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

COURSE CODE: **CSC 302**

**ASSIGNMENT**

1i).

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| --- |
| **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 |

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| --- |
| **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 |

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| --- |
| **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 |

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| **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 |

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| **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

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| --- | --- | --- |
| **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

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| --- | --- | --- |
| **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

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| --- | --- | --- |
| **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

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| --- | --- | --- |
| **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

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| --- | --- | --- |
| **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

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| --- | --- | --- |
| **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 |

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| --- | --- | --- | --- | --- | --- |
| **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_%28computer_scientist%29)  | ENIAC coding system  |
| 1949  | [Short Code](https://en.wikipedia.org/wiki/Short_Code_%28computer_language%29)  | [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_%28computer_language%29)  | 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_%28computer%29)  | 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_%28computer_scientist%29)  | 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_%28computer%29)  | 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_%28computing%29)  | 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_%28programming_language%29) (concept)  | [John McCarthy](https://en.wikipedia.org/wiki/John_McCarthy_%28computer_scientist%29)  | 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_%28programming_language%29)  | [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_%28programming_language%29)  | [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_%28programming_language%29) (implementation)  | [John McCarthy](https://en.wikipedia.org/wiki/John_McCarthy_%28computer_scientist%29)  | IPL  |
| 1959  | [MAD – Michigan Algorithm Decoder](https://en.wikipedia.org/wiki/MAD_%28programming_language%29)  | [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_%28programming_language%29) (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_%28programming_language%29) (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  |
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| 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_%28programming_language%29) (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_%28programming_language%29) (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_%28computational_environment%29)  | 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_%28programming_language%29)  | Chris Gray  | [Pascal](https://en.wikipedia.org/wiki/Pascal_%28programming_language%29), [C](https://en.wikipedia.org/wiki/C_%28programming_language%29), [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_%28programming_language%29)  | [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_%28programming_language%29)  |
| 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_%28programming_language%29)  |
| 1983  | [Ada 83](https://en.wikipedia.org/wiki/Ada_%28programming_language%29) (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_%28programming_language%29)  | [David May](https://en.wikipedia.org/wiki/David_May_%28computer_scientist%29)  | 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_%28computer_scientist%29)  | 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_%28programming_language%29)  |
| 1984  | [CLIPPER](https://en.wikipedia.org/wiki/Clipper_%28programming_language%29)  | [Nantucket](https://en.wikipedia.org/wiki/Nantucket%2C_Massachusetts)  | dBase  |
| 1984  | [Common Lisp](https://en.wikipedia.org/wiki/Common_Lisp)  | [Guy L. Steele, Jr.](https://en.wikipedia.org/wiki/Guy_L._Steele%2C_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_%28programming_language%29)  | [Hewlett-Packard](https://en.wikipedia.org/wiki/Hewlett-Packard)  | [Forth](https://en.wikipedia.org/wiki/Forth_%28programming_language%29), [Lisp](https://en.wikipedia.org/wiki/Lisp_%28programming_language%29)  |
| 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_%28company%29)  | [BASIC](https://en.wikipedia.org/wiki/BASIC)  |
| 1985  | [PARADOX](https://en.wikipedia.org/wiki/Paradox_%28database%29)  | [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_%28programming_language%29)  | Bruce Barrington  |  |
| 1986  | [CorVision](https://en.wikipedia.org/wiki/CorVision)  | Cortex  | INFORM  |
| 1986  | [Eiffel](https://en.wikipedia.org/wiki/Eiffel_%28programming_language%29)  | [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_%28programming_language%29)  | [David Turner](https://en.wikipedia.org/wiki/David_Turner_%28computer_scientist%29) 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_%28programming_language%29)  | Joe Armstrong and others in [Ericsson](https://en.wikipedia.org/wiki/Ericsson)  | Prolog  |
| 1987  | [Ada ISO 8652:1987](https://en.wikipedia.org/wiki/Ada_%28programming_language%29)  | [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_%28programming_language%29) (concept)  | [Sun Microsystems](https://en.wikipedia.org/wiki/Sun_Microsystems) Inc.  | Smalltalk  |
| 1987  | [occam 2](https://en.wikipedia.org/wiki/Occam_%28programming_language%29)  | [David May](https://en.wikipedia.org/wiki/David_May_%28computer_scientist%29) and [INMOS](https://en.wikipedia.org/wiki/INMOS)  | [occam](https://en.wikipedia.org/wiki/Occam_%28programming_language%29)  |
| 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_%28programming_language%29)  | [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_%28programming_language%29)  | 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_%28programming_language%29)  | [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_%28programming_language%29)  | Bernard A. Carré  | Ada  |
| 1988  | [A+](https://en.wikipedia.org/wiki/A%2B_%28programming_language%29)  | [Arthur Whitney](https://en.wikipedia.org/wiki/Arthur_Whitney_%28computer_scientist%29)  | 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_%28programming_language%29)  | [Lars Pensjö](https://en.wikipedia.org/wiki/Lars_Pensj%C3%B6)  |  |
| 1989  | [Bash](https://en.wikipedia.org/wiki/Bash_%28Unix_shell%29)  | [Brian Fox](https://en.wikipedia.org/wiki/Brian_Fox_%28computer_programmer%29)  | [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_%28programming_language%29)  | 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_%28programming_language%29)  | [Guido van Rossum](https://en.wikipedia.org/wiki/Guido_van_Rossum)  | [ABC](https://en.wikipedia.org/wiki/ABC_%28programming_language%29), [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_%28programming_language%29)  |
| 1990  | [AMOS BASIC](https://en.wikipedia.org/wiki/AMOS_%28programming_language%29)  | [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_%28programming_language%29)  | [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_%28programming_language%29)  |  | 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_%28programming_language%29)  | Hanspeter Mössenböck, [Wirth](https://en.wikipedia.org/wiki/Niklaus_Wirth)  | Object Oberon  |
| 1991  | [Oz](https://en.wikipedia.org/wiki/Oz_%28programming_language%29)  | Gert Smolka and his students  | Prolog  |
| 1991  | [Q](https://en.wikipedia.org/wiki/Pure_%28programming_language%29)  | 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_%28programming_language%29)  | 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_%28programming_language%29) (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_%28programming_language%29)  |  | 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_%28programming_language%29)  | [Arthur Whitney](https://en.wikipedia.org/wiki/Arthur_Whitney_%28computer_scientist%29)  | APL, Lisp  |
| 1993  | [Lua](https://en.wikipedia.org/wiki/Lua_%28programming_language%29)  | [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_%28programming_language%29)  | [Robert Gentleman](https://en.wikipedia.org/wiki/Robert_Gentleman_%28statistician%29) and [Ross Ihaka](https://en.wikipedia.org/wiki/Ross_Ihaka)  | S  |
| 1993  | [ZPL](https://en.wikipedia.org/wiki/ZPL_%28programming_language%29)  | 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_%28programming_language%29)  | Robert Craig  | SNOBOL, AWK, ABC, Icon, Python  |
| 1994  | [Claire](https://en.wikipedia.org/wiki/Claire_%28programming_language%29)  | 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_%28programming_language%29)  | Fredrik Hübinette et al. at [Linköping University](https://en.wikipedia.org/wiki/Link%C3%B6ping_University)  | [LPC](https://en.wikipedia.org/wiki/LPC_%28programming_language%29), C, µLPC  |
| 1994  | [ANS Forth](https://en.wikipedia.org/wiki/Forth_%28programming_language%29)  | [Elizabeth Rather](https://en.wikipedia.org/wiki/Elizabeth_Rather), et al.  | Forth  |
| 1995  | [Ada 95](https://en.wikipedia.org/wiki/Ada_%28programming_language%29)  | 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_%28programming_language%29)  | [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_%28programming_language%29)  | [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_%28programming_language%29)  | [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_%28programming_language%29)  | [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_%28programming_language%29), [Lisp](https://en.wikipedia.org/wiki/Lisp_%28programming_language%29)  |
| 1996  | [Curl](https://en.wikipedia.org/wiki/Curl_%28programming_language%29)  | David Kranz, Steve Ward, Chris Terman at [MIT](https://en.wikipedia.org/wiki/Massachusetts_Institute_of_Technology)  | Lisp, C++, Tcl/Tk, TeX, HTML  |
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| 2003  | [Scala](https://en.wikipedia.org/wiki/Scala_%28programming_language%29)  | [Martin Odersky](https://en.wikipedia.org/wiki/Martin_Odersky)  | Smalltalk, Java, Haskell, Standard ML, OCaml  |
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| 2012  | [Elm](https://en.wikipedia.org/wiki/Elm_%28programming_language%29)  | Evan Czaplicki  | [Haskell](https://en.wikipedia.org/wiki/Haskell_%28programming_language%29), [Standard ML](https://en.wikipedia.org/wiki/Standard_ML), [OCaml](https://en.wikipedia.org/wiki/OCaml), [F#](https://en.wikipedia.org/wiki/F_Sharp_%28programming_language%29)  |
| 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_%28programming_language%29)  | [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_%28programming_language%29), [C](https://en.wikipedia.org/wiki/C_%28programming_language%29), [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_%28programming_language%29), [Perl](https://en.wikipedia.org/wiki/Perl), [R](https://en.wikipedia.org/wiki/R_%28programming_language%29), [Ruby](https://en.wikipedia.org/wiki/Ruby_%28programming_language%29), [Lua](https://en.wikipedia.org/wiki/Lua_%28programming_language%29)[[12]](https://en.wikipedia.org/wiki/Timeline_of_programming_languages#cite_note-12)  |
| 2012  | [P](https://en.wikipedia.org/wiki/P_%28programming_language%29)  | 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_%28programming_language%29)  | 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_%28programming_language%29)  | 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_%28programming_language%29)  |
| 2013  | [Hopscotch](https://en.wikipedia.org/wiki/Hopscotch_%28programming_language%29)  | Hopscotch Technologies  | [Scratch](https://en.wikipedia.org/wiki/Scratch_%28programming_language%29)  |
| 2013  | [Cuneiform](https://en.wikipedia.org/wiki/Cuneiform_%28programming_language%29)  | Jörgen Brandt  | [Swift (parallel scripting language)](https://en.wikipedia.org/wiki/Swift_%28parallel_scripting_language%29)  |
| 2014  | [Crystal](https://en.wikipedia.org/wiki/Crystal_%28programming_language%29)  | Ary Borenszweig, Manas Technology Solutions  | [Ruby](https://en.wikipedia.org/wiki/Ruby_%28programming_language%29), [C](https://en.wikipedia.org/wiki/C_%28programming_language%29), [Rust](https://en.wikipedia.org/wiki/Rust_%28programming_language%29), [Go](https://en.wikipedia.org/wiki/Go_%28programming_language%29), [C#](https://en.wikipedia.org/wiki/C_Sharp_%28programming_language%29), [Python](https://en.wikipedia.org/wiki/Python_%28programming_language%29)  |
| 2014  | [Hack](https://en.wikipedia.org/wiki/Hack_%28programming_language%29)  | [Facebook](https://en.wikipedia.org/wiki/Facebook)  | [PHP](https://en.wikipedia.org/wiki/PHP)  |
| 2014  | [Swift](https://en.wikipedia.org/wiki/Swift_%28programming_language%29)  | [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_%28programming_language%29), [Haskell](https://en.wikipedia.org/wiki/Haskell_%28programming_language%29), [Ruby](https://en.wikipedia.org/wiki/Ruby_%28programming_language%29), [Python](https://en.wikipedia.org/wiki/Python_%28programming_language%29), [C#](https://en.wikipedia.org/wiki/C_Sharp_%28programming_language%29), [CLU](https://en.wikipedia.org/wiki/CLU_%28programming_language%29)  |
| 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_%28programming_language%29)  |
| 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_%28programming_language%29)  | [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_%28programming_language%29), [Python](https://en.wikipedia.org/wiki/Python_%28programming_language%29), [Ruby](https://en.wikipedia.org/wiki/Ruby_%28programming_language%29)  |
| 2016  | [Reason](https://en.wikipedia.org/wiki/Reason_%28programming_language%29)  | 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_%28programming_language%29)  |
| 2017  | [Ballerina](https://en.wikipedia.org/wiki/Ballerina_%28programming_language%29)  | [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_%28programming_language%29), [Javascript](https://en.wikipedia.org/wiki/Javascript_%28programming_language%29), [Go](https://en.wikipedia.org/wiki/Go_%28programming_language%29), [Rust](https://en.wikipedia.org/wiki/Rust_%28programming_language%29), [C#](https://en.wikipedia.org/wiki/C_Sharp_%28programming_language%29)  |
| 2018  | [C18](https://en.wikipedia.org/wiki/C18_%28C_standard_revision%29)  | 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_%28programming_language%29)  | 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_%28programming_language%29) |

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.