

Visible Analyst® Educational Editions

Educating Tomorrow's Developers Today

Students who learn the discipline of developing high-quality business software efficiently in the most modern environments will command the best jobs. Visible Analyst®, a powerful integrated application development tool, can help educators prepare their students to meet this challenge.

Visible Analyst provides graphical analysis and design for structured, data, and object modeling, as well as construction in one affordable, easy-to-use package. The tool enables students to apply concepts learned in their information systems classes to real-world situations. Some educators even assign student teams using Visible Analyst to help local businesses design and build their software applications. Zachman

One Integrated Toolset for UML, XML, and Structured Notations

- Powerful modeling capabilities
 - UML modeling
 - Process/business modeling
 - Data modeling
 - Structured design
- Exclusive meta-data repository
- XML and SQL schema generation
- Visual Basic interface
- Easy to learn, easy to use

Why Visible Analyst in the Classroom?

Commercial Strength, Yet Easy to Use

Visible Analyst Educational Editions are easy-to-learn, easy-to-use, affordable — yet powerful. They are based on the Visible Analyst commercial editions used by thousands of business organizations and government agencies worldwide. Visible Analyst has powerful modeling capabilities, as well as a multi-user repository for storing and documenting data, processes, and objects that students will need to model real-world applications. The Educational Editions generate Oracle and Access SQL DDL and XML files and include an interface to Visual Basic.

Used at over 3,000 Colleges and Universities

Visible Analyst is used in graduate and undergraduate classes at over 3,000 colleges, universities, community colleges, and business and training institutes around the world. It is an ideal tool for introductory, core, and advanced classes on Systems Analysis, Systems Design,

Database Management, Object Oriented Analysis and Design, and other Information Systems curricula.

Strategic Partnerships with Major Publishers

Visible has established strategic partnerships with five premier publishers of educational textbooks. Publishing partners develop and publish textbooks and workbooks supported by Visible Analyst. Students can now have their own copy of Visible Analyst Student Edition, bundled with their information systems textbooks, at a fraction of the retail cost. Our publishing partners include:

- Irwin/McGraw-Hill
- Harcourt College Publishers
- Prentice-Hall, Inc.
- Course Technology/Thompson Learning
- John Wiley & Sons

For a current listing of available bundle options, please check out our web site at <http://www.visible.com/train/etvase.html> or contact your publisher representative.

Visible Analyst® Tailored to Your Educational Needs

EDUCATIONAL EDITIONS (for data, structured, and object modeling)

Student Edition
single-user,
individual project

University Edition
multi-user for teamwork
in your computer lab

Zachman University Edition
Our most comprehensive
software offering

COMMERCIAL EDITIONS (full function, single-user, or multi-user)

Zachman Edition
Most comprehensive
modeling product

Corporate Edition
All modeling functionality

Standard Edition
Analysis and Design
Functional Decomposition

Educating Tomorrow's Developers Today

One Integrated Toolset for UML, XML, and Structured Notations

Powerful Process/Business Modeling

Visible Analyst supports data flow diagrams and functional decomposition diagrams using techniques and notations for Yourdon/DeMarco, Gane & Sarson, SSADM, and Métrica methodologies. Clear business and functional modeling diagrams make it easy for

“One effect of using Visible Analyst in our computing curricula is the transfer of the technology to the 'real' world. A number of our students have successfully introduced the use of application development tools into their work environment as a result of the positive experience with Visible Analyst in their class projects. From an educator's perspective, this is a powerful measure of the success of an educational program.”

Dr. Fred Grossman
Pace University

students to perform “top-down” analysis and design. Visible Analyst interactively checks leveling, syntax, and completeness throughout the hierarchy and balances data flows and processes. It automatically populates the repository and supports the splitting of data flows from repository definitions, as well as the auto-generation of DFDs from FDDs with automatic process balancing.

High-performance Data Modeling and Database Design

Visible Analyst supports entity relationship diagrams based on notations defined by IDEF1X, Bachman, and Information Engineering (IE). It automatically generates Entity Relationship Diagrams and data models related to a particular process. Display options include entity, entity/key, and entity/attribute. Several Visible Analyst features improve the performance of database designs including the automatic synchronization of foreign keys and the dynamic correction of Entity Relationship Diagram (ERD) syntax.

Object Modeling

Visible Analyst supports class diagrams, state transition diagrams, use-case diagrams, sequence diagrams, collaboration diagrams and activity diagrams based on notation styles of UML (Unified Modeling Language) and Rumbaugh OMT. It provides class definitions, including attributes, methods (with parameter lists), type of visibility, and relationships. It verifies aggregation and inheritance relationships and pure virtual methods in abstract classes. Any relational entity can be translated into an OO Class model and vice versa, or either can be left as pure relational or pure object.

Structured Design

Visible Analyst supports structured design modeling for Page-Jones and Yourdon/Constantine methods. The structured design model integrates automatically with data flow models and includes syntax and completeness checking. It supports:

- Modules, Macros, and Library Modules
- Control couples, data couples
- Multiple invocation techniques
- Information clusters, interface tables, intelligent page connectors

“Visible Analyst is relatively easy to learn, and I found it very helpful in demonstrating and reinforcing concepts covered in classes relating to data modeling, process modeling, and object modeling.”

Klara Nelson
University of Tampa

Meta-data Repository

Visible Analyst's repository stores data, processes, and objects that can be shared throughout a project, making it much more powerful than file-based tools. The repository functions interactively with models to automatically create an organized database of information for each project as it is developed. Students can access the repository at any time to manually add, modify, or

“I teach modeling in our systems analysis and design courses. I use Visible Analyst because it allows students to obtain hands-on modeling experience with a serious application development tool.”

Larry Andrew
Western Illinois
State University

delete objects or review entries and relationships. During work sessions, the repository is automatically updated. Multi-user editions of Visible Analyst support concurrent user access, simultaneous update, and file/record locking.

XML, Database Schema, and VB Forms Generation

Visible Analyst supports the development of e-business applications. It can generate from models an XML file. The XML file contains meta-data descriptions for all tables/entities on a given model.

Visible Analyst enables schema generation of both Oracle and Access databases including support for domains, stored procedures, triggers (with referential integrity trigger generation), primary keys, and foreign key referential integrity constraints. Users can connect directly to the target database via drivers that conform to Microsoft's Open Database Connectivity (ODBC) or generate SQL DDL scripts.

Visible Analyst provides an export mechanism for generating Visual Basic forms from data models defined in the Visible Analyst repository. For every entity or relationship defined, a Visual Basic form can be created based on the physical characteristics of an entity's definition.

Find Out More

For details or a demonstration of Visible Analyst, contact our educational sales office at 800-6VISIBLE or edusales@visible.com. Visit our web site at www.visible.com for information and free product downloads.

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SYSTEMS CORPORATION

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