers, for specific operating systems, for specific user interfaces, see 005.2*

*See Manual at 005.1–005.2 vs. 005.4; also at 005.1 vs. 005.3*

\*Use notation 01 from Table 1 as modified at 004.01

- .101            **Philosophy and theory**  
                   Use notation 01 from Table 1 as modified at 004.01. Do not use notation 01 from Table 1 for general discussions of logic in programming; class in 005.1  
                   *See also 005.13 for the symbolic (mathematical) logic of programming languages*  
                   *See Manual at 005.101*
- .102            **Miscellany**
- .102 8            **Auxiliary techniques and procedures; apparatus, equipment, materials**  
                   Do not use for testing and measurement, maintenance and repair; class in 005.1  
                   Class special techniques in 005.1
- .13             **Programming languages**  
                   Including application generators, nonprocedural (declarative) languages, text editors specially designed to assist in coding programs; symbolic logic (mathematical logic); mathematical principles of programming languages, e.g., automata, formal languages, grammars, recursive functions applied to programming languages; specific programming languages; comprehensive works on programming with specific programming languages; machine and assembly languages  
                   Class here coding of programs  
                   Class specific microprogramming languages in 005.1; class mathematical principles of programming in 005.101; class specific machine and assembly languages in 005.2; class comprehensive works on text editors in 005.52  
                   *For specific machine and assembly languages, see 005.2; for assemblers, see 005.4*  
                   *See also 005.4 for job control languages*
- .130 1            **Philosophy and theory**  
                   Use notation 01 from Table 1 as modified at 004.01. Do not use notation 01 from Table 1 for mathematical principles; class in 005.13  
                   *See Manual at 005.101*
- .2             Programming for specific types of computers, for specific operating systems, for specific user interfaces**  
                   Including programming for supercomputers; programming for mainframe computers; programming for midrange computers; programming for minicomputers, server class computers; programming for processing modes; programming for hybrid and analog computers  
                   Class here specific machine and assembly languages  
                   Class comprehensive works on programming for midrange and personal computers in 005.26  
                   *See Manual at 005.1–005.2 vs. 005.4; also at 005.1 vs. 005.3*

- .25           **Programming for handheld computing devices**  
              Class here programming for specific types of handheld computing devices
- .250 1           **Philosophy and theory**  
              Use notation 01 from Table 1 as modified at 004.01  
              *See Manual at 005.101*
- .26           **Programming for personal computers**  
              Including programming in specific programming languages; programming  
              for specific operating systems; programming for specific user interfaces  
              Class here programming for specific types of personal computers;  
              comprehensive works on programming for midrange and personal computers  
              Class programming for midrange computers in 005.2; class programming for  
              a specific operating system where the operating system is the only operating  
              system that runs on a specific computer in 005.265  
              *For programming for handheld computing devices, see 005.25*
- .260 1           **Philosophy and theory**  
              Use notation 01 from Table 1 as modified at 004.01  
              *See Manual at 005.101*
- .265           **Programming for specific computers**  
              Class here programming for specific processors, for computer systems  
              based on specific computers  
              Arrange alphabetically by name of computer, e.g., Apple iMac®  
              *See Manual at 004.165*
- .265 01           **Philosophy and theory**  
              *See Manual at 005.101*

**.3 \*Programs**

Software, firmware, middleware

Including programs for digital computers (e.g., programs for supercomputers, programs for mainframe computers, programs for midrange computers, programs for personal computers); programs for specific processing modes; programs for specific operating systems and for specific user interfaces not limited by type of computer; programs for hybrid and analog computers

Class here application programs, collections of programs, software documentation, software packages, comprehensive works on software and firmware, on applications and systems programs

Class comprehensive works on programs for midrange and personal computers in 005.36. Class programs for a specific application in computer science with the application in 005–006, e.g., programs for computer graphics 006.6; class online help in specific kinds of programs with the kind, e.g., online help in programs for personal computers 005.36; class collections of programs of a specific kind with the kind, e.g., collections of general purpose application software 005.5

*For firmware, see 005.1; for systems programs, see 005.4*

*See also 005.1 for preparation of program documentation*

*See Manual at 005.3; also at 005.1 vs. 005.3; also at 005.3, 005.5 vs. 005.4*

.302 8           Auxiliary techniques and procedures; apparatus, equipment, materials

Do not use for software metrics, quality assurance, reliability, testing, verification, maintenance and repair, class in 005.1

Including usability testing, software evaluation as an aid in selection

.302 9           Commercial miscellany

*See Manual at 011 vs. 005.3029, 016.0053, 025.0422*

.36            **\*Programs for personal computers**

Including programs for handheld computing devices

Class here programs for specific types of personal computers; comprehensive works on programs for midrange and personal computers

Class programs for midrange computers in 005.3

.362           Programs in specific programming languages

Limited to programs and works about programs where the material being classified emphasizes the programming language

Arrange alphabetically by name of programming language, e.g., BASIC

\*Use notation 01 from Table 1 as modified at 004.01

- .365            Programs for specific computers
- Class here programs for specific processors, programs for computer systems based on specific computers
- Arrange alphabetically by name of computer or processor, e.g., Apple iMac<sup>®</sup>
- See Manual at 004.165; also at 005.368 vs. 005.365*
- .368            Programs for specific operating systems and for specific user interfaces
- Class programs for a specific operating system where the operating system is the only operating system that runs on a specific computer in 005.365
- See Manual at 005.368 vs. 005.365*
- .4            \*Systems programming and programs**
- Including programming to produce operating systems; systems programs; operating systems, system administration (using expertise in systems programs to keep computer systems functioning efficiently), systems software, utility programs; operating systems for specific types of computers; programming language translators; code generators, macro processors, parsers, translators for specific programming languages
- Class translators for microprogramming languages in 005.1; class text editors in 005.52; class programming and programs for interfacing and data communications in 005.7; class programming and programs for internal management of data files and databases in 005.74. Class programming for specific aspects of operating systems with the aspect, e.g., programming for communications 005.7; class a specific application of systems programs with the application, e.g., computer interfacing and device drivers 005.7, computer security 005.8
- For hardware aspects of multiprogramming, see 004; for hardware aspects of virtual memory, see 004.5; for data backup and recovery, see 005.8*
- See Manual at 005.1–005.2 vs. 005.4; also at 005.1 vs. 005.3; also at 005.3, 005.5 vs. 005.4; also at 005.74 vs. 005.4*
- .5            \*General purpose application programs**
- Programs and integrated software packages that can be used in a wide range of applications
- Including statistical programs; statistical software; personal information management programs; presentation software; business presentation software
- Class here integrated programs, specific programs with interdisciplinary applications
- Arrange alphabetically by name of program or software package, e.g., OpenOffice.org<sup>®</sup>
- Class database software in 005.74
- See Manual at 005.1 vs. 005.3; also at 005.3, 005.5 vs. 005.4*

\*Use notation 01 from Table 1 as modified at 004.01

- .52      \*Word processing
- Including grammar checkers, spelling checkers, style checkers
- Class here desktop publishing software, text editors, text processing
- Arrange alphabetically by name of program or software package, e.g., Corel WordPerfect®
- Class works on desktop publishing that emphasize typography in 686.2
- .54      \*Electronic spreadsheets
- Arrange alphabetically by name of program or software package, e.g., Microsoft Excel®
- .7        **\*Data in computer systems**
- Including data communications; computer communications; device drivers, interfacing, interprocess communications; data preparation and representation; file formats; conversion to machine-readable form, data entry and validation; document formats, record formats; data structures
- Class computer input devices in 004.7; class data validation in file processing, data representation through file organization in 005.74
- For data security, data encryption and ciphers, see 005.8; for markup languages, see 006.7*
- See Manual at 004.6 vs. 005.7; also at 005.1 vs. 005.3*
- .74      \*Data files and databases
- Standard subdivisions are added for either or both topics in heading
- Including data validation in file processing; file organization and access methods; data dictionaries and directories; database design and architecture; data modeling, data models; data warehousing; transaction processing systems; data compression
- Class here data file processing, data file and database management
- Class comprehensive works on data validation in 005.7; class interdisciplinary works on computer and information science aspects of databases in 025.04. Class data files and databases with regard to their subject content with the subject, e.g., encyclopedic databases 030, nonbibliographic medical databases 610
- For specific types of data files and databases, see 005.75; for the compression of sound files, see 006.5; for the compression of graphic files, see 006.6*
- See Manual at 005.74 vs. 005.4; also at 025.04, 025.06 vs. 005.74*
- Use of this number for data file formats discontinued; class in 005.7
- Data mining relocated to 006.3
- .740 1      Philosophy and theory
- Including logic databases, deductive databases [*both formerly 006.3*]

\*Use notation 01 from Table 1 as modified at 004.01

- .740 2                      Miscellany
- .740 285                      Computer applications
- For web databases as information storage and retrieval systems, see 025.0422*
- .740 6                      Organizations and management
- .740 68                      Management
- Do not use notation 068 from Table 1 for file management or database management (computer programs that enable operation of files or databases); class in 005.74
- Class here management of organizations concerned with databases, e.g., firms that create them
- .75                      Specific types of data files and databases
- Including centralized files and databases; flat-file databases; databases based on specific data models (e.g., network databases, hierarchical databases, relational databases, object-oriented databases); temporal, spatial, constraint databases; distributed data files and databases; data files and databases used in client/server computing; full-text database management systems
- .8                      \*Data security**
- Including digital rights management, electronic signatures; data encryption; ciphers; malware; data backup and recovery
- Class here access control, computer network security, firewalls; interdisciplinary works on computer security
- Class interdisciplinary works on cryptography in 652
- For a specific aspect of computer security, see the aspect, e.g., management of computer security 658.4*
- 006                      \*Special computer methods**
- Not otherwise provided for
- Class here programs, programming, selection and use of hardware in relation to special computer methods
- See also 003 for computer modeling and simulation; also notation 01 from Table 1 for computer modeling and simulation in a specific subject; also 004.6 for computer communications; also 005.74 for file and database management; also 005.8 for data security; also 629.8 for special methods in automatic control engineering*
- See Manual at 004–006 vs. 621.39; also at 005.1 vs. 005.3*

\*Use notation 01 from Table 1 as modified at 004.01

**.2 \*Special-purpose systems**

Including automatic data collection; embedded computer systems [formerly 004.1]; interdisciplinary works on automatic identification and data capture; interdisciplinary works on bar coding [formerly 006.4]

Class real-time locating systems that use radio frequency identification in 910.285

*For optical character recognition, speaker recognition, see 006.4; for biometric identification, see 570.1; for use of bar coding in materials management, see 658.7. For specific applications of automatic identification and data capture, see the application, plus notation 0285 from Table 1, e.g., management of supplies in business 658.70285; for a specific aspect of embedded computer systems, see the aspect, e.g., systems analysis and design of embedded computer systems 004.2, software for embedded systems 005.3*

**.3 \*Artificial intelligence**

Including machine learning; neural nets (neural networks); connectionism, neural computers; knowledge-based systems; expert systems; natural language processing; computational linguistics [formerly 410.285]; computer vision; data mining [formerly also 005.74]

Class here computational intelligence, intelligent agents, multi-agent systems, question-answering systems, comprehensive works on artificial intelligence and cognitive science

Class robotics in 629.8

*For cognitive science, see 153*

*See also 005.1 for logic programming; also 006.4 for pattern recognition not used as a tool of artificial intelligence*

*See Manual at 006.3 vs. 006.4, 621.36, 621.39; also at 006.3 vs. 153; also at 006.3 vs. 410.285*

Logic databases, deductive databases relocated to 005.7401

**.4 \*Computer pattern recognition**

Including optical pattern recognition; comprehensive works on optical pattern recognition and computer graphics; acoustical pattern recognition

Class pattern recognition as a tool of artificial intelligence in 006.3; class optical engineering aspects of optical pattern recognition in 621.36

*For perceptrons, see 006.3; for speech synthesis, see 006.5; for computer graphics, see 006.6*

*See Manual at 006.3 vs. 006.4, 621.36, 621.39*

Interdisciplinary works on bar coding relocated to 006.2

\*Use notation 01 from Table 1 as modified at 004.01



**.5 \*Digital audio**

Including speech synthesis

Class here computer sound synthesis

Class digital audio engineering in 621.389; class computer audio art in 776

*See Manual at 776 vs. 006.5–006.7*

**.6 \*Computer graphics**

Including hardware; equipment specifically designed for computer graphics and works treating use of equipment for computer graphics even if the equipment was not specifically designed for that purpose; programming; programming for specific types of computers, for specific operating systems, for specific user interfaces; programs; special topics in computer graphics (e.g., three-dimensional graphics, digital video)

Class here image manipulation

Class works that treat equally the use of equipment for graphics and nongraphics tasks in 004; class multimedia systems, interactive video, comprehensive works on computer graphics and computer sound synthesis in 006.7; class digital television in 621.388; class computer graphic art in 776; class digital video hardware, digital video effects in 777; class use of computers in video production in 777.0285

*For a specific product of computer animation techniques, see the product, e.g., animated films 791.43*

*See Manual at 776 vs. 006.5–006.7*

**.7 \*Multimedia systems**

Including interactive video; hardware; markup languages; general document markup languages, style sheet languages; specific types of multimedia systems; programming; Internet programming, web application frameworks, web programming; programming for specific types of computers, for specific operating systems, for specific user interfaces; programs; multimedia authoring programs, software; multimedia software

Class here hypermedia, hypertext; information architecture, web page design, web site development; comprehensive works on computer graphics and digital audio, interactive multimedia

Class web servers in 004; class web databases in 005.740285; class hypertext databases in 005.75; class multimedia computer art in 776; class use of computers in video production in 777.0285; class interdisciplinary works on Internet in 004.67; class interdisciplinary works on World Wide Web in 025.042; class interdisciplinary works on web publishing in 070.5; class interdisciplinary works on online social networks in 302.30285

*For digital audio, see 006.5; for computer graphics, see 006.6*

*See also 384.3 for interactive videotex*

*See Manual at 004.67 vs. 006.7, 025.042, 384.3; also at 776 vs. 006.5–006.7*

\*Use notation 01 from Table 1 as modified at 004.01

**.8 \*Augmented and virtual reality**

A combination of computer software and hardware that adds computer-generated information to the visual presentation of a real environment or that gives an illusion of being in an artificial environment or a remote real environment, and gives the user an ability to manipulate objects in that environment. The illusion is created by visual, auditory, and other sensory data provided by the computer system to the user

Standard subdivisions are added for either or both topics in heading

**[007] [Unassigned]**

Most recently used in Edition 8

**[008] [Never assigned]****[009] [Never assigned]****010 Bibliography**

History, identification, description of printed, written, audiovisual, electronic resources

Including special topics of bibliography (e.g., analytical bibliography [descriptive bibliography], systematic bibliography)

Class descriptive cataloging in 025.3. Class systematic bibliography applied to a specific kind of bibliography with the kind, plus notation 028 from Table 1, e.g., preparation and compilation of biobibliographies 012.028; class catalogs and lists of art works with the subject, plus notation 074 from Table 1, e.g., a catalog of the prints in the Library of Congress 769.074

*For historical bibliography, see 002*

*See also 028.1 for reviews*

**SUMMARY**

- 011 Bibliographies and catalogs**
- 012 Bibliographies and catalogs of individuals**
- 014 Bibliographies and catalogs of anonymous and pseudonymous works**
- 015 Bibliographies and catalogs of works from specific places**
- 016 Bibliographies and catalogs of works on specific subjects**
- 017 General bibliographies and catalogs of works held in specific collections or offered for sale**

[.28] Auxiliary techniques and procedures; apparatus, equipment, materials

Do not use; class in 010

\*Use notation 01 from Table 1 as modified at 004.01

## 011 Bibliographies and catalogs

Standard subdivisions are added for either or both topics in heading

Including general bibliographies and catalogs (e.g., universal bibliographies and catalogs, general bibliographies and catalogs of works published in specific languages, general bibliographies and catalogs of works published in specific forms, general bibliographies and catalogs of works exhibiting specific bibliographic characteristics other than form, general bibliographies and catalogs of works issued by specific kinds of publishers, general bibliographies and catalogs of works for young people and people with disabilities, for specific types of libraries, general bibliographies and catalogs of works having specific kinds of content, general bibliographies and catalogs of works by groups of authors); bibliographies and catalogs of reference works; bibliographies and catalogs of free materials; general bibliographies and catalogs of works published in specific historical periods

Class here general collections of brief bibliographic abstracts; bibliographies and catalogs not provided for elsewhere

Class bibliography, bibliographies as a subject in 010; class best books for young people and people with disabilities, for specific types of libraries in 011.6; class braille publications in 011.63; class catalogs as a subject in 025.3; class comprehensive works on collections of abstracts, general collections of abstracts giving substantive information on the subject in 080; class interdisciplinary works on bibliographic catalogs in 025.3

*For bibliographies and catalogs of individuals, of anonymous and pseudonymous works, of works from specific places, of works by specific publishers, of works on specific subjects, of works held in specific collections or offered for sale, see 012–017; for bibliographies and catalogs of web sites, see 025.0422*

*See Manual at 011–017; also at 011 vs. 005.3029, 016.0053, 025.0422*

- .001 Philosophy and theory
- .002 Miscellany
  - .002 9 Commercial miscellany
    - Do not use for auction catalogs, sales catalogs, class in 017
- .003–.007 Standard subdivisions
- .008 Groups of people
  - Do not use for bibliographies and catalogs of works by groups of authors; class in 011.8
  - [.008 3] Young people
    - Do not use; class in 011.62
  - .008 7 Gifted people
    - Do not use for people with disabilities and illnesses; class in 011.63
- .009 History, geographic treatment, biography
  - Do not use for bibliographies and catalogs of works published in specific historical periods; class in 011

- .009 1–.009 9      Geographic treatment and biography  
                             Do not use for bibliographies and catalogs of works from specific places; class in 015
- .6      General bibliographies and catalogs of works for young people and people with disabilities; for specific types of libraries**
- [.609 1]              Areas, regions, places in general  
                             Do not use; class in 015.1
- [.609 3–.609 9]      Specific continents, countries, localities  
                             Do not use; class in 015.3–015.9
- .62              Works for young people  
                             Including works for specific sexes (e.g., works for young males, works for young females)  
                             Class here works for children
- [.620 91]              Areas, regions, places in general  
                             Do not use; class in 015.1
- [.620 93–.620 99]      Specific continents, countries, localities  
                             Do not use; class in 015.3–015.9
- .63              Works for people with disabilities and illnesses  
                             Including braille, large-print publications  
                             Class here works for people with physical disabilities  
                             Class audiobooks for people with physical disabilities, comprehensive works on audiobooks and braille publications in 011
- [.630 91]              Areas, regions, places in general  
                             Do not use; class in 015.1
- [.630 93–.630 99]      Specific continents, countries, localities  
                             Do not use; class in 015.3–015.9
- .8      General bibliographies and catalogs of works by groups of authors**  
                             Do not use for material emphasizing special interests of groups of people, e.g., bibliographies of works on women emphasizing the status of women are classed in 016.30542 (*not* 011.82), catalogs of works by clergy emphasizing religion are classed in 016.2 (*not* 011.88)  
                             Class here general bibliographies and catalogs of works by minorities  
                             Add to base number 011.8 the numbers following —08 in notation 081–089 from Table 1, e.g., bibliographies of works by women 011.82, bibliography of works by clergy 011.88  
                             *For bibliographies and catalogs of individuals, see 012*

> **012–017 Bibliographies and catalogs of individuals, of anonymous and pseudonymous works, of works from specific places, of works on specific subjects, of works held in specific collections or offered for sale**

Standard subdivisions are added for bibliographies, catalogs, or both

Unless other instructions are given, observe the following table of preference, e.g., pseudonymous scientific works published in France 016.5 (*not* 014 or 015.44):

Bibliographies and catalogs of works on specific subjects	016
Bibliographies and catalogs of individuals	012
Bibliographies and catalogs of anonymous and pseudonymous works	014
Bibliographies and catalogs of works from specific places	015
General bibliographies and catalogs of works held in specific collections or offered for sale	017

Class bibliography, bibliographies as a subject in 010; class general bibliographies and catalogs in 011; class catalogs as a subject, interdisciplinary works on bibliographic catalogs in 025.3

*See Manual at 011–017*

**012 Bibliographies and catalogs of individuals**

Works by or about people not clearly associated with a specific subject

Class here biobibliographies

*For biobibliographies of people associated with a specific subject, see the biography of the subject, e.g., biobibliographies of psychologists 150.92*

**[013] [Unassigned]**

Most recently used in Edition 14

**014 Bibliographies and catalogs of anonymous and pseudonymous works**

**015 Bibliographies and catalogs of works from specific places**

Works issued in specific regions, continents, countries, localities, or by specific publishers

Class here bibliographies and catalogs of authors resident in specific regions, continents, countries, localities

Add to base number 015 notation 1–9 from Table 2, e.g., works issued in Canada 015.71; however, do not add notation 01–09 from Table 1; class in number for area

Class bibliographies and catalogs of works of specific kinds of people resident in specific places in 011.8

## 016 Bibliographies and catalogs of works on specific subjects

Class here annotated subject bibliographies with descriptive annotations that do not give substantive information about the subject; indexes

Add to base number 016 notation 001–999, e.g., bibliographies of computer programs and software 016.0053, of general encyclopedic works 016.03, of philosophy 016.1, of novels 016.80883, of general collected biographies 016.92

Add to the various subdivisions of 016 notation 01–09 from Table 1 as required for works listed in the bibliographies and catalogs, but not for the bibliographies and catalogs being classed, e.g., bibliographies of serial publications on philosophy 016.105, but serially published bibliographies on philosophy that include monographs 016.1 (*not* 016.105)

Class bibliographies and catalogs of belles-lettres in more than two languages in 016.8088. Class biobibliographies of people associated with a specific subject with the biography of the subject, e.g., biobibliographies of psychologists 150.92; class bibliographies with abstracts giving substantive information about the subject with the subject, e.g., bibliographies with substantive abstracts about chemistry 540

*See also 011 for general bibliographies and catalogs arranged by subject, general bibliographies and catalogs of works published in specific forms, bibliographies and catalogs of incunabula, bibliographies and catalogs of rare books; also 017 for general bibliographies and catalogs of works held in specific collections or offered for sale and general catalogs of serial publications; also 050 for general indexes of specific serial publications not limited by subject*

*See Manual at 011 vs. 005.3029, 016.0053, 025.0422; also at 016 vs. 026, T1–07*

(Option: Class with the specific subject, plus notation 016 from Table 1, e.g., bibliographies of medicine 610.16)

## 017 General bibliographies and catalogs of works held in specific collections or offered for sale

Lists of works held in a specific collection or group of collections, or offered for sale by specific organizations other than publishers or at auction, and not restricted to specific subjects, to individuals, to anonymous and pseudonymous works, or to specific places of publication

Including bibliographies and catalogs of nonprivate libraries; bibliographies and catalogs of private and family libraries; auction catalogs; sales catalogs

Class here catalogs arranged by author, main entry, date, or register number [*formerly* 018], dictionary catalogs [*formerly* 019]; classified, alphabetic catalogs; general catalogs of serial publications and their indexes, union catalogs, catalogs not provided for elsewhere

*See also 011 for general bibliographies and catalogs; also 016 for bibliographies and catalogs on specific subjects*

Comprehensive works on catalogs relocated to 025.3

[.091] Areas, regions, places in general

Do not use; class in 015.1

[.093–.099] Specific continents, countries, localities

Do not use; class in 015.3–015.9

**[018] Catalogs arranged by author, main entry, date, or register number**

Relocated to 017

**[019] Dictionary catalogs**

Relocated to 017

**020 Library and information sciences**

Standard subdivisions are added for either or both topics in heading

Class here archival science

Unless other instructions are given, observe the following table of preference, e.g., administration of cataloging in academic libraries 025.3068 (*not* 025.1 or 027.7):

Reading and use of other information media	028
Operations of libraries, archives, information centers ( <i>except</i> 025.1)	025
Administration of physical plant	022
Personnel management	023
Administration	025.1
Relationships of libraries, archives, information centers	021
Libraries, archives, information centers devoted to specific subjects	026
General libraries, archives, information centers	027

Class information theory in 003; class government policy on libraries in 021.8; class government policy on information in 338.9

*For bibliography, see 010*

*See also 651.5 for records management as a managerial service*

**SUMMARY**

<b>020.1–.9</b>	<b>Standard subdivisions</b>
<b>021</b>	<b>Relationships of libraries, archives, information centers</b>
<b>022</b>	<b>Administration of physical plant</b>
<b>023</b>	<b>Personnel management (Human resource management)</b>
<b>025</b>	<b>Operations of libraries, archives, information centers</b>
<b>026</b>	<b>Libraries, archives, information centers devoted to specific subjects</b>
<b>027</b>	<b>General libraries, archives, information centers</b>
<b>028</b>	<b>Reading and use of other information media</b>

[.68] Management

Do not use for plant management; class in 022. Do not use for personnel management; class in 023. Do not use for other aspects of management, for comprehensive works on management; class in 025.1

**.9 History, geographic treatment, biography**

Class here comparative librarianship; history, geographic treatment, biography of librarianship

Class history and biography of libraries in 027.009; class geographic treatment of libraries in 027.01–027.09

**021 Relationships of libraries, archives, information centers**

Standard subdivisions are added for any or all topics in heading

Including role as storage centers; relationships with other educational institutions

*See also 025.5 for orientation and instructional manuals for users; also 027 for comprehensive works on libraries, archives, information centers*

**.2 Relationships with the community**

Including educational role; cultural role; informational role

Class relationships with other educational institutions in 021

**.6 Cooperation and networks**

Including centralization of systems; systems, consortia

Class networks, systems, consortia for a specific kind of institution in 026–027. Class cooperation in a specific activity with the activity, e.g., cooperative cataloging 025.3; class networks, systems, consortia for a specific function with the function, e.g., interlibrary loan networks 025.6

**.7 Promotion of libraries, archives, information centers**

Standard subdivisions are added for any or all topics in heading

Including friends of the library organizations

Class here public relations

Class advertising in 659.19

**.8 Relationships with government**

Regardless of governmental level

Including library-government aspects of exchanges, gifts, deposits; political aspects; commissions and governing boards; financial support

Class here government policy on libraries

Class government policy on information in 338.9

*See also 025.2 for acquisition through exchange, gift, deposit*



**022 Administration of physical plant**

Including bookmobiles; location and site; buildings; planning for buildings; stacks and shelving; lighting for library buildings; heating, ventilation, air conditioning; equipment, furniture, furnishings

Class here library quarters in buildings devoted primarily to other activities, e.g., physical plant of school libraries; maintenance of physical plant

Class comprehensive works on computers in libraries, archives, information centers in 025.00285; class interdisciplinary works on lighting for library buildings in 621.32; class interdisciplinary works on heating, ventilation and air conditioning of library buildings in 697

*See also 025.8 for physical security of collections*

**023 Personnel management (Human resource management)**

Including types of positions (e.g., professional positions, technician positions, administrative positions); titles and job descriptions for specific types of positions; job description; management of in-service training; elements of personnel management

Class comprehensive works on in-service training in 020.71

**[024] [Unassigned]**

Most recently used in Edition 10

**025 Operations of libraries, archives, information centers**

Standard subdivisions are added for any or all topics in heading

Including technical services; commercial and noncommercial processing centers

Class here documentation (the systematic collection, organization, storage, retrieval, and dissemination of recorded information)

Class comprehensive works on operations in specific kinds of institutions in 026–027. Class a specific technical service with the service, e.g., acquisitions 025.2

**SUMMARY**

<b>025.001–.009</b>	<b>Standard subdivisions</b>
<b>.04–.06</b>	<b>[Information storage and retrieval systems]</b>
<b>.1</b>	<b>Administration</b>
<b>.2</b>	<b>Acquisitions and collection development</b>
<b>.3</b>	<b>Bibliographic analysis and control</b>
<b>.4</b>	<b>Subject analysis and control</b>
<b>.5</b>	<b>Services for users</b>
<b>.6</b>	<b>Circulation services</b>
<b>.7</b>	<b>Physical preparation for storage and use</b>
<b>.8</b>	<b>Maintenance and preservation of collections</b>

.001–.009 Standard subdivisions

- .04            Information storage and retrieval systems
- Including recall, precision, relevance
- Class here search and retrieval in information storage and retrieval systems; front-end systems; comprehensive works on online catalogs integrated with information storage and retrieval systems, on automated storage, search, retrieval of information; interdisciplinary works on databases
- Class aspects of information storage for specific types of retrieval systems with the aspect for the type of system, e.g., mark-up languages for web retrieval systems 006.7, record formats for bibliographic retrieval systems 025.3
- For computer science aspects of information storage and retrieval systems, of databases, see 005.74; for information storage and retrieval systems, bibliographies of web sites, digital libraries devoted to specific subjects, see 025.06. For a specific kind of information storage and retrieval system, see the kind, e.g., online catalogs 025.3*
- See also 658.4 for management use of information storage and retrieval systems*
- See Manual at 025.04, 025.06 vs. 005.74*
- .042           World Wide Web
- Including semantic web
- Class here interdisciplinary works on World Wide Web [formerly 004.67]; digital libraries, Internet viewed as an information storage and retrieval system, Internet literacy
- Class interdisciplinary works on Internet in 004.67
- For specific aspects of World Wide Web, see the aspect, e.g., computer science aspects of World Wide Web 004.67*
- See Manual at 004.67 vs. 006.7, 025.042, 384.3*
- .042 2        Web sites
- Class here directories of web sites, portals
- See Manual at 011 vs. 005.3029, 016.0053, 025.0422*
- .042 5        Search and retrieval
- Standard subdivisions are added for either or both topics in heading
- Including recall, precision, relevance
- Class here Internet searching
- .042 52       Search engines
- See also 658.8 for search engine optimization*

.06 Information storage and retrieval systems devoted to specific subjects

Class here bibliographies of web sites devoted to specific subjects, digital libraries devoted to specific subjects, documentation of specific subjects

Class geographic information systems (GIS) in 910.285

*See Manual at 025.04, 025.06 vs. 005.74*

[.060 001–.060 009] Standard subdivisions

Do not use; class in 025.0401–025.0409

**.1 Administration**

Including finance; duplication services (reprography); photocopying (photoduplication) services, printing services; administration of specific types of institutions

Class government financial support in 021.8; class publishing by libraries, archives, information centers in 070.5; class interdisciplinary works on photocopying in 686.4. Class administration of a specific function with the function, plus notation 068 from Table 1, e.g., administration of cataloging 025.3068; class administration of a specific function in a specific type of institution with the function, e.g., administration of a map collection in a map library 025.17

*For administration of physical plant, see 022; for personnel management, see 023. For user fees for a specific service, see the service, plus notation 068 from Table 1, e.g., fees for automated information search and retrieval 025.04068*

.17 Administration of collections of special materials

Class here nonbook materials, comprehensive works on treatment of special materials

*For a specific kind of treatment of special materials, see the kind, e.g., acquisition of and collection development for materials in special forms 025.2*

**.2 Acquisitions and collection development**

Standard subdivisions are added for acquisitions and collection development together, for acquisitions alone

Including acquisition of and collection development for specific types of materials (e.g., acquisition of and collection development for materials on specific subjects, acquisition of and collection development for materials in special forms, acquisition of and collection development for materials from geographic areas); collection analysis, evaluation, management; cooperative collection development; selection policy and procedures; acquisition through purchase; acquisition through exchange, gift, deposit

Class interdisciplinary works on censorship in 363.31

*For policies and practices relating to intellectual freedom in a library operation other than collection development, see the operation, e.g., circulation services 025.6*

**.3 Bibliographic analysis and control**

Including cataloging in publication, International Standard Book Numbers (ISBNs); the catalog; descriptive cataloging; descriptive cataloging codes, e.g., Resource Description and Access; cataloging, classification, indexing of special materials; nonbook materials; cooperative cataloging, classification, indexing; recataloging, reclassification, reindexing; comprehensive works on catalogs [formerly 017]

Class here standards for bibliographic analysis and control; comprehensive works on cataloging and classification, on indexing, on information storage

Class comprehensive works on online catalogs integrated with information storage and retrieval systems in 025.04; class comprehensive works on treatment of special materials in 025.17

*For subject analysis and control, subject authorities, see 025.4. For information storage using a specific system, see the system, e.g., information storage through coordinate indexing 025.4*

*See also 025.04 for comprehensive works on information storage and retrieval systems*

**.302 Miscellany**

Do not use for standards; class in 025.3

**.302 85 Computer applications**

Class machine-readable record formats, data entry, conversion to machine-readable form, computer sorting of records in 025.3.  
Class data files and databases used for a specific purpose with the purpose, e.g., online catalogs 025.3

**.4 Subject analysis and control**

Including abstracting, comprehensive works on abstracting and subject indexing; classification and shelflisting; general classification systems (e.g., Dewey Decimal Classification, Universal Decimal Classification, Library of Congress Classification, Bliss Bibliographic Classification, Colon Classification); classification of specific subjects; subject indexing and cataloging; precoordinate indexing, coordinate and postcoordinate indexing; general controlled subject vocabularies (subject authority files, subject headings, thesauri); comprehensive works on subject indexing and cataloging using natural language and controlled vocabulary; subject cataloging and indexing based on natural language; subject cataloging and indexing of specific subjects

Class here standards for subject analysis and control

Class use of classification for search and navigation in information storage and retrieval systems in 025.04; class classification of special materials, cooperative classification, reclassification, subject cataloging and indexing of special materials, cooperative subject cataloging and indexing, recataloging and reindexing in 025.3; class composition of abstracts in 808

**.402 Miscellany**

Do not use for standards; class in 025.4

- .402 8                    Auxiliary techniques and procedures; apparatus, equipment, materials  
                                   Use of this number for abstracting techniques discontinued; class in  
                                   025.4

**.5            Services for users**

Works intended for staff or users

Including reference and information services; information and referral services, services that involve the use or assistance in the use of information tools but not the creation of them, virtual reference services; reader advisory services to individuals and groups; orientation and bibliographic instruction for users; library use studies

Class library services to special groups and organizations in 027.6; class the use of books and other media as sources of information in 028.7; class comprehensive works on the creation and use of information storage and retrieval systems in 025.04; class comprehensive works on the creation and use of specific tools for bibliographic control in 025.3. Class information search and retrieval using a specific system with the system, e.g., searching an information storage and retrieval system devoted to medicine 025.06; class studies of use of a specific system and service with the system or service, e.g., catalog use studies 025.3, studies of use of interlibrary loans 025.6

*For a specific service not provided for here, see the service, e.g., photocopying services 025.1*

**.6            Circulation services**

Including reserve collections; interlibrary loans

Class here document delivery

Class circulation services for special groups and organizations in 027.6

**.7            Physical preparation for storage and use**

Including binding, labeling, pocketing

Class conservation and preservation in 025.8

Repair and restoration relocated to 025.8

**.8            Maintenance and preservation of collections**

Including physical arrangement and access to collections; security against theft and other hazards; repair and restoration [*both formerly* 025.7]; conservation, digital preservation

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**>            026–027    Specific kinds of institutions**

Class here specific libraries, archives, information centers, and their collections; systems and networks for specific kinds of institutions; comprehensive works on operations in specific kinds of institutions

Class comprehensive works in 027. Class a specific operation in a specific kind of institution with the operation, e.g., reference and information services in college libraries 025.5

## 026 Libraries, archives, information centers devoted to specific subjects

Class here information organizations and library departments and collections in specific subjects; comprehensive works on special libraries

*For special libraries not devoted to specific subjects, see 027.6*

*See Manual at 016 vs. 026, T1—07*

- .000 1–.000 5 Standard subdivisions
- .000 6 Organizations
- [.000 68] Management
  - Do not use; class in 025.1
- .000 7–.000 9 Standard subdivisions

## 027 General libraries, archives, information centers

Standard subdivisions are added for any or all topics in heading

In the subdivisions of this number, the term libraries is used as a short way of saying libraries, archives, information centers, media centers

Including private and family libraries; proprietary libraries; rental libraries

Class here comprehensive works on libraries, on archives, on information centers, on libraries and information centers devoted to special materials

*For libraries, archives, information centers devoted to specific subjects, see 026*

- .001–.005 Standard subdivisions
- .006 Organizations
- [.006 8] Management
  - Do not use for plant management; class in 022. Do not use for personnel management; class in 023. Do not use for other aspects of management, for comprehensive works on management; class in 025.1
- .007 Education, research, related topics
- .008 Groups of people
  - Do not use for minorities; class in 027.6
- [.008 3] Young people
  - Do not use; class in 027.62
- .008 4 People in specific stages of adulthood
  - Do not use for people in late adulthood; class in 027.62
- .008 6 People by miscellaneous social attributes
  - Do not use for people with social disadvantages; class in 027.6

- .008 7            People with disabilities and illnesses, gifted people  
                     Do not use for people with disabilities; class in 027.6
- .009            History and biography  
                     Do not use for geographic treatment; class in 027.01–027.09
- .01–.09        \*Geographic treatment  
                     Add to base number 027.0 notation 1–9 from Table 2, e.g., libraries in France 027.044
- .4            \*Public libraries**  
                     Including library outreach programs; library extension, the use of bookmobiles (mobile libraries) in public librarianship  
                     Class here public library branches  
                     Class public library units for special groups and organizations in 027.6
- [.409 3–.409 9]    Specific continents, countries, localities  
                     Do not use; class in 027.43–027.49
- .43–.49        \*Specific continents, countries, localities  
                     Add to base number 027.4 notation 3–9 from Table 2, e.g., public libraries in France 027.444
- .5            \*Government libraries**  
                     National, state, provincial, local  
                     Including overseas information libraries [*formerly* 027.6]  
                     *For legislative reference bureaus, see 027.6*
- .508            Government libraries for groups of people [*formerly also* 027.6]
- .509            History, geographic treatment, biography
- .509 3–.509 9    Specific continents, countries, localities  
                     Class specific institutions in 027.53–027.59
- .53–.59        \*Specific institutions  
                     Add to base number 027.5 notation 3–9 from Table 2 for area served, e.g., Library of Congress 027.573

\*Do not add notation 068 from Table 1; class in 025.1

**.6 \*Libraries for special groups and organizations**

Including libraries for minorities; legislative reference bureaus; parliamentary libraries; welfare institution libraries (e.g., hospital libraries, libraries for people with disabilities, prison libraries); libraries for religious organizations; libraries for nonprofit organizations; libraries for business and industrial organizations

Class here library and information services to special groups and organizations, to the socially disadvantaged

Class libraries for special groups and organizations devoted to specific subjects in 026

*For medical libraries, see 026; for libraries for educational institutions, see 027.7–027.8*

Overseas information libraries relocated to 027.5; government libraries for groups of people relocated to 027.508

**.62 Libraries for specific age groups**

Including libraries for people in late adulthood; libraries for children; libraries for young people aged twelve to twenty

**> 027.7–027.8 Libraries for educational institutions**

Class here instructional media centers

Class comprehensive works in 027.7

**.7 \*College and university libraries**

Standard subdivisions are added for either or both topics in heading

Including comprehensive works on instructional materials centers

Class here comprehensive works on libraries for educational institutions, college and university library branches

*For libraries and instructional materials centers in primary and secondary schools, see 027.8*

.709 3–.709 9 Specific continents, countries, localities

Class specific institutions in 027.73–027.79

.73–.79 \*Specific institutions

Add to base number 027.7 notation 3–9 from Table 2, e.g., Perkins Library of Duke University 027.7756

**.8 \*School libraries**

Including school resource centers; specific levels and specific libraries; libraries in religious schools

.809 3–.809 9 Specific continents, countries, localities

Class specific institutions in 027.8

\*Do not add notation 068 from Table 1; class in 025.1



## 028 Reading and use of other information media

Including use of books and other information media as sources of recreation and self-development; reading interests and habits

[.083] Young people

Do not use; class in 028.5

### .1 Reviews

Including reviews of reference works; reviews of works published in specific forms; reviews of works for specific kinds of users

Class here general collections of book reviews

Class reviews of computer programs in 005.3029; class techniques of reviewing in 808. Class reviews of a specific kind of reference work with the kind, e.g., reviews of encyclopedias 030; class reviews of works on a specific subject with the subject, e.g., reviews of works on chemistry 540, reviews of entertainment films 791.43, critical appraisal of literature 800

.108 Reviews for and by groups of people

.108 3 Reviews by young people

Do not use for reviews of works for young people; class in 028.1

.108 7 Reviews by people with disabilities and illnesses; reviews for and by gifted people

Do not use for reviews of works for people with disabilities; class in 028.1

### .5 Reading and use of other information media by young people

Standard subdivisions are added for either or both topics in heading

Including reading and use of other information media by specific age groups; reading interests and habits of young people

*See also 028.1 for reviews of materials for young people*

### .7 Use of books and other information media as sources of information

Standard subdivisions are added for either or both topics in heading

Class here use of reference works

[.708 3] Young people

Do not use; class in 028.5

## [029] [Unassigned]

Most recently used in Edition 10

## 030 General encyclopedic works

Class here almanacs with general information; books of miscellaneous, curious, unusual facts; encyclopedia yearbooks

**.9 History, geographic treatment, biography**

Class history, geographic treatment, biography of encyclopedic works in specific languages and language families in 031–039

**> 031–039 General encyclopedic works in specific languages and language families**

By language in which originally written

Class here specific encyclopedias and books of miscellaneous facts, works about them

Class comprehensive works, encyclopedic works originally written in two or more languages or language families in which no language or language family is predominant in 030. Class encyclopedic works originally written in two or more languages or language families in which one language or language family is predominant with the predominant language or language family, e.g., encyclopedic work written in Spanish with some articles in French 036

**031 General encyclopedic works in American English**

English-language encyclopedias and books of miscellaneous facts originating in Western Hemisphere

**.02 Books of miscellaneous facts**

Do not use for other types of miscellany; class in 031

Class here almanacs with general information, books of curious and unusual facts

**032 General encyclopedic works in English**

*For general encyclopedic works in American English, see 031*

**.02 Books of miscellaneous facts**

Do not use for other types of miscellany; class in 032

Class here almanacs with general information, books of curious and unusual facts

**033 General encyclopedic works in other Germanic languages**

Including general encyclopedic works in German and German dialects; general encyclopedic works in Yiddish and Low Germanic languages

Class here comprehensive works on Germanic-language encyclopedias

*For English-language encyclopedias, see 032; for Scandinavian-language encyclopedias, see 038*

**034 General encyclopedic works in French, Occitan, Catalan****035 General encyclopedic works in Italian, Dalmatian, Romanian, Rhaetian, Sardinian, Corsican**

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- 036**      **General encyclopedic works in Spanish, Portuguese, Galician**
- 037**      **General encyclopedic works in Slavic languages**
- 038**      **General encyclopedic works in Scandinavian languages**
- 039**      **General encyclopedic works in other languages**
- [040]**    **[Unassigned]**  
            Most recently used in Edition 8
- [041]**    **[Unassigned]**  
            Most recently used in Edition 8
- [042]**    **[Unassigned]**  
            Most recently used in Edition 8
- [043]**    **[Unassigned]**  
            Most recently used in Edition 8
- [044]**    **[Unassigned]**  
            Most recently used in Edition 8
- [045]**    **[Unassigned]**  
            Most recently used in Edition 8
- [046]**    **[Unassigned]**  
            Most recently used in Edition 8
- [047]**    **[Unassigned]**  
            Most recently used in Edition 8
- [048]**    **[Unassigned]**  
            Most recently used in Edition 8
- [049]**    **[Unassigned]**  
            Most recently used in Edition 8

## 050 General serial publications

Class here periodicals; indexes to general serial publications

Class books of miscellaneous facts (even if published annually, e.g., almanacs), encyclopedia yearbooks in 030; class administrative reports and proceedings of general organizations in 060. Class indexes that focus on a specific subject in general serial publications with the subject in 016, e.g., an index to information on medicine in general serial publications 016.61

*For newspapers, see 070*

*See also 011 for bibliographies of general serial publications, for bibliographies of directories; also 017–019 for catalogs of general serial publications*

### .9 History, geographic treatment, biography

Class history, geographic treatment, biography of serial publications in specific languages and language families in 051–059

## > 051–059 General serial publications in specific languages and language families

By language in which originally written

Class here specific serial publications and works about them

Class comprehensive works, serials originally written in two or more languages or language families in which no language or language family is predominant in 050. Class serials originally written in two or more languages or language families in which one language or language family is predominant with the predominant language or language family, e.g., serial written in Spanish with some articles in French 056

(Option: Arrange serial publications alphabetically under 050)

### 051 General serial publications in American English

English-language serial publications of Western Hemisphere

### 052 General serial publications in English

*For general serial publications in American English, see 051*

### 053 General serial publications in other Germanic languages

Including general serial publications in German and German dialects; general serial publications in Yiddish and Low Germanic languages

Class here comprehensive works on general serial publications in Germanic languages

*For English-language serial publications, see 052; for Scandinavian-language serial publications, see 058*

### 054 General serial publications in French, Occitan, Catalan

**055 General serial publications in Italian, Dalmatian, Romanian, Rhaetian, Sardinian, Corsican**

**056 General serial publications in Spanish, Portuguese, Galician**

**057 General serial publications in Slavic languages**

**058 General serial publications in Scandinavian languages**

**059 General serial publications in other languages**

**060 General organizations and museology**

General organizations: academies, associations, conferences, congresses, foundations, societies whose activity is not limited to a specific field

Including history, charters, regulations, membership lists, administrative reports and proceedings

Class here interdisciplinary works on organizations; interdisciplinary works on licensing, certification, accreditation by nongovernmental organizations

Class history, charters, regulations, membership lists, administrative reports and proceedings of a specific organization in 061–068; class interdisciplinary works on licensing, certification, accreditation by governmental and nongovernmental bodies in 352.8

*For interdisciplinary works on intergovernmental organizations, see 341.2. For organizations devoted to a specific subject, see the subject, plus notation 06 from Table 1, e.g., organizations devoted to computer science 004.06*

*See Manual at T1—025 vs. T1—029*

**.4 Special topics of general organizations**

Including general rules of order (parliamentary procedure)

*For rules and procedures of legislative bodies, see 328*

[.401–.409] Standard subdivisions

Do not use; class in 060.4

**.9 History and biography**

Do not use for geographic treatment of general organizations; class in 061–068

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**> 061–068 General organizations**

Class comprehensive works in 060

**061 General organizations in North America**

Including general organizations in Canada; general organizations in United States

*For organizations in Middle America, organizations in Hawaii, see 068*

**062 General organizations in British Isles**

Class here general organizations in England

**063 General organizations in Germany and neighboring central European countries**

Standard subdivisions are added for Germany and neighboring central European countries together, for Germany alone

Class here general organizations in central Europe

**064 General organizations in France and Monaco**

Standard subdivisions are added for France and Monaco together, for France alone

**065 General organizations in Italy, San Marino, Vatican City, Malta**

Standard subdivisions are added for Italy, San Marino, Vatican City, Malta together; for Italy alone

**066 General organizations in Spain, Andorra, Gibraltar, Portugal**

Standard subdivisions are added for Spain, Andorra, Gibraltar, Portugal together; for Spain alone

**067 General organizations in Russia and neighboring east European countries**

Standard subdivisions are added for Russia and neighboring east European countries together, for Russia alone

*For organizations in Balkan Peninsula, organizations in commonwealth of independent states in asia, see 068*

**068 General organizations in other geographic areas**

## 069 Museology (Museum science)

Including museum services to patrons; organization of production; management and use of physical plant; equipment, furniture, furnishings; collecting and preparing museum objects; management of collecting and preparing museum objects, interdisciplinary works on collecting objects; collections and exhibits of museum objects; comprehensive works on management of museum materials, on collecting or preparing museum objects and collections of museum objects; interdisciplinary works on collecting and collections together, on collections alone; personnel management, regulations for patrons, relations with other organizations

Class here government policy on museums

Class historic preservation in 363.6; class public relations for museums in 659.2. Class collecting a specific kind of object or objects that pertain to a specific subject with the subject, plus notation 075 from Table 1, e.g., collecting fossils 560.75

*For collections of a specific kind of object or objects that pertain to a specific subject, see the subject, plus notation 074 from Table 1, e.g., collections of fossils 560.74; for museum activities and services limited to a specific subject, see the subject, plus notation 075 from Table 1, e.g., activities and services of an aerospace museum 629.1075*

- .028            Auxiliary techniques and procedures; apparatus, equipment, materials  
                   Do not use for maintenance and repair of museum objects; class in 069
- [.068]        Management  
                   Do not use; class in 069
- .074            Museums, collections, exhibits  
                   Limited to museums, collections, exhibits about museology  
                   Class comprehensive works on museums, comprehensive works on collections and exhibits in 069
- .075            Museum activities and services  
                   Limited to museums about and collecting objects related to museology  
                   Class comprehensive works on museum services to patrons, comprehensive works on collecting and preparing museum objects in 069
- .09            History, geographic treatment, biography  
                   Class here specific museums not limited to a specific subject  
                   Class history, geographic treatment, biography of museum buildings in 069.209. Class museums devoted to a specific subject with the subject, plus notation 074 from Table 1, e.g., natural history museums 508.074

## 070 Documentary media, educational media, news media; journalism; publishing

Standard subdivisions are added for documentary media, educational media, news media, journalism, publishing together; for journalism and newspapers alone; for newspapers alone

## SUMMARY

- 070.01–.09**      **Standard subdivisions**  
**.1–.9**      **[Documentary media, educational media, news media; journalism; publishing]**
- 071**      **Journalism and newspapers in North America**  
**072**      **Journalism and newspapers in British Isles**  
**073**      **Journalism and newspapers in Germany and neighboring central European countries**  
**074**      **Journalism and newspapers in France and Monaco**  
**075**      **Journalism and newspapers in Italy, San Marino, Vatican City, Malta**  
**076**      **Journalism and newspapers in Spain, Andorra, Gibraltar, Portugal**  
**077**      **Journalism and newspapers in Russia and neighboring east European countries**  
**078**      **Journalism and newspapers in Scandinavia**  
**079**      **Journalism and newspapers in other geographic areas**
- .01–.08**      Standard subdivisions
- .09**      History, geographic treatment, biography
- Do not use for history and biography of journalism and newspapers; class in 070.9. Do not use for geographic treatment of journalism and newspapers; class in 071–079
- .1**      **Documentary media, educational media, news media**
- Including print media; motion pictures; broadcast media
- Class here comprehensive works on journalism and production of specific documentary, educational, news media
- Class the book in 002; class radio and television news programs in 070.4; class newspaper publishing in 070.5; class photography aspects, photographic aspects in 777; class comprehensive works on newspapers in 070; class comprehensive works about documentary, educational, news and dramatic or entertainment films in 791.43; class comprehensive works on documentary, educational, news and dramatic or entertainment radio programs in 791.44; class comprehensive works on documentary, educational, news and dramatic or entertainment television programs in 791.45; class interdisciplinary works on mass media in 302.23; class interdisciplinary works on motion pictures in 384; class interdisciplinary works on radio in 384.54; class interdisciplinary works about television in 384.55. Class a newspaper on a specific subject with the subject, plus notation 05 from Table 1, e.g., a newspaper on computers 004.05; class a serial publication on a specific subject with the subject, plus notation 05 from Table 1, e.g., science journals 505; class documentary, educational, news works themselves and discussion of them with the kind of general work or the subject, e.g., general periodicals 050, recorded television programs on investing 332.6
- For specific topics of journalism in specific media, see 070.4; for expository writing and editorial techniques, see 808*



**.4 Journalism**

Including editing; editorial policy (selection, presentation, display of news; advocacy of specific points of view); reporting and news gathering; newsreels, radio news programs, television news programs, other news programs; features and specific subjects; newspaper columns; techniques and procedures for information-gathering, writing, editing for features and specific subjects; journalism directed to special groups; pictorial journalism; photojournalism

Class here specific topics of journalism in specific media

Class journalists whose careers span many activities in 070.92; class freedom of the press in 323.44; class press control in 363.31; class school journalism in 371.8; class biographies of cartoonists in 741.5; class journalistic composition and editorial mechanics in 808.06; class comprehensive works on journalism and information media in 070; class comprehensive works on journalism of specific media in 070.1. Class journalism of serial publications on a specific subject with the subject in 001–999, plus notation 05 from Table 1, e.g., journalism of science journals 505; class journalism of a specific general serial publication with the language of the publication in 051–059, e.g., journalism of a French periodical 054; class journalism of a specific newspaper with the place of publication of the newspaper in 071–079, e.g., journalism of an Arab-language newspaper published in Paris 074; class reports, criticisms, opinions on a specific subject with the subject, e.g., health columns 613; class biographies of a humorous writer with the writer in 800, e.g., a contemporary British writer of humorous essays 824

*For student journalism, see 371.8*

*See also 070.5 for newspaper publishing; also 174.907 for ethics of journalism*

**.408 Journalism for and by groups of people****.408 1 Journalism by people by gender or sex**

Do not use for journalism for people by gender or sex; class in 070.4

**.408 11 Journalism by men**

Do not use for journalism for men; class in 070.4

**.408 2 Journalism by women**

Do not use for journalism for women; class in 070.4

**.408 3 Journalism by young people**

Do not use for journalism for young people; class in 070.4

**.408 35 Journalism by young people twelve to twenty**

Do not use for journalism for young people twelve to twenty; class in 070.4

**.408 8 Journalism by occupational and religious groups**

Do not use for journalism for occupational and religious groups; class in 070.4

**.408 9 Journalism by ethnic and national groups**

Do not use for journalism for ethnic and national groups; class in 070.4

- [.409] History, geographic treatment, biography  
Do not use for history and biography; class in 070.9. Do not use for geographic treatment; class in 071–079

## **.5 Publishing**

Including selection and editing of manuscripts; relations with authors; kinds of publications (e.g., serial publications, specific kinds of books); kinds of publishers (e.g., commercial publishers, private publishers, institutional publishers, governmental and intergovernmental publishers)

Class here book publishing; publishers regardless of their field of activity; book clubs, e.g., Book-of-the-Month Club<sup>®</sup>; comprehensive works on publishing and printing

Class specific publishers regardless of kind of publication in 070.5093–070.5099; class works on desktop publishing that emphasize typography in 686.2; class editorial techniques in 808.02; class comprehensive works on journalism and publishing of serial publications in 070.1; class interdisciplinary works on composition, preparation of manuscript, publishing in 808.02

*For printing, see 686.2*

- .502 9 Commercial miscellany  
Class publishers' catalogs in 015
- .509 3–.509 9 Specific continents, countries, localities  
Class here specific publishers, using the area number for the publisher's main office, e.g., U.S. Government Printing Office 070.509753, University of California Press 070.509794

## **.9 History and biography of journalism and newspapers**

Class history of specific topics of journalism in 070.4

- [.91] Areas, regions, places in general  
Do not use; class in 079
- .92 Biography regardless of area, region, place  
Class persons associated with specific aspects of journalism in 070.4
- [.93–.99] Specific continents, countries, localities  
Do not use; class in 071–079

## **> 071–079 Geographic treatment of journalism and newspapers**

Class here specific general newspapers regardless of language, indexes to them, other works about them

Class geography of specific topics of journalism in 070.4; class biography of journalism and newspapers regardless of area in 070.92; class comprehensive works in 070

(Option: Arrange newspapers alphabetically under 070)

**071 Journalism and newspapers in North America**

Including journalism and newspapers in Canada; journalism and newspapers in the United States

*For journalism and newspapers in Middle America, journalism and newspapers in Hawaii, see 079*

**072 Journalism and newspapers in British Isles****073 Journalism and newspapers in Germany and neighboring central European countries**

Standard subdivisions are added for Germany and neighboring central European countries together, for Germany alone

Class here journalism and newspapers in central Europe

**074 Journalism and newspapers in France and Monaco**

Standard subdivisions are added for France and Monaco together, for France alone

**075 Journalism and newspapers in Italy, San Marino, Vatican City, Malta**

Standard subdivisions are added for Italy, San Marino, Vatican City, Malta together; for Italy alone

**076 Journalism and newspapers in Spain, Andorra, Gibraltar, Portugal**

Standard subdivisions are added for Spain, Andorra, Gibraltar, Portugal together; for Spain alone

**077 Journalism and newspapers in Russia and neighboring east European countries**

Standard subdivisions are added for Russia and neighboring east European countries together, for Russia alone

Class here journalism and newspapers in eastern Europe

*For journalism and newspapers in Balkan Peninsula, journalism and newspapers in commonwealth of independent states in asia, see 079*

**078 Journalism and newspapers in Scandinavia****079 Journalism and newspapers in other geographic areas****080 General collections**

Class here abstracts, addresses, lectures, essays, interviews, graffiti, quotations

Class collections of brief bibliographic abstracts in 011; class essays as literary form, collections gathered for their literary quality in 800

*See Manual at 080 vs. 800*

**.9 History, geographic treatment, biography**

Class history, geographic treatment, biography of collections in specific languages and language families in 081–089

**> 081–089 General collections in specific languages and language families**

Class comprehensive works in 080

*See Manual at 081–089*

Arrange collections alphabetically under 080

**081 General collections in American English**

English-language collections of Western Hemisphere

**082 General collections in English**

*For general collections in American English, see 081*

**083 General collections in other Germanic languages**

Including general collections in German and German dialects; general collections in Yiddish and Low Germanic languages

Class here comprehensive works on Germanic-language collections

*For English-language collections, see 082; for Scandinavian-language collections, see 088; for Old-English-language (Anglo-Saxon-language) collections, see 089*

**084 General collections in French, Occitan, Catalan**

**085 General collections in Italian, Dalmatian, Romanian, Rhaetian, Sardinian, Corsican**

**086 General collections in Spanish, Portuguese, Galician**

**087 General collections in Slavic languages**

**088 General collections in Scandinavian languages**

**089 General collections in other languages**

Including Old English (Anglo-Saxon)

**090 Manuscripts, rare books, other rare printed materials**

Including rare broadsides

Class interdisciplinary works on books in 002. Class a manuscript or rare work on a specific subject with the subject, e.g., a book of hours 242; class an artistic aspect of a manuscript or rare book with the aspect, e.g., illumination 745.6

*See also 011 for bibliographies of manuscripts and rare books*

**091 Manuscripts**

*See also 011 for bibliographies of manuscripts*

**092 Block books****093 Incunabula**

Books printed before 1501

*See also 011 for bibliographies of incunabula*

**094 Printed books**

Including early printed books; special editions

*For block books, see 092; for incunabula, see 093*

**095 Books notable for bindings**

*See also 686.3 for bookbinding*

**096 Books notable for illustrations and materials**

Class illustrated manuscripts in 091

**097 Books notable for ownership or origin**

Standard subdivisions are added for either or both topics in heading

**098 Prohibited works, forgeries, hoaxes****099 Books notable for format**

Including books of unusual shapes, miniature editions