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MATRIC NO: **17/SCI01/068**

COURSE CODE: **CSC 302**

**ASSIGNMENT**

1i).

|  |  |  |
| --- | --- | --- |
| **UNSTRUCTURED** | | |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| Assembly Language |  | 1949 |
| FORTRAN | John Backus | 1957 |
| COBOL | CODASYL, ANSI, ISO | 1959 |
| JOSS | Cliff Shaw, RAND | 1963 |
| BASIC | John G. Kemeny, Thomas E. Kurtz | 1964 |
| TELCOMP | BBN | 1965 |
| MUMPS | Neil Pappalardo | 1966 |
| FOCAL | Richard Merrill, DEC | 1968 |

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| --- | --- | --- |
| **STRUCTURED** | | |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| ALGOL 58 | Friedrich L. Bauer, and co. | 1958 |
| ALGOL 60 | Backus, Bauer and co. | 1960 |
| ABC | CWI | 1980 |
| Ada | United States Department of Defence | 1980 |
| Accent R | NIS | 1980 |
| Action! | Optimized Systems Software | 1983 |
| Alef | Phil Winterbottom | 1992 |
| DASL | Sun Micro-systems Laboratories | 1999-2003 |

|  |  |  |
| --- | --- | --- |
| **MODULAR** | | |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| ALGOL W | Niklaus Wirth, Tony Hoare | 1966 |
| APL | Larry Breed, Dick Lathwell and co. | 1966 |
| ALGOL 68 | 1. Van Wijngaarden and co. | 1968 |
| AMOS BASIC | FranÇois Lionet anConstantin Stiropoulos | 1990 |
| Alice ML | Saarland University | 2000 |
| Agda | Ulf Norell;Catarina coquand(1.0) | 2007 |
| Arc | Paul Graham, Robert Morris and co. | 2008 |
| Bosque | Mark Marron | 2019 |

|  |  |  |
| --- | --- | --- |
| **OBJECT-ORIENTED** | | |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| C\* | Thinking Machine | 1987 |
| Actor | Charles Duff | 1988 |
| Aldor | Thomas J. Watson Research Center | 1990 |
| Amiga E | Wouter van Oortmerssen | 1993 |
| Action Script | Macromedia | 1998 |
| BeanShell | JCP | 1999 |
| AngelScript | Andreas Jönsson | 2003 |
| Boo | Rodrigo B. De Oliveria | 2003 |
| Ambient Talk | Software languages lab, University of Brussels | 2006 |
| Axum | Microsoft | 2009 |

|  |  |  |
| --- | --- | --- |
| **ASPECT ORIENTED** | | |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| ML | Robin Milner and others | 1973 |
| MATLAB | Math Works | 1984 |
| Perl | Lary Wall | 1987 |
| e | Yoav Hollander | 1992 |
| Lua | Roberto lerusalimschy and co. | 1993 |
| UML | Grady Booch, Ivar Jacobson and James Rumbaugh | 1994 |
| Racket | PLT Inc. | 1995 |
| LogTalk | Paulo Moura | 1998 |

|  |  |  |
| --- | --- | --- |
| **EVENT-ORIENTED** | | |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| C# | Microsoft | 2000 |
| Visual Basic .Net | Microsoft | 2002 |
| Visual C++ | Microsoft | 2001 |
| Java | Sun Micro Systems | 1995 |
| Common Lisp | |  |  | | --- | --- | |  | Scott Fahlman | | 1984 |
| APL | Kenneth E. Iverson | 1966 |
| Go | Robert Griesemer | 2009 |
| AutoIt | Jonathan Bennett | 1999 |

1ii)

1. Scientific Domain

|  |  |  |
| --- | --- | --- |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| FORTRAN | John Backus and IBM | 1950 |
| APT | Douglas T. Ross | 1956 |
| PL/I | IBM | 1964 |
| AMPL | AMPL Optimization,Inc. | 1966 |
| MATLAB | MathWorks | 1984 |
| J | Kenneth E, Iverson, Roger Hui | 1990 |
| Ch | Harry H. Cheng | 2001 |
| Julia | Jeff Bezanson, Alan Edelman and co. | 2012 |
| Cuneiform | Jorgen Brandt | 2013 |
| F | The Fortran Company |  |

1. Business Domain

|  |  |  |
| --- | --- | --- |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| FLOW-MATIC | Remington Rand and Grace Hopper | 1955 |
| COMTRAN | Bob Bemer | 1957 |
| COBOL | CODASYL, ANSI, ISO | 1959 |
| APL | Larry Breed, Dick Lathwell and co. | 1966 |
| DIBOL | DEC | 1970 |
| PL/B | Datapoint | 1972 |
| DAX | Microsoft | 2009 |

1. Artificial Intelligence Domain

|  |  |  |
| --- | --- | --- |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| IPL | Allen Newell, Cliff Shaw, Herbert A. Simon | 1956 |
| Lisp | Steve Russell, Timothy P. Hart, Mike Levin | 1958 |
| PLANNER | Carl Hewitt | 1969 |
| STRIPS | Richard Fikes and Nils Nilson | 1971 |
| Prolog | Alain Colmerauer, Robert Kowalski | 1972 |
| Wolfram | Stephen Wolfram | 1988 |
| R | Ross Ihaka and Robert Gentleman | 1993 |
| AIML | Dr. Richard S. Wallace | 2001 |

1. General Purpose

|  |  |  |
| --- | --- | --- |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| C | Dennis Ritchie and Bell Labs | 1972 |
| C++ | Bjarne Stroustrup | 1985 |
| Caml | Gérard Huet, Guy Cousineau and co. | 1985 |
| Clean | Software Technology Research Group of Radbound University Nijmegen | 1987 |
| Cilk | MIT Laboratory for Computer Science | 1994 |
| Boo | Rodrigo B. De Oliveria | 2003 |
| Citrine | Gabor de Mooji | 2014 |
| Ballerina | WSO2 | 2017 |

1. Web Programming

|  |  |  |
| --- | --- | --- |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| Apple Script | Apple | 1993 |
| Adobe ColdFusion | 1. J. Allaire | 1995 |
| CSS | Hakon Wium Lie, Bert Bos | 1996 |
| ECMAScript | Brendan Erich, Ecma International | 1997 |
| Curl | Steve Ward,MIT | 1998 |
| COBOL Script | Matthew Dean and Charles Schereda | 1999 |
| Coffee Script | Jeremy Ashkenas | 2009 |
| Elm | Evan Czaplicki | 2012 |

1. Mobile Programming

|  |  |  |
| --- | --- | --- |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| Java | Sun Micro Systems | 1995 |
| JavaFX | Sun Micro Systems | 2009 |
| Kotlin | JetBrains | 2011 |
| Dart | Lars Bak and Kasper Lund | 2011 |
| Delphi | Embarcadero Technologies | 2016 |
| DataFlex | Data Access Worldwide | 2019 |

1. Embedded Devices

|  |  |  |
| --- | --- | --- |
| **LANGUAGE** | **DEVELOPER** | **YEAR** |
| Assembly Language |  | 1949 |
| CMS-2 | RAND, Intermetrics | 1968 |
| B | Ken Thompson | 1969 |
| Fourth | Charles H. Moore | 1970 |
| C | Dennis Ritchie and Bell Labs | 1972 |
| Verilog | Prabhu Goel, Phil Moorby and Chilai Huang and co. | 1983 |
| C++ | Bjarne Stroustrup | 1985 |
| Lua | Roberto lerusalimschy and co. | 1993 |
| GO | Robert Griesemer, Rob Pike, Ken Thompson | 2009 |
| Rust | Graydon Hoare | 2010 |

1iii)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Language** | **Year** | **Classification** | **Author** | **Paradigm** | **Cases** |
| RPG | 1959 | Compiled | IBM | Multi-paradigm | Business |
| JOVIAL | 1960 | Compiled | System Development Corporation | Structured | Embedded Systems |
| C | 1972 | Compiled | Dennis Ritchie | Structured | Embedded Systems |
| IDL | 1977 | Hybrid | David Sterns and ITT VIS | Vector Oriented | Science |
| C++ | 1985 | Compiled | Bjarne Stroustrup | OOP | Web Services |
| Python | 1990 | Interpreted | Guido Van Rossum | OOP | General Purpose |
| KiXtart | 1991 | Interpreted | Ruud Van Velsen | Scripting | Embedded Systems |
| Java | 1995 | Compiled | Sun Micro Systems | OOP | Mobile Applications |
| Java Script | 1995 | Compiled | Brendan Eich and co. | Event Oriented | Web Applications |
| JScript | 1996 | Interpreted | Microsoft | Scripting | Web Applications |
| Jython | 1997 | Hybrid | Python Programs | Multi-paradigm | Web Services |
| Io | 2002 | Interpreted | Steve Dekorte | OOP |  |
| Visual Basic .Net | 2002 | Compiled | Microsoft | Event Oriented | Web Applications |
| Hop | 2006 | Interpreted | Manuel Serrano | Multi-paradigm | Web applications |
| Idris | 2007 | Compiled | Edwin Brady | Functional | General Purpose |
| JavaFX | 2009 | Compiled | Sun Microsystems | Scripting | Desktop and mobile app development |
| Kojo | 2010 | Compiled | Lalit Pant | OOP | Educational |
| Kotlin | 2011 | Compiled | JetBrains | Multi-paradigm | Mobile Application |
| Julia | 2012 | Compiled | Jeff Bezanson and co. | Multi-paradigm | General Purpose |

2. Below is a chronological order of programming languages.

| **Year** | **Name** | **Chief developer, company** | **Predecessor(s)** |
| --- | --- | --- | --- |
| 1804 | [Jacquard Loom](https://en.wikipedia.org/wiki/Jacquard_Loom) | [Joseph Marie Jacquard](https://en.wikipedia.org/wiki/Joseph_Marie_Jacquard) | none (unique language) |
| 1943–45 | [Plankalkül](https://en.wikipedia.org/wiki/Plankalk%C3%BCl) (concept) | [Konrad Zuse](https://en.wikipedia.org/wiki/Konrad_Zuse) | none (unique language) |
| 1943–46 | [ENIAC coding system](https://en.wikipedia.org/wiki/ENIAC) | [John von Neumann](https://en.wikipedia.org/wiki/John_von_Neumann), [John Mauchly](https://en.wikipedia.org/wiki/John_Mauchly), [J. Presper Eckert](https://en.wikipedia.org/wiki/J._Presper_Eckert), [Herman Goldstine](https://en.wikipedia.org/wiki/Herman_Goldstine) after [Alan Turing](https://en.wikipedia.org/wiki/Alan_Turing). The first programmers of ENIAC were [Kay McNulty](https://en.wikipedia.org/wiki/Kathleen_Antonelli), [Betty Jennings](https://en.wikipedia.org/wiki/Jean_Bartik), [Betty Snyder](https://en.wikipedia.org/wiki/Betty_Holberton), [Marlyn Meltzer](https://en.wikipedia.org/wiki/Marlyn_Wescoff), [Fran Bilas](https://en.wikipedia.org/wiki/Frances_Spence), and [Ruth Lichterman](https://en.wikipedia.org/wiki/Ruth_Teitelbaum). | none (unique language) |
| 1946 | [ENIAC Short Code](https://en.wikipedia.org/w/index.php?title=ENIAC_Short_Code&action=edit&redlink=1) | Richard Clippinger, [John von Neumann](https://en.wikipedia.org/wiki/John_von_Neumann) after [Alan Turing](https://en.wikipedia.org/wiki/Alan_Turing) | ENIAC coding system |
| 1946 | [Von Neumann and Goldstine graphing system](https://en.wikipedia.org/w/index.php?title=Von_Neumann_and_Goldstine_graphing_system&action=edit&redlink=1) (Notation) | [John von Neumann](https://en.wikipedia.org/wiki/John_von_Neumann) and [Herman Goldstine](https://en.wikipedia.org/wiki/Herman_Goldstine) | ENIAC coding system |
| 1947 | [ARC Assembly](https://en.wikipedia.org/w/index.php?title=ARC_Assembly&action=edit&redlink=1) | [Kathleen Booth](https://en.wikipedia.org/wiki/Kathleen_Booth)[[1]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-1)[[2]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-2) | ENIAC coding system |
| 1948 | [CPC Coding scheme](https://en.wikipedia.org/w/index.php?title=CPC_Coding_scheme&action=edit&redlink=1) | [Howard H. Aiken](https://en.wikipedia.org/wiki/Howard_H._Aiken) | Analytical Engine order code |
| 1948 | [Curry notation system](https://en.wikipedia.org/w/index.php?title=Curry_notation_system&action=edit&redlink=1) | [Haskell Curry](https://en.wikipedia.org/wiki/Haskell_Curry) | ENIAC coding system |
| 1948 | [Plankalkül](https://en.wikipedia.org/wiki/Plankalk%C3%BCl) (concept published) | [Konrad Zuse](https://en.wikipedia.org/wiki/Konrad_Zuse) | none (unique language) |
| 1949 | [EDSAC Initial Orders](https://en.wikipedia.org/wiki/EDSAC#System_software) | [David Wheeler](https://en.wikipedia.org/wiki/David_Wheeler_(computer_scientist)) | ENIAC coding system |
| 1949 | [Short Code](https://en.wikipedia.org/wiki/Short_Code_(computer_language)) | [John Mauchly](https://en.wikipedia.org/wiki/John_Mauchly) and William F. Schmitt | ENIAC Short Code |
| 1950 | [Short Code](https://en.wikipedia.org/wiki/Short_Code_(computer_language)) | William F. Schmidt, Albert B. Tonik,[[3]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-3) J. R. Logan | Brief Code |
| 1950 | [Birkbeck Assembler](https://en.wikipedia.org/w/index.php?title=Birkbeck_Assembler&action=edit&redlink=1) | [Kathleen Booth](https://en.wikipedia.org/wiki/Kathleen_Booth) | ARC |
| 1951 | [Superplan](https://en.wikipedia.org/wiki/Superplan) | [Heinz Rutishauser](https://en.wikipedia.org/wiki/Heinz_Rutishauser) | Plankalkül |
| 1951 | [ALGAE](https://en.wikipedia.org/w/index.php?title=ALGAE&action=edit&redlink=1) | Edward A. Voorhees and Karl Balke | none (unique language) |
| 1951 | Intermediate Programming Language | [Arthur Burks](https://en.wikipedia.org/wiki/Arthur_Burks) | Short Code |
| 1951 | [Regional Assembly Language](https://en.wikipedia.org/w/index.php?title=Regional_Assembly_Language&action=edit&redlink=1) | [Maurice Wilkes](https://en.wikipedia.org/wiki/Maurice_Wilkes) | EDSAC |
| 1951 | [Boehm unnamed coding system](https://en.wikipedia.org/w/index.php?title=Boehm_unnamed_coding_system&action=edit&redlink=1) | [Corrado Böhm](https://en.wikipedia.org/wiki/Corrado_B%C3%B6hm) | CPC Coding scheme |
| 1951 | [Klammerausdrücke](https://en.wikipedia.org/w/index.php?title=Klammerausdr%C3%BCcke&action=edit&redlink=1) | [Konrad Zuse](https://en.wikipedia.org/wiki/Konrad_Zuse) | Plankalkül |
| 1951 | [OMNIBAC Symbolic Assembler](https://en.wikipedia.org/w/index.php?title=OMNIBAC_Symbolic_Assembler&action=edit&redlink=1) | [Charles Katz](https://en.wikipedia.org/wiki/Charles_Katz) | Short Code |
| 1951 | [Stanislaus](https://en.wikipedia.org/w/index.php?title=Stanislaus_(programming_language)&action=edit&redlink=1) (Notation) | [Fritz Bauer](https://en.wikipedia.org/wiki/Friedrich_L._Bauer) | none (unique language) |
| 1951 | [Whirlwind assembler](https://en.wikipedia.org/w/index.php?title=Whirlwind_assembler&action=edit&redlink=1) | Charles Adams and Jack Gilmore at [MIT](https://en.wikipedia.org/wiki/Massachusetts_Institute_of_Technology) [Project Whirlwind](https://en.wikipedia.org/wiki/Whirlwind_(computer)) | EDSAC |
| 1951 | [Rochester assembler](https://en.wikipedia.org/w/index.php?title=Rochester_assembler&action=edit&redlink=1) | [Nat Rochester](https://en.wikipedia.org/wiki/Nathaniel_Rochester_(computer_scientist)) | EDSAC |
| 1951 | [Sort Merge Generator](https://en.wikipedia.org/wiki/Sort_Merge_Generator) | [Betty Holberton](https://en.wikipedia.org/wiki/Betty_Holberton) | none (unique language) |
| 1952 | [A-0](https://en.wikipedia.org/wiki/A-0_System) | [Grace Hopper](https://en.wikipedia.org/wiki/Grace_Hopper) | Short Code |
| 1952 | [Glennie Autocode](https://en.wikipedia.org/wiki/Autocode) | [Alick Glennie](https://en.wikipedia.org/wiki/Alick_Glennie) after [Alan Turing](https://en.wikipedia.org/wiki/Alan_Turing) | CPC Coding scheme |
| 1952 | [Editing Generator](https://en.wikipedia.org/w/index.php?title=Editing_Generator&action=edit&redlink=1) | Milly Koss | SORT/MERGE |
| 1952 | [COMPOOL](https://en.wikipedia.org/w/index.php?title=COMPOOL&action=edit&redlink=1) | [RAND/SDC](https://en.wikipedia.org/w/index.php?title=RAND/SDC&action=edit&redlink=1) | none (unique language) |
| 1953 | [Speedcoding](https://en.wikipedia.org/wiki/Speedcoding) | [John W. Backus](https://en.wikipedia.org/wiki/John_Backus) | none (unique language) |
| 1953 | [READ/PRINT](https://en.wikipedia.org/w/index.php?title=READ/PRINT&action=edit&redlink=1) | Don Harroff, James Fishman, George Ryckman | none (unique language) |
| 1954 | [Laning and Zierler system](https://en.wikipedia.org/wiki/Laning_and_Zierler_system) | Laning, Zierler, Adams at [MIT](https://en.wikipedia.org/wiki/Massachusetts_Institute_of_Technology) [Project Whirlwind](https://en.wikipedia.org/wiki/Whirlwind_(computer)) | none (unique language) |
| 1954 | [Mark I Autocode](https://en.wikipedia.org/wiki/Autocode) | [Tony Brooker](https://en.wikipedia.org/wiki/Tony_Brooker) | Glennie Autocode |
| 1954–55 | [FORTRAN](https://en.wikipedia.org/wiki/Fortran) (concept) | Team led by [John W. Backus](https://en.wikipedia.org/wiki/John_Backus) at [IBM](https://en.wikipedia.org/wiki/IBM) | Speedcoding |
| 1954 | [ARITH-MATIC](https://en.wikipedia.org/wiki/ARITH-MATIC) | Team led by [Grace Hopper](https://en.wikipedia.org/wiki/Grace_Hopper) at UNIVAC | A-0 |
| 1954 | [MATH-MATIC](https://en.wikipedia.org/wiki/MATH-MATIC) | Team led by Charles Katz | A-0 |
| 1954 | [MATRIX MATH](https://en.wikipedia.org/w/index.php?title=MATRIX_MATH&action=edit&redlink=1) | H G Kahrimanian | none (unique language) |
| 1954 | [IPL I](https://en.wikipedia.org/wiki/Information_Processing_Language) (concept) | [Allen Newell](https://en.wikipedia.org/wiki/Allen_Newell), [Cliff Shaw](https://en.wikipedia.org/wiki/Cliff_Shaw), [Herbert A. Simon](https://en.wikipedia.org/wiki/Herbert_A._Simon) | none (unique language) |
| 1955 | [FLOW-MATIC](https://en.wikipedia.org/wiki/FLOW-MATIC) | Team led by [Grace Hopper](https://en.wikipedia.org/wiki/Grace_Hopper) at UNIVAC | A-0 |
| 1955 | BACAIC | M. Grems and R. Porter |  |
| 1955 | [PACT I](https://en.wikipedia.org/wiki/PACT_I) | [SHARE](https://en.wikipedia.org/wiki/SHARE_(computing)) | FORTRAN, A-2 |
| 1955 | [Freiburger Code](https://en.wikipedia.org/w/index.php?title=Freiburger_Code&action=edit&redlink=1)[[4]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-4)[[5]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-5) | [University of Freiburg](https://en.wikipedia.org/wiki/University_of_Freiburg) | N/A |
| 1955–56 | [Sequentielle Formelübersetzung](https://en.wikipedia.org/w/index.php?title=Sequentielle_Formel%C3%BCbersetzung&action=edit&redlink=1) | [Fritz Bauer](https://en.wikipedia.org/wiki/Friedrich_L._Bauer) and Karl Samelson | Boehm |
| 1955–56 | [IT](https://en.wikipedia.org/w/index.php?title=Internal_Translator&action=edit&redlink=1) | Team led by [Alan Perlis](https://en.wikipedia.org/wiki/Alan_Perlis) | Laning and Zierler |
| 1955 | PRINT | IBM |  |
| 1958 | [IPL II](https://en.wikipedia.org/wiki/Information_Processing_Language) (implementation) | [Allen Newell](https://en.wikipedia.org/wiki/Allen_Newell), [Cliff Shaw](https://en.wikipedia.org/wiki/Cliff_Shaw), [Herbert A. Simon](https://en.wikipedia.org/wiki/Herbert_A._Simon) | IPL I |
| 1956–58 | [LISP](https://en.wikipedia.org/wiki/Lisp_(programming_language)) (concept) | [John McCarthy](https://en.wikipedia.org/wiki/John_McCarthy_(computer_scientist)) | IPL |
| 1957 | [COMTRAN](https://en.wikipedia.org/wiki/COMTRAN) | [Bob Bemer](https://en.wikipedia.org/wiki/Bob_Bemer) | FLOW-MATIC |
| 1957 | [GEORGE](https://en.wikipedia.org/wiki/GEORGE_(programming_language)) | [Charles Leonard Hamblin](https://en.wikipedia.org/wiki/Charles_Leonard_Hamblin) | none (unique language) |
| 1957 | [FORTRAN I](https://en.wikipedia.org/wiki/FORTRAN_I) (implementation) | [John W. Backus](https://en.wikipedia.org/wiki/John_Backus) at [IBM](https://en.wikipedia.org/wiki/IBM) | FORTRAN |
| 1957–58 | UNICODE | Remington Rand UNIVAC | MATH-MATIC |
| 1957 | [COMIT](https://en.wikipedia.org/wiki/COMIT) (concept) | [Victor Yngve](https://en.wikipedia.org/wiki/Victor_Yngve) | none (unique language) |
| 1958 | [FORTRAN II](https://en.wikipedia.org/wiki/Fortran#FORTRAN_II) | Team led by [John W. Backus](https://en.wikipedia.org/wiki/John_Backus) at [IBM](https://en.wikipedia.org/wiki/IBM) | FORTRAN I |
| 1958 | [ALGOL 58](https://en.wikipedia.org/wiki/ALGOL_58) (IAL) | ACM/GAMM | FORTRAN, IT, Sequentielle Formelübersetzung |
| 1958 | [IPL V](https://en.wikipedia.org/wiki/Information_Processing_Language) | [Allen Newell](https://en.wikipedia.org/wiki/Allen_Newell), [Cliff Shaw](https://en.wikipedia.org/wiki/Cliff_Shaw), [Herbert A. Simon](https://en.wikipedia.org/wiki/Herbert_A._Simon) | IPL II |
| 1959 | [APT](https://en.wikipedia.org/wiki/APT_(programming_language)) | [Douglas T. Ross](https://en.wikipedia.org/wiki/Douglas_T._Ross) |  |
| 1959 | [FACT](https://en.wikipedia.org/wiki/FACT_computer_language) | [Fletcher R. Jones](https://en.wikipedia.org/wiki/Fletcher_R._Jones), [Roy Nutt](https://en.wikipedia.org/wiki/Roy_Nutt), Robert L. Patrick | none (unique language) |
| 1959 | [COBOL](https://en.wikipedia.org/wiki/COBOL) (concept) | The [CODASYL](https://en.wikipedia.org/wiki/CODASYL) Committee | FLOW-MATIC, COMTRAN, FACT |
| 1959 | [JOVIAL](https://en.wikipedia.org/wiki/JOVIAL) | [Jules Schwartz](https://en.wikipedia.org/wiki/Jules_Schwartz) at [SDC](https://en.wikipedia.org/wiki/System_Development_Corporation) | [ALGOL 58](https://en.wikipedia.org/wiki/ALGOL_58) |
| 1959 | [LISP](https://en.wikipedia.org/wiki/Lisp_(programming_language)) (implementation) | [John McCarthy](https://en.wikipedia.org/wiki/John_McCarthy_(computer_scientist)) | IPL |
| 1959 | [MAD – Michigan Algorithm Decoder](https://en.wikipedia.org/wiki/MAD_(programming_language)) | [Bruce Arden](https://en.wikipedia.org/wiki/Bruce_Arden), [Bernard Galler](https://en.wikipedia.org/wiki/Bernard_Galler), and [Robert M. Graham](https://en.wikipedia.org/wiki/Robert_M._Graham) | [ALGOL 58](https://en.wikipedia.org/wiki/ALGOL_58) |
| 1959 | [TRAC](https://en.wikipedia.org/wiki/TRAC_(programming_language)) (concept) | [Calvin Mooers](https://en.wikipedia.org/wiki/Calvin_Mooers) |  |
| 1960 | [ALGOL 60](https://en.wikipedia.org/wiki/ALGOL_60) |  | ALGOL 58 |
| 1960 | [COBOL 61](https://en.wikipedia.org/wiki/COBOL) (implementation) | The [CODASYL](https://en.wikipedia.org/wiki/CODASYL) Committee | FLOW-MATIC, COMTRAN |
| 1961 | [COMIT](https://en.wikipedia.org/wiki/COMIT) (implementation) | [Victor Yngve](https://en.wikipedia.org/wiki/Victor_Yngve) | none (unique language) |
| 1962 | [FORTRAN IV](https://en.wikipedia.org/wiki/Fortran#FORTRAN_IV) | [IBM](https://en.wikipedia.org/wiki/IBM) | FORTRAN II |
| 1962 | [APL](https://en.wikipedia.org/wiki/APL_(programming_language)) (concept) | [Kenneth E. Iverson](https://en.wikipedia.org/wiki/Kenneth_E._Iverson) | none (unique language) |
| 1962 | [Simula](https://en.wikipedia.org/wiki/Simula) (concept) |  | ALGOL 60 |
| 1962 | [SNOBOL](https://en.wikipedia.org/wiki/SNOBOL) | [Ralph Griswold](https://en.wikipedia.org/wiki/Ralph_Griswold), et al. | FORTRAN II, COMIT |
| 1963 | [CPL](https://en.wikipedia.org/wiki/Combined_Programming_Language) | Barron, [Christopher Strachey](https://en.wikipedia.org/wiki/Christopher_Strachey), et al. | ALGOL 60 |
| 1963 | [SNOBOL](https://en.wikipedia.org/wiki/SNOBOL)3 | [Griswold](https://en.wikipedia.org/wiki/Ralph_Griswold), et al. | SNOBOL |
| 1963 | [ALGOL 68](https://en.wikipedia.org/wiki/ALGOL_68) (concept) | [Adriaan van Wijngaarden](https://en.wikipedia.org/wiki/Adriaan_van_Wijngaarden), et al. | ALGOL 60 |
| 1963 | [JOSS I](https://en.wikipedia.org/wiki/JOSS) | Cliff Shaw, [RAND](https://en.wikipedia.org/wiki/RAND_Corporation) | ALGOL 58 |
| 1964 | [MIMIC](https://en.wikipedia.org/wiki/MIMIC) | H. E. Petersen, et al. | MIDAS |
| 1964 | [COWSEL](https://en.wikipedia.org/wiki/COWSEL) | [Rod Burstall](https://en.wikipedia.org/wiki/Rod_Burstall), [Robin Popplestone](https://en.wikipedia.org/wiki/Robin_Popplestone) | CPL, LISP |
| 1964 | [PL/I](https://en.wikipedia.org/wiki/PL/I) (concept) | [IBM](https://en.wikipedia.org/wiki/IBM) | ALGOL 60, COBOL, FORTRAN |
| 1964 | [BASIC](https://en.wikipedia.org/wiki/BASIC) | [John George Kemeny](https://en.wikipedia.org/wiki/John_George_Kemeny) and [Thomas Eugene Kurtz](https://en.wikipedia.org/wiki/Thomas_Eugene_Kurtz) at [Dartmouth College](https://en.wikipedia.org/wiki/Dartmouth_College) | FORTRAN II, JOSS |
| 1964 | [IBM RPG](https://en.wikipedia.org/wiki/IBM_RPG) | [IBM](https://en.wikipedia.org/wiki/IBM) | FARGO |
| 1964 | [Mark-IV](https://en.wikipedia.org/wiki/MARK_IV_(software)) | [Informatics](https://en.wikipedia.org/wiki/Sterling_Software) |  |
| 1964 | [Speakeasy-2](https://en.wikipedia.org/wiki/Speakeasy_(computational_environment)) | Stanley Cohen at [Argonne National Laboratory](https://en.wikipedia.org/wiki/Argonne_National_Laboratory) | Speakeasy |
| 1964 | [TRAC](https://en.wikipedia.org/wiki/TRAC_(programming_language)) (implementation) | [Calvin Mooers](https://en.wikipedia.org/wiki/Calvin_Mooers) |  |
| 1964 | [P′′](https://en.wikipedia.org/wiki/P%E2%80%B2%E2%80%B2) | [Corrado Böhm](https://en.wikipedia.org/wiki/Corrado_B%C3%B6hm) | none (unique language) |
| 1964? | [IITRAN](https://en.wikipedia.org/wiki/IITRAN) |  |  |
| 1965 | [RPG II](https://en.wikipedia.org/wiki/RPG_II) | [IBM](https://en.wikipedia.org/wiki/IBM) | [FARGO](https://en.wikipedia.org/w/index.php?title=FARGO&action=edit&redlink=1), [RPG](https://en.wikipedia.org/wiki/IBM_RPG) |
| 1965 | [MAD/I](https://en.wikipedia.org/wiki/MAD_(programming_language)) (concept) | [University of Michigan](https://en.wikipedia.org/wiki/University_of_Michigan) | [MAD](https://en.wikipedia.org/wiki/MAD_(programming_language)), [ALGOL 60](https://en.wikipedia.org/wiki/ALGOL_60), [PL/I](https://en.wikipedia.org/wiki/PL/I) |
| 1965 | [TELCOMP](https://en.wikipedia.org/wiki/TELCOMP) | [BBN](https://en.wikipedia.org/wiki/BBN_Technologies) | JOSS |
| 1965 | [Atlas Autocode](https://en.wikipedia.org/wiki/Atlas_Autocode) | [Tony Brooker](https://en.wikipedia.org/wiki/Tony_Brooker), Derrick Morris at [Manchester University](https://en.wikipedia.org/wiki/Manchester_University) | [Algol 60](https://en.wikipedia.org/wiki/Algol_60), [Autocode](https://en.wikipedia.org/wiki/Autocode) |
| 1966 | [JOSS II](https://en.wikipedia.org/wiki/JOSS) | Chuck Baker, [RAND](https://en.wikipedia.org/wiki/RAND) | JOSS I |
| 1966 | [ALGOL W](https://en.wikipedia.org/wiki/ALGOL_W) | [Niklaus Wirth](https://en.wikipedia.org/wiki/Niklaus_Wirth), [C. A. R. Hoare](https://en.wikipedia.org/wiki/C._A._R._Hoare) | ALGOL 60 |
| 1966 | [FORTRAN 66](https://en.wikipedia.org/wiki/FORTRAN_66) |  | FORTRAN IV |
| 1966 | [ISWIM](https://en.wikipedia.org/wiki/ISWIM) (Concept) | [Peter J. Landin](https://en.wikipedia.org/wiki/Peter_J._Landin) | LISP |
| 1966 | [CORAL66](https://en.wikipedia.org/wiki/Coral_66) |  | ALGOL 60 |
| 1966 | [APL](https://en.wikipedia.org/wiki/APL_(programming_language)) (implementation)[[6]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-6) | [Kenneth E. Iverson](https://en.wikipedia.org/wiki/Kenneth_E._Iverson) | none (unique language) |
| 1967 | [BCPL](https://en.wikipedia.org/wiki/BCPL) | [Martin Richards](https://en.wikipedia.org/wiki/Martin_Richards_(computer_scientist)) | CPL |
| 1967 | [MUMPS](https://en.wikipedia.org/wiki/MUMPS) | [Massachusetts General Hospital](https://en.wikipedia.org/wiki/Massachusetts_General_Hospital) | FORTRAN, TELCOMP |
| 1967 | [Simula 67](https://en.wikipedia.org/wiki/Simula) (implementation) | [Ole-Johan Dahl](https://en.wikipedia.org/wiki/Ole-Johan_Dahl), Bjørn Myhrhaug, [Kristen Nygaard](https://en.wikipedia.org/wiki/Kristen_Nygaard) at [Norsk Regnesentral](https://en.wikipedia.org/wiki/Norwegian_Computing_Center) | ALGOL 60 |
| 1967 | [InterLisp](https://en.wikipedia.org/wiki/Interlisp) | D.G. Bobrow and D.L. Murphy | Lisp |
| 1967 | [EXAPT](https://en.wikipedia.org/wiki/EXAPT) | Herwart Opitz, Wilhelm Simon, Günter Spur, and Gottfried Stute at [RWTH Aachen University](https://en.wikipedia.org/wiki/RWTH_Aachen_University) and [TU Berlin](https://en.wikipedia.org/wiki/TU_Berlin) | [APT](https://en.wikipedia.org/wiki/APT_(programming_language)) |
| 1967 | [SNOBOL](https://en.wikipedia.org/wiki/SNOBOL)4 | [Ralph Griswold](https://en.wikipedia.org/wiki/Ralph_Griswold), et al. | SNOBOL3 |
| 1967 | [XPL](https://en.wikipedia.org/wiki/XPL) | [William M. McKeeman](https://en.wikipedia.org/w/index.php?title=William_M._McKeeman&action=edit&redlink=1), et al. at [University of California, Santa Cruz](https://en.wikipedia.org/wiki/University_of_California,_Santa_Cruz) [J. J. Horning](https://en.wikipedia.org/wiki/Jim_Horning), et al. at [Stanford University](https://en.wikipedia.org/wiki/Stanford_University) | PL/I |
| 1967 | [Space Programming Language](https://en.wikipedia.org/w/index.php?title=Space_Programming_Language&action=edit&redlink=1) (SPL) | [System Development Corporation](https://en.wikipedia.org/wiki/System_Development_Corporation) | JOVIAL |
| 1968 | [ALGOL 68](https://en.wikipedia.org/wiki/ALGOL_68) ([UNESCO](https://en.wikipedia.org/wiki/UNESCO)/[IFIP](https://en.wikipedia.org/wiki/International_Federation_for_Information_Processing) standard) | [Adriaan van Wijngaarden](https://en.wikipedia.org/wiki/Adriaan_van_Wijngaarden), [Barry J. Mailloux](https://en.wikipedia.org/wiki/Barry_J._Mailloux), [John E. L. Peck](https://en.wikipedia.org/wiki/John_E._L._Peck) and [Cornelis H. A. Koster](https://en.wikipedia.org/wiki/Cornelis_H._A._Koster), et al. | ALGOL 60 |
| 1968 | [POP-1](https://en.wikipedia.org/wiki/COWSEL) | [Rod Burstall](https://en.wikipedia.org/wiki/Rod_Burstall), [Robin Popplestone](https://en.wikipedia.org/wiki/Robin_Popplestone) | COWSEL |
| 1968 | [DIBOL-8](https://en.wikipedia.org/wiki/DIBOL) | [DEC](https://en.wikipedia.org/wiki/Digital_Equipment_Corporation) | DIBOL |
| 1968 | [Forth](https://en.wikipedia.org/wiki/Forth_(programming_language)) (concept) | [Moore](https://en.wikipedia.org/wiki/Charles_H._Moore) |  |
| 1968 | [LOGO](https://en.wikipedia.org/wiki/Logo_(programming_language)) | [Wally Feurzeig](https://en.wikipedia.org/wiki/Wally_Feurzeig), [Seymour Papert](https://en.wikipedia.org/wiki/Seymour_Papert), [Cynthia Solomon](https://en.wikipedia.org/wiki/Cynthia_Solomon) | LISP |
| 1968 | [MAPPER](https://en.wikipedia.org/wiki/MAPPER) | [Unisys](https://en.wikipedia.org/wiki/Unisys) | CRT RPS |
| 1968 | [REFAL](https://en.wikipedia.org/wiki/REFAL) (implementation) | [Valentin Turchin](https://en.wikipedia.org/wiki/Valentin_Turchin) | none (unique language) |
| 1968 | [TTM](https://en.wikipedia.org/wiki/TTM_(programming_language)) (implementation) | Steven Caine and E. Kent Gordon, [California Institute of Technology](https://en.wikipedia.org/wiki/California_Institute_of_Technology) | GAP, GPM |
| 1968 | [PILOT](https://en.wikipedia.org/wiki/PILOT) | [John Amsden Starkweather](https://en.wikipedia.org/wiki/John_Amsden_Starkweather), [University of California, San Francisco](https://en.wikipedia.org/wiki/University_of_California,_San_Francisco) | Computest |
| 1969 | [PL/I](https://en.wikipedia.org/wiki/PL/I) (implementation) | [IBM](https://en.wikipedia.org/wiki/IBM) | ALGOL 60, COBOL, FORTRAN |
| 1969 | [B](https://en.wikipedia.org/wiki/B_(programming_language)) | [Ken Thompson](https://en.wikipedia.org/wiki/Ken_Thompson), with contributions from [Dennis Ritchie](https://en.wikipedia.org/wiki/Dennis_Ritchie) | BCPL |
| 1969 | [Polymorphic Programming Language](https://en.wikipedia.org/wiki/Polymorphic_Programming_Language) (PPL) | Thomas A. Standish at [Harvard University](https://en.wikipedia.org/wiki/Harvard_University) |  |
| 1969 | [SETL](https://en.wikipedia.org/wiki/SETL) | [Jack Schwartz](https://en.wikipedia.org/wiki/Jack_Schwartz) at [Courant Institute of Mathematical Sciences](https://en.wikipedia.org/wiki/Courant_Institute_of_Mathematical_Sciences) | ALGOL 60 |
| 1969 | [TUTOR](https://en.wikipedia.org/wiki/TUTOR_(programming_language)) | Paul Tenczar & [University of Illinois at Urbana–Champaign](https://en.wikipedia.org/wiki/University_of_Illinois_at_Urbana%E2%80%93Champaign) |  |
| 1969 | [Edinburgh IMP](https://en.wikipedia.org/wiki/Edinburgh_IMP) | [Edinburgh University](https://en.wikipedia.org/wiki/Edinburgh_University) | [Algol 60](https://en.wikipedia.org/wiki/Algol_60), [Autocode](https://en.wikipedia.org/wiki/Autocode), [Atlas Autocode](https://en.wikipedia.org/wiki/Atlas_Autocode) |
| 1970 | [Forth](https://en.wikipedia.org/wiki/Forth_(programming_language)) (implementation) | [Charles H. Moore](https://en.wikipedia.org/wiki/Charles_H._Moore) |  |
| 1970 | [POP-2](https://en.wikipedia.org/wiki/POP-2) | [Robin Popplestone](https://en.wikipedia.org/wiki/Robin_Popplestone) | POP-1 |
| 1970 | [SAIL](https://en.wikipedia.org/wiki/SAIL_(programming_language)) | Dan Swinehart and [Bob Sproull](https://en.wikipedia.org/wiki/Bob_Sproull) | ALGOL-60 |
| 1970 | [Pascal](https://en.wikipedia.org/wiki/Pascal_(programming_language)) | [Niklaus Wirth](https://en.wikipedia.org/wiki/Niklaus_Wirth), Kathleen Jensen | ALGOL 60, ALGOL W |
| 1970 | [BLISS](https://en.wikipedia.org/wiki/BLISS) | Wulf, Russell, Habermann at [Carnegie Mellon University](https://en.wikipedia.org/wiki/Carnegie_Mellon_University) | ALGOL |
| 1971 | [KRL](https://en.wikipedia.org/wiki/KRL_(programming_language)) | [Daniel G. Bobrow](https://en.wikipedia.org/wiki/Daniel_G._Bobrow) at [Xerox PARC](https://en.wikipedia.org/wiki/Xerox_PARC), [Terry Winograd](https://en.wikipedia.org/wiki/Terry_Winograd) at [Stanford University](https://en.wikipedia.org/wiki/Stanford_University) | KM, FRL (MIT) |
| 1971 | [Sue](https://en.wikipedia.org/w/index.php?title=Sue_(programming_language)&action=edit&redlink=1) | [Ric Holt](https://en.wikipedia.org/wiki/Ric_Holt) et al. at [University of Toronto](https://en.wikipedia.org/wiki/University_of_Toronto) | Pascal, XPL |
| 1971 | [Compiler Description Language](https://en.wikipedia.org/wiki/Compiler_Description_Language) (CDL) | [Cornelis H.A. Koster](https://en.wikipedia.org/wiki/Cornelis_H.A._Koster) at [University of Nijmegen](https://en.wikipedia.org/wiki/University_of_Nijmegen) |  |
| 1972 | [Smalltalk-72](https://en.wikipedia.org/wiki/Smalltalk-72) | [Alan Kay](https://en.wikipedia.org/wiki/Alan_Kay), [Adele Goldberg](https://en.wikipedia.org/wiki/Adele_Goldberg_(computer_scientist)), [Dan Ingalls](https://en.wikipedia.org/wiki/Dan_Ingalls), [Xerox PARC](https://en.wikipedia.org/wiki/PARC_(company)) | Simula 67 |
| 1972 | [PL/M](https://en.wikipedia.org/wiki/PL/M) | [Gary Kildall](https://en.wikipedia.org/wiki/Gary_Kildall) at [Digital Research](https://en.wikipedia.org/wiki/Digital_Research) | PL/I, ALGOL, XPL |
| 1972 | [K&R C](https://en.wikipedia.org/wiki/C_(programming_language)) | [Dennis Ritchie](https://en.wikipedia.org/wiki/Dennis_Ritchie) | B, BCPL, ALGOL 68 |
| 1972 | [INTERCAL](https://en.wikipedia.org/wiki/INTERCAL) | [Don Woods](https://en.wikipedia.org/wiki/Don_Woods_(programmer)) and James M. Lyon | none (unique language) |
| 1972 | [Prolog](https://en.wikipedia.org/wiki/Prolog) | [Alain Colmerauer](https://en.wikipedia.org/wiki/Alain_Colmerauer) | 2-level W-Grammar |
| 1972 | Structured Query language ([SQL](https://en.wikipedia.org/wiki/SQL)) | [IBM](https://en.wikipedia.org/wiki/IBM) | ALPHA, Quel (Ingres) |
| 1973 | [COMAL](https://en.wikipedia.org/wiki/COMAL) | Børge Christensen, Benedict Løfstedt | Pascal, BASIC |
| 1973 | [ML](https://en.wikipedia.org/wiki/ML_(programming_language)) | [Robin Milner](https://en.wikipedia.org/wiki/Robin_Milner) |  |
| 1973 | [LIS](https://en.wikipedia.org/wiki/LIS_(programming_language)) | [Jean Ichbiah](https://en.wikipedia.org/wiki/Jean_Ichbiah) et al. at [CII Honeywell Bull](https://en.wikipedia.org/wiki/Groupe_Bull) | Pascal, Sue |
| 1973 | [Speakeasy-3](https://en.wikipedia.org/wiki/Speakeasy_(computational_environment)) | Stanley Cohen, Steven Pieper at [Argonne National Laboratory](https://en.wikipedia.org/wiki/Argonne_National_Laboratory) | Speakeasy-2 |
| 1974 | [CLU](https://en.wikipedia.org/wiki/CLU_(programming_language)) | [Barbara Liskov](https://en.wikipedia.org/wiki/Barbara_Liskov) | ALGOL 60, Lisp, Simula |
| 1974 | MAINSAIL | Stanford University | [SAIL](https://en.wikipedia.org/wiki/SAIL_(programming_language)) |
| 1974 | [GRASS](https://en.wikipedia.org/wiki/GRASS_(programming_language)) | [Thomas A. DeFanti](https://en.wikipedia.org/wiki/Thomas_A._DeFanti) | BASIC |
| 1974 | [BASIC FOUR](https://en.wikipedia.org/wiki/MAI_Basic_Four) | MAI BASIC Four Inc. | Business BASIC |
| 1974 | [PROSE modeling language](https://en.wikipedia.org/wiki/PROSE_modeling_language) | [CDC 6600](https://en.wikipedia.org/wiki/CDC_6600) Cybernet Services | SLANG, FORTRAN |
| 1975 | [ABC](https://en.wikipedia.org/wiki/ABC_(programming_language)) | Leo Geurts and [Lambert Meertens](https://en.wikipedia.org/wiki/Lambert_Meertens) | [SETL](https://en.wikipedia.org/wiki/SETL) |
| 1975 | [Irvine Dataflow](https://en.wikipedia.org/wiki/Irvine_Dataflow) (concept) | Arvind?, [University of California, Irvine](https://en.wikipedia.org/wiki/University_of_California,_Irvine) |  |
| 1975 | [PROSE modeling language](https://en.wikipedia.org/wiki/PROSE_modeling_language) Time-Sharing Version | [CDC 6400](https://en.wikipedia.org/wiki/CDC_6400) Cybernet KRONOS Services | SLANG, FORTRAN |
| 1975 | [Scheme](https://en.wikipedia.org/wiki/Scheme_(programming_language)) | [Gerald Jay Sussman](https://en.wikipedia.org/wiki/Gerald_Jay_Sussman), [Guy L. Steele, Jr.](https://en.wikipedia.org/wiki/Guy_L._Steele,_Jr.) | LISP |
| 1975 | [Altair BASIC](https://en.wikipedia.org/wiki/Altair_BASIC) | [Bill Gates](https://en.wikipedia.org/wiki/Bill_Gates), [Paul Allen](https://en.wikipedia.org/wiki/Paul_Allen) | BASIC |
| 1975 | [CS-4](https://en.wikipedia.org/wiki/CS-4_(programming_language)) | James S. Miller, Benjamin M. Brosgol et al. at [Intermetrics](https://en.wikipedia.org/wiki/Intermetrics) | ALGOL 68, BLISS, ECL, HAL |
| 1975 | [Modula](https://en.wikipedia.org/wiki/Modula) | [Niklaus Wirth](https://en.wikipedia.org/wiki/Niklaus_Wirth) | Pascal |
| 1976 | [Plus](https://en.wikipedia.org/wiki/Plus_(programming_language)) | Allan Ballard, Paul Whaley at the [University of British Columbia](https://en.wikipedia.org/wiki/University_of_British_Columbia) | Pascal, Sue |
| 1976 | [Smalltalk-76](https://en.wikipedia.org/w/index.php?title=Smalltalk-76&action=edit&redlink=1) | [Xerox PARC](https://en.wikipedia.org/wiki/PARC_(company)) | Smalltalk-72 |
| 1976 | [Mesa](https://en.wikipedia.org/wiki/Mesa_(programming_language)) | [Xerox PARC](https://en.wikipedia.org/wiki/PARC_(company)) | ALGOL |
| 1976 | [SAM76](https://en.wikipedia.org/wiki/SAM76) | Claude A.R. Kagan | LISP, TRAC |
| 1976 | [Ratfor](https://en.wikipedia.org/wiki/Ratfor) | [Brian Kernighan](https://en.wikipedia.org/wiki/Brian_Kernighan) | C, FORTRAN |
| 1976 | [S](https://en.wikipedia.org/wiki/S_(programming_language)) | [John Chambers](https://en.wikipedia.org/wiki/John_Chambers_(programmer)) at [Bell Labs](https://en.wikipedia.org/wiki/Bell_Labs) | APL, PPL, Scheme |
| 1976 | [SAS](https://en.wikipedia.org/wiki/SAS_language) | [SAS Institute](https://en.wikipedia.org/wiki/SAS_Institute) |  |
| 1976 | [Integer BASIC](https://en.wikipedia.org/wiki/Integer_BASIC) | [Steve Wozniak](https://en.wikipedia.org/wiki/Steve_Wozniak) | BASIC |
| 1977 | [FP](https://en.wikipedia.org/wiki/FP_(programming_language)) | [John Backus](https://en.wikipedia.org/wiki/John_Backus) | none (unique language) |
| 1977 | [Bourne Shell](https://en.wikipedia.org/wiki/Bourne_shell) (sh) | [Stephen R. Bourne](https://en.wikipedia.org/wiki/Stephen_R._Bourne) | none (unique language) |
| 1977 | [Commodore BASIC](https://en.wikipedia.org/wiki/Commodore_BASIC) | [Jack Tramiel](https://en.wikipedia.org/wiki/Jack_Tramiel) | BASIC |
| 1977 | [IDL](https://en.wikipedia.org/wiki/IDL_(programming_language)) | David Stern of Research Systems Inc | Fortran |
| 1977 | [Standard MUMPS](https://en.wikipedia.org/wiki/MUMPS) |  | MUMPS |
| 1977 | [Icon](https://en.wikipedia.org/wiki/Icon_(programming_language)) (concept) | [Ralph Griswold](https://en.wikipedia.org/wiki/Ralph_Griswold) | SNOBOL |
| 1977 | Red | Benjamin M. Brosgol et al. at [Intermetrics](https://en.wikipedia.org/wiki/Intermetrics) for [US Dept of Defense](https://en.wikipedia.org/wiki/United_States_Department_of_Defense) | ALGOL 68, CS-4 |
| 1977 | Blue | John B. Goodenough[[7]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-7)[[8]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-8) et al. at [SofTech](https://en.wikipedia.org/wiki/SofTech) for [US Dept of Defense](https://en.wikipedia.org/wiki/United_States_Department_of_Defense) | ALGOL 68 |
| 1977 | Yellow | Jay Spitzen et al. at [SRI International](https://en.wikipedia.org/wiki/SRI_International) for [US Dept of Defense](https://en.wikipedia.org/wiki/United_States_Department_of_Defense) | ALGOL 68 |
| 1977 | [Euclid](https://en.wikipedia.org/wiki/Euclid_(programming_language)) | [Butler Lampson](https://en.wikipedia.org/wiki/Butler_Lampson) at [Xerox Parc](https://en.wikipedia.org/wiki/PARC_(company)), [Ric Holt](https://en.wikipedia.org/wiki/Ric_Holt) and [James Cordy](https://en.wikipedia.org/wiki/James_Cordy) at [University of Toronto](https://en.wikipedia.org/wiki/University_of_Toronto) |  |
| 1977 | [Applesoft BASIC](https://en.wikipedia.org/wiki/Applesoft_BASIC) | [Marc McDonald](https://en.wikipedia.org/wiki/Marc_McDonald) and [Ric Weiland](https://en.wikipedia.org/wiki/Ric_Weiland) | BASIC |
| 1978 | [RAPT](https://en.wikipedia.org/wiki/Freddy_II) | [Pat Ambler](https://en.wikipedia.org/wiki/Pat_Ambler) and [Robin Popplestone](https://en.wikipedia.org/wiki/Robin_Popplestone) | [APT](https://en.wikipedia.org/wiki/APT_(programming_language)) |
| 1978 | [C shell](https://en.wikipedia.org/wiki/C_shell) | [Bill Joy](https://en.wikipedia.org/wiki/Bill_Joy) | [C](https://en.wikipedia.org/wiki/C_(programming_language)) |
| 1978 | [RPG III](https://en.wikipedia.org/wiki/RPG_III) | [IBM](https://en.wikipedia.org/wiki/IBM) | [FARGO](https://en.wikipedia.org/w/index.php?title=FARGO&action=edit&redlink=1), [RPG](https://en.wikipedia.org/wiki/IBM_RPG), [RPG II](https://en.wikipedia.org/wiki/RPG_II) |
| 1978 | [HAL/S](https://en.wikipedia.org/wiki/HAL/S) | designed by Intermetrics for NASA | [XPL](https://en.wikipedia.org/wiki/XPL) |
| 1978 | [Applesoft II BASIC](https://en.wikipedia.org/wiki/Applesoft_BASIC) | [Marc McDonald](https://en.wikipedia.org/wiki/Marc_McDonald) and [Ric Weiland](https://en.wikipedia.org/wiki/Ric_Weiland) | Applesoft BASIC |
| 1975 | [Irvine Dataflow](https://en.wikipedia.org/wiki/Irvine_Dataflow) (implementation) | Arvind and Gostelow, [University of California, Irvine](https://en.wikipedia.org/wiki/University_of_California,_Irvine) |  |
| 1978? | [MATLAB](https://en.wikipedia.org/wiki/MATLAB) | [Cleve Moler](https://en.wikipedia.org/wiki/Cleve_Moler) at the [University of New Mexico](https://en.wikipedia.org/wiki/University_of_New_Mexico) | [Fortran](https://en.wikipedia.org/wiki/Fortran) |
| 1978? | [SMALL](https://en.wikipedia.org/wiki/SMALL) | Nevil Brownlee at the [University of Auckland](https://en.wikipedia.org/wiki/University_of_Auckland) | Algol60 |
| 1978 | [VisiCalc](https://en.wikipedia.org/wiki/VisiCalc) | [Dan Bricklin](https://en.wikipedia.org/wiki/Dan_Bricklin), [Bob Frankston](https://en.wikipedia.org/wiki/Bob_Frankston) marketed by [VisiCorp](https://en.wikipedia.org/wiki/VisiCorp) | none (unique language) |
| 1979 | [Modula-2](https://en.wikipedia.org/wiki/Modula-2) | [Niklaus Wirth](https://en.wikipedia.org/wiki/Niklaus_Wirth) | Modula, Mesa |
| 1979 | [REXX](https://en.wikipedia.org/wiki/REXX) | [Mike Cowlishaw](https://en.wikipedia.org/wiki/Mike_Cowlishaw) at [IBM](https://en.wikipedia.org/wiki/IBM) | PL/I, BASIC, EXEC 2 |
| 1979 | [AWK](https://en.wikipedia.org/wiki/AWK) | [Alfred Aho](https://en.wikipedia.org/wiki/Alfred_Aho), [Peter J. Weinberger](https://en.wikipedia.org/wiki/Peter_J._Weinberger), [Brian Kernighan](https://en.wikipedia.org/wiki/Brian_Kernighan) | C, SNOBOL |
| 1979 | [Icon](https://en.wikipedia.org/wiki/Icon_(programming_language)) (implementation) | [Ralph Griswold](https://en.wikipedia.org/wiki/Ralph_Griswold) | SNOBOL |
| 1979 | [Vulcan dBase-II](https://en.wikipedia.org/wiki/DBase) | [Wayne Ratliff](https://en.wikipedia.org/wiki/Wayne_Ratliff) | none (unique language) |
| 1980 | [Ada 80](https://en.wikipedia.org/wiki/Ada_(programming_language)) (MIL-STD-1815) | [Jean Ichbiah](https://en.wikipedia.org/wiki/Jean_Ichbiah) at [CII Honeywell Bull](https://en.wikipedia.org/wiki/Groupe_Bull) | Green |
| 1980 | [C with classes](https://en.wikipedia.org/wiki/C%2B%2B) | [Bjarne Stroustrup](https://en.wikipedia.org/wiki/Bjarne_Stroustrup)[[9]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-9) | C, Simula 67 |
| 1980 | [Applesoft III](https://en.wikipedia.org/wiki/Applesoft_BASIC) | [Apple Computer](https://en.wikipedia.org/wiki/Apple_Computer) | Applesoft II BASIC |
| 1980 | [Apple III Microsoft BASIC](https://en.wikipedia.org/wiki/Applesoft_BASIC) | Microsoft | Microsoft BASIC |
| 1980–81 | [CBASIC](https://en.wikipedia.org/wiki/CBASIC) | [Gordon Eubanks](https://en.wikipedia.org/wiki/Gordon_Eubanks) | BASIC, Compiler Systems, Digital Research |
| 1981 | [BBC BASIC](https://en.wikipedia.org/wiki/BBC_BASIC) | [Acorn Computers](https://en.wikipedia.org/wiki/Acorn_Computers), [Sophie Wilson](https://en.wikipedia.org/wiki/Sophie_Wilson) | BASIC |
| 1981 | [IBM BASICA](https://en.wikipedia.org/wiki/IBM_BASICA) | [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | BASIC |
| 1982? | [Speakeasy-IV](https://en.wikipedia.org/wiki/Speakeasy_(computational_environment)) | Stanley Cohen, et al. at [Speakeasy Computing Corporation](https://en.wikipedia.org/w/index.php?title=Speakeasy_Computing_Corporation&action=edit&redlink=1) | Speakeasy-3 |
| 1982? | [Draco](https://en.wikipedia.org/wiki/Draco_(programming_language)) | Chris Gray | [Pascal](https://en.wikipedia.org/wiki/Pascal_(programming_language)), [C](https://en.wikipedia.org/wiki/C_(programming_language)), [ALGOL 68](https://en.wikipedia.org/wiki/ALGOL_68) |
| 1982 | [PostScript](https://en.wikipedia.org/wiki/PostScript) | [Warnock](https://en.wikipedia.org/wiki/John_Warnock) | [InterPress](https://en.wikipedia.org/wiki/InterPress) |
| 1982 | [Turing](https://en.wikipedia.org/wiki/Turing_(programming_language)) | [Ric Holt](https://en.wikipedia.org/wiki/Ric_Holt) and [James Cordy](https://en.wikipedia.org/wiki/James_Cordy), at [University of Toronto](https://en.wikipedia.org/wiki/University_of_Toronto) | [Euclid](https://en.wikipedia.org/wiki/Euclid_(programming_language)) |
| 1983 | [GW-BASIC](https://en.wikipedia.org/wiki/GW-BASIC) | [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | [IBM BASICA](https://en.wikipedia.org/wiki/IBM_BASICA) |
| 1983 | [Turbo Pascal](https://en.wikipedia.org/wiki/Turbo_Pascal) | [Hejlsberg](https://en.wikipedia.org/wiki/Anders_Hejlsberg) at [Borland](https://en.wikipedia.org/wiki/Borland) | [Pascal](https://en.wikipedia.org/wiki/Pascal_(programming_language)) |
| 1983 | [Ada 83](https://en.wikipedia.org/wiki/Ada_(programming_language)) (ANSI/MIL-STD-1815A) | [Jean Ichbiah](https://en.wikipedia.org/wiki/Jean_Ichbiah) at [Alsys](https://en.wikipedia.org/wiki/Alsys) | Ada 80, Green |
| 1983 | [Objective-C](https://en.wikipedia.org/wiki/Objective-C) | [Brad Cox](https://en.wikipedia.org/wiki/Brad_Cox) | Smalltalk, C |
| 1983 | [C++](https://en.wikipedia.org/wiki/C%2B%2B) | [Bjarne Stroustrup](https://en.wikipedia.org/wiki/Bjarne_Stroustrup) | C with Classes |
| 1983 | [True BASIC](https://en.wikipedia.org/wiki/True_BASIC) | [John George Kemeny](https://en.wikipedia.org/wiki/John_George_Kemeny), [Thomas Eugene Kurtz](https://en.wikipedia.org/wiki/Thomas_Eugene_Kurtz) at [Dartmouth College](https://en.wikipedia.org/wiki/Dartmouth_College) | BASIC |
| 1983 | [occam](https://en.wikipedia.org/wiki/Occam_(programming_language)) | [David May](https://en.wikipedia.org/wiki/David_May_(computer_scientist)) | EPL |
| 1983? | [ABAP](https://en.wikipedia.org/wiki/ABAP) | [SAP AG](https://en.wikipedia.org/wiki/SAP_AG) | [COBOL](https://en.wikipedia.org/wiki/COBOL) |
| 1983 | [Korn Shell](https://en.wikipedia.org/wiki/Korn_shell) (ksh) | [David Korn](https://en.wikipedia.org/wiki/David_Korn_(computer_scientist)) | sh |
| 1983 | [Clascal](https://en.wikipedia.org/wiki/Clascal) | [Apple Computer Inc.](https://en.wikipedia.org/wiki/Apple_Inc.) | [Pascal](https://en.wikipedia.org/wiki/Pascal_(programming_language)) |
| 1984 | [CLIPPER](https://en.wikipedia.org/wiki/Clipper_(programming_language)) | [Nantucket](https://en.wikipedia.org/wiki/Nantucket,_Massachusetts) | dBase |
| 1984 | [Common Lisp](https://en.wikipedia.org/wiki/Common_Lisp) | [Guy L. Steele, Jr.](https://en.wikipedia.org/wiki/Guy_L._Steele,_Jr.) and many others | LISP |
| 1984 | [Coq](https://en.wikipedia.org/wiki/Coq) | [INRIA](https://en.wikipedia.org/wiki/INRIA) |  |
| 1984 | [RPL](https://en.wikipedia.org/wiki/RPL_(programming_language)) | [Hewlett-Packard](https://en.wikipedia.org/wiki/Hewlett-Packard) | [Forth](https://en.wikipedia.org/wiki/Forth_(programming_language)), [Lisp](https://en.wikipedia.org/wiki/Lisp_(programming_language)) |
| 1984 | [Standard ML](https://en.wikipedia.org/wiki/Standard_ML) |  | ML |
| 1984 | [Redcode](https://en.wikipedia.org/wiki/Core_War) | [Alexander Dewdney](https://en.wikipedia.org/wiki/Alexander_Dewdney) and [D.G. Jones](https://en.wikipedia.org/wiki/D._G._Jones) |  |
| 1984 | [OPL](https://en.wikipedia.org/wiki/Open_Programming_Language) | [Psion](https://en.wikipedia.org/wiki/Psion_(company)) | [BASIC](https://en.wikipedia.org/wiki/BASIC) |
| 1985 | [PARADOX](https://en.wikipedia.org/wiki/Paradox_(database)) | [Borland](https://en.wikipedia.org/wiki/Borland) | dBase |
| 1985 | [QuickBASIC](https://en.wikipedia.org/wiki/QuickBASIC) | [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | [BASIC](https://en.wikipedia.org/wiki/BASIC) |
| 1986 | [Clarion](https://en.wikipedia.org/wiki/Clarion_(programming_language)) | Bruce Barrington |  |
| 1986 | [CorVision](https://en.wikipedia.org/wiki/CorVision) | Cortex | INFORM |
| 1986 | [Eiffel](https://en.wikipedia.org/wiki/Eiffel_(programming_language)) | [Bertrand Meyer](https://en.wikipedia.org/wiki/Bertrand_Meyer) | Simula 67, Ada |
| 1986 | [GFA BASIC](https://en.wikipedia.org/wiki/GFA_BASIC) | [Frank Ostrowski](https://en.wikipedia.org/wiki/Frank_Ostrowski) | [BASIC](https://en.wikipedia.org/wiki/BASIC) |
| 1986 | [Informix-4GL](https://en.wikipedia.org/wiki/IBM_Informix-4GL) | [Informix](https://en.wikipedia.org/wiki/IBM_Informix) |  |
| 1986 | [LabVIEW](https://en.wikipedia.org/wiki/LabVIEW) | [National Instruments](https://en.wikipedia.org/wiki/National_Instruments) |  |
| 1986 | [Miranda](https://en.wikipedia.org/wiki/Miranda_(programming_language)) | [David Turner](https://en.wikipedia.org/wiki/David_Turner_(computer_scientist)) at [University of Kent](https://en.wikipedia.org/wiki/University_of_Kent) |  |
| 1986 | [Object Pascal](https://en.wikipedia.org/wiki/Object_Pascal) | [Apple Computer Inc.](https://en.wikipedia.org/wiki/Apple_Inc.) | Pascal |
| 1986 | [PROMAL](https://en.wikipedia.org/wiki/PROMAL) |  | C |
| 1986 | [Erlang](https://en.wikipedia.org/wiki/Erlang_(programming_language)) | Joe Armstrong and others in [Ericsson](https://en.wikipedia.org/wiki/Ericsson) | Prolog |
| 1987 | [Ada ISO 8652:1987](https://en.wikipedia.org/wiki/Ada_(programming_language)) | [ANSI/MIL-STD-1815A unchanged](https://en.wikipedia.org/w/index.php?title=ANSI/MIL-STD-1815A_unchanged&action=edit&redlink=1) | Ada 83 |
| 1987 | [Self](https://en.wikipedia.org/wiki/Self_(programming_language)) (concept) | [Sun Microsystems](https://en.wikipedia.org/wiki/Sun_Microsystems) Inc. | Smalltalk |
| 1987 | [occam 2](https://en.wikipedia.org/wiki/Occam_(programming_language)) | [David May](https://en.wikipedia.org/wiki/David_May_(computer_scientist)) and [INMOS](https://en.wikipedia.org/wiki/INMOS) | [occam](https://en.wikipedia.org/wiki/Occam_(programming_language)) |
| 1987 | [HyperTalk](https://en.wikipedia.org/wiki/HyperTalk) | [Apple Computer Inc.](https://en.wikipedia.org/wiki/Apple_Inc.) | none (unique language) |
| 1987 | [Perl](https://en.wikipedia.org/wiki/Perl) | [Larry Wall](https://en.wikipedia.org/wiki/Larry_Wall) | C, sed, awk, sh |
| 1987 | [Oberon](https://en.wikipedia.org/wiki/Oberon_(programming_language)) | [Niklaus Wirth](https://en.wikipedia.org/wiki/Niklaus_Wirth) | Modula-2 |
| 1987 | [Mathematica](https://en.wikipedia.org/wiki/Mathematica) ([Wolfram Language](https://en.wikipedia.org/wiki/Wolfram_Language)) | [Wolfram Research](https://en.wikipedia.org/wiki/Wolfram_Research) | none (unique language) |
| 1987 | [Turbo Basic](https://en.wikipedia.org/wiki/Turbo_Basic) | Robert 'Bob' Zale | BASIC/Z |
| 1987 | [Clean](https://en.wikipedia.org/wiki/Clean_(programming_language)) | Software Technology Research Group of [Radboud University Nijmegen](https://en.wikipedia.org/wiki/Radboud_University_Nijmegen) | none (unique language) |
| 1988 | [Octave](https://en.wikipedia.org/wiki/GNU_Octave) |  | [MATLAB](https://en.wikipedia.org/wiki/MATLAB) |
| 1988 | [Tcl](https://en.wikipedia.org/wiki/Tcl) | [John Ousterhout](https://en.wikipedia.org/wiki/John_Ousterhout) | Awk, Lisp |
| 1988 | [STOS BASIC](https://en.wikipedia.org/wiki/STOS_BASIC) | [François Lionet](https://en.wikipedia.org/wiki/Fran%C3%A7ois_Lionet) and [Constantin Sotiropoulos](https://en.wikipedia.org/wiki/Constantin_Sotiropoulos) | [BASIC](https://en.wikipedia.org/wiki/BASIC) |
| 1988 | [Actor](https://en.wikipedia.org/wiki/Actor_(programming_language)) | [Charles Duff, the Whitewater Group](https://en.wikipedia.org/w/index.php?title=Charles_Duff,_the_Whitewater_Group&action=edit&redlink=1) | [Forth, Smalltalk](https://en.wikipedia.org/w/index.php?title=Forth,_Smalltalk&action=edit&redlink=1) |
| 1988 | [Object REXX](https://en.wikipedia.org/wiki/Object_REXX) | Simon C. Nash | REXX, Smalltalk |
| 1988 | [SPARK](https://en.wikipedia.org/wiki/SPARK_(programming_language)) | Bernard A. Carré | Ada |
| 1988 | [A+](https://en.wikipedia.org/wiki/A%2B_(programming_language)) | [Arthur Whitney](https://en.wikipedia.org/wiki/Arthur_Whitney_(computer_scientist)) | APL |
| 1988 | [Hamilton C shell](https://en.wikipedia.org/wiki/Hamilton_C_shell) | Nicole Hamilton | [C shell](https://en.wikipedia.org/wiki/C_shell) |
| 1988-1989 | [C90](https://en.wikipedia.org/wiki/ANSI_C) | C90 ISO/IEC 9899:1990 |  |
| 1989 | [Turbo Pascal OOP](https://en.wikipedia.org/wiki/Turbo_Pascal#Object-oriented_programming) | [Anders Hejlsberg](https://en.wikipedia.org/wiki/Anders_Hejlsberg) at [Borland](https://en.wikipedia.org/wiki/Borland) | Turbo Pascal, Object Pascal |
| 1989 | [Modula-3](https://en.wikipedia.org/wiki/Modula-3) | Cardeli, et al. [DEC](https://en.wikipedia.org/wiki/Digital_Equipment_Corporation) and [Olivetti](https://en.wikipedia.org/wiki/Olivetti) | Modula-2 |
| 1989 | [PowerBASIC](https://en.wikipedia.org/wiki/PowerBASIC) | Robert 'Bob' Zale | Turbo Basic |
| 1989 | [VisSim](https://en.wikipedia.org/wiki/VisSim) | Peter Darnell, [Visual Solutions](https://en.wikipedia.org/w/index.php?title=Visual_Solutions&action=edit&redlink=1) |  |
| 1989 | [LPC](https://en.wikipedia.org/wiki/LPC_(programming_language)) | [Lars Pensjö](https://en.wikipedia.org/wiki/Lars_Pensj%C3%B6) |  |
| 1989 | [Bash](https://en.wikipedia.org/wiki/Bash_(Unix_shell)) | [Brian Fox](https://en.wikipedia.org/wiki/Brian_Fox_(computer_programmer)) | [Bourne shell](https://en.wikipedia.org/wiki/Bourne_shell), [C shell](https://en.wikipedia.org/wiki/C_shell), [Korn shell](https://en.wikipedia.org/wiki/Korn_shell) |
| 1989 | [Magik](https://en.wikipedia.org/wiki/Magik_(programming_language)) | Arthur Chance, of [Smallworld](https://en.wikipedia.org/wiki/Smallworld) Systems Ltd | [Smalltalk](https://en.wikipedia.org/wiki/Smalltalk) |
| 1989 | [Python](https://en.wikipedia.org/wiki/Python_(programming_language)) | [Guido van Rossum](https://en.wikipedia.org/wiki/Guido_van_Rossum) | [ABC](https://en.wikipedia.org/wiki/ABC_(programming_language)), [SETL](https://en.wikipedia.org/wiki/SETL) |
| 1990 | [Sather](https://en.wikipedia.org/wiki/Sather) | [Steve Omohundro](https://en.wikipedia.org/wiki/Steve_Omohundro) | [Eiffel](https://en.wikipedia.org/wiki/Eiffel_(programming_language)) |
| 1990 | [AMOS BASIC](https://en.wikipedia.org/wiki/AMOS_(programming_language)) | [François Lionet](https://en.wikipedia.org/wiki/Fran%C3%A7ois_Lionet) and [Constantin Sotiropoulos](https://en.wikipedia.org/wiki/Constantin_Sotiropoulos) | [STOS BASIC](https://en.wikipedia.org/wiki/STOS_BASIC) |
| 1990 | [AMPL](https://en.wikipedia.org/wiki/AMPL) | [Robert Fourer](https://en.wikipedia.org/wiki/Robert_Fourer), David Gay and [Brian Kernighan](https://en.wikipedia.org/wiki/Brian_Kernighan) at [Bell Laboratories](https://en.wikipedia.org/wiki/Bell_Laboratories) |  |
| 1990 | [Object Oberon](https://en.wikipedia.org/wiki/Object_Oberon) | H Mössenböck, J Templ, R Griesemer | Oberon |
| 1990 | [J](https://en.wikipedia.org/wiki/J_(programming_language)) | [Kenneth E. Iverson](https://en.wikipedia.org/wiki/Kenneth_E._Iverson), [Roger Hui](https://en.wikipedia.org/wiki/Roger_Hui) at Iverson Software | APL, FP |
| 1990 | [Haskell](https://en.wikipedia.org/wiki/Haskell_(programming_language)) |  | Miranda |
| 1990 | [EuLisp](https://en.wikipedia.org/wiki/EuLisp) |  | [Common Lisp](https://en.wikipedia.org/wiki/Common_Lisp), Scheme |
| 1990 | [Z Shell](https://en.wikipedia.org/wiki/Z_shell) (zsh) | Paul Falstad at [Princeton University](https://en.wikipedia.org/wiki/Princeton_University) | ksh |
| 1991 | [GNU E](https://en.wikipedia.org/wiki/GNU_E) | David J. DeWitt, Michael J. Carey | [C++](https://en.wikipedia.org/wiki/C%2B%2B) |
| 1991 | [Oberon-2](https://en.wikipedia.org/wiki/Oberon-2_(programming_language)) | Hanspeter Mössenböck, [Wirth](https://en.wikipedia.org/wiki/Niklaus_Wirth) | Object Oberon |
| 1991 | [Oz](https://en.wikipedia.org/wiki/Oz_(programming_language)) | Gert Smolka and his students | Prolog |
| 1991 | [Q](https://en.wikipedia.org/wiki/Pure_(programming_language)) | Albert Gräf |  |
| 1991 | [Visual Basic](https://en.wikipedia.org/wiki/Visual_Basic) | [Alan Cooper](https://en.wikipedia.org/wiki/Alan_Cooper), sold to [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | QuickBASIC |
| 1992 | [Borland Pascal](https://en.wikipedia.org/wiki/Turbo_Pascal) |  | Turbo Pascal OOP |
| 1992 | [Dylan](https://en.wikipedia.org/wiki/Dylan_(programming_language)) | many people at [Apple Computer Inc.](https://en.wikipedia.org/wiki/Apple_Inc.) | [Common Lisp](https://en.wikipedia.org/wiki/Common_Lisp), Scheme |
| 1992 | [S-Lang](https://en.wikipedia.org/wiki/S-Lang) | John E. Davis | [PostScript](https://en.wikipedia.org/wiki/PostScript) |
| 1993? | [Self](https://en.wikipedia.org/wiki/Self_(programming_language)) (implementation) | [Sun Microsystems](https://en.wikipedia.org/wiki/Sun_Microsystems) Inc. | Smalltalk |
| 1993 | [Amiga E](https://en.wikipedia.org/wiki/Amiga_E) | [Wouter van Oortmerssen](https://en.wikipedia.org/w/index.php?title=Wouter_van_Oortmerssen&action=edit&redlink=1) | DEX, C, Modula-2 |
| 1993 | [Brainfuck](https://en.wikipedia.org/wiki/Brainfuck) | Urban Müller | P′′ |
| 1993 | [LiveCode Transcript](https://en.wikipedia.org/wiki/Transcript_(programming_language)) |  | HyperTalk |
| 1993 | [AppleScript](https://en.wikipedia.org/wiki/AppleScript) | [Apple Computer Inc.](https://en.wikipedia.org/wiki/Apple_Inc.) | HyperTalk |
| 1993 | [K](https://en.wikipedia.org/wiki/K_(programming_language)) | [Arthur Whitney](https://en.wikipedia.org/wiki/Arthur_Whitney_(computer_scientist)) | APL, Lisp |
| 1993 | [Lua](https://en.wikipedia.org/wiki/Lua_(programming_language)) | [Roberto Ierusalimschy](https://en.wikipedia.org/wiki/Roberto_Ierusalimschy) et al. at [Tecgraf, PUC-Rio](https://en.wikipedia.org/w/index.php?title=Tecgraf,_PUC-Rio&action=edit&redlink=1) | Scheme, SNOBOL, Modula, CLU, C++ |
| 1993 | [R](https://en.wikipedia.org/wiki/R_(programming_language)) | [Robert Gentleman](https://en.wikipedia.org/wiki/Robert_Gentleman_(statistician)) and [Ross Ihaka](https://en.wikipedia.org/wiki/Ross_Ihaka) | S |
| 1993 | [ZPL](https://en.wikipedia.org/wiki/ZPL_(programming_language)) | Chamberlain et al. at [University of Washington](https://en.wikipedia.org/wiki/University_of_Washington) | C |
| 1993 | [NewtonScript](https://en.wikipedia.org/wiki/NewtonScript) | Walter Smith | Self, Dylan |
| 1993 | [Euphoria](https://en.wikipedia.org/wiki/Euphoria_(programming_language)) | Robert Craig | SNOBOL, AWK, ABC, Icon, Python |
| 1994 | [Claire](https://en.wikipedia.org/wiki/Claire_(programming_language)) | Yves Caseau | Smalltalk, SETL, OPS5, Lisp, ML, C, LORE, LAURE |
| 1994 | [ANSI Common Lisp](https://en.wikipedia.org/wiki/Common_Lisp) |  | [Common Lisp](https://en.wikipedia.org/wiki/Common_Lisp) |
| 1994 | [RAPID](https://en.wikipedia.org/wiki/RAPID) | [ABB Group](https://en.wikipedia.org/wiki/ABB_Group) | ARLA |
| 1994 | [Pike](https://en.wikipedia.org/wiki/Pike_(programming_language)) | Fredrik Hübinette et al. at [Linköping University](https://en.wikipedia.org/wiki/Link%C3%B6ping_University) | [LPC](https://en.wikipedia.org/wiki/LPC_(programming_language)), C, µLPC |
| 1994 | [ANS Forth](https://en.wikipedia.org/wiki/Forth_(programming_language)) | [Elizabeth Rather](https://en.wikipedia.org/wiki/Elizabeth_Rather), et al. | Forth |
| 1995 | [Ada 95](https://en.wikipedia.org/wiki/Ada_(programming_language)) | S. Tucker Taft, et al. at Intermetrics, Inc. | Ada 83 |
| 1995 | [Borland Delphi](https://en.wikipedia.org/wiki/CodeGear_Delphi) | [Anders Hejlsberg](https://en.wikipedia.org/wiki/Anders_Hejlsberg) at [Borland](https://en.wikipedia.org/wiki/Borland) | Borland Pascal |
| 1995 | [ColdFusion (CFML)](https://en.wikipedia.org/wiki/ColdFusion) | [Allaire](https://en.wikipedia.org/wiki/Allaire_Corporation) |  |
| 1995 | [Java](https://en.wikipedia.org/wiki/Java_(programming_language)) | [James Gosling](https://en.wikipedia.org/wiki/James_Gosling) at [Sun Microsystems](https://en.wikipedia.org/wiki/Sun_Microsystems) | C, Simula 67, C++, Smalltalk, Ada 83, Objective-C, Mesa |
| 1995 | [LiveScript](https://en.wikipedia.org/wiki/JavaScript) | [Brendan Eich](https://en.wikipedia.org/wiki/Brendan_Eich) at [Netscape](https://en.wikipedia.org/wiki/Netscape) | Self, C, Scheme |
| 1995 | [Mercury](https://en.wikipedia.org/wiki/Mercury_(programming_language)) | [Zoltan Somogyi](https://en.wikipedia.org/wiki/Zoltan_Somogyi) at [University of Melbourne](https://en.wikipedia.org/wiki/University_of_Melbourne) | Prolog, Hope, Haskell |
| 1995 | [PHP](https://en.wikipedia.org/wiki/PHP) | [Rasmus Lerdorf](https://en.wikipedia.org/wiki/Rasmus_Lerdorf) | Perl |
| 1995 | [Ruby](https://en.wikipedia.org/wiki/Ruby_(programming_language)) | [Yukihiro Matsumoto](https://en.wikipedia.org/wiki/Yukihiro_Matsumoto) | Smalltalk, Perl |
| 1995 | [JavaScript](https://en.wikipedia.org/wiki/JavaScript) | [Brendan Eich](https://en.wikipedia.org/wiki/Brendan_Eich) at [Netscape](https://en.wikipedia.org/wiki/Netscape) | LiveScript |
| 1995 | [Racket](https://en.wikipedia.org/wiki/Racket_(programming_language)) | [Matthew Flatt](https://en.wikipedia.org/wiki/Matthew_Flatt) at [Rice University](https://en.wikipedia.org/wiki/Rice_University) | [Scheme](https://en.wikipedia.org/wiki/Scheme_(programming_language)), [Lisp](https://en.wikipedia.org/wiki/Lisp_(programming_language)) |
| 1996 | [Curl](https://en.wikipedia.org/wiki/Curl_(programming_language)) | David Kranz, Steve Ward, Chris Terman at [MIT](https://en.wikipedia.org/wiki/Massachusetts_Institute_of_Technology) | Lisp, C++, Tcl/Tk, TeX, HTML |
| 1996 | [Lasso](https://en.wikipedia.org/wiki/Lasso_(programming_language)) | [Blue World Communications Inc.](https://en.wikipedia.org/w/index.php?title=Blue_World_Communications_Inc.&action=edit&redlink=1) |  |
| 1996 | [Perl Data Language](https://en.wikipedia.org/wiki/Perl_Data_Language) (PDL) | [Karl Glazebrook](https://en.wikipedia.org/wiki/Karl_Glazebrook), [Jarle Brinchmann](https://en.wikipedia.org/w/index.php?title=Jarle_Brinchmann&action=edit&redlink=1), [Tuomas Lukka](https://en.wikipedia.org/w/index.php?title=Tuomas_Lukka&action=edit&redlink=1), and [Christian Soeller](https://en.wikipedia.org/w/index.php?title=Christian_Soeller&action=edit&redlink=1) | APL, Perl |
| 1996 | [VBScript](https://en.wikipedia.org/wiki/VBScript) | Microsoft | Visual Basic |
| 1996 | [OCaml](https://en.wikipedia.org/wiki/OCaml) | [INRIA](https://en.wikipedia.org/wiki/INRIA) | Caml Light, Standard ML |
| 1996 | [NetRexx](https://en.wikipedia.org/wiki/NetRexx) | [Mike Cowlishaw](https://en.wikipedia.org/wiki/Mike_Cowlishaw) | REXX |
| 1997 | [Component Pascal](https://en.wikipedia.org/wiki/Component_Pascal) | Oberon microsystems, Inc | Oberon-2 |
| 1997 | [E](https://en.wikipedia.org/wiki/E_(programming_language)) | [Mark S. Miller](https://en.wikipedia.org/wiki/Mark_S._Miller) | Joule, Original-E |
| 1997 | [Pico](https://en.wikipedia.org/wiki/Pico_(programming_language)) | Free University of [Brussels](https://en.wikipedia.org/wiki/Brussels) | Scheme |
| 1997 | [Squeak](https://en.wikipedia.org/wiki/Squeak) | [Alan Kay](https://en.wikipedia.org/wiki/Alan_Kay), et al. at [Apple Computer Inc.](https://en.wikipedia.org/wiki/Apple_Inc.) | Smalltalk-80, Self |
| 1997 | [ECMAScript](https://en.wikipedia.org/wiki/ECMAScript) | [ECMA](https://en.wikipedia.org/wiki/Ecma_International) TC39-TG1 | JavaScript |
| 1997 | [F-Script](https://en.wikipedia.org/wiki/F-Script_(programming_language)) | Philippe Mougin | Smalltalk, APL, Objective-C |
| 1997 | [ISLISP](https://en.wikipedia.org/wiki/ISLISP) | ISO Standard ISLISP | [Common Lisp](https://en.wikipedia.org/wiki/Common_Lisp) |
| 1997 | [Tea](https://en.wikipedia.org/wiki/Tea_(programming_language)) | Jorge Nunes | [Java](https://en.wikipedia.org/wiki/Java_(programming_language)), [Scheme](https://en.wikipedia.org/wiki/Scheme_(programming_language)), [Tcl](https://en.wikipedia.org/wiki/Tcl) |
| 1997 | [REBOL](https://en.wikipedia.org/wiki/REBOL) | [Carl Sassenrath](https://en.wikipedia.org/wiki/Carl_Sassenrath), Rebol Technologies | [Self](https://en.wikipedia.org/wiki/Self_(programming_language)), [Forth](https://en.wikipedia.org/wiki/Forth_(programming_language)), [Lisp](https://en.wikipedia.org/wiki/Lisp_(programming_language)), [Logo](https://en.wikipedia.org/wiki/Logo_(programming_language)) |
| 1998 | [Logtalk](https://en.wikipedia.org/wiki/Logtalk) | Paulo Moura (then at [University of Coimbra](https://en.wikipedia.org/wiki/University_of_Coimbra)) | Prolog |
| 1998 | [ActionScript](https://en.wikipedia.org/wiki/ActionScript) | [Gary Grossman](https://en.wikipedia.org/wiki/Gary_Grossman) | ECMAScript |
| 1998 | [Standard C++](https://en.wikipedia.org/wiki/C%2B%2B) | ANSI/ISO Standard C++ | C++, Standard C, C |
| 1998 | [M2001](https://en.wikipedia.org/wiki/M2001) | Ronald E. Prather, [Trinity University (Texas)](https://en.wikipedia.org/wiki/Trinity_University_(Texas)) | none (unique language) |
| 1998 | [Pikt](https://en.wikipedia.org/w/index.php?title=PIKT&action=edit&redlink=1) | Robert Osterlund (then at [University of Chicago](https://en.wikipedia.org/wiki/University_of_Chicago)) | AWK, Perl, Unix shell |
| 1998 | [PureBasic](https://en.wikipedia.org/wiki/PureBasic) | Frederic Laboureur, Fantaisie Software |  |
| 1998 | [UnrealScript](https://en.wikipedia.org/wiki/UnrealScript) | [Tim Sweeney](https://en.wikipedia.org/wiki/Tim_Sweeney_(game_developer)) at [Epic Games](https://en.wikipedia.org/wiki/Epic_Games) | C++, Java |
| 1998 | [XSLT](https://en.wikipedia.org/wiki/XSL_Transformations) (+ [XPath](https://en.wikipedia.org/wiki/XPath)) | [W3C](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium), [James Clark](https://en.wikipedia.org/wiki/James_Clark_(XML_expert)) | [DSSSL](https://en.wikipedia.org/wiki/Document_Style_Semantics_and_Specification_Language) |
| 1998 | [Xojo](https://en.wikipedia.org/wiki/Xojo) (REALbasic at the time) | Xojo, Inc., Andrew Barry | Visual Basic |
| 1999 | [C99](https://en.wikipedia.org/wiki/C99) | C99 ISO/IEC 9899:1999 |  |
| 1999 | [Gambas](https://en.wikipedia.org/wiki/Gambas) | [Benoît Minisini](https://en.wikipedia.org/wiki/Beno%C3%AEt_Minisini) | [Visual Basic](https://en.wikipedia.org/wiki/Visual_Basic), [Java](https://en.wikipedia.org/wiki/Java_(programming_language)) |
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| 1999 | [Harbour](https://en.wikipedia.org/wiki/Harbour_(software)) | Antonio Linares | [dBase](https://en.wikipedia.org/wiki/DBase) |
| 2000 | [Join Java](https://en.wikipedia.org/wiki/Join_Java) | G Stewart von Itzstein | Java |
| 2000 | [DarkBasic](https://en.wikipedia.org/wiki/DarkBASIC) | [The Game Creators](https://en.wikipedia.org/wiki/The_Game_Creators) |  |
| 2000 | [C#](https://en.wikipedia.org/wiki/C_Sharp_(programming_language)) | [Anders Hejlsberg](https://en.wikipedia.org/wiki/Anders_Hejlsberg), [Microsoft](https://en.wikipedia.org/wiki/Microsoft) ([ECMA](https://en.wikipedia.org/wiki/Ecma_International)) | C, C++, Java, Delphi, Modula-2 |
| 2001 | [Joy](https://en.wikipedia.org/wiki/Joy_(programming_language)) | Manfred von Thun | FP, Forth |
| 2001 | [AspectJ](https://en.wikipedia.org/wiki/AspectJ) | [Gregor Kiczales](https://en.wikipedia.org/wiki/Gregor_Kiczales), [Xerox PARC](https://en.wikipedia.org/wiki/PARC_(company)) | Java, Common Lisp |
| 2001 | [D](https://en.wikipedia.org/wiki/D_(programming_language)) | [Walter Bright](https://en.wikipedia.org/wiki/Walter_Bright), Digital Mars | C, C++, C#, Java |
| 2001 | [Processing](https://en.wikipedia.org/wiki/Processing_(programming_language)) | [Casey Reas](https://en.wikipedia.org/wiki/Casey_Reas) and [Benjamin Fry](https://en.wikipedia.org/wiki/Benjamin_Fry) | [Java](https://en.wikipedia.org/wiki/Java_(programming_language)), [C](https://en.wikipedia.org/wiki/C_(programming_language)), [C++](https://en.wikipedia.org/wiki/C%2B%2B)[[10]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-10) |
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| 2001 | [GDScript](https://en.wikipedia.org/wiki/GDScript) (GDS) | [OKAM Studio](https://en.wikipedia.org/w/index.php?title=OKAM_Studio&action=edit&redlink=1) | [Godot](https://en.wikipedia.org/wiki/Godot_(game_engine)) |
| 2001 | [Shakespeare Programming Language](https://en.wikipedia.org/wiki/Shakespeare_Programming_Language) | Jon Åslund and Karl Hasselström. |  |
| 2002 | [Io](https://en.wikipedia.org/wiki/Io_(programming_language)) | Steve Dekorte | Self, NewtonScript, Lua |
| 2002 | [Gosu](https://en.wikipedia.org/wiki/Gosu_(programming_language)) | Guidewire Software | GScript |
| 2002 | [Scratch](https://en.wikipedia.org/wiki/Scratch_(programming_language)) | [Mitchel Resnick](https://en.wikipedia.org/wiki/Mitchel_Resnick), John Maloney, Natalie Rusk, Evelyn Eastmond, Tammy Stern, Amon Millner, Jay Silver, and Brian Silverman | [Logo](https://en.wikipedia.org/wiki/Logo_(programming_language)), [Smalltalk](https://en.wikipedia.org/wiki/Smalltalk), [Squeak](https://en.wikipedia.org/wiki/Squeak), [E-Toys](https://en.wikipedia.org/wiki/Squeak#E-Toys), [HyperCard](https://en.wikipedia.org/wiki/HyperCard), AgentSheets, StarLogo, Tweak, [BYOB](https://en.wikipedia.org/wiki/BYOB_(programming_language)) |
| 2003 | [Nemerle](https://en.wikipedia.org/wiki/Nemerle) | University of [Wrocław](https://en.wikipedia.org/wiki/Wroc%C5%82aw) | C#, [ML](https://en.wikipedia.org/wiki/Standard_ML), MetaHaskell |
| 2003 | [Factor](https://en.wikipedia.org/wiki/Factor_(programming_language)) | [Slava Pestov](https://en.wikipedia.org/wiki/Slava_Pestov) | Joy, Forth, Lisp |
| 2003 | [Scala](https://en.wikipedia.org/wiki/Scala_(programming_language)) | [Martin Odersky](https://en.wikipedia.org/wiki/Martin_Odersky) | Smalltalk, Java, Haskell, Standard ML, OCaml |
| 2003 | [C++03](https://en.wikipedia.org/wiki/C%2B%2B03) | C++ ISO/IEC 14882:2003 | [C++](https://en.wikipedia.org/wiki/C%2B%2B), Standard C, [C](https://en.wikipedia.org/wiki/C_(programming_language)) |
| 2003 | [Squirrel](https://en.wikipedia.org/wiki/Squirrel_(programming_language)) | Alberto Demichelis | Lua |
| 2003 | [Boo](https://en.wikipedia.org/wiki/Boo_(programming_language)) | Rodrigo B. de Oliveira | Python, C# |
| 2004 | [Subtext](https://en.wikipedia.org/wiki/Subtext_(programming_language)) | Jonathan Edwards | none (unique language) |
| 2004 | [Alma-0](https://en.wikipedia.org/wiki/Alma-0) | Krzysztof Apt, [Centrum Wiskunde & Informatica](https://en.wikipedia.org/wiki/Centrum_Wiskunde_%26_Informatica) | none (unique language) |
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| 2004 | [Groovy](https://en.wikipedia.org/wiki/Groovy_(programming_language)) | [James Strachan](https://en.wikipedia.org/wiki/James_Strachan_(programmer)) | [Java](https://en.wikipedia.org/wiki/Java_(programming_language)) |
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| 2005 | [Fantom](https://en.wikipedia.org/wiki/Fantom_(programming_language)) | Brian Frank, Andy Frank | C#, Scala, Ruby, Erlang |
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| 2005 | [Seed7](https://en.wikipedia.org/wiki/Seed7) | Thomas Mertes | none (unique language) |
| 2006 | [Cobra](https://en.wikipedia.org/wiki/Cobra_(programming_language)) | ChuckEsterbrook | Python, C#, Eiffel, Objective-C |
| 2006 | [Windows PowerShell](https://en.wikipedia.org/wiki/Windows_PowerShell) | [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | C#, ksh, Perl, [CL](https://en.wikipedia.org/wiki/AS/400_Control_Language), [DCL](https://en.wikipedia.org/wiki/DIGITAL_Command_Language), SQL |
| 2006 | [OptimJ](https://en.wikipedia.org/wiki/OptimJ) | [Ateji](https://en.wikipedia.org/wiki/Ateji) | [Java](https://en.wikipedia.org/wiki/Java_(programming_language)) |
| 2006 | [Fortress](https://en.wikipedia.org/wiki/Fortress_(programming_language)) | [Guy Steele](https://en.wikipedia.org/wiki/Guy_L._Steele,_Jr.) | [Scala](https://en.wikipedia.org/wiki/Scala_(programming_language)), [ML](https://en.wikipedia.org/wiki/Standard_ML), [Haskell](https://en.wikipedia.org/wiki/Haskell_(programming_language)) |
| 2006 | [Vala](https://en.wikipedia.org/wiki/Vala_(programming_language)) | [GNOME](https://en.wikipedia.org/wiki/GNOME) | C# |
| 2007 | [Ada 2005](https://en.wikipedia.org/wiki/Ada_(programming_language)) | Ada Rapporteur Group | Ada 95 |
| 2007 | [Agda](https://en.wikipedia.org/wiki/Agda_(programming_language)) | Ulf Norell | [Coq](https://en.wikipedia.org/wiki/Coq), [Epigram](https://en.wikipedia.org/wiki/Epigram_(programming_language)), [Haskell](https://en.wikipedia.org/wiki/Haskell_(programming_language)) |
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| 2008 | [Genie](https://en.wikipedia.org/wiki/Genie_(programming_language)) | Jamie McCracken | [Python](https://en.wikipedia.org/wiki/Python_(programming_language)), [Boo](https://en.wikipedia.org/wiki/Boo_(programming_language)), [D](https://en.wikipedia.org/wiki/D_(programming_language)), [Object Pascal](https://en.wikipedia.org/wiki/Object_Pascal) |
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| 2009 | [Chapel](https://en.wikipedia.org/wiki/Chapel_(programming_language)) | Brad Chamberlain, [Cray](https://en.wikipedia.org/wiki/Cray) Inc. | [HPF](https://en.wikipedia.org/wiki/High_Performance_Fortran), [ZPL](https://en.wikipedia.org/wiki/ZPL_(programming_language)) |
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| 2011 | [Red](https://en.wikipedia.org/wiki/Red_(programming_language)) | Nenad Rakocevic | [Rebol](https://en.wikipedia.org/wiki/Rebol), [Scala](https://en.wikipedia.org/wiki/Scala_(programming_language)), [Lua](https://en.wikipedia.org/wiki/Lua_(programming_language)) |
| 2011 | [Opa](https://en.wikipedia.org/wiki/Opa_(programming_language)) | MLstate | [OCaml](https://en.wikipedia.org/wiki/OCaml), [Erlang](https://en.wikipedia.org/wiki/Erlang_(programming_language)), [JavaScript](https://en.wikipedia.org/wiki/JavaScript) |
| 2012 | [Elixir](https://en.wikipedia.org/wiki/Elixir_(programming_language)) | José Valim | [Erlang](https://en.wikipedia.org/wiki/Erlang_(programming_language)), [Ruby](https://en.wikipedia.org/wiki/Ruby_(programming_language)), [Clojure](https://en.wikipedia.org/wiki/Clojure) |
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| 2012 | [TypeScript](https://en.wikipedia.org/wiki/TypeScript) | [Anders Hejlsberg](https://en.wikipedia.org/wiki/Anders_Hejlsberg), [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | [JavaScript](https://en.wikipedia.org/wiki/JavaScript), [CoffeeScript](https://en.wikipedia.org/wiki/CoffeeScript) |
| 2012 | [Julia](https://en.wikipedia.org/wiki/Julia_(programming_language)) | [Jeff Bezanson](https://en.wikipedia.org/wiki/Jeff_Bezanson), [Stefan Karpinski](https://en.wikipedia.org/wiki/Stefan_Karpinski), Viral Shah, [Alan Edelman](https://en.wikipedia.org/wiki/Alan_Edelman), [MIT](https://en.wikipedia.org/wiki/Massachusetts_Institute_of_Technology) | [MATLAB](https://en.wikipedia.org/wiki/MATLAB), [Lisp](https://en.wikipedia.org/wiki/Lisp_(programming_language)), [C](https://en.wikipedia.org/wiki/C_(programming_language)), [Fortran](https://en.wikipedia.org/wiki/Fortran), [Mathematica](https://en.wikipedia.org/wiki/Mathematica)[[11]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-11) (strictly its [Wolfram Language](https://en.wikipedia.org/wiki/Wolfram_Language)), [Python](https://en.wikipedia.org/wiki/Python_(programming_language)), [Perl](https://en.wikipedia.org/wiki/Perl), [R](https://en.wikipedia.org/wiki/R_(programming_language)), [Ruby](https://en.wikipedia.org/wiki/Ruby_(programming_language)), [Lua](https://en.wikipedia.org/wiki/Lua_(programming_language))[[12]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-12) |
| 2012 | [P](https://en.wikipedia.org/wiki/P_(programming_language)) | Vivek Gupta, [Ethan Jackson](https://en.wikipedia.org/w/index.php?title=Ethan_Jackson&action=edit&redlink=1), [Shaz Qadeer](https://en.wikipedia.org/w/index.php?title=Shaz_Qadeer&action=edit&redlink=1), [Sriram Rajamani](https://en.wikipedia.org/w/index.php?title=Sriram_Rajamani&action=edit&redlink=1), [Microsoft](https://en.wikipedia.org/wiki/Microsoft) |  |
| 2012 | [Ada 2012](https://en.wikipedia.org/wiki/Ada_(programming_language)) | ARA and Ada Europe (ISO/IEC 8652:2012) | Ada 2005, ISO/IEC 8652:1995/Amd 1:2007 |
| 2013 | [P4](https://en.wikipedia.org/wiki/P4_(programming_language)) | P4 Language Consortium ([P4.org](https://P4.org)) |  |
| 2013 | [PureScript](https://en.wikipedia.org/wiki/PureScript) | Phil Freeman | [Haskell](https://en.wikipedia.org/wiki/Haskell_(programming_language)) |
| 2013 | [Hopscotch](https://en.wikipedia.org/wiki/Hopscotch_(programming_language)) | Hopscotch Technologies | [Scratch](https://en.wikipedia.org/wiki/Scratch_(programming_language)) |
| 2013 | [Cuneiform](https://en.wikipedia.org/wiki/Cuneiform_(programming_language)) | Jörgen Brandt | [Swift (parallel scripting language)](https://en.wikipedia.org/wiki/Swift_(parallel_scripting_language)) |
| 2014 | [Crystal](https://en.wikipedia.org/wiki/Crystal_(programming_language)) | Ary Borenszweig, Manas Technology Solutions | [Ruby](https://en.wikipedia.org/wiki/Ruby_(programming_language)), [C](https://en.wikipedia.org/wiki/C_(programming_language)), [Rust](https://en.wikipedia.org/wiki/Rust_(programming_language)), [Go](https://en.wikipedia.org/wiki/Go_(programming_language)), [C#](https://en.wikipedia.org/wiki/C_Sharp_(programming_language)), [Python](https://en.wikipedia.org/wiki/Python_(programming_language)) |
| 2014 | [Hack](https://en.wikipedia.org/wiki/Hack_(programming_language)) | [Facebook](https://en.wikipedia.org/wiki/Facebook) | [PHP](https://en.wikipedia.org/wiki/PHP) |
| 2014 | [Swift](https://en.wikipedia.org/wiki/Swift_(programming_language)) | [Apple Inc.](https://en.wikipedia.org/wiki/Apple_Inc.) | [Objective-C](https://en.wikipedia.org/wiki/Objective-C), [Rust](https://en.wikipedia.org/wiki/Rust_(programming_language)), [Haskell](https://en.wikipedia.org/wiki/Haskell_(programming_language)), [Ruby](https://en.wikipedia.org/wiki/Ruby_(programming_language)), [Python](https://en.wikipedia.org/wiki/Python_(programming_language)), [C#](https://en.wikipedia.org/wiki/C_Sharp_(programming_language)), [CLU](https://en.wikipedia.org/wiki/CLU_(programming_language)) |
| 2014 | [C++14](https://en.wikipedia.org/wiki/C%2B%2B14) | C++ ISO/IEC 14882:2014 | [C++](https://en.wikipedia.org/wiki/C%2B%2B), Standard C, [C](https://en.wikipedia.org/wiki/C_(programming_language)) |
| 2015 | [MakeCode](https://en.wikipedia.org/w/index.php?title=MakeCode&action=edit&redlink=1) | [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | [TypeScript](https://en.wikipedia.org/wiki/TypeScript) |
| 2015 | [Raku](https://en.wikipedia.org/wiki/Raku_(programming_language)) | [The Rakudo Team](https://github.com/rakudo/rakudo/blob/master/CREDITS) | [Perl](https://en.wikipedia.org/wiki/Perl), [Haskell](https://en.wikipedia.org/wiki/Haskell_(programming_language)), [Python](https://en.wikipedia.org/wiki/Python_(programming_language)), [Ruby](https://en.wikipedia.org/wiki/Ruby_(programming_language)) |
| 2016 | [Reason](https://en.wikipedia.org/wiki/Reason_(programming_language)) | Jordan Walke | [JavaScript](https://en.wikipedia.org/wiki/JavaScript), [OCaml](https://en.wikipedia.org/wiki/OCaml)[[13]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-13) |
| 2017 | [C++17](https://en.wikipedia.org/wiki/C%2B%2B17) | C++ ISO/IEC 14882:2017 | [C++](https://en.wikipedia.org/wiki/C%2B%2B), Standard C, [C](https://en.wikipedia.org/wiki/C_(programming_language)) |
| 2017 | [Ballerina](https://en.wikipedia.org/wiki/Ballerina_(programming_language)) | [WSO2](https://en.wikipedia.org/wiki/WSO2), Open Source[[14]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-14) | [Java](https://en.wikipedia.org/wiki/Java_(programming_language)), [Javascript](https://en.wikipedia.org/wiki/Javascript_(programming_language)), [Go](https://en.wikipedia.org/wiki/Go_(programming_language)), [Rust](https://en.wikipedia.org/wiki/Rust_(programming_language)), [C#](https://en.wikipedia.org/wiki/C_Sharp_(programming_language)) |
| 2018 | [C18](https://en.wikipedia.org/wiki/C18_(C_standard_revision)) | C18 ISO/IEC 9899:2018 |  |
| 2018 | [Fortran 2018](https://en.wikipedia.org/wiki/Fortran#Fortran_2018) | ISO/IEC JTC1/SC22/WG5 N2150:2018 | [Fortran 2008](https://en.wikipedia.org/wiki/Fortran#Fortran_2008) |
| 2019 | [Bosque](https://en.wikipedia.org/wiki/Bosque_(programming_language)) | Mark Marron, [Microsoft](https://en.wikipedia.org/wiki/Microsoft) | [JavaScript](https://en.wikipedia.org/wiki/JavaScript), [TypeScript](https://en.wikipedia.org/wiki/TypeScript), [ML](https://en.wikipedia.org/wiki/ML_(programming_language)) |

3. **Modular programming** (also called "top-down design" and "stepwise refinement") is a software design technique that emphasizes separating the functionality of a program into independent, interchangeable modules, such that each contains everything necessary to execute only one aspect of the desired functionality. **Modular programming** just implies you have these two (or more) modules, but says nothing of how they achieve what they achieve. The modules can use object-oriented approaches or not at all and use procedural C-style programming. The way you described modular programming via classes is just a way of separating modules. You can separate them as classes, or you can separate them as functions across multiple compilation units, for example. It's your choice.

**An object-oriented program** usually contains different types of objects, each corresponding to a particular kind of complex data to manage, or perhaps to a real-world object or concept such as a bank account, a hockey player, or a bulldozer. **Object-oriented programming** implies that your program is, well, **oriented towards objects**. It says nothing about modules within your application but demands that logical pieces that represent some ideas within the application are modeled via classes and objects.