# Part I: General Questions

Frequently Asked Question

## 1.1 • What companies sell Smalltalk implementations?

Smalltalk is sold by VMARK, IBM, ParcPlace-Digitalk, GemStone and QKS Systems.

See “Smalltalk Implementations” on page 21 for detailed information.

Frequently Asked Question

## 1.2 • Are there any free Smalltalk implementations?

There are several free versions of Smalltalk: GNU Smalltalk, Tiny Smalltalk, SELF-Smalltalk, and Smalltalk-X.

See “Smalltalk Implementations” on page 21 for detailed information.

Frequently Asked Question

## 1.3 • Where can I buy Smalltalk Stuff?

Smalltalk stuff can be purchased from Smalltalk system and addon vendors, as well as from various programmers stores and catalogs.

See “Smalltalk Implementations” on page 21 for detailed information on vendors and third-party addons.

*The Smalltalk Store, Silicon Valley*

**URL:** `http://www.smalltalk.com`

**EMail:** Internet: `doug@smalltalk.com`
CompuServe: `75046,3160`
Telnet: `bbs.smalltalk.com`
BBS: `1-415-854-5881`

**Address:** The Smalltalk Store, 405 El Camino Real, Box 106, Menlo Park, CA 94025, USA

**Phone:** 1-415-854-5535

**FAX:** 1-415-854-2557

Douglas C. Shaker is the owner. They carry all things Smalltalkish.

**Suggestions welcome:** Where do *you* buy Smalltalk stuff?

**Frequently Asked Question**

### 1.4 • Is there a Smalltalk language standard?

No, but one is being developed.

See “ANSI Smalltalk” on page 22 for further details.

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# Learning the Smalltalk Language

**Frequently Asked Question**

### 1.5 • What is the best way to learn Smalltalk

(Suggestions anyone?)

**Frequently Asked Question**

### 1.6 • What Universities have Smalltalk courses?

*Carleton University*

**Contact:** Professors John Pugh or Wilf LaLonde.

**Address:** Ottawa, Ontario, Canada

*Ryerson Polytechnic University*

**Contact:** Joshua Panar or Paul A. Salvini

**EMail:** `psalvini@acs.ryerson.ca`

**Address:** Department of Math, Physics and Computer Science
Ryerson Polytechnic University
Room A-100, Jorgenson Hall
380 Victoria St., Toronto, ON  M5B 2K3

*University of Illinois at Urbana-Champaign.*

**Contact:** Professor Ralph Johnson.

**Frequently Asked Question**

### 1.7 • What general books are available on the Smalltalk Language?

- *Concepts of Object Oriented Programming*
  Smith, David N.; McGraw-Hill, 1991, US$25. ISBN 0-07-059177-6. 208 pages.

Teaches the concepts of object-oriented programming using Smalltalk; vendor independent. German edition due in 1996.

- *Rapid Software Development with Smalltalk*
  Lorenz, Mark; SIGS Books, 1995, US$24. ISBN 1-884842-12-7 (SIGS). ISBN 0-13-449737-6 (Prentice-Hall). 238 pages.

  How to develop rapidly using Smalltalk. This is neither a language book nor a design methodology book, but a how-to book for Smalltalk programmers.

- *Smalltalk with Style*
  Skublics, Suzanne, Edward J. Klimas, and David A. Thomas, Prentice-Hall, 1996, US$15. ISBN 0-13-165549-3. 142 pages.

  **URL:** `http://www.prenhall.com/~rich/013/165548/16554-8.html`

  A vendor-independent style guide for Smalltalk. This is a book that all Smalltalk programmers should have; it tells beginners a lot about how to code the way experienced Smalltalkers code, and reminds experienced programmers of what they should be doing(!).

**Frequently Asked Question**

## 1.8 • What books cover the original Smalltalk-80?

- *Smalltalk-80: The Language and Its Implementation*
  Goldberg, Adele & David Robson; Addison-Wesley, 1983 (reprinted 1985 with corrections). ISBN 0-201-11371-6.

  This is the so-called *Blue Book*, because of its front cover color. It is out of print, but can be found used. Contains an example implementation of Smalltalk written in Smalltalk -- obviously not for running, but for learning, it's nice. While the class library described was incomplete when published and is very out of date, the book is still referenced.

  See *1.16 'Where can I buy Smalltalk books?'* Some stores carry used computer books.

- *Smalltalk-80: The Language*
  Goldberg, Adele & David Robson; Addison-Wesley, 1989. ISBN 0-201-13688-0. 608 pages.

  This is the front half of *Smalltalk-80: The Language and Its Implementation*. It is sometimes called the *Purple Book*, due to its front cover color. It is in print.

- *Smalltalk-80: Bits of History and Words of Advice*
  Krasner, Glenn; Addison-Wesley, 1983. ISBN 0-201-11669-3. 350 pages.

  A collections of early papers on Smalltalk implementation and on the history of Smalltalk. It is sometimes called the *Green Book*, due to its front cover color. For those interested in the history of Smalltalk and the otherwise terminally curious.

- *Smalltalk-80: The Interactive Programming Environment*
  Goldberg, Adele; Addison-Wesley, 1984. ISBN 0-201-11372-4. 528 pages.

  How to use Smalltalk-80. Describes general interface use, the text editor, projects, evaluating expressions, inspectors, browsers, creating classes, debuggers, and more. It is sometimes called the *Orange Book*, due to its front cover color. Quite obsolete. For those interested in the history of Smalltalk and the otherwise terminally curious.

**Frequently Asked Question**

## 1.9 • What books are available on ParcPlace Smalltalk-80?

- *Inside Smalltalk, Volume I*
  LaLonde, Wilf R.; and John R. Pugh, Prentice-Hall, 1990. ISBN 0-13-465964-3. 528 pages.

  The first volume of two. It covers fundamentals, programming and debugging, the core classes including magnitudes and collections, and graphics. Unfortunately, the version of Smalltalk described is no longer available.

- *Inside Smalltalk, Volume II*
  LaLonde, Wilf R.; and John R. Pugh, Prentice-Hall, 1991. ISBN 0-13-468414-1. 576 pages.

  **URL:** `http://www.prenhall.com/~rich/013/465963/46596-3.html`

  The second volume of two. It covers windowing and user interface issues. Unfortunately, the version of Smalltalk described is no longer available.

- *Object-Oriented Engineering: Building Engineering Systems Using Smalltalk-80*
  Bourne, John R.; Asken Associates, R D Irwin Inc., 1992. ISBN 0-256-11210-X.

  This is a textbook which “focuses on the understanding and use of object-oriented methodologies for engineering problem solving with a specific emphasis on analysis and design”.

**Frequently Asked Question**

## 1.10 • What books are available on ParcPlace VisualWorks?

- *Art and Science of Smalltalk, The*
  Simon Lewis. Prentice-Hall, 1995. 238 pages.

  **URL:** `http://www-uk.hpl.hp.com/people/scrl/ArtAndScience/home.html`
  `http://www.prenhall.com/~rich/013/371344/37134-4.html`

  An introduction to Smalltalk using VisualWorks. Covers the language, using the environment, the library, collections, dependencies, model-view-controller (MVC), pluggability and adaptors, designing and coding, debugging, and managing projects.

- *SmallTalk* (sic)
  Nicola, Jill; Prentice-Hall, June 1996. ISBN 0-13-206145-7.

  **URL:** `http://www.prenhall.com/~rich/013/206144/20614-4.html`

  *Not yet published.* "Describes the two major Smalltalk implementations: VisualWorks and Digitalk -- and shows all the examples fully worked out in both versions."

- *Smalltalk: An Introduction to Application Development Using VisualWorks*
  Hopkins, Trevor, Bernard Horan; Prentice-Hall, 1995, US$34. 426 pages. ISBN 0-13-318387-4.

  "This book is a complete, stand-alone introduction to application development using Smalltalk-80. It provides a comprehensive description of the VisualWorks 2.0 development environment, the language and major aspects of the class library, including coverage of the Model-View-Controller (MVC) paradigm. This book is aimed at students attending university/college and software professionals in industry. ... [N]o previous exposure to VisualWorks, Smalltalk-80 or object-oriented programming is assumed."

- *Smalltalk Developer's Guide to VisualWorks, The*
  Howard, Tim; SIGS Books, 1995. ISBN 1-884842-11-9 (SIGS) and ISBN 0-13-442526-X (Prentice-Hall). 646 pages.

  An advanced level book covering the building of interactive applications with VisualWorks. Starts off with a description of Model-View-Controller (MVC), one of the few such descriptions in the literature.

- *Smalltalk Developer's Guide, With CDROM*
  Pletzke; MacMillan Computer Pub. ISBN 0-67-230720-0

  *Not Yet Published*. No further information. May not be VisualWorks book.

**Frequently Asked Question**

## 1.11 • What books are available on IBM Smalltalk?

- *IBM Smalltalk Programming for Windows and OS/2*
  Shafer, Dan; Prima, 1995, US$49.95. 496 pages.

  Develops several live Smalltalk applications; source code diskette.

- *IBM Smalltalk: The Language*

Smith, David N.; Addison-Wesley (Benjamin/Cummings), 1995, about US$49. ISBN 0-8053-0908-X. 600 pages.

**URL:** `http://aw.com/bc/authors/smith/smalltalk/smalltalk.html`

A very detailed coverage of the IBM Smalltalk language, core libraries, processes, exceptions, files, and related material. Little coverage of widgets or graphics.

- *IBM Smalltalk: Applications and Interfaces*
  Smith, David N.; Addison-Wesley, 1996. Approximately. 650 pages.

  *Not yet published.* It is claimed this book will have a very detailed coverage of building user interfaces, the graphics and widgets classes in IBM Smalltalk, and how to build applications.

**Frequently Asked Question**

## 1.12 • What books are available on Digitalk Smalltalk?

- *Discovering Smalltalk*
  LaLonde, Wilf; Benjamin/Cummings, 1994. ISBN 0-8053-2720-7. 576 pages.

  An introductory textbook on Smalltalk. Can be used as an introduction to programming or just as an introduction to Smalltalk. The author is a professor at Carleton University and the book was developed for use there.

- *Smalltalk Programming for Windows*
  Shafer, Dan; Prima, 1993, 439.95. ISBN 1-55958-237-5. 400 pages.

  Develops several live Smalltalk applications; source code diskette.

- *Smalltalk V: Practice and Experience*
  LaLonde, Wilf, John Pugh; Prentice-Hall, 1994, 192 pages. ISBN 0-13-814039-1.

  **URL:** `http://www.prenhall.com/~rich/013/814038/81403-8.html`

  A collection of the authors columns from the *Smalltalk Report*, this book contains lots of examples and comes with a diskette. Topics include generalization, disk objects, animation, windows and events, panes, modal components, fuzzy sets, and dynamic data exchange.

- *Object-Oriented Programming With Smalltalk/V*
  Marchesi, Michele; Prentice-Hall, 1993, US$36. ISBN 0-13-630294-7

  An introduction to OOP, using Smalltalk/V-286. Introduces OOP concepts, the Smalltalk/V language and core libraries. Includes three sample applications.

Frequently Asked Question

## 1.13 • What other Smalltalk books are there?

- *A Little Smalltalk*
  Budd, Timothy; Addison-Wesley, 1987. 296 pages. ISBN 0-201-10698-1.
  Little Smalltalk is a, well, very little implementation of Smalltalk that has no graphical user interface. Implementations exist for a number of platforms and source is available. The book describes both the internals and the externals of the implementation.
  See"Little Smalltalk" in section "Little Smalltalk" on page 27.
- *Design and Evaluation of a High Performance Smalltalk System, The*
  Ungar, David Michael; MIT Press, 1987. ISBN 0-262-21010-X. 288 pages.
  This book was an ACM Distinguished Dissertation in 1986. It describes a computer processor, the SOAR (Smalltalk on a RISC), which was designed by Ungar and others at Berkeley for the purpose of running Smalltalk. The book contains much information on Smalltalk software performance issues, and describes Ungar's generation scavenging garbage collector.

Frequently Asked Question

## 1.14 • What related books might be of interested to Smalltalkers?

- *Designing Object-oriented User Interfaces*
  Collins, Dave; Benjamin/Cummings, 1995, US$50. 608 pages.
  How to build object-oriented user interfaces from both the cognitive psychology and the programmers perspectives. Examples in Smalltalk (and C++).
- *Object-Oriented Application Frameworks*
  Lewis, Ted; and others. Manning Publications, 1995, US$30. 350 pages.
  Containing chapters by many experts in the frameworks fields including Erich Gamma, Andre Weigand, Larry Rosenstein, Glenn Andert, John Vlissides, Paul Calder, Kurt Schmucker, and Wolfgang Pree, it covers many successful application frameworks including *MacApp*, the Microsoft foundation classes, *ET++*, *InterViews*, Taligent object frameworks, *UniDraw*, and *ProGraph CPX*. Unfortunately, no Smalltalk frameworks are documented.
- *Pitfalls of Object-Oriented Development*
  Webster, Bruce F.; M&T Books, 1995, US$24.95. 272 pages.
  While this is not strictly a Smalltalk book, it covers many of the things that can

go wrong when applying Smalltalk (or other OOP technology).

Frequently Asked Question

## 1.15 • What pattern books relate to Smalltalk?

While there are yet no books on patterns specifically for Smalltalk, the following books have some Smalltalk coverage.

- *Design Patterns*
  Gamma, Erich, Richard Helm, Ralph Johnson, John Vlissides; Addison-Wesley, 1995. 416 pages.
  **URL:** `http://aw.com/cp/Gamma.html`
  This book "shows the role that patterns can play in architecting complex systems" and "it provides a very pragmatic reference to a set of well-engineered patterns that the practicing developer can apply". (From the forward by Grady Booch.) The examples are predominantly in C++ with a few in Smalltalk.
- *Pattern Languages of Program Design*
  Copien, James O., and Douglas C. Schmidt, editors. Addison-Wesley, 1995, US$36.95. 576 pages.
  This is the proceedings of the first conference on Pattern Languages of Program Design (PLoP) in 1994. There are Smalltalk patterns in a number of papers.
- *Pattern-Oriented Software Architecture - A System of Patterns*
  Buschmann, Frank, Regine Meunier, Hans Rohnert, Peter Sommerlad, Michael Stal; Wiley and Sons Ltd., February 1996.
  *Not yet published.* "The 25 patterns that are presented in this book span several levels of abstractions from high-level architectural frameworks and medium-level design patterns to low-level idioms. The book offers a new way of thinking about software architecture and teaches a number of techniques for solving particular recurring design problems."

Frequently Asked Question

## 1.16 • Where can I buy Smalltalk books?

After you've tried your local book dealer (and pointedly asked them if they carry the book, and why not!), check on Yahoo (or your favorite WWW index) for technical book stores in your area. Or try Ecola's for a nearly technical book store:

*List of Technical Book Stores on the WWW*

**URL:** `http://www.ecola.com/ez/books.htm`

Ecola's Technical Book Spot has a list of technical book stores arranged geographically.

Some technical book stores have good mail order departments. The first two below are ones that I have used successfully and happily.

Also see: “The Smalltalk Store, Silicon Valley” in "1.3 Where can I buy Smalltalk Stuff?".

*Computer Literacy Book Stores, Silicon Valley (3 stores), plus Washington DC area (one store).*

**URL:** `http://www.clbooks.com/`

New technical books. Mail order. Huge stock. They have a WWW-accessable search engine of what's in stock plus ordering instructions, phone numbers, etc.

*Powell's Technical Books, Portland, Oregon.*

**URL:** `http://www.technical.powells.portland.or.us/`

New and used technical books. Mail order. Huge stock. They have a WWW-accessable search engine of what's in stock plus ordering instructions, phone numbers, etc.

All of the stores below have a good net presence.

*Lib HiTech*

**URL:** `http://www.libhitech.com/libhitech/`

LibHiTech sells computer books, and appears to operate exclusively on the WWW.

*ProTech Books, Ltd.*

**URL:** `http://www.pro-tech.com/`

ProTech Books, Ltd., has three technical/ professional bookstores in the Dallas/ Ft. Worth metroplex, and a new one in Austin. The technical stores formerly did business as Taylor’s Technical Books. They sell computer, business, science, engineering, and junior tech books.

*San Diego Technical Books, Inc.*

**URL:** `http://www.sdtb.com/main.html`

San Diego Technical Books, Inc. is in San Diego county.

# Conferences

Frequently Asked Question

## 1.17 • What is the ECOOP conference series?

**URL:** `http://iamwww.unibe.ch/ECOOP/`

The ECOOP Conference series is held annually in the summer in Europe. “The conference aims at bringing together researchers and practitioners from academia and industry to discuss and exchange new developments in object-oriented languages, systems and methods.”

*ECOOP '96*

**URL:** `http://www.ifs.uni-linz.ac.at/ecoop96`

The 10th European Conference on Object-Oriented Programming will be held in Linz, Austria, 8-12 July 1996.

Frequently Asked Question

## 1.18 • What is the OOPSLA conference series?

**URL:** `http://info.acm.org/sig_forums/sigplan/oopsla/oopsla.html`

The OOPSLA conferences are held annually in October in the United States or Canada.

“The annual OOPSLA (Object-Oriented Programming Systems, Languages and Applications) conference is the premiere forum bringing together participants in the field of object technology to share ideas and experiences. The combination of research and experience papers attracts both academic and industrial participants and ensures a rich exchange of ideas.”

“OOSPLA is the oldest and most prestigious object conference. OOPSLA is a unique experience that blends technology research, application development and practical trends and methods. OOSPLA is an opportunity for sharing, growing, learning, showcasing technology and exchanging ideas.”

*OOPSLA '96*

OOPSLA ’96 will be held 6-10 October 1996 in San Jose, California, USA.

**URL:** `http://www.acm.org/sig_forums/sigplan/oopsla/oopsla96/oopsla96.html`

*OOPSLA '97*

OOPSLA '97 will be held 5-9 October 1997 in Atlanta, Georgia, USA.

**URL:** `http://www.acm.org/sig_forums/sigplan/oopsla/oopsla97/oopsla97.html`

**Frequently Asked Question**

## 1.19 • What are the SIGS conferences?

SIGS Conferences include Object Expo, Object Expo Europe, C++ World, and an annual Smalltalk conference held in late winter in New York City.

**URL:** `http://www.sigs.com/index.html`

*12 - 16 Februar 1996*

München

*August 5-9, 1996*

New York Hilton & Towers, New York, NY

*September 23-27, 1996*

QEII Conference Centre, London, UK

*December 2-6, 1996*

Le Palais des Congres de Paris, Paris, France

**Frequently Asked Question**

## 1.20 • What is the Object World conference series?

**URL:** `http://www.omg.org/ow/objwrl.htm`

"Object World is the largest all object technology (OT) series in the world, with shows in Boston, Frankfurt, London, San Francisco, Sydney, and Tokyo. Object World focuses specifically on the commercial and practical aspects of applying object technology."

*Object World East*

May 5th-9th, 1996, Hynes Convention Center, Boston, MA, USA.

*Object World UK 1996*

June 18-21, 1996, The New Connaught Rooms, Covent Garden, London, UK.

*Object World West*

August 18th-22nd, 1996, San Jose Convention Center, San Jose, CA, USA.

*Object World Frankfurt '96*

October 9th-11th, Sheraton Conference Center, Frankfurt/Main, Germany.

# Smalltalk Places on the Net

**Frequently Asked Question**

### 1.21 • Where are the Smalltalk code archives?

In addition to the web-based archives listed below, there is a sizeable archive of Smalltalk code in the Digitalk Forum (GO DIGITALK) on the CompuServe Information Service.

*Archive of comp.lang.smalltalk*

**URL:** `gopher://vm.gmd.de/11/listserv/Logs for Listserv Lists/INFO-CLS`

All of the appends from the newsgroup `comp.lang.smalltalk` are archived here.

*Australian Smalltalk Web Server*

**URL:** `http://www.smalltalk.org.au/index.html`

This Web server is a result of a joint effort between Gunn Software Pty. Ltd. and FreeFall Software Pty Ltd., both from Sydney, Australia.

*Manchester Smalltalk Archive*

The granddaddy of the Smalltalk archives, this archive was started by Mario Wolczko and Alan Wills. While it is no longer open for business under its own name, its contents are a part of the archives at the University of Illinois and Washington University St. Louis.

*Smalltalk Archive at University of Illinois*

**URL:** `http://st-www.cs.uiuc.edu/`

The Smalltalk Archive at the University of Illinois, Urbana-Champaign, is run by Ralph Johnson and his students. In addition to its own material, it contains the contents of the Manchester Smalltalk Archive.

*Smalltalk Archive at Washington University St. Louis*

**URL:** `http://wuarchive.wustl.edu/languages/smalltalk/`

The Washington University St. Louis archive mirrors the UIUC archives, Manchester archives, papers, patterns information, and more.

**Frequently Asked Question**

## 1.22 • What Smalltalk books have a net presence?

See the entries for the individual books; if a book has a net presence it's URL is shown with its description.

**Frequently Asked Question**

## 1.23 • What information is there about patterns?

"Patterns are the recurring solutions to the problems of design. People learn patterns by seeing them and recall them when need be without a lot of effort. Patterns link together in the mind so that one pattern leads to another and another until familiar problems are solved. That is, patterns form languages, not unlike natural languages, within which the human mind can assemble correct and infinitely varied statements from a small number of elements."

*—The Portland Pattern Repository*

*Christopher Alexander: An Introduction for Object-Oriented Designers*

**URL:** `http://g.oswego.edu/dl/ca/ca/ca.html`

"In part because it is considered as much artistry as engineering, writings about architecture have most extensively explored and argued out the basic underpinnings of design. Even within this context, the ideas of the architect Christopher Alexander stand out as penetrating, and bear compelling implications for software design. Alexander is increasingly well-known in object-oriented (OO) design circles for his influential work on 'patterns'. This review introduces some highlights of Alexander's work."

*Design Patterns Mailing Lists by thread*

**URL:** `http://iamwww.unibe.ch:80/~fcglib/WWW/OnlineDoku/archive/DesignPatterns/`

The design patterns mailing list archive, by thread.

*History Of Patterns*

**URL:** `http://c2.com/cgi-bin/wiki?HistoryOfPatterns`

How Ward and Kent started it all...

*Patterns Home Page (UIUC)*

**URL:** `http://st-www.cs.uiuc.edu/users/patterns/patterns.html`

The patterns home page is a source for information about all aspects of patterns and pattern languages.

*Portland Pattern Repository*

**URL:** `http://c2.com/ppr/`

"The Portland Pattern Repository collects solutions to recurring problems found computer programming. Each solution is written as a stylized essay, most in the Portland Form. Some are linked into languages. All address the design of computer programs."

**Frequently Asked Question**

## 1.24 • What OOP publications have a net presence?

*SIGS Publications*

**URL:** `http://www.sigs.com/publications/sigspubs.html`

*JOOP*, *C++ Repor*t, *Object Magazine*, *Report on Object Analysis & Design*, *The Smalltalk Report* and more...

*Who Else?*

(Suggestions welcome.)

**Frequently Asked Question**

## 1.25 • What research sites do Smalltalk related work?

*Actalk*

**URL:** `http://web.yl.is.s.u-tokyo.ac.jp/members/briot/actalk/actalk.html`

Actalk is a testbed for modeling, classifying and experimenting with object-oriented concurrent programming languages. (Actalk stands for Actor Smalltalk.)

*Larch/Smalltalk.html*

**URL:** `http://www.cs.iastate.edu/~leavens/larchSmalltalk.html`

Larch/Smalltalk is an interface specification language for Smalltalk.

*The MEAD multi-user interface prototyping system*

**URL:** `http://orgwis.gmd.de/~bentley/MEAD.html`

“MEAD is a prototyping environment which supports rapid development of multi-user interfaces for cooperative shared information systems.”

*Self Home Page*

**URL:** `http://self.smli.com/`

SELF isn't Smalltalk but is a richer language based on a simplification of Smalltalk Dave Ungar, one of the parents of SELF, is supposed to have said: ’SELF is like Smalltalk, only more so.’

SELF does have a Smalltalk simulator that supports the GNU library and that runs faster than most commercial Smalltalk implementations.

*The SWeb Project*

**URL:** `http://ursaminor.scs.carleton.ca/COOP/Students/whui/SWebProject.html`

A Smalltalk WWW client and server using ParcPlace's VisualWorks produced at Carleton University by William L.M. Hui, a student of Bjorn N. Freeman-Benson.

*UIUC Smalltalk/Patterns Group*

**URL:** `http://st-www.cs.uiuc.edu/users/smarch/index.html`

Research projects include patterns, the refactoring browser, and a Smalltalk lint tool.

**Frequently Asked Question**

## 1.26 • Are there Smalltalk tutorials on the net?

*GNU Smalltalk Tutorial*

**URL:** `ftp://prep.ai.mit.edu/pub/gnu/smalltalk-tutorial.ps.gz`

**URL:** `ftp://prep.ai.mit.edu/pub/gnu/smalltalk-tutorial.txt.gz`

A tutorial on the Smalltalk language provided with the GNU Smalltalk implementation.

*IBM Smalltalk Tutorial*

**URL:** `http://www2.ncsu.edu/eos/info/ece480_info/project/spring95/proj39/www/`

The tutorial is intended for programmers with no prior experience with Smalltalk. It introduces important ideas and techniques needed by the Smalltalk novice. It is assumed that the reader is familiar with general programming terms and concepts.

*Smalltalk-in-the-Large Tutorial*

From ByteSmith's Real Soon Now.

*Smalltalk Textbook*

**URL:** `http://srainc.com/~aoki/SmalltalkTextbook/index.html`

Written by Atsushi Aoki; translated by Kaoru Rin Hayashi and Brent N. Reeves.

*Tutorial on ObjectWorks R4.1 (in French)*

**URL:** `http://zeus.enst-bretagne.fr/Tutoriaux/smalltalk/s80part1/s80part1.html`

*Smalltalk 4.1, un tutorial,* A. Beugnard

"Nous présentons dans ce document l'interface de Smalltalk-4.1, les principes de programmations, les outils de développement et les classes de bases. Notre démarche est incrémentale et sollicite le lecteur. Nous vous conseillons de lire ce document activement, en face d'un environnement Smalltalk. De nombreux exercices sont proposés qui permettent de mettre en pratique les concepts et les outils décrits."

"Un Index en fin de document permet de retrouver rapidement la plupart des concepts, classes, méthodes décrits."

*Tutorial on Model-View-Controller (MVC)*

**URL:** `http://st-www.cs.uiuc.edu/users/smarch/st-docs/mvc.html`

This paper, by S. Burbeck, originally described the MVC framework as it existed in Smalltalk-80 v2.0. It was updated in 1992 to take into account the changes made for Smalltalk-80 v2.5. ParcPlace made extensive changes to the mechanisms for versions 4.x that are not reflected.

Frequently Asked Question

## 1.27 • What are the home pages of vendors and suppliers?

See "Smalltalk Implementations" on page 21 for net addresses of vendors and suppliers.

Frequently Asked Question

## 1.28 • What other Smalltalk sites are there on the Internet?

*The Smalltalk Hints Index*

**URL:** `http://www.amsinc.com/special/techexp/objtech/hints/index.htm`

Hints on Smalltalk programming as noted by the programming staff of AMS.

*Smalltalk Industry Council (STIC)*

**URL:** `http://www.webpress.net/stic/`

"STIC is a non-profit trade association whose goal is to promote the awareness of and increase demand for Smalltalk by: establishing Smalltalk as the object-oriented language of choice for application development in the enterprise; creating a focal point for the Smalltalk community; listening and responding to the needs of Smalltalk users; encouraging the participation of all segments of the Smalltalk industry (vendors, service providers and users); and encouraging standards for Smalltalk."

*Smalltalk Users Groups*

Smalltalk user groups exist in many cities. You can browse a list of them on these web pages.

From the Puget Sound Smalltalk Users Group:

**URL:** `http://www.halcyon.com/podenski/stug/welcome.html`

From ObjectSpace in Dallas, TX:

**URL:** `http://www.objectspace.com/products/objmetrc/`

Frequently Asked Question

## 1.29 • What Smalltalk indexes are there?

Various people maintain lists of relevant Smalltalk and OOP information on the net. Here is a collection of such pages.

*Aoki's Home Page*

**URL:** `http://sracog.srainc.com/~aoki/`

English and Japanese Smalltalk goodies.

*Cocking and Co., UK*

**URL:** `http://www.cocking.co.uk/`

Tips and technical articles, links to websites covering Smalltalk and other object-oriented topics, the Smalltalk User Group UK, and other Smalltalk-related information is provided by Cocking and Company.

*DI-UFPE Smalltalk Page*

**URL:** `http://www.di.ufpe.br/smalltalk/`

Pointers to Smalltalk information.

*European Smalltalk User Group*

**URL:** `http://www-laforia.ibp.fr/~fdp/esug.html`

"ESUG is a non-profit association that gathers European users of (all dialects of) Smalltalk. Its goals are to promote Smalltalk use; promote communication between Smalltalk users through meetings, periodic newsletter, software exchange, electronic mail; help and link local Smalltalk users groups; identify Smalltalk users and their needs; and represent them towards discussions with vendors."

*Francois PACHET's Bookmarks, France*

**URL:** `http://www-laforia.ibp.fr/~fdp/esug-bookmarks.html`

World wide coverage but with a distinctive European flavor.

*Jeff McAffer's Smalltalk Page, Japan*

**URL:** `http://web.yl.is.s.u-tokyo.ac.jp/members/jeff/smalltalk.html`

*Jeff Sutherland's Object Technology Home Page, USA*

**URL:** `http://www.tiac.net/users/jsuth/`

*Smalltalk Developer's Site, USA*

**URL:** `http://www.rwi.com/smalltalk/smalltalk.html`

Information provided by RothWell International.

*The Smalltalk Store, USA*

**URL:** `http://www.smalltalk.com`

The Smalltalk Store home page lists many Smalltalk resources.

*Smalltalk with Tim and Linda, The Netherlands*

**URL:** `http://www.htsa.hva.nl/~linda/index.html`

Grafische wandeling door de wereld van Smalltalk.

*Software Composition Group Bibliography Server, Switzerland*

**URL:** `http://iamwww.unibe.ch/cgi-bin/oobib?Smalltalk`

The Software Composition Group at the University of Bern, Institute of Computer Science and Applied Mathematics, maintains a server that searches for papers on object-oriented topics. This URL returns all such references containing the keyword '`smalltalk`'.

*Serge's Smalltalk Page, France*

**URL:** `http://www.info.unicaen.fr/~serge/smalltalk80.html`

*UIUC Sources of Smalltalk Information, USA*

**URL:** `http://st-www.cs.uiuc.edu/other_st.html`

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# The History of Smalltalk

words words words

Frequently Asked Question

### 1.30 • Where Did Smalltalk Come From?

Frequently Asked Question

### 1.31 • What did Smalltalk-72 look like?

Frequently Asked Question

### 1.32 • What did Smalltalk-76 look like?

Frequently Asked Question

### 1.33 • Where can I read more about the history of Smalltalk?