



Case Study

Relativity Technologies

Tom Sawyer Software Enhances Diagram Creation Performance

Impact Highlights

- Installed an improved visualization engine that replaces an existing one and does not require maintenance
- Eliminated a costly, time-consuming development initiative for creating a new visualization engine, while meeting customers' demands
- Focused development resources on core competencies to meet customer requirements without sacrificing the benefits of advanced visualization and layout capabilities

“When we realized that graph visualization would be a good return on investment, we shifted our product strategy in that direction. Instead of hiring engineers to work on this project for twelve months, we were able to accelerate the visualization project with Tom Sawyer, and simultaneously save development cost and time.”

Charles Dickerson
Senior Vice President
Relativity Technologies

About Relativity Technologies

Relativity Technologies is the leading provider of Enterprise Application Modernization and Application Portfolio Management solutions. Their industry-leading platform generates rich insight into the structure and behavior of existing applications across diverse environments—from COBOL to Java. With new insights into their applications, users can collaborate to identify, prioritize, and execute development activities that align their applications with business goals.

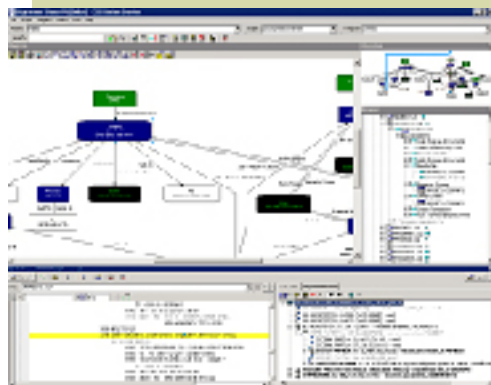
Relativity's Modernization Workbench

Relativity Technologies Modernization Workbench® analyzes the structure and function of enterprise application portfolios. When contextualized, these insights provide a business perspective on software assets. The Modernization Workbench offers many paths to getting insight into applications. One such feature is a proprietary visualization engine

that is built into the Modernization Workbench as a presentation layer. This allows users to analyze the complex interdependencies between software assets. Customers can use this information to make more informed development decisions and to transfer application knowledge between team members.

Relativity's Challenge

For over ten years, the Modernization Workbench technology has evolved to support market and customer needs. However, over the last three years, certain factors began to push the visualization engine to its limits. In response to a growing market, the Modernization Workbench had to support more languages and platforms, and had evolved from a single-user workstation product into a multi-user enterprise product. In addition, the continuing introduction of new functional capabilities has sparked a need for more sophisticated visualization requirements.

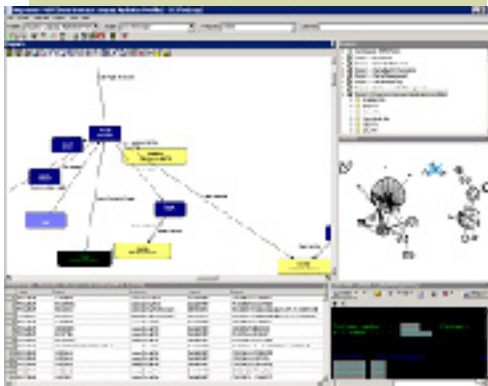


A hierarchical layout provides insight into an application's architectural layers.



“This was an easy decision for us. We had a very positive experience working with the Tom Sawyer’s Sales team and all of the technical staff that supported us throughout the evaluation process. They were consistently very responsive, flexible, and knowledgeable, and this has continued to be true since we became a customer.”

Kevin Cruz
Senior Director of Product Management
Relativity Technologies



Circular layouts help identify highly dependent assets within an application portfolio.

With these increasingly sophisticated usage scenarios, Relativity Technologies found it more important than ever to assist users in managing complex diagrams. The company decided to purchase a commercial product to improve the existing visualization component of Modernization Workbench. This decision allowed Relativity Technologies to focus their efforts on the primary core competencies of their product, and to analyze, manage, and modernize application portfolios.

According to Charles Dickerson, Senior Vice President of Relativity Technologies, “When we realized that graph visualization would be a good return on investment, we shifted our product strategy in that direction. Instead of hiring engineers to work on this project for twelve months, we were able to accelerate the visualization project with Tom Sawyer, and simultaneously save development cost and time.”

Choosing Tom Sawyer

There were a few factors that led Relativity Technologies to choose Tom Sawyer Software for their visualization needs. Tom Sawyer Visualization, ActiveX Edition, included many features of the existing visualization component already in Modernization Workbench, as well as several features needed for future visualization requirements. Tom Sawyer Visualization was also available on a number of platforms that Modernization Workbench already supported or may support in the future.

Members of the product management and development teams from Relativity Technologies knew of Tom Sawyer Software from past experiences and research. Those previous experiences, and their evaluation of a trial version of Tom Sawyer Visualization, encouraged them to choose Tom Sawyer Software for their visualization needs.

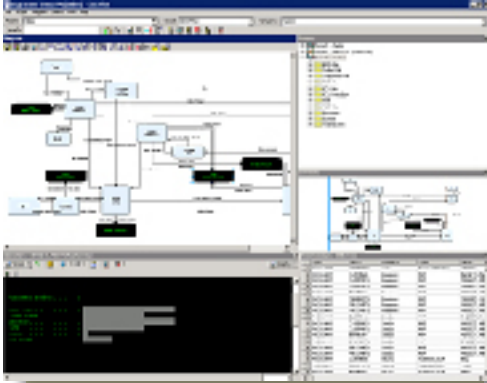
According to Kevin Cruz, Senior Director of Product Management of Relativity Technologies, “This was an easy decision for us. We had a very positive experience working with the Tom Sawyer’s Sales team and all of the technical staff that supported us throughout the evaluation process. They were consistently very responsive, flexible, and knowledgeable, and this has continued to be true since we became a customer.”

The Tom Sawyer Solution

Tom Sawyer Visualization is a fully customizable and extensible set of class libraries with APIs for developing graph visualization applications quickly and efficiently. Tom Sawyer Visualization, ActiveX Edition, provides a paradigm that is almost identical to the visualization component of the Modernization Workbench, enabling seamless integration. Relativity Technologies used Tom Sawyer Visualization to enhance the Modernization Workbench with viewing and editing features, and a sophisticated diagram display.

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Diagrams are dynamic and interact with other application analysis views.

About Tom Sawyer

Tom Sawyer Software is the premier provider of visualization, layout, and analysis solutions that help you make better and faster decisions. Recognized for its robust and highly scalable technology, Tom Sawyer products are used by Global 2000 companies to build applications in a variety of industries including banking, data management, energy, engineering design, intelligence, IT, life sciences, networking, and software engineering.

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Kevin Cruz acknowledged that, “The integration of Tom Sawyer Visualization was straightforward, allowing us to simultaneously realize some additional functional requirements not planned in the initial release, and that even improved our visualization engine.”

The Tom Sawyer Impact

Tom Sawyer Visualization has allowed Relativity Technologies to return some of its development resources to their core competencies. Their product management and development teams have been able to focus attention on representing complex information in the more usable and creative formats required by their users. With the feature-rich functionality of Tom Sawyer Visualization, Relativity Technologies could remove the burden of developing advanced visualization features from their product roadmap, saving development time and cost.

According to Kevin Cruz, “The initial release of the Modernization Workbench, with Tom Sawyer Visualization embedded, allowed users to produce diagrams that were more complex than previously possible, while also improving the performance of diagram creation. These improvements, along with some additional functional enhancements, have had a positive impact on our user base and their ability to analyze, maintain, and modernize their complex enterprise applications. The visualization component is one of the primary tools users have to make informed decisions based on technical

and business-related application initiatives.”

Overview

- Generate accurate, detailed, and current documentation of diverse applications
- Govern, plan, and mitigate risk for complex application portfolios
- Re-architect, SOA-enable, or re-develop existing applications
- Lower the cost, risk, and time needed to adapt applications

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