

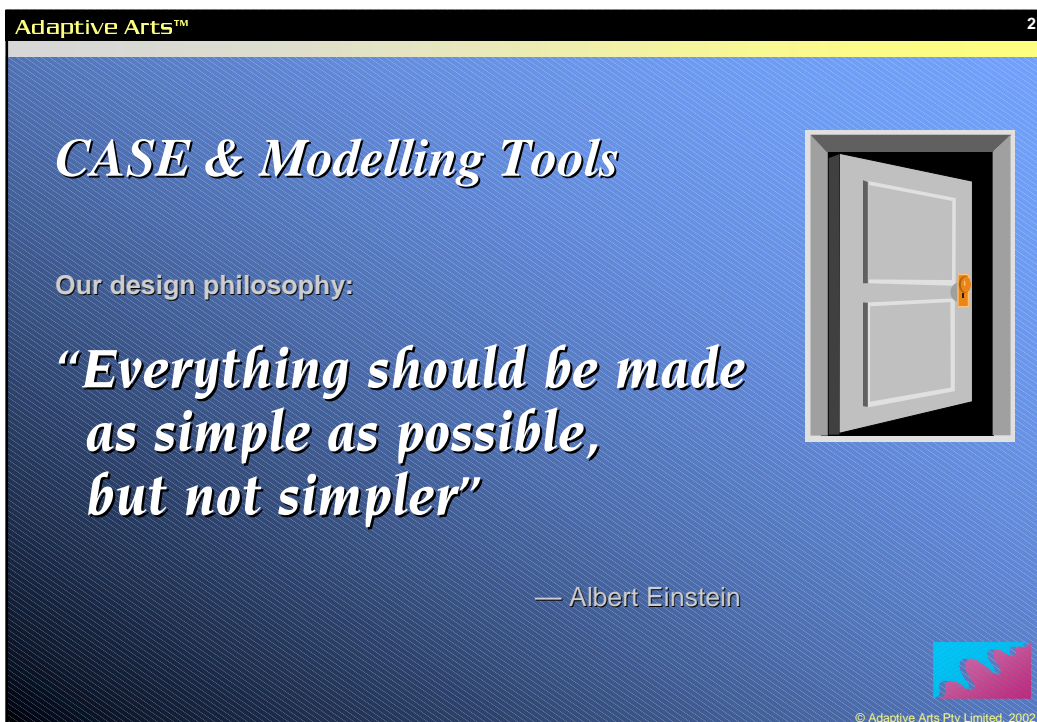


Simply Objects®
Overview

Adaptive Arts Pty Ltd

www.adaptive-arts.com
+61 2 9957 3169
Level 4, 90 Mount Street,
North Sydney, NSW 2060
Australia

The slide features a background with abstract, organic shapes in shades of teal and magenta. The title is in a light green box in the top left. The company name and contact information are in the bottom right.



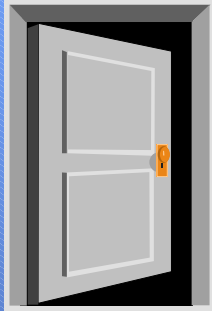
Adaptive Arts™ 2

CASE & Modelling Tools

Our design philosophy:

*“Everything should be made
as simple as possible,
but not simpler”*

— Albert Einstein



© Adaptive Arts Pty Limited, 2002

The slide has a blue background with a fine grid pattern. The title is in a serif font. The quote is in a large, italicized serif font. The door image is a simple 3D model. The footer contains the copyright notice and a small logo.

Adaptive Arts™ 3

Simply Objects...

- ❖ Supports multiple languages and notations
- ❖ Combines best-of-breed drawing package and development environment features
- ❖ Used for both simple and complex tasks
- ❖ Supports UML, OML, OMT...

© Adaptive Arts Pty Limited, 2002

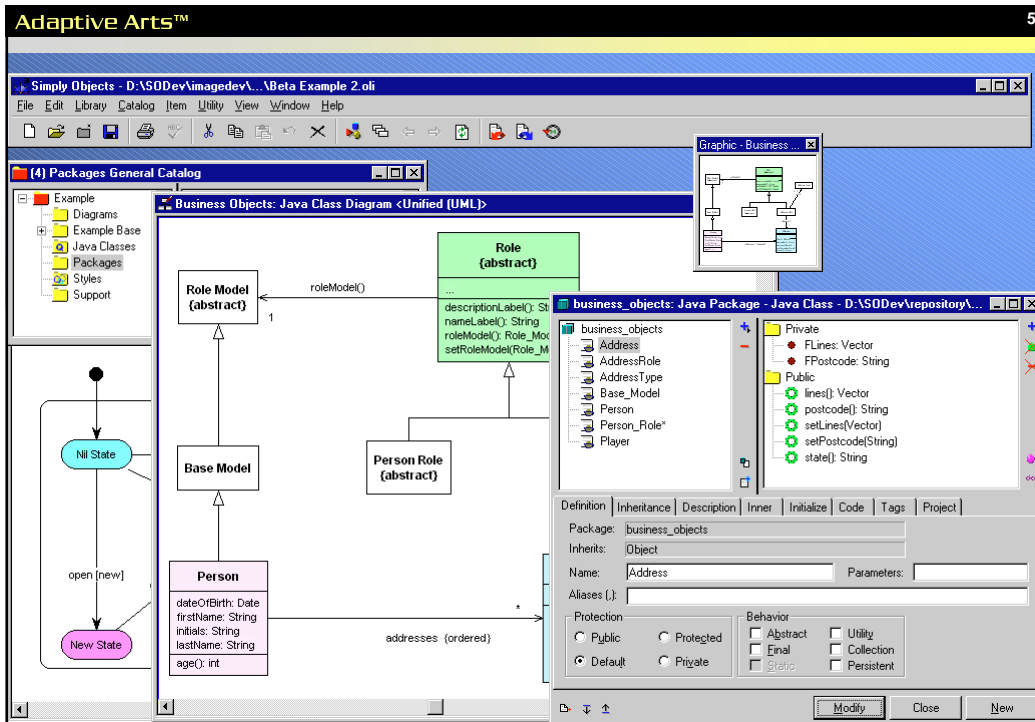
Adaptive Arts™ 4

Supported Items

- Diagrams of different types (general, class, use case, collaboration/sequence, plus others...)
- Actors, Use Cases
- Classes, Behaviour
- Text Notes - for definitions
- Catalogs (Packages)
- Objects (instances)
- Methodology & Notations
- Images, Values & Applications
- Plus others...

© Adaptive Arts Pty Limited, 2002

Simply Objects® Overview



Release 3.3.X

- Simply Objects Modeler - Standard
- Simply Objects Modeler – Professional
- Many optional features for both products

Release 3.3 has many new features and options including XMI/UML Export, enhanced report generators and scripting etc.

All modeler products generate IDL, C++, Eiffel, Smalltalk, Delphi, Java, OO Cobol...

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 7

Tool Environment

- Graphical environment
 - Visual Item lookup
 - Cross referencing
- Multiple language support
- Correct spelling
- Dynamic Item Field support
- Tool configuration
- Works with Delphi, JBuilder, VisualAge and other products
- Convenient Library and catalog paradigm - now with library layering



© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 8

Import/Export Facilities

- ⊗ Variety of formats available (including Data Dictionary and Key Report)
- ⊗ XMI 1.1/UML 1.3 Export (Unisys/Rose format)
- ⊗ Generate C++, Bullant, VB, Eiffel, Forte 4GL, Smalltalk, Delphi, Java, OO Cobol...
- ⊗ Supports import/export of structured text (ie., Lotus Notes text format)
- ⊗ Can customize the 'Key Format'
- ⊗ Web graphics (JPEG & PNG) supported
- ⊗ Copy/Paste & "Morph" operations
- ⊗ Collision management - facilitates Team development
- ⊗ Version control - can work with other products



© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 9

AutoDoc – Diagram Generation

- ✓ Rapidly create documentation
- ✓ Heuristically creates and arranges diagrams
- ✓ Saves time and effort

Adaptive Arts™ 10

Tool ‘Features’

- ✓ Use the “Modeler” is a base product
- ✓ Extends tool support, eg., report & code generation and round-trip engineering
- ✓ Conversion between languages supported
- ✓ Improves documentation
- ✓ Better communication of design
- ✓ Smooths the development process
- ✓ Provides language-specific support

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 11

Language Feature & Plug-in Support...

Environment

Concept Markup

Core Language

Delphi,
Java, UDS,
Smalltalk...

Even convert between languages!

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 12

Java Feature

- ✓ Support complete Java 1 & 2 source
- ✓ Recognizes Packages, Files and Classes
- ✓ Retains complete package information
- ✓ Custom Java editors
- ✓ Java name spaces
- ✓ Mark-up field support
- ✓ Import Java byte code

sofx.base.core.catalog: Java Package - Java Interface Method - C:\adaptive\af...

sofx.base.core.catalog

- AbstractCatalogDc*
- ADiableCatalogDc
- ADiableIndexDc
- ADiSchemeCatalogDc
- BucketIndexDc*
- Catalog

interface (Public)

- addMember(Relatable)
- canAddMember(Relatable): boolean
- getMembers(): Collection < Relatable >
- hasMember(Relatable): boolean
- memberCount(): int
- removeMember(Relatable)
- removeMembers(Collection < Relatable >)

Definition | Relationship | Description | Body | Code | Tags | General

Name: getMembers

Parameters:

Result Type: Collection < Relatable >

Category: interface

Throws: RemoteException

Protection: Public Protected Private Default

Behavior: Constant Function Procedure

Abstract Static Final

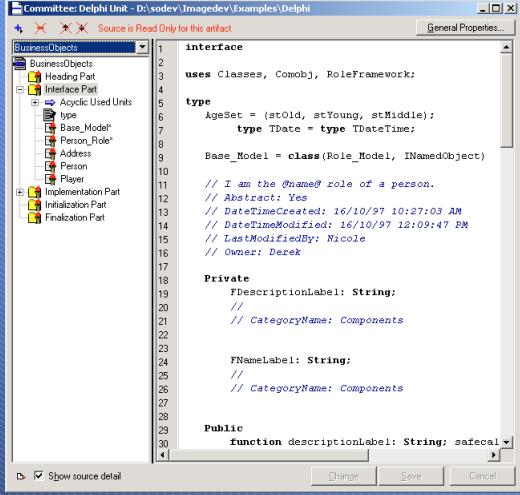
Modify Close New

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 13

Delphi Feature

- ✓ Supports *.PAS & *.DPR
- ✓ Recognizes Units, Classes & other items
- ✓ Retains complete unit information
- ✓ Custom Delphi editors
- ✓ Delphi name spaces
- ✓ Mark-up field support



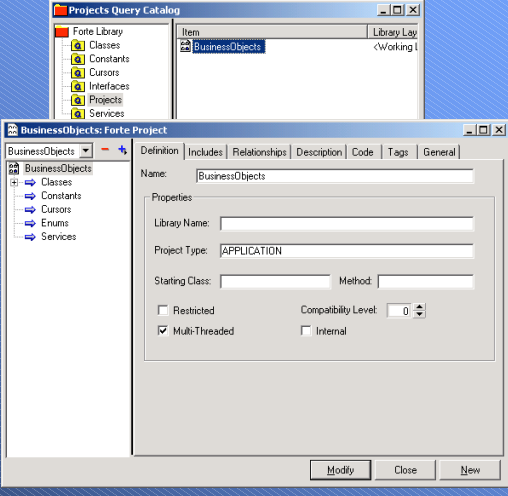
The screenshot shows the Delphi IDE with a project explorer on the left displaying a tree structure of units and classes. The main editor shows the source code for an interface named 'BusinessObjects'. The code includes 'uses' statements for 'Classes, Comobj, RoleFramework', a 'type' declaration for 'TDate = type TDateTime;', a 'class' declaration for 'Base_Model = class(Role_Model, INamedObject)', and a 'Public' section with a 'function descriptionLabel: String; safecal'.

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 14

UDS (Forte 4GL) Feature

- ✓ Import *.cex, *.pex, *.wex source files
- ✓ Generate source code from a library
- ✓ Comprehensive, non-modal editors for projects, classes, interfaces etc.
- ✓ Ideal for documenting applications




The screenshot shows two windows from the Forte IDE. The top window is 'Projects Query Catalog' showing a tree view of 'Forte Library' with sub-items like 'Classes', 'Constants', 'Cursors', 'Interfaces', 'Projects', and 'Services'. The bottom window is 'BusinessObjects: Forte Project' dialog box, which has tabs for 'Definition', 'Includes', 'Relationships', 'Description', 'Code', 'Tags', and 'General'. The 'Definition' tab is active, showing fields for 'Name: BusinessObjects', 'Library Name', 'Project Type: APPLICATION', 'Starting Class', and 'Method'. There are also checkboxes for 'Restricted', 'Multi-Threaded', and 'Internal', and a 'Compatibility Level' spinner set to 0.

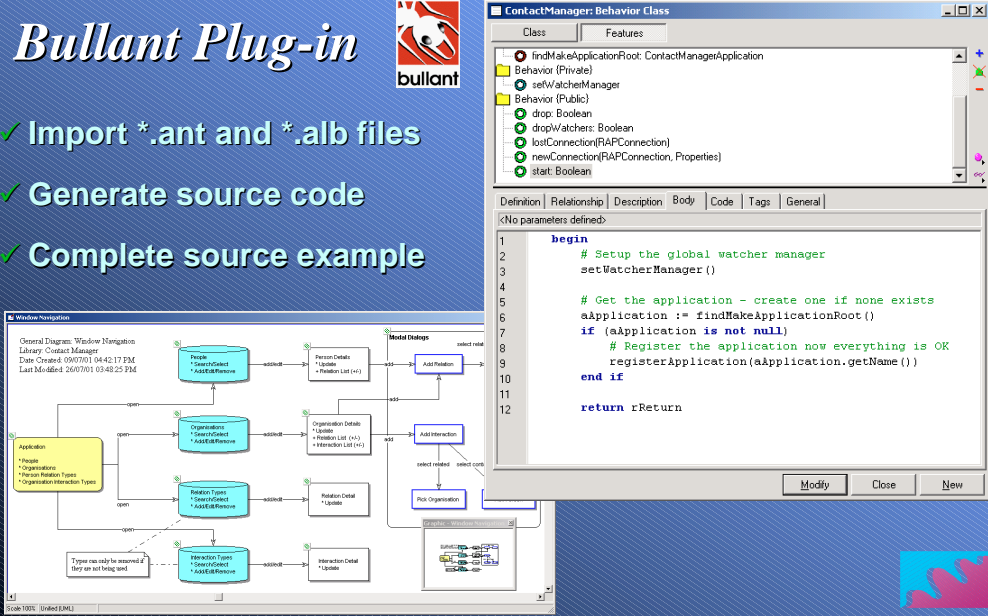
© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 15

Bullant Plug-in



- ✓ Import *.ant and *.alb files
- ✓ Generate source code
- ✓ Complete source example



ContactManager: Behavior Class

Class Features

- findMakeApplicationRoot: ContactManagerApplication
- Behavior (Private)
- setWatcherManager
- Behavior (Public)
- drop: Boolean
- dropWatchers: Boolean
- lostConnection(RAPConnection)
- newConnector(RAPConnection, Properties)
- start: Boolean

Definition | Relationship | Description | Body | Code | Tags | General

<No parameters defined>

```

1 begin
2   # Setup the global watcher manager
3   setWatcherManager ()
4
5   # Get the application - create one if none exists
6   aApplication := findMakeApplicationRoot ()
7   if (aApplication is not null)
8     # Register the application now everything is OK
9     registerApplication(aApplication.getName ())
10  end if
11
12  return rReturn

```


Modify Close New

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 16

Smalltalk Feature

- Supports chunk format code:
 - VisualAge, IBM & OTI Smalltalk
 - VisualWorks, VisualSmalltalk (16, 32, VSE) (PPD/ObjectShare)
 - Enfin
- Smalltalk 'dialect' conversion possible
- Diagram profile output in interaction diagrams!
- Uses simple markup fields for additional information
- Adds optional 'types' to Smalltalk
- Custom editors provided



© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 17

Libraries & Catalogs

Catalogs provide structure

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 18

Model vs. Representation

Items can be represented in more than one view (eg, diagrams & catalogues)

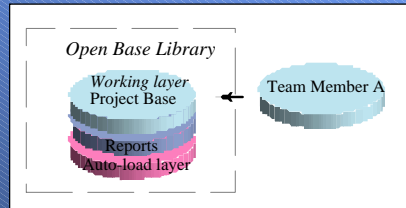
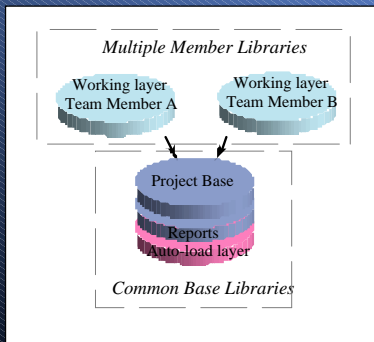
Different levels of detail can be shown in diagrams resulting in a better comprehension of complex models

Dependencies between “high level” concepts can be shown

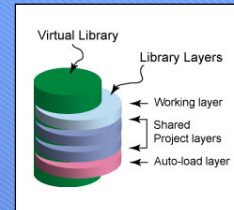
© Adaptive Arts Pty Limited, 2002

Library Layers (Pre-Requisites)

Team members can have their own working layer



A Library manager later imports changes made within each working layer to a lower layer



JSL™ - Scripting + More

- The Scripting language for Simply Objects is JSL. JSL can be used as a general purpose scripting language and document template language
- Based on Java, JSL provides > 110 Classes, including collections, streams and general model classes - giving you access to the tool meta-model
- Create Macros, File Scripts, Queries, Reports, call DLLs, use from COM and more!



Adaptive Arts™ 21

Generating Reports

The screenshot shows the 'Simply Objects - Baseball_2' application window. The 'Generate' menu is open, showing options for 'Code', 'Report', and 'HTML Report'. The 'Report' option is selected. In the background, a Microsoft Internet Explorer window displays the generated HTML report titled 'Login in Action Interaction Diagram'. The report includes a diagram showing a 'General User' object launching an 'Application' object, with steps: 1: launch, 2: new ^w, 3: display. A note in the diagram states 'The table is a separate Object'. Below the diagram, there is a list of links: Domain Overview - Images, Library Overview, Login in Action, Major Dependencies, Role Modeling, and System Outline.

Website & document based reporting

Adaptive Arts™ 22

How is the tool used for...

- ❖ Workshops
- ❖ Architecture
- ❖ Team development
- ❖ Living documentation



The diagram consists of seven arrows in a circle, colored cyan, red, green, blue, yellow, pink, and teal, all pointing in a clockwise direction.

© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 23

Business Benefits

- Fast to use, quick to get started
- Better communication of design
- Used across the software life-cycle
- Encourages pro-active documentation
- Improves morale
- Value for money
- *Others...*



© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 24

Our clients include...

- 🇺🇸 Australian Bureau of Statistics
- 🇺🇸 Australian Taxation Office
- 🇺🇸 Britannic Assurance
- 🇺🇸 CentreLink (Australia's largest IT organization)
- 🇺🇸 ComCare
- 🇺🇸 Integral Development
- 🇺🇸 GrainCorp
- 🇺🇸 Object Oriented Pty Ltd
- 🇺🇸 Freemarkets Online
- 🇺🇸 Sprint Publishing
- 🇺🇸 Tektronix
- 🇺🇸 Interactive Objects Software GmbH
- 🇺🇸 Major Universities
- 🇺🇸 Consultancies & others...



© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 25

What are people saying?

"It quite simply is the most brilliant tool I have yet used"


J Glenn Gilbert
JG & SM Computers and Services

" I have found Simply Objects very easy to use. Within a couple hours an engineer can be working productively.....(the vendor) continually improve the quality and feature set of the product, and are very prompt in replying whenever we contact them with questions or issues."

Richard Austin
Senior Software Engineer
Tektronix Measurement Business Division (Design, Service, and Test Business Unit)

"... it was more useful a tool than ABC FlowCharter or Rational Rose which I had used for similar tasks ... There is no doubt in my mind that SO is a valuable, maybe even necessary, addition to any serious development tool-set."

Piotr Palacz
Technical Director, FreeFall Software



© Adaptive Arts Pty Limited, 2002

Adaptive Arts™ 26

Related Services

- ✓ Maintenance agreement
- ✓ Custom tool support
- ✓ Training courses
- ✓ Consulting



© Adaptive Arts Pty Limited, 2002