

# Clipper (programming language)

From Wikipedia, the free encyclopedia

**Clipper** is a computer programming language that is used to create software programs that originally operated primarily under DOS. Although it is a powerful general-purpose programming language, it was primarily used to create database/business programs.

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## History

Clipper was originally created in 1985 as a compiler for *dBASE III*, a very popular database language at the time. Compiling dBASE code changes it from interpreted code, which must be interpreted every time each line of code is executed, to p-code, which uses a Virtual Machine to process the compiled p-code. p-code is considerably faster, but still not as fast as the machine code generated by native compilers. As a technical marketing ploy, the p-code was wrapped into object code (linkable .obj files) which gave the impression that it was compiled to native code. Clipper was created by Nantucket Corporation led by Barry ReBell (management) and Brian Russell (technical), and later sold to Computer Associates. GrafX Software licensed CA-Clipper in 2002 from CA for ongoing marketing and distribution.

As the product matured, it remained a DOS tool for many years, but added elements of the C programming language and Pascal programming language, as well as OOP, and the code-block data-type (hybridizing the concepts of dBase macros, or string-evaluation, and function pointers), to become far more powerful than the original. Nantucket's Aspen project later matured into the Windows native-code Visual Objects compiler.

The Clipper language is being actively implemented and extended by multiple organizations/vendors, like *XBase++* from Alaska Software and *FlagShip*, as well as free (GPL-licensed) projects like *Harbour* and *xHarbour*.

Many of the current implementations are portable (DOS, Windows, Linux (32- and 64-bit), Unix (32- and 64-bit), and Mac OS X), supporting many language extensions [1] (<http://www.xharbour.org/index.asp?page=product/extensions>), and have greatly extended runtime libraries, as well as various Replaceable Database Drivers (RDD) supporting many popular database formats, like DBF, DBTNTX, DBFCDX (FoxPro, Apollo, Comix, and Advantage Database Server), MachSix (Six Driver and Apollo), SQL, and more. These newer implementations all strive for full compatibility with the standard dBase/xBase syntax, while also offering OOP approaches and target-based syntax such as `SQLExecute()`.

The Clipper Usenet newsgroups are `comp.lang.clipper` (<http://groups.google.com/group>

## Clipper

<b>Appeared in</b>	1985
<b>Stable release</b>	CA Clipper 5.3b (May 20, 1997)
<b>OS</b>	DOS
	<a href="http://www.grafxsoft.com/clipper.htm">http://www.grafxsoft.com/clipper.htm</a>

# Programming In Clipper

**Scott C. Dulebohn**



## Programming In Clipper:

**Programming in Clipper 5** Mike Schinkel, John Kaster, 1992 A comprehensive guide to all versions of Clipper including 5 01 Schinkel defines the new Clipper programming language covers programming with Clipper and includes a quick reference section to commands and functions

**Advanced Programming in Clipper with C** Stephen J. Straley, David Karasek, 1990 Bestselling author Straley reveals many undocumented features of Clipper Summer 87 and shows how programs written in C can be used to enhance Clipper applications Includes a C tutorial geared especially for Clipper programmers

*Network Programming in CA-Clipper 5.2* Joseph D. Booth, Greg Lief, 1993 A single source guide focused on creating network programs using Clipper Both a reference and a how to book each chapter focuses on a particular topic and includes source code on disk that can be used to solve problems discussed in every chapter No other book on the market provides the in depth and specialized information on writing Clipper based network programs

*CA-Clipper 5.2* Dan D. Gutierrez, 1994 A step by step tutorial for mastering Clipper 5 s many new and powerful features Includes detailed explanations techniques and case studies on using the database language compiler to the fullest extent and contains numerous code segments examples and complete programs Packed with self checks tips and end of chapter exercises

*Using Clipper* W. Edward Tiley, 1992 The bestselling database book from Que updated for version 5 01 Includes a thorough tutorial for database programmers and covers all the new features of Clipper Plus provides a comprehensive reference section for syntax and examples of all Clipper functions

*CA-Clipper*, 1992

*Programming in Clipper* Margaret Zinky, Justin Werner, C. Bruce Donaldson, 1988-01-01

**CA-Clipper** Computer Associates, 1992

**Straley's Programming with Clipper 5.0** Stephen J. Straley, 1991 Presents the definitive reference guide to programming in Clipper 5 0 Includes an overview of Clipper 5 0 s new features and a complete command and function reference Chapters introduce Clipper s new pre processor as well as its customizable on line help facilities and more

*Rick Spence's Clipper 5.2 Power Programmer's Guide* Rick Spence, 1993 This is the advanced book by the Hardcore Clipper columnist for Data Based Advisor Spence covers new features of 5 2 improved memory management new drivers object oriented programming with Clipper 5 2 using Clipper with C and assembly language using Clipper with FoxPro Paradox and dBASE and using Clipper on a network

**Clipper Programming** Brett Oliver, Jim Sheldon, 1992 This outstanding guide provides novice and expert database programmers with a solid fast paced introduction to the capabilities of Clipper releases 5 0 and 5 01 The author moves quickly from the basics of database programming to the design of stand alone applications customizing those applications and interfacing them with other programs

*InfoWorld*, 1990-09-10 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

**Programming in Clipper** Stephen J. Straley, 1987

**Straley's Object-oriented Clipper Programming** Stephen J. Straley, 1994 An advanced programming guide to Clipper 5 2 the DOS version of Clipper that includes support for user

defined objects Straley shows how programmers can incorporate object oriented techniques into their Clipper programs to approximate the functionality of a complete object oriented language and how developers can create a variety of flexible objects that are easily maintained *Clipper Programming Guide* Rick Spence,1989-01-01 **Clipper Programming by Example** Paul Darling,1994-01-01 Clipper is fast becoming the successor to dBASE This book aims to teach the Clipper language to programmers who understand how to write programs but have no knowledge of the X base standard It does this by giving an overview of the language followed by a detailed description of the many features of the language in a logical easy to read manner CA-Clipper Version 5.2 Computer Associates International,1992 Clipper Programming Brett Oliver,Dan Parsons,1990-11 Introduces the fundamentals of Clipper 5 0 programming and application development to new users of the product while also detailing the new features of Clipper 5 0 to current users In addition the book offers many real world functions designed for business use and explores several areas which have not yet been covered in any Clipper related text The book is designed to offer a non intimidating quick reference alternative to the Clipper documentation that will get new users productive quickly whilst also offering current users fresh solutions to past problems **InfoWorld** ,1990-10-01 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects The CA-Clipper Interface Handbook John Mueller,B. J. Walsh,1995 Up to date for the newest release of Clipper this book is a comprehensive programmer s reference to using and interfacing Clipper with LANs Assembly language C and other programs Complete routines and programs demonstrate how to master the commands and functions found in the new version of Clipper Readers will learn how to directly access Clipper s classes

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