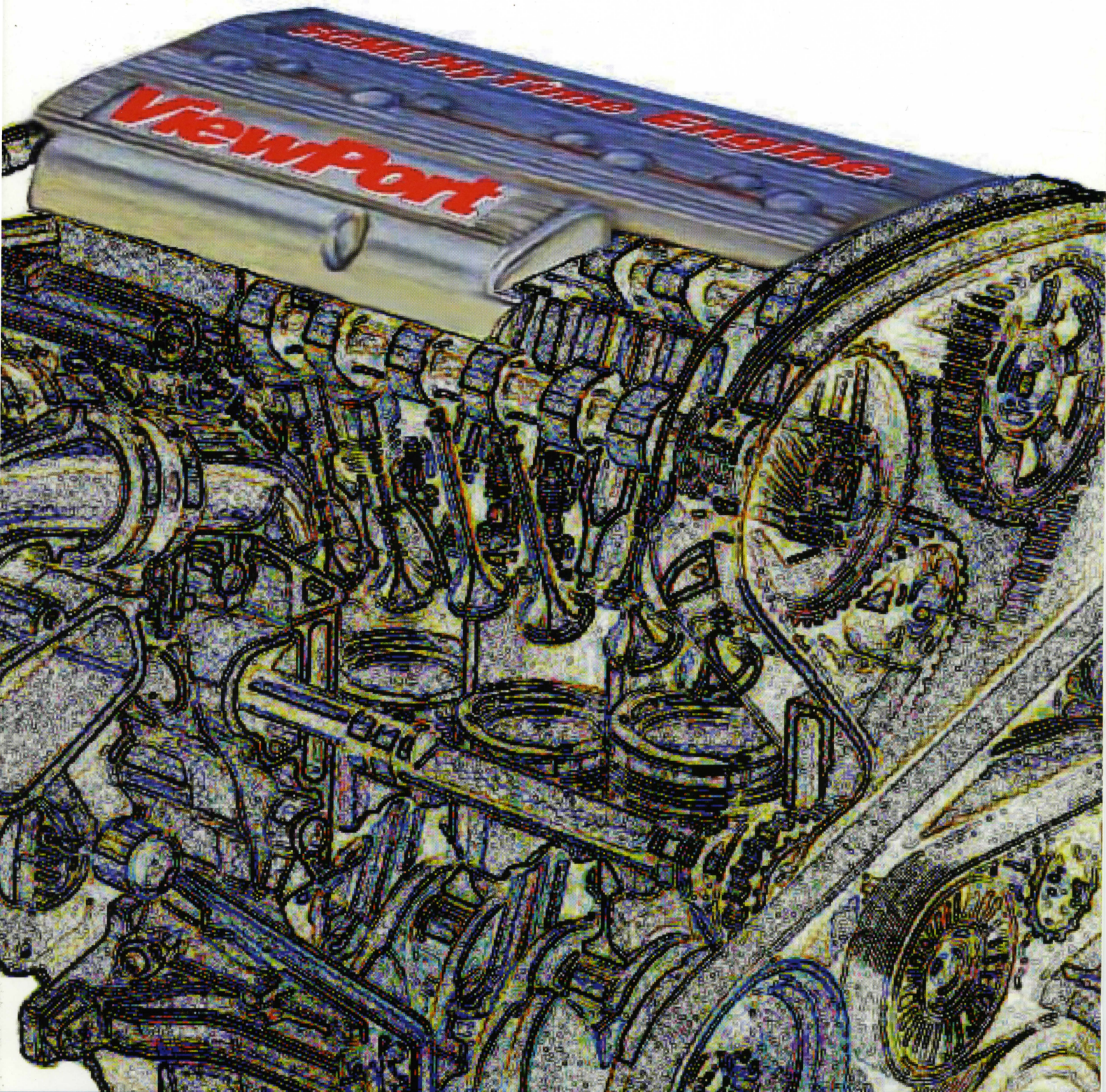**VP** Synex™ ViewPort

SGML/HyTime Browser Engine

Simplicity, Power, and Fle

*Introducing **Synex ViewPort™**, the first multi-platform SGML Browser Engine capable of reading SGML directly from any source. It offers an application programmer a powerful C API to ViewPort's C++ kernel.*

Take advantage of several years of development efforts

Synex ViewPort is a highly customizable browser engine, based on more than three years of research and development. The ViewPort engine parses and displays any fragment of an SGML document on-the-fly without precompilation. Documents may even be assembled at runtime and browsed instantly. The engine can also compile and display binary documents, addressing dynamic and static browsing with equal ease.

Real SGML. Real Easy.

ViewPort acts directly on links defined by the document markup. The built-in HyTime support allows cross-document links to any element or textual span. TEI extended pointers gives you a compact and efficient notation for link specification. ViewPort also handles linking into and out-of graphic hot spots, based on an architectural form defined by Synex. References to external graphics are resolved automatically, displaying the graphics inline. The supported graphic formats can easily be extended.

Add powerful SGML Browsing to your applications, easily

Adding SGML browsing support used to be difficult and time-consuming. Too often your valuable time was spent trying to adapt tools not quite up to the task, rather than addressing the true goals of your application. ViewPort is designed as a plug-in module, integrated using a few simple steps—you are not required to rebuild or even redesign existing applications. Instead, ViewPort will turn them into fully fledged SGML browsers with just a handful of commands.

ViewPort will grow with you

Instead of simply using ViewPort as a "black box", you can take control—decide what to happen and how. ViewPort offers a powerful interface for process customization and data retrieval. The API contains more than 200 functions, accompanied by more than a dozen callbacks for fine-tuning the behavior.

Input from any source

Control

Input

VP

Examine
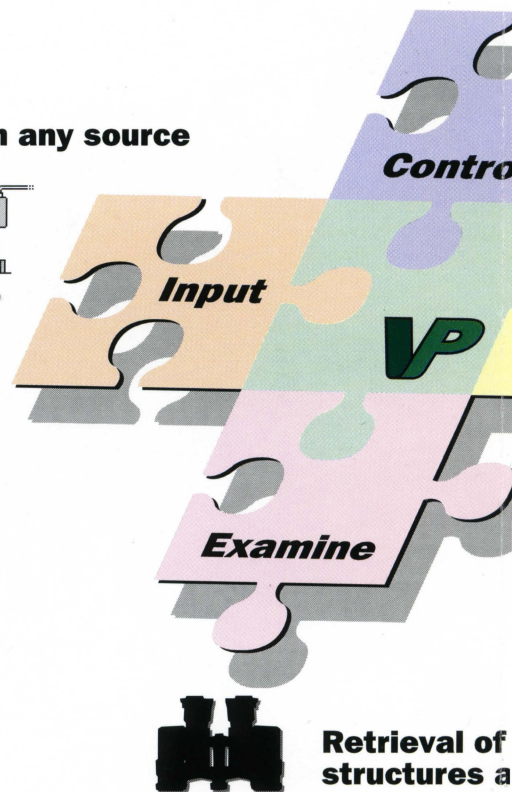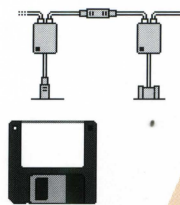
Retrieval of structures a

Create custom solutions that work

Since ViewPort is a browser *engine* rather than an API
total freedom when designing the user interface. A Vie
appearance. The powerful interface for retrieval of info
it to be used in an application without any browsing w
and distributor in an SGML-based EDI system. Due t
the engine could also serve as a browser for *non*-SGMI
converted to SGML on-the-fly as it is fed to the parser

exibility—at your Service

Powerful control panel to the browser engine
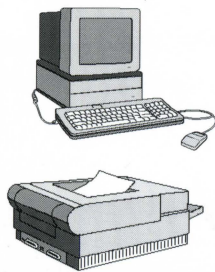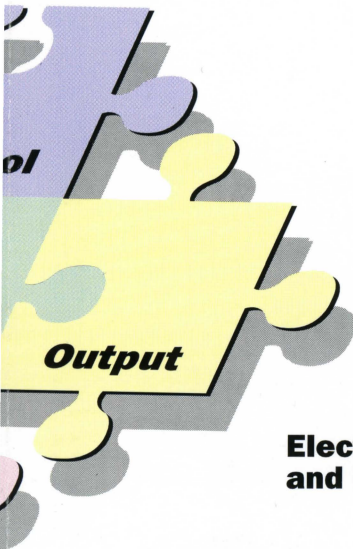
Output

Electronic browsing and hard-copy output

Integrators who can provide efficient SGML solutions—and fast—have a competitive edge

With ViewPort, you can rapidly make a browser prototype, visualizing your ideas. The prototype can then gradually be enhanced to full industrial strength. The power and flexibility of ViewPort are at your side during all stages of the process.

Consistent programmer's interface

Considerable design effort has gone into streamlining the programmer's interface—to make it consistent all the way through. Once you have learned a small subset of the interface, you will feel familiar with the rest.

Get ahead of the competition—and stay ahead

ViewPort is based on an international standard. Where others force you to implement proprietary solutions, ViewPort brings you application independence. Synex Information AB is at the forefront of browser technology, and is committed to stay there.

f underlying and data

for you

l to a browser *application*, you have
iewPort application can take any
formation components even allows
whatsoever, for instance as a receiver
to the flexible input capabilities,
IL data, where the data would be
r.

Even before its commercial release, ViewPort was selected for use in several commercial projects, including one of the largest SGML applications in the world, the SAAB Regelverk project. The ViewPort technology is also the basis of the new and exciting SoftQuad Panorama, bringing SGML and HyTime to the World Wide Web.

Some Features...

Hyperlinking
- SGML ID/IDREF
- HyTime nameloc, treeloc, and dataloc
- TEI-P3 extended pointers
- Customizable hypertext, turning any element into an arbitrary processed link

Style Sheets
- Platform independent
- Formatting based on kinship, attributes, and occurrence
- Font family, size, slant, weight, scale, color, and base line offset
- Left, center, and right justification
- Leading, horizontal and vertical spacing
- Page background color
- Underlining, overlining, and strike-through
- Hide any element behind a configurable icon and reveal it on user click
- Element pre- and post insertion of text, icons, and attribute values
- Horizontal rulers and change bars
- Engineering math (such as fractions, radicals, and indices)
- Content hiding
- CALS table support
- Any tabular markup can be displayed as a table
- "Widget" feature—allowing any rectangular element to be displayed in the browser (e.g. HTML forms)

Navigators
- Generalized table of contents, extracting any elements for navigation
- Automatic encapsulation, reflecting document hierarchy

Webs
- Containers for user annotations, bookmarks, and hyperlinks
- Uses HyTime addressing to create portable location addresses
- Allows attachment of user data to documents on read-only media
- Allows user-added data to be handled separately from the document
- Allows several webs to be active simultaneously

Entity Manager
- Supports the SGML Open CATALOG format
- Customizable to retrieve entities from any source

SGML Parser
- Very fast, designed to read SGML on-the-fly for immediate on-line presentation
- Supports all entity types except SUBDOC
- Full SHORTTAG and limited OMITTAG support
- Support of #CONREF attributes and #DEFAULT entities
- Can pre-parse and re-use DTDs for efficient document processing

Information Retrieval
- Textual content, markup, declared entities, and processing instructions
- Element by generic identifier, ID, TEI pointer, and textual content
- Element parent, children, siblings, and attributes
- Attribute types, default value, and actual value
- Web annotations, bookmarks, and links
- Style sheet and navigator configuration

Miscellaneous
- Support for tear-off and zoomable graphics
- Built-in history list maintains backward and forward movements
- Support for integration of external graphic viewing packages
- Capable of launching any external viewer

Platforms
- Microsoft Windows
- Unix/Motif
- Macintosh (summer '95)

SoftQuad Panorama is the first commercial product based on ViewPort technology

Synex Information AB is a high-tech development company specializing in SGML browsing technology, with consulting, training, and implementation services. The company was founded in 1993 and is privately held. Besides Synex ViewPort, we develop and maintain SoftQuad Explorer and SoftQuad Panorama, in addition to performing industrial and defense contract work.

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