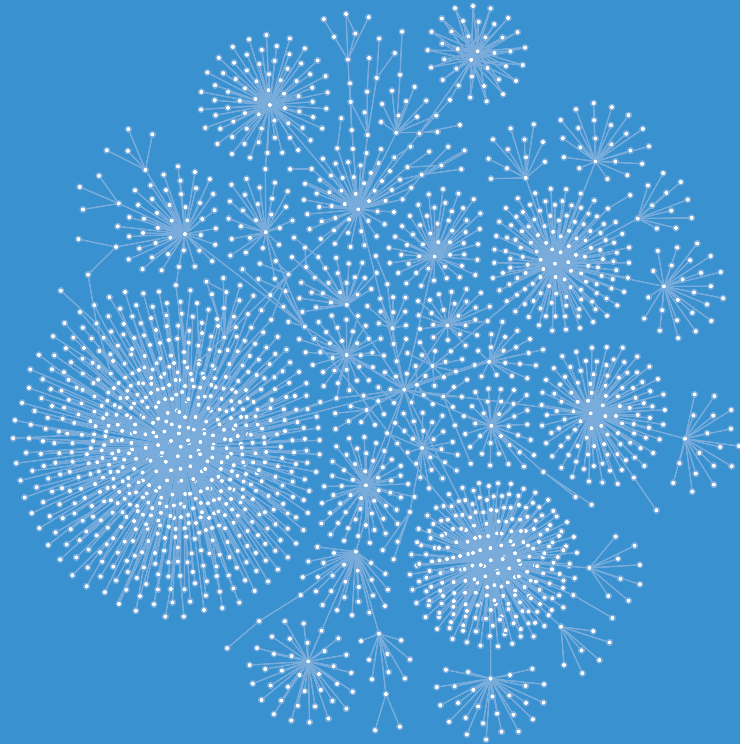




# yFILES

<data key="yWorks.Title"/>

DIAGRAMMING THAT WORKS



<data key="yWorks.large\_organic"/>

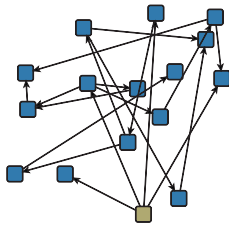
- Data Structures
- Network Analysis
- Layout Algorithms
- Circular
- Organic**
- Hierarchical
- Orthogonal
- Tree
- Viewer & Editor

SOFTWARE COMPONENTS  
FOR THE VISUALIZATION OF  
NETWORKS AND DIAGRAMS

# PLENTY OF FUN

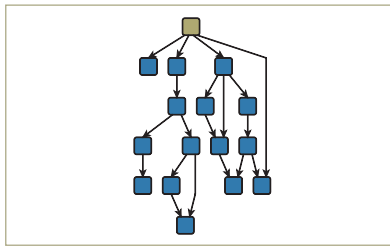
<data key="auto\_visualization"/> yFILES - FIRST-CLASS VISUALIZATION FOR DIAGRAMS AND NETWORKS

ORIGINAL

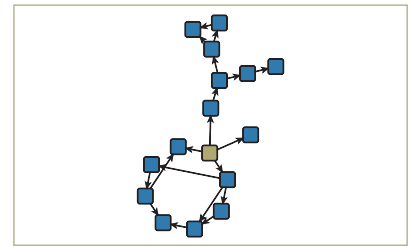


Various diagramming styles applied to the same set of data yFILES offers a multiplicity of suitable diagramming styles for every kind of relational data, each capable of emphasizing different aspects.

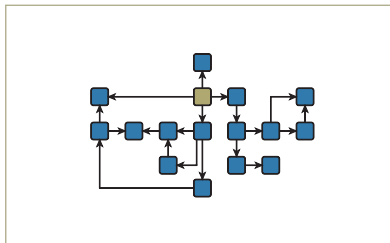
HIERARCHICAL



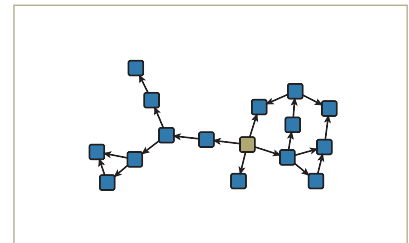
CIRCULAR



ORTHOGONAL



ORGANIC



# CTIONALITY

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The clear presentation of complex interrelations is one of the most challenging tasks for user-friendly software. Whether you want to model your business processes or visualize the content of your databases, critical data demands for reliable and professional solutions. With state-of-the-art software solutions, networks and diagrams from all application areas can be arranged automatically, visualized faster, and edited more efficiently.

## ALL INCLUSIVE: YFILES BY YWORKS

yWorks specializes in professional software solutions for the visualization of diagrams and networks. The flagship product yFILES is an extensive Java™ class library that includes algorithms for the analysis of networks and the automatic layout of diagrams, as well as GUI components for visualizing and editing. These form essential building blocks for use in Java servlets, applets, and applications.

yFILES is the solution for everyone seeking professional diagramming components as a part of their own application.

**yFILES**  
Ideally suited for application areas like UML diagramming, software engineering, workflow, business process modeling, biotechnology, and data mining. Available for Sun Java and the Microsoft® .NET environment.

<data key="yFILES.classlibrary"/>

# PLENTY OF STY

<data key="styles"/> yFILES OFFERS A GREAT VARIETY OF DIAGRAMMING STYLES

## CIRCULAR

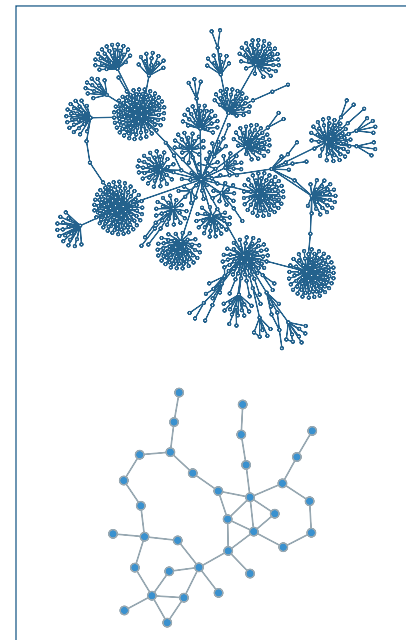
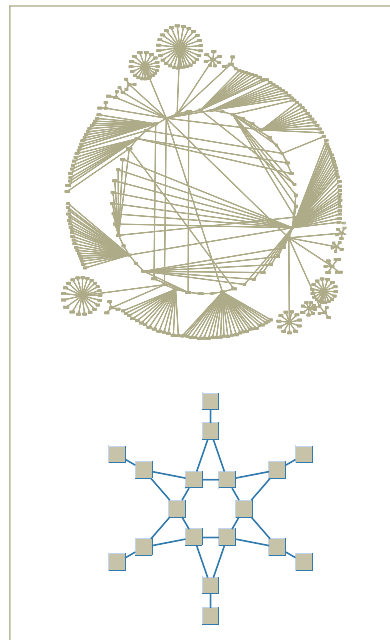
- // Emphasizes ring and star topologies in networks
- // Groups objects according to the network's structure
- // Arranges objects on circles and radial tree structures
- // **Ideally suited for**
  - ../ Network Management
  - ../ Web Visualization
  - ../ Social Networks

## ORGANIC

- // Emphasizes data-inherent groupings and symmetries
- // Provides insight into the interconnectedness of large and complex structures
- // Clearly arranges grouped diagrams
- // **Ideally suited for**
  - ../ Semantic Networks
  - ../ Biochemical Reaction Networks
  - ../ Computer Network Structures

### The proper diagram for each application

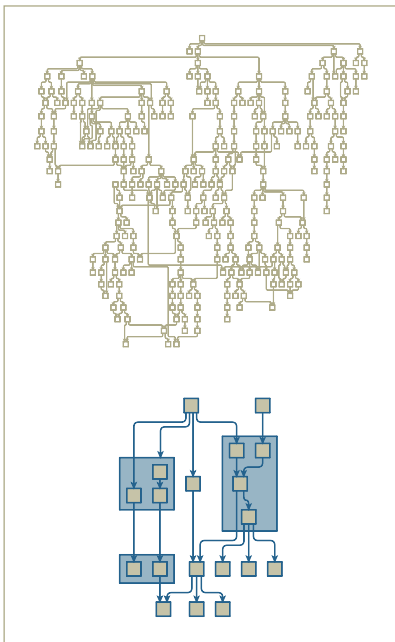
That's the strength of yFILES. Simply create clear diagrams from your relational data. Automatically and with ease. yFILES offers you plenty of styles and variations adhering to visualization standards from areas such as telecommunications, software engineering, and biotechnology. The extensive API enables you to customize all layout styles in great detail, thus giving you the power to realize your individual visualization style easily.



# LE

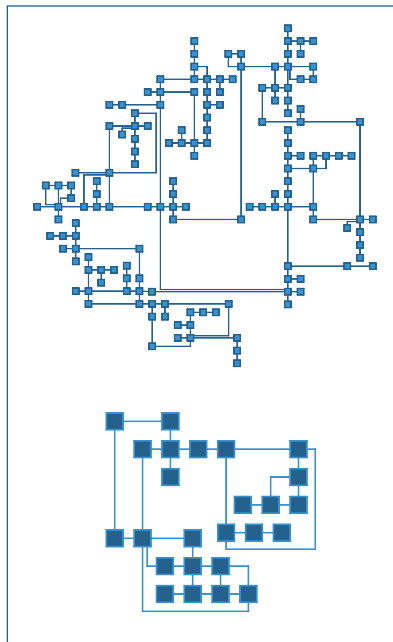
## HIERARCHICAL

- // Emphasizes the direction of the main flow in diagrams and networks
- // Identifies hierarchy levels and dependencies
- // Supports orthogonal drawings
- // Clearly arranges grouped diagrams
- // **Ideally suited for**
  - ../ Biochemical Pathways
  - ../ Dependency Analysis
  - ../ Workflow Diagrams
  - ../ Business Process Modeling
  - ../ UML Diagrams



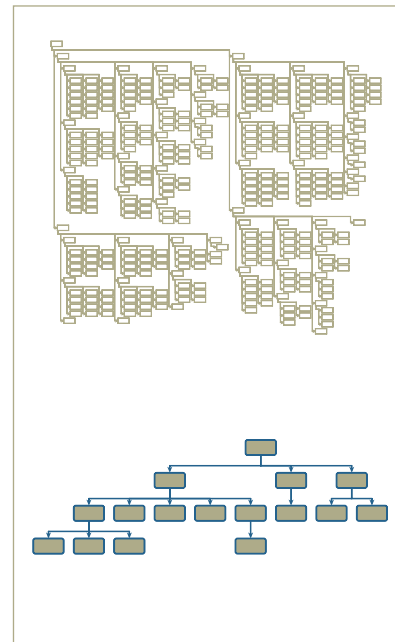
## ORTHOGONAL

- // Produces clear diagrams with orthogonal connections only
- // Connections are routed with minimal number of crossings and bends
- // Clearly arranges grouped diagrams
- // Supports exclusive routing of connections
- // **Ideally suited for**
  - ../ Database Modeling
  - ../ Software Engineering
  - ../ UML Diagrams



## TREE

- // Arranges tree-like structures optimally
- // Offers directed as well as radial styles
- // Supports compact arrangements
- // **Ideally suited for**
  - ../ Genealogies
  - ../ Directories
  - ../ Mind-Mapping
  - ../ Organization Charts



# PLENTY OF INTE

<data key="customization"/>

## VIEWER AND EDITOR - yFILES PROVIDES THE PERFECT FRAMEWORK

The yFILES viewer and editor component is versatile, easy to use, and offers unequalled performance. The component serves as a display and editor for diagrams and enables high-quality printing and image export. Following the Model-View-Controller design pattern, it is a GUI component for Java's Swing framework that can be customized in its look and feel easily.

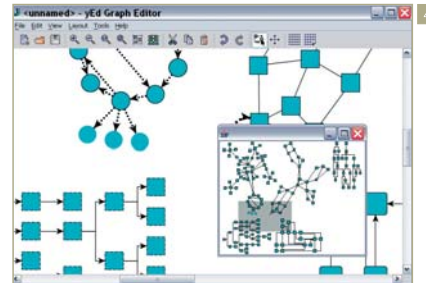
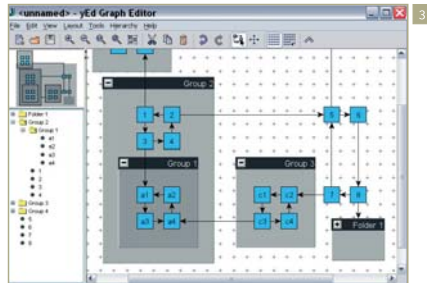
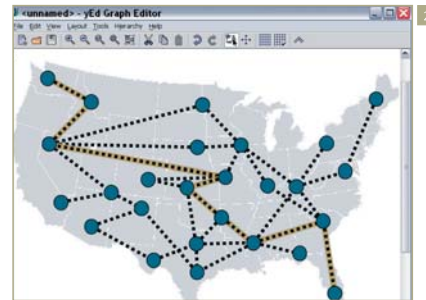
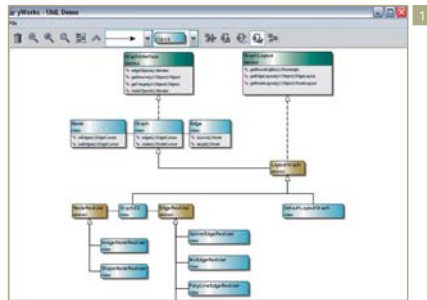
### yFILES components for viewing and editing

1 The graphical representation of objects and connections can be customized entirely.

2 Individual graphics can be rendered in the background.

3 Grouped diagrams with arbitrary nesting of objects allow for clear presentation of even the most complex structures.

4 The overview shows the entire diagram and allows for easy navigation.



# REACTION

## // FUNCTIONALITY

### EASY-TO-INTEGRATE STANDARD BUILDING BLOCKS

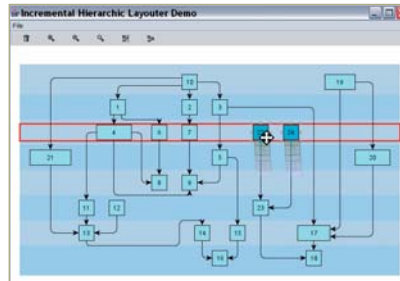
- // Zooming, scrolling, navigation
- // Clipboard functionality
- // Undoability
- 30 - // Multiple views of the same diagram
- // Bird-Eye view
- // Intuitive editing of diagrams
- // Predefined graphical presentations for objects and connections
- 35 - // Printing, print preview, and poster printing
- // Visualization and manipulation of nested diagrams

## // FILE FORMATS

### SUPPORT FOR A MULTITUDE OF INPUT AND OUTPUT FILE FORMATS

- // SVG
- // WMF
- // GIF
- 45 - // JPG
- // GraphML
- // XML

**yFILES interactive**  
Diagrams can be modified interactively with simple mouse gestures. The layout is updated immediately.



<data key="yFILES.views"/>

# PLENTY OF

## <data key="yWorks.References"/> REFERENCE CUSTOMERS

### BIOTECHNOLOGY:

Aventis Pharmaceuticals Inc.  
Berlex Inc.  
Lion Bioscience  
Procter & Gamble Company

### TELECOMMUNICATIONS:

Comptel Corp., Finland  
T-Systems Nova GmbH  
TeliaSonera, Finland  
Tertio Telecoms

### INFORMATION TECHNOLOGY:

Hewlett-Packard Corp.  
IBM Corp.  
Siemens, Australia  
Symantec Corp.

### BUSINESS PROCESSING:

IDS Scheer

### SOFTWARE ENGINEERING:

No Magic Inc.  
Visual Paradigm

### AUTOMOTIVE:

DaimlerChrysler  
Honda R&D Europe  
Saab, Sweden

Diagramming – better, faster, more efficient? Please call us or send us an email. We are looking forward to answering your questions.

<data key="yWorks.Address"/>



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