Timeline of programming languages

This is a record of historically important programming languages by decade.

Contents

Pre-1950

1950s

1960s

1970s

1980s

1990s

2000s

2010s

See also

References

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Pre-1950

Year	Name Chief developer, company		Predecessor(s)
1943– 45	Plankalkül (concept)	Konrad Zuse	none (unique language)
1943– 46	ENIAC coding system	John von Neumann, John Mauchly, J. Presper Eckert, Herman Goldstine after Alan Turing	none (unique language)
1946	ENIAC Short Code	Richard Clippinger, <u>John von Neumann</u> after <u>Alan</u> <u>Turing</u>	ENIAC coding system
1946	Von Neumann and Goldstine graphing system (Notation)	John von Neumann and Herman Goldstine	ENIAC coding system
1947	ARC Assembly	Kathleen Booth ^{[1][2]}	ENIAC coding system
1948	CPC Coding scheme	Howard H. Aiken	Analytical Engine order code
1948	Curry notation system	Haskell Curry	ENIAC coding system
1948	Plankalkül (concept published)	Konrad Zuse	none (unique language)
1949	Short Code	John Mauchly and William F. Schmitt	ENIAC Short Code
Year	Name	Chief developer, company	Predecessor(s)

Year	Name	Chief developer, company	Predecessor(s)
1950	Short Code William F Schmidt, Albert B. Tonik, [3] J.R. Logan Brief Code		Brief Code
1950	Birkbeck Assembler	Kathleen Booth	ARC
1951	Superplan	Heinz Rutishauser	Plankalkül
1951	ALGAE	Edward A Voorhees and Karl Balke	none (unique language)
1951	Intermediate Programming Language	Arthur Burks	Short Code
1951	Regional Assembly Language	Maurice Wilkes	EDSAC
1951	Boehm unnamed coding system	Corrado Böhm	CPC Coding scheme
1951	Klammerausdrücke	Konrad Zuse	Plankalkül
1951	OMNIBAC Symbolic Assembler	Charles Katz	Short Code
1951	Stanislaus (Notation)	Fritz Bauer	none (unique language)
1951	Whirlwind assembler	Charles Adams and Jack Gilmore atMIT Project Whirlwind	EDSAC
1951	Rochester assembler	Nat Rochester	EDSAC
1951	Sort Merge Generator	Betty Holberton	none (unique language)
1952	<u>A-0</u>	Grace Hopper	Short Code
1952	Glennie Autocode	Alick Glennie after Alan Turing	CPC Coding scheme
1952	Editing Generator	Milly Koss	SORT/MERGE
1952	COMPOOL	RAND/SDC	none (unique language)
1953	Speedcoding	John W. Backus	none (unique language)
1953	READ/PRINT	Don Harroff, James Fishman, George Ryckman	none (unique language)
1954	Laning and Zierler system	Laning, Zierler, Adams at MIT Project Whirlwind	none (unique language)
1954	Mark I Autocode	Tony Brooker	Glennie Autocode
1954– 55	Fortran (concept)	Team led by <u>John W. Backus</u> at <u>IBM</u>	Speedcoding
1954	ARITH-MATIC	Team led by Grace Hopper at UNIVAC	A-0
1954	MATH-MATIC	Team led by Charles Katz	A-0
1954	MATRIX MATH	H G Kahrimanian	none (unique language)
1954	IPL I (concept)	Allen Newell, Cliff Shaw, Herbert A. Simon	none (unique language)
1955	FLOW-MATIC	Team led by Grace Hopper at UNIVAC	A-0
1955	BACAIC	M. Grems and R. Porter	
1955	PACT I	SHARE	FORTRAN, A-2
1955	Freiburger Code ^{[4][5]}	University of Freiburg	N/A
1955– 56	Sequentielle Formelübersetzung	Fritz Bauer and Karl Samelson	Boehm
1955– 56	<u>ΙΤ</u>	Team led by <u>Alan Perlis</u>	Laning and Zierler

1955	PRINT	ІВМ		
1958	IPL II (implementation)	Allen Newell, Cliff Shaw, Herbert A. Simon	IPL I	
1956– 58	LISP (concept)	John McCarthy	IPL	
1957	COMTRAN	Bob Bemer	FLOW-MATIC	
1957	GEORGE	Charles Leonard Hamblin	none (unique language)	
1957	Fortran I (implementation)	John W. Backus at IBM	FORTRAN	
1957– 58	UNICODE	Remington Rand UNIVAC	MATH-MATIC	
1957	COMIT (concept)		none (unique language)	
1958	Fortran II	Team led by John W. Backus at IBM	FORTRAN I	
1958	ALGOL 58 (IAL)	ACM/GAMM	FORTRAN, IT, Sequentielle Formelübersetzung	
1958	<u>IPL V</u>	Allen Newell, Cliff Shaw, Herbert A. Simon	IPL II	
1959	APT	Douglas T. Ross		
1959	FACT	Fletcher R. Jones Roy Nutt, Robert L. Patrick	none (unique language)	
1959	COBOL (concept)	The CODASYL Committee	FLOW-MATIC, COMTRAN, FACT	
1959	JOVIAL	Jules Schwartz at SDC	ALGOL 58	
1959	LISP (implementation)	John McCarthy	IPL	
1959	MAD – Michigan Algorithm Decoder	Bruce Arden, Bernard Galler, and Robert M. Graham	ALGOL 58	
1959	TRAC (concept)	Calvin Mooers		
Year	Name	Chief developer, company	Predecessor(s)	

Year	Name	Chief developer, company	Predecessor(s)
1960	ALGOL 60		ALGOL 58
1960	COBOL 61 (implementation)	The CODASYL Committee	FLOW-MATIC, COMTRAN
1961	COMIT (implementation)		none (unique language)
1962	FORTRAN IV	<u>IBM</u>	FORTRAN II
1962	APL (concept)	Kenneth E. Iverson	none (unique language)
1962	Simula (concept)		ALGOL 60
1962	SNOBOL	Ralph Griswold, et al.	FORTRAN II, COMIT
1963	CPL	Barron, Christopher Strachey, et al.	ALGOL 60
1963	SNOBOL3	Griswold, et al.	SNOBOL
1963	ALGOL 68 (concept)	Adriaan van Wijngaarden et al.	ALGOL 60
1963	JOSS I	Cliff Shaw, RAND	ALGOL 58
1964	MIMIC	H. E. Petersen, et al.	MIDAS
1964	COWSEL	Rod Burstall, Robin Popplestone	CPL, LISP
1964	PL/I (concept)	<u>IBM</u>	ALGOL 60, COBOL, FORTRAN
1964	BASIC	John George Kemenyand Thomas Eugene Kurtzat Dartmouth College	FORTRAN II, JOSS
1964	IBM RPG	<u>IBM</u>	FARGO
1964	Mark-IV	Informatics	
1964	Speakeasy-2	Stanley Cohen at Argonne National Laboratory	Speakeasy
1964	TRAC (implementation)	<u>Calvin Mooers</u>	
1964	<u>P"</u>	Corrado Böhm	none (unique language)
1964?	IITRAN		
1965	RPG II	<u>IBM</u>	FARGO, RPG
1965	MAD/I (concept)	University of Michigan	MAD, ALGOL 60, PL/I
1965	TELCOMP	BBN	JOSS
1965	Atlas Autocode	Tony Brooker, Derrick Morris at Manchester University	Algol 60, Autocode
1966	JOSS II	Chuck Baker, RAND	JOSS I
1966	ALGOL W	Niklaus Wirth, C. A. R. Hoare	ALGOL 60
1966	FORTRAN 66		FORTRAN IV
1966	ISWIM (Concept)	Peter J. Landin	LISP
1966	CORAL66		ALGOL 60
1966	APL (implementation) ^[6]	Kenneth E. Iverson	none (unique language)
1967	BCPL	Martin Richards	CPL
1967	MUMPS	Massachusetts General Hospital	FORTRAN, TELCOMP

Year	Name	Chief developer, company	Predecessor(s)
1969	Edinburgh IMP	Edinburgh University	Algol 60, Autocode, Autocode
1969	TUTOR	Paul Tenczar & University of Illinois at Urbana-Champaign	
1969	SETL	Jack Schwartz at Courant Institute of Mathematical Sciences	
1969	Polymorphic Programming Language (PPL)	Thomas A. Standish at Harvard University	
1969	<u>B</u>	Ken Thompson, with contributions from Dennis Ritchie	BCPL
1969	PL/I (implementation)	<u>IBM</u>	ALGOL 60, COBOL, FORTRAN
1968	PILOT	John Amsden Starkweather University of California, San Francisco	Computest
1968	TTM (implementation)	Steven Caine and E. Kent Gordon, California Institute of Technology	GAP, GPM
1968	REFAL (implementation)	Valentin Turchin	none (unique language)
1968	MAPPER	Unisys	CRT RPS
1968	LOGO	Wally Feurzeig, Seymour Papert, Cynthia Solomon	LISP
1968	Forth (concept)	Moore	
1968	DIBOL-8	DEC	DIBOL
1968	POP-1	Rod Burstall, Robin Popplestone	COWSEL
1968	ALGOL 68 (UNESCO/IFIP standard)	Adriaan van Wijngaarden Barry J. Mailloux John E. L. Peck and Cornelis H. A. Koster, et al.	ALGOL 60
1967	Space Programming Language (SPL)	System Development Corporation	JOVIAL
1967	XPL	William M. McKeeman et al. at University of California Santa Cruz, California J. J. Horning, et al. at Stanford University	PL/I
1967	SNOBOL4	Ralph Griswold, et al.	SNOBOL3
1967	EXAPT	Herwart Opitz, Wilhelm Simon, Günter Spurand Gottfried Stute at RWTH Aachen Universityand TU Berlin	APT
1967	InterLisp	D.G. Bobrow and D.L. Murphy	Lisp
1967	Simula 67 (implementation)	Ole-Johan Dahl Bjørn Myhrhaug, Kristen Nygaard at Norsk Regnesentral	ALGOL 60

Year	Name	Chief developer, company	Predecessor(s)
1970?	Forth (implementation)	Charles H. Moore	
1970	POP-2	Robin Popplestone	POP-1
1970	Pascal	Niklaus Wirth, Kathleen Jensen	ALGOL 60, ALGOL W
1970	BLISS	Wulf, Russell, Habermann at <u>Carnegie Mellon</u> <u>University</u>	ALGOL
1971	KRL	Daniel G. Bobrowat Xerox PARC, Terry Winograd at Stanford University	KM, FRL (MIT)
1971	Sue	Ric Holt et al. at University of Toronto	Pascal, XPL
1971	Compiler Description Language (CDL)	Cornelis H.A. Kosterat University of Nijmegen	
1972	<u>Smalltalk</u>	Alan Kay, Adele Goldberg, Dan Ingalls, Xerox PARC	Simula 67
1972	PL/M	Gary Kildall at Digital Research	PL/I, ALGOL, XPL
1972	<u>C</u>	Dennis Ritchie	B, BCPL, ALGOL 68
1972	INTERCAL	Don Woods and James M. Lyon	none (unique language)
1972	Prolog	Alain Colmerauer	2-level W- Grammar
1972	Structured Query language (SQL)	<u>IBM</u>	ALPHA, Quel (Ingres)
1973	COMAL	Børge Christensen, Benedict Løfstedt	Pascal, BASIC
1973	ML	Robin Milner	
1973	LIS	Jean Ichbiah et al. at CII Honeywell Bull	Pascal, Sue
1973	Speakeasy-3	Stanley Cohen, Steven Pieper at Argonne National Laboratory	Speakeasy-2
1974	CLU	Barbara Liskov	ALGOL 60, Lisp, Simula
1974	GRASS	Thomas A. DeFanti	BASIC
1974	BASIC FOUR	MAI BASIC Four Inc.	Business BASIC
1974	PROSE modeling language	CDC 6600 Cybernet Services	SLANG, FORTRAN
1975	ABC	Leo Geurts and Lambert Meertens	SETL
1975	Irvine Dataflow (concept)	Arvind?, University of California, Irvine	
1975	PROSE modeling language Time-Sharing Version	CDC 6400 Cybernet KRONOS Services	SLANG, FORTRAN
1975	Scheme	Gerald Jay Sussman Guy L. Steele, Jr	LISP
1975	Altair BASIC	Bill Gates, Paul Allen	BASIC
1975	<u>CS-4</u>	James S. Miller, Benjamin M. Brosgol <i>et al.</i> at Intermetrics	ALGOL 68, BLISS, ECL, HAL
1975	Modula	Niklaus Wirth	Pascal
1976	Plus	Allan Ballard, Paul Whaley at the University of British Columbia	Pascal, Sue
1976	Smalltalk-76	Xerox PARC	Smalltalk-72
1976	Mesa	Xerox PARC	ALGOL

1976	SAM76	Claude A.R. Kagan	LISP, TRAC
1976	Ratfor	Brian Kernighan	C, FORTRAN
1976	<u>S</u>	John Chambers at Bell Labs	APL, PPL, Scheme
1976	SAS	SAS Institute	
1976	Integer BASIC	Steve Wozniak	BASIC
1977	<u>FP</u>	John Backus	none (unique language)
1977	Bourne Shell (sh)	Stephen R. Bourne	none (unique language)
1977	Commodore BASIC	Jack Tramiel	BASIC
1977	<u>IDL</u>	David Stern of Research Systems Inc	Fortran
1977	Standard MUMPS		MUMPS
1977	Icon (concept)	Ralph Griswold	SNOBOL
1977	Red	Benjamin M. Brosgol <i>et al.</i> at <u>Intermetrics</u> for <u>US</u> <u>Dept of Defense</u>	ALGOL 68, CS-4
1977	Blue	John B. Goodenoughet al. at SofTech for US Dept of Defense	ALGOL 68
1977	Yellow	Jay Spitzen et al. at SRI International for US Dept of Defense	ALGOL 68
1977	Euclid	Butler Lampson at Xerox Parc, Ric Holt and James Cordy at University of Toronto	
1977	Applesoft BASIC	Marc McDonald and Ric Weiland	BASIC
1978	RAPT	Pat Ambler and Robin Popplestone	APT
1978	C shell	Bill Joy	<u>C</u>
1978	RPG III	<u>IBM</u>	FARGO, RPG, RPG II
1978	HAL/S	designed by Intermetrics for NASA	XPL
1978	Applesoft II BASIC	Marc McDonald and Ric Weiland	Applesoft BASIC
1975	Irvine Dataflow (implementation)	Arvind and Gostelow University of California Irvine	
1978?	MATLAB	Cleve Moler at the University of New Mexico	Fortran
1978?	SMALL	Nevil Brownlee at the University of Auckland	Algol60
1978	<u>VisiCalc</u>	Dan Bricklin, Bob Frankston marketed by VisiCorp	none (unique language)
1979	Modula-2	Niklaus Wirth	Modula, Mesa
1979	REXX	Mike Cowlishaw at IBM	PL/I, BASIC, EXEC 2
1979	AWK	Alfred Aho, Peter J. Weinberger, Brian Kernighan	C, SNOBOL
1979	Icon (implementation)	Ralph Griswold	SNOBOL
1979	Vulcan dBase-II	Wayne Ratliff	none (unique language)
Year	Name	Chief developer, company	Predecessor(s)

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1980	Ada 80 (MIL-STD- 1815)	Jean Ichbiah at CII Honeywell Bull	Green
1980	C with classes	Bjarne Stroustrup ^{7]}	C, Simula 67
1980	Applesoft III	Apple Computer	Applesoft II BASIC
1980	Apple III Microsoft BASIC	Microsoft	Microsoft BASIC
1980– 81	CBASIC	Gordon Eubanks	BASIC, Compiler Systems, Digital Research
1981	BBC BASIC	Acorn Computers Sophie Wilson	BASIC
1981	IBM BASICA	Microsoft	BASIC
1982?	Speakeasy-IV	Stanley Cohen, et al. at Speakeasy Computing Corporation	Speakeasy-3
1982?	Draco	Chris Gray	Pascal, C, ALGOL 68
1982	PostScript	Warnock	InterPress
1982	Turing	Ric Holt and James Cordy, at University of Toronto	Euclid
1983	GW-BASIC	Microsoft	IBM BASICA
1983	Turbo Pascal	Hejlsberg at Borland	Pascal
1983	Ada 83 (ANSI/MIL- STD-1815A)	Jean Ichbiah at Alsys	Ada 80, Green
1983	Objective-C	Brad Cox	Smalltalk, C
1983	C++	Bjarne Stroustrup	C with Classes
1983	True BASIC	John George Kemeny, Thomas Eugene Kurtzat Dartmouth College	BASIC
1983	occam	David May	EPL
1983?	ABAP	SAP AG	COBOL
1983	Korn Shell (ksh)	David Korn	sh
1983	Clascal	Apple Computer Inc.	Pascal
1984	CLIPPER	Nantucket	dBase
1984	Common Lisp	Guy L. Steele, Jr and many others	LISP
1984?	GOM – Good Old Mad	Don Boettner, University of Michigan	MAD
1984	RPL	Hewlett-Packard	Forth, Lisp
1984	Standard ML		ML
1984	Redcode	Alexander Dewdneyand D.G. Jones	
1984	OPL	PSION	BASIC
1985	PARADOX	Borland	dBase
1985	QuickBASIC	Microsoft	BASIC
1986	Clarion	Bruce Barrington	
1986	CorVision	Cortex	INFORM
1986	Eiffel	Bertrand Meyer	Simula 67, Ada
1986	GFA BASIC	Frank Ostrowski	BASIC
1986	Informix-4GL	Informix	

1986	LabVIEW	National Instruments	
1986	Miranda	David Turner at University of Kent	
1986	Oberon-07	Wirth ^[8]	Oberon
1986	Object Pascal	Apple Computer Inc.	Pascal
1986	PROMAL		С
1986	Erlang	Joe Armstrong and others in Ericsson	Prolog
1987	Ada ISO 8652:1987	ANSI/MIL-STD-1815A unchanged	Ada 83
1987	Self (concept)	Sun Microsystems Inc.	Smalltalk
1987	occam 2	David May and INMOS	occam
1987	HyperTalk	Apple Computer Inc.	none (unique language)
1987	Perl	Larry Wall	C, sed, awk, sh
1987	Oberon	Niklaus Wirth	Modula-2
1987	Mathematica (Wolfram Language)	Wolfram Research	none (unique language)
1987	Turbo Basic	Robert 'Bob' Zale	BASIC/Z
1987	Clean	Software Technology Research Group of Radboud University Nijmegen	none (unique language)
1988	RPG/400	<u>IBM</u>	FARGO, RPG, RPG II, RPG
1988	Octave		MATLAB
1988	Tcl	John Ousterhout	Awk, Lisp
1988	STOS BASIC	François Lionet and Constantin Sotiropoulos	BASIC
1988	Object REXX	Simon C. Nash	REXX, Smalltalk
1988	SPARK	Bernard A. Carré	Ada
1988	<u>A+</u>	Arthur Whitney	APL
1988	Hamilton C shell	Nicole Hamilton	<u>C shell</u>
1989	Turbo Pascal OOP	Anders Hejlsbergat Borland	Turbo Pascal, Object Pascal
1989	Modula-3	Cardeli, et al. <u>DEC</u> and <u>Olivetti</u>	Modula-2
1989	PowerBASIC	Robert 'Bob' Zale	Turbo Basic
1989	VisSim	Peter Darnell, Visual Solutions	
1989	LPC	Lars Pensjö	
1989	Bash	Brian Fox	Bourne shell, C shell, Korn shell
1989	Magik (programming language)	Arthur Chance, of Smallworld Systems Ltd	Smalltalk
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1990	AMOS BASIC	François Lionet and Constantin Sotiropoulos	STOS BASIC
1990	AMPL	Robert Fourer, David Gay and Brian Kernighan at Bell Laboratories	
1990	Object Oberon	H Mössenböck, J Templ, R Griesemer	Oberon
1990	ī	Kenneth E. Iverson Roger Hui at Iverson Software	APL, FP
1990	Haskell		Miranda
1990	EuLisp		Common Lisp, Scheme
1990	Z Shell (zsh)	Paul Falstad at Princeton University	ksh
1991	GNU E	David J. DeWitt, Michael J. Carey	<u>C++</u>
1991	Oberon-2	Hanspeter Mössenböck, Wirth	Object Oberon
1991	Python	Guido van Rossum	ABC, ALGOL 68, Icon, Modula-3
1991	<u>Oz</u>	Gert Smolka and his students	Prolog
1991	Q	Albert Gräf	
1991	Visual Basic	Alan Cooper, sold to Microsoft	QuickBASIC
1992	Borland Pascal		Turbo Pascal OOP
1992	Dylan	many people at Apple Computer Inc.	Common Lisp, Scheme
1992	S-Lang	John E. Davis	PostScript
1993?	Self (implementation)	Sun MicrosystemsInc.	Smalltalk
1993	Amiga E	Wouter van Oortmerssen	DEX, C, Modula-2
1993	Brainfuck	Urban Müller	P"
1993	LiveCode Transcript		HyperTalk
1993	AppleScript	Apple Computer Inc.	HyperTalk
1993	K	Arthur Whitney	APL, Lisp
1993	Lua	Roberto Ierusalimschyet al. at Tecgraf, PUC- Rio	Scheme, SNOBOL, Modula, CLU, C++
1993	R	Robert Gentleman and Ross Ihaka	S
1993	ZPL	Chamberlain et al. at University of Washington	С
1993	NewtonScript	Walter Smith	Self, Dylan
1993	Euphoria	Robert Craig	SNOBOL, AWK, ABC, Icon, Python
1994	Claire	Yves Caseau	Smalltalk, SETL, OPS5, Lisp, ML, C, LORE, LAURE
1994	ANSI Common Lisp		Common Lisp
1994	RAPID	ABB Group	ARLA
1994	Pike	Fredrik Hübinette et al. atLinköping University	LPC, C, μLPC
1994	ANS Forth	Elizabeth Rather, et al.	Forth
1995	Ada 95	S. Tucker Taft, et al. at Intermetrics, Inc.	Ada 83
1995	Borland Delphi	Anders Hejlsbergat Borland	Borland Pascal
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	(CFML)		
1995	Java	James Gosling at Sun Microsystems	C, Simula 67, C++, Smalltalk, Ada 83, Objective-C, Mesa
1995	LiveScript	Brendan Eich at Netscape	Self, C, Scheme
1995	Mercury	Zoltan Somogyiat University of Melbourne	Prolog, Hope, Haskell
1995	PHP	Rasmus Lerdorf	Perl
1995	Ruby	Yukihiro Matsumoto	Smalltalk, Perl
1995	JavaScript	Brendan Eich at Netscape	LiveScript
1995	Racket	Matthew Flatt at Rice University	Scheme, Lisp
1996	Curl	David Kranz, Steve Ward, Chris Terman at MIT	Lisp, C++, TcI/Tk, TeX, HTML
1996	Lasso	Blue World Communications Inc.	
1996	Perl Data Language (PDL)	Karl Glazebrook, Jarle Brinchmann, Tuomas Lukka, and Christian Soeller	APL, Perl
1996	VBScript	Microsoft	Visual Basic
1996	OCaml	INRIA	Caml Light, Standard ML
1996	NetRexx	Mike Cowlishaw	REXX
1997	Component Pascal	Oberon microsystems, Inc	Oberon-2
1997	E	Mark S. Miller	Joule, Original-E
1997	Pico	Free University of Brussels	Scheme
1997	Squeak Smalltalk	Alan Kay, et al. at Apple Computer Inc.	Smalltalk-80, Self
1997	ECMAScript	ECMA TC39-TG1	JavaScript
1997	F-Script	Philippe Mougin	Smalltalk, APL, Objective-C
1997	ISLISP	ISO Standard ISLISP	Common Lisp
1997	<u>Tea</u>	Jorge Nunes	Java, Scheme, Tcl
1997	REBOL	Carl Sassenrath, Rebol Technologies	Self, Forth, Lisp, Logo
1998	ActionScript	Gary Grossman	ECMAScript
1998	Standard C++	ANSI/ISO Standard C++	C++, Standard C, C
1998	<u>M2001</u>	Ronald E. Prather, <u>Trinity University (Texas)</u>	none (unique language)
1998	<u>Pikt</u>	Robert Osterlund (then at University of Chicago)	AWK, Perl, Unix shell
1998	PureBasic	Frederic Laboureur, Fantaisie Software	
1998	UnrealScript	Tim Sweeney at Epic Games	C++, Java
1998	XSLT (+ XPath)	W3C, James Clark	DSSSL
1999	Game Maker Language (GML)	Mark Overmars	Game Maker
1999	Harbour	Antonio Linares	dBase
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2000	Join Java	G Stewart von Itzstein	Java
2000	XL	Christophe de Dinechin	Ada, C++, Lisp
2000	<u>C#</u>	Anders Hejlsberg Microsoft (ECMA)	C, C++, Java, Delphi, Modula-2
2000	Ferite	Chris Ross	C, C++, Java, PHP, Python, Ruby, Scheme
2001	Joy	Manfred von Thun	FP, Forth
2001	AspectJ	Gregor Kiczales, Xerox PARC	Java, Common Lisp
2001	D	Walter Bright, Digital Mars	C, C++, C#, Java
2001	Processing	Casey Reas and Benjamin Fry	<u>Java, C, C++^[9]</u>
2001	Visual Basic .NET	Microsoft	Visual Basic
2001	RPG IV (RPGLE, ILE RPG, RPG Free)	<u>IBM</u>	FARGO, RPG, RPG II, RPG III, RPG/400
2001	GDScript (GDS)	OKAM Studio	Godot
2002	<u>lo</u>	Steve Dekorte	Self, NewtonScript, Lua
2002	Gosu	Guidewire Software	GScript
2002	Scratch	Mitchel Resnick, John Maloney, Natalie Rusk, Evelyn Eastmond, Tammy Stern, Amon Millner Jay Silver, and Brian Silverman	Logo, Smalltalk, Squeak, E-Toys, HyperCard, AgentSheets, StarLogo, Tweak, BYOB
2003	Nemerle	University of Wrocław	C#, ML, MetaHaskell
2003	Factor	Slava Pestov	Joy, Forth, Lisp
2003	Falcon	Giancarlo Niccolai	C++, Perl, Lua, Smalltalk, PHP, Lisp, Python, Ruby
2003	Scala	Martin Odersky	Smalltalk, Java, Haskell, Standard ML, OCaml
2003	C++03	C++ ISO/IEC 14882:2003	C++, Standard C, C
2003	Squirrel	Alberto Demichelis	Lua
2003	HolyC	Terry Davis	C, C++
2003	Boo	Rodrigo B. de Oliveira	Python, C#
2004	Subtext	Jonathan Edwards	none (unique language)
2004	Alma-0	Krzysztof Apt, Centrum Wiskunde & Informatica	none (unique language)
2004	FreeBASIC	Andre Victor	QBasic
2004	Groovy	James Strachan	<u>Java</u>
2004	<u>Little b</u>	Aneil Mallavarapu, Harvard Medical School Department of Systems Biology	Lisp
2005	Fantom	Brian Frank, Andy Frank	C#, Scala, Ruby, Erlang
2005	<u>F#</u>	Don Syme, Microsoft Research	OCaml, C#, Haskell
2005	Haxe	Nicolas Cannasse	ActionScript, OCaml, Java
2005	Oxygene	RemObjects Software	Object Pascal, C#
2005	Seed7	Thomas Mertes	none (unique language)
2006	Links	Philip Wadler, University of Edinburgh	Haskell

Year	Name	Chief developer, company	Predecessor(s)
2009	Whiley	David J. Pearce	Java, C, Python
2009	Parasail	S. Tucker Taft, AdaCore	Modula, Ada, Pascal, ML
2009	<u>Idris</u>	Edwin Brady	Haskell, Agda, Coq
2009	CoffeeScript	Jeremy Ashkenas	JavaScript, Ruby, Python, Haskell
2009	<u>Go</u>	Google	C, Oberon, Limbo, Smalltalk
2009	Chapel	Brad Chamberlain, <u>Cray</u> Inc.	HPF, ZPL
2008	<u>Pure</u>	Albert Gräf	Q
2008	Genie	Jamie McCracken	Python, Boo, D, Object Pascal
2008	Nim	Andreas Rumpf	Python, Lisp, Object Pascal
2007	LOLCODE	Adam Lindsay	none (unique language)
2007	Clojure	Rich Hickey	Lisp, ML, Haskell, Erlang
2007	Agda	Ulf Norell	Coq, Epigram, Haskell
2007	Ada 2005	Ada Rapporteur Group	Ada 95
2006	<u>Vala</u>	GNOME	C#
2006	Fortress	Guy Steele	Scala, ML, Haskell
2006	OptimJ	<u>Ateji</u>	Java
2006	Windows PowerShell	Microsoft	C#, ksh, Perl, <u>CL</u> , <u>DCL</u> , SQL
2006	Cobra	ChuckEsterbrook	Python, C#, Eifel, Objective-C

Year	Name	Chief developer, company	Predecessor(s)
2010	Rust	Graydon Hoare, <u>Mozilla</u>	Alef, C++, Camlp4, Erlang, Hermes, Limbo, Napier, Napier88, Newsqueak, NIL, Sather, Standard ML
2011	Ceylon	Gavin King, Red Hat	Java
2011	Dart	Google	Java, JavaScript, CoffeeScript, Go
2011	C++11	C++ ISO/IEC 14882:2011	<u>C++</u> , Standard C, <u>C</u>
2011	Kotlin	JetBrains	Java, Scala, Groovy, C#, Gosu
2011	Red	Nenad Rakocevic	Rebol, Scala, Lua
2011	Ора	MLstate	OCaml, Erlang, JavaScript
2012	Elixir	José Valim	Erlang, Ruby, Clojure
2012	Elm	Evan Czaplicki	Haskell, Standard ML, OCaml, F#
2012	TypeScript	Anders Hejlsberg Microsoft	JavaScript, CoffeeScript
2012	Julia	Jeff Bezanson, Stefan Karpinski, Viral Shah, Alan Edelman, MIT	MATLAB, Lisp, C, Fortran, Mathematica ^[10] (strictly its Wolfram Language), Python, Perl, R, Ruby, Lua ^[11]
2012	Ada 2012	ARA and Ada Europe (ISO/IEC 8652:2012)	Ada 2005, ISO/IEC 8652:1995/Amd 1:2007
2013	PureScript	Phil Freeman	Haskell, Elm, Standard ML, OCaml, F#
2014	Crystal	Ary Borenszweig, Manas Technology Solutions	Ruby, C, Rust, Go, C#, Python
2014	Hack	Facebook	PHP
2014	Swift	Apple Inc.	Objective-C, Rust, Haskell, Ruby, Python, C#, CLU
2014	C++14	C++ ISO/IEC 14882:2014	C++, Standard C, C
2015	Perl 6	The Rakudo Team	Perl, Haskell, Python, Ruby
2016	Ring	Mahmoud Fayed	Lua, Python, Ruby, C, C#, BASIC, QML, xBase, Supernova
2017	C++17	C++ ISO/IEC 14882:2017	<u>C++</u> , Standard C, <u>C</u>
Year	Name	Chief developer, company	Predecessor(s)

See also

- Programming language
- Timeline of computing
- History of computing hardware
- History of programming languages

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External links

- Online encyclopedia for the history of programming languages
- Diagram & history of programming languages
- Eric Levenez's timeline diagram of computer languages history

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