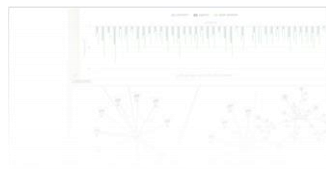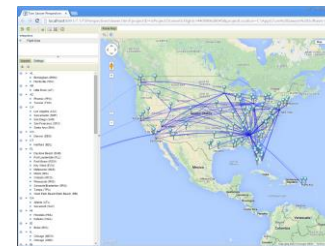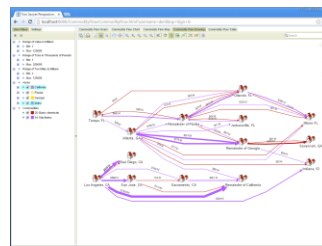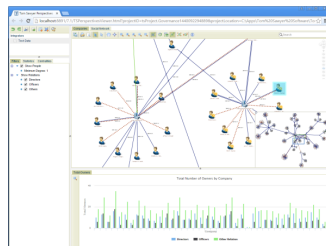# Tom Sawyer Software
Dismantling Criminal Networks with Graph and Spatial Visualization and Analysis

Kevin Madden
Senior Technical Design Director
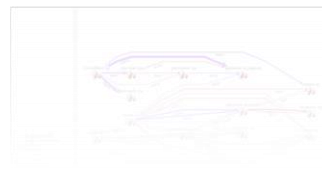
Agenda

- Introduction

- Products and Technology

  - Tom Sawyer Perspectives

- Demonstration

- Questions and Answers

Tom Sawyer Software

- Company

  - Leading provider of software for building graph visualization and analysis applications

  - Full-service data visualization vendor

  - American company from Berkeley, California

    - Offices in Australia, France, Latvia, Mexico, and Turkey

    - Since 1992

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The Problem

The Solution

Data Sources → Data Models → Data Views
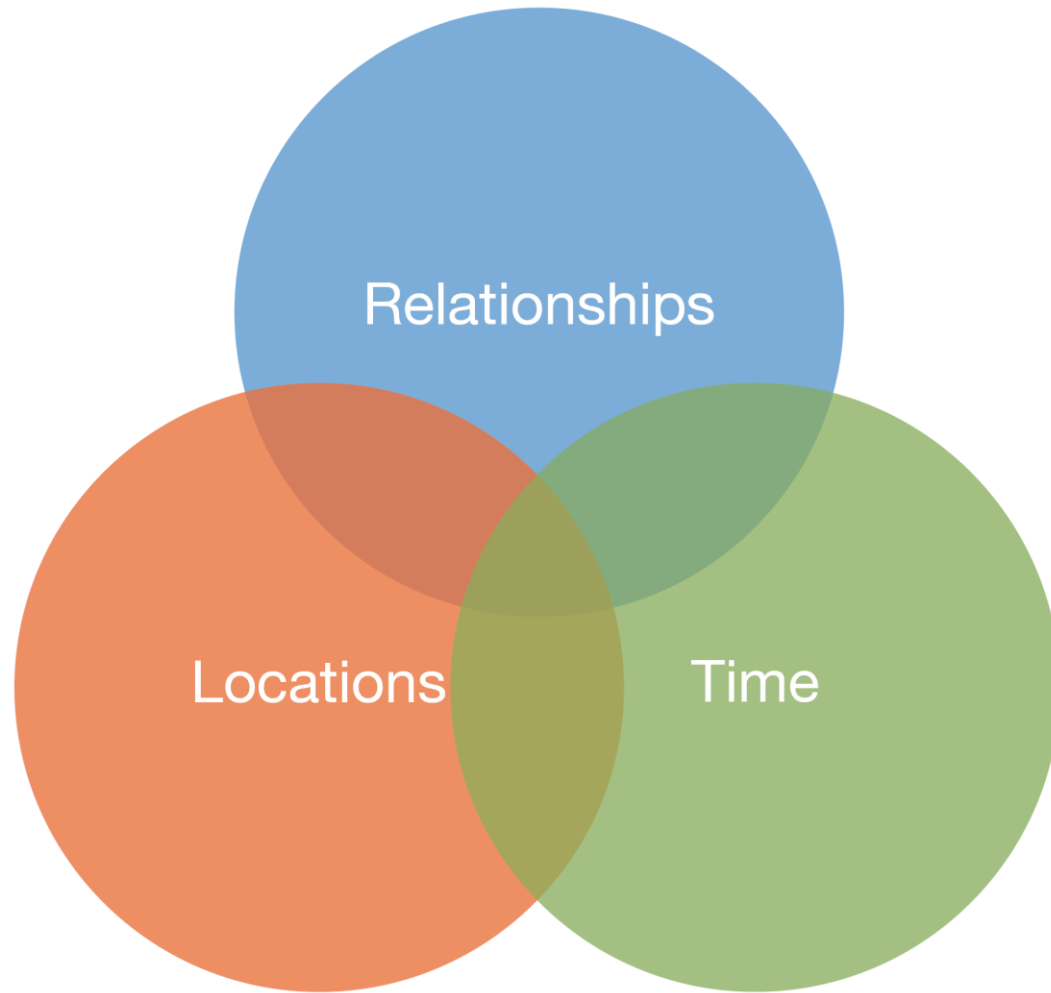
Schema

Entities

Person

Department

Relationships

Person	Person
Person	Department

Attributes

Person
Name
Date of Birth
Manager

Department
Name
Location

Person ⟷ Department

Member of
Collaborates with
Manages

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Data Models

Table Model

People Memberships Departments

People	
12	Tom

Memberships	
12	142
12	145
12	153

Departments	
142	Personnel
145	Sales
	Marketing

Graph Model

Sales

Tom — Member of — Sales

Tom — Collaborates with — Mary — Manages — Personnel

Tom — Member of — Marketing
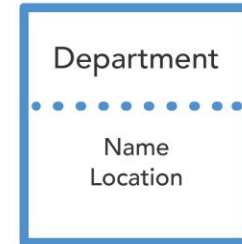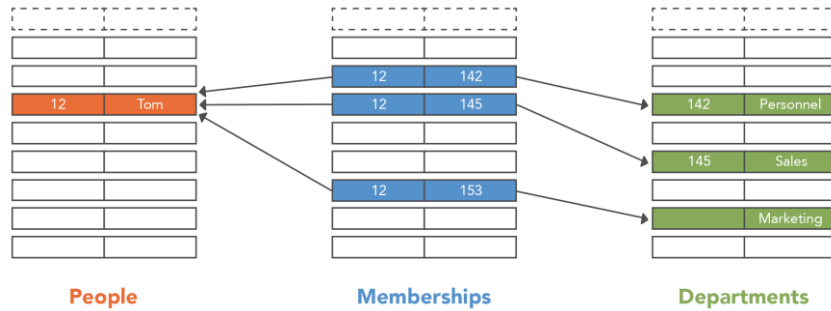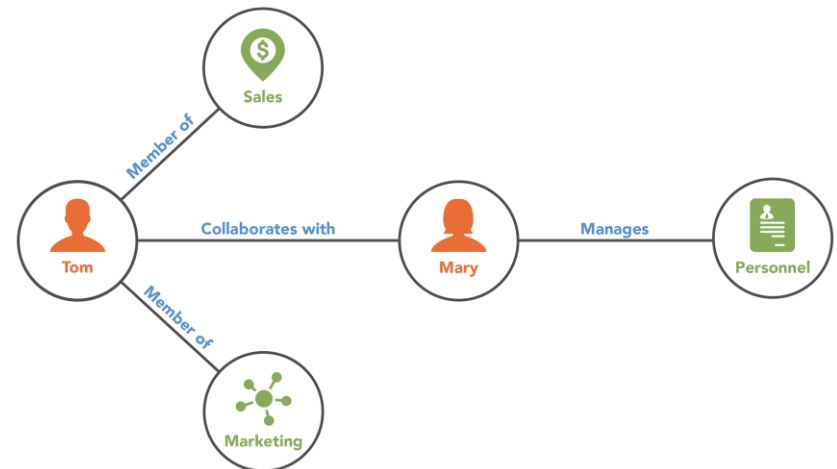
Data Sources

Product Integrators

Generic Integrators

Data Views
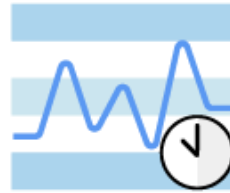
Drawings   Timelines   Charts
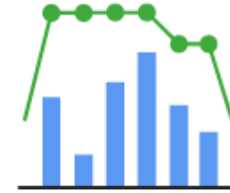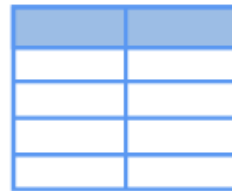
Maps   Tables   Trees   Inspectors

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Graph Layout
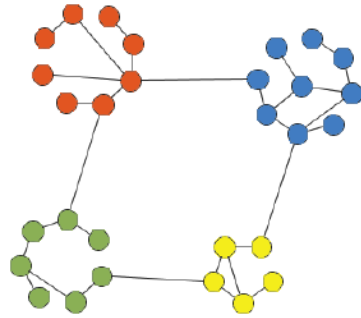
Circular
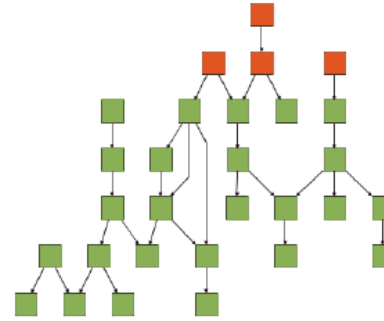
Hierarchical
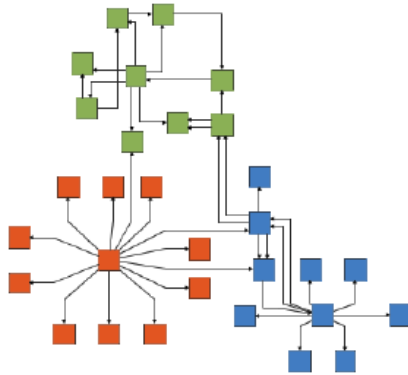
Orthogonal
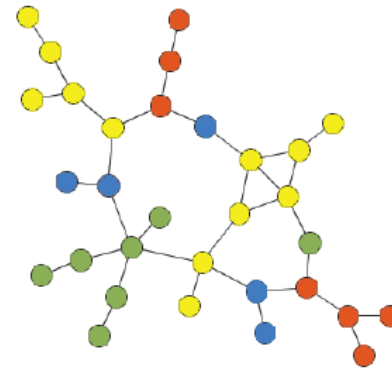
Symmetric

Graph Analysis
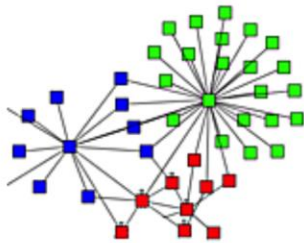
Groups
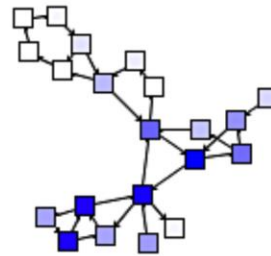
Social Networks
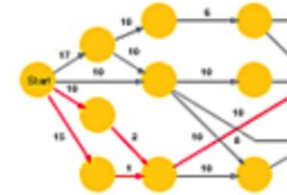
Paths
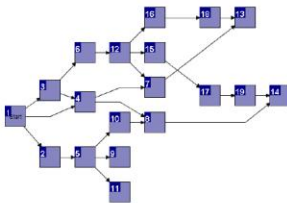
Traversals
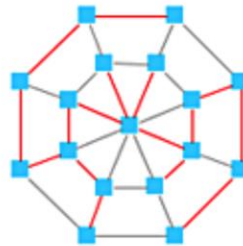
Reachability
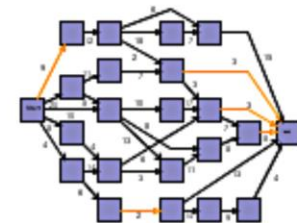
Flows

Search   Filters   Rules

Expressions   Synchronization

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Graphical Designer
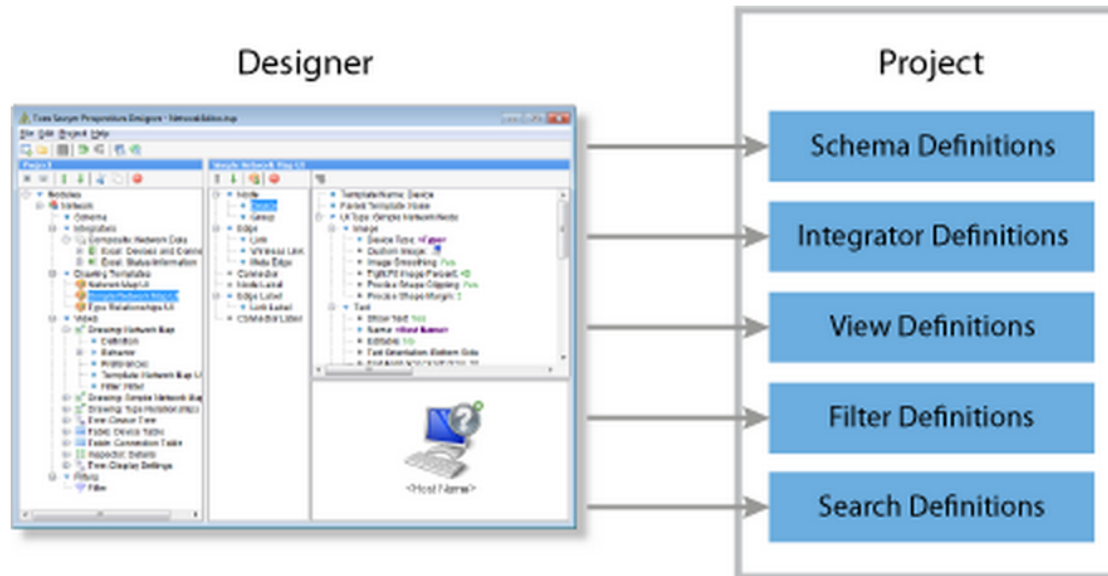
Use the Designer to create project definitions.

Application Development

Design Preview Deploy

Product Technology

	Java Edition	.NET Edition
Web	HTML5 — Image Map	HTML5 — Image Map
Desktop	Java	Direct 2D

Solutions

Processes, Flows, and Dependencies
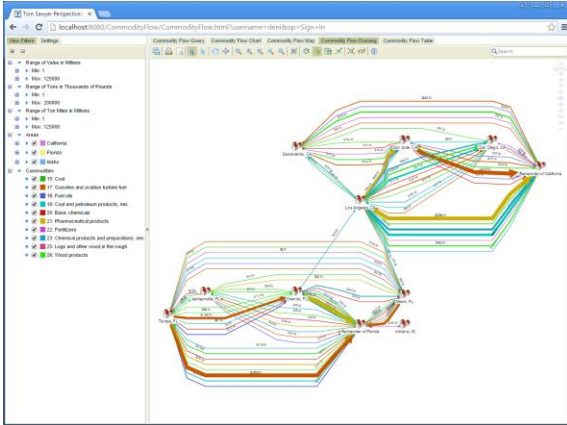
Schematics and Maps
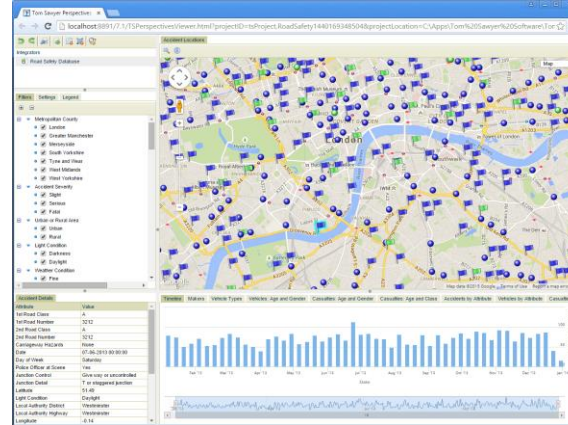
Link Analysis

Network Topology

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Customers

Demonstration

Demonstration

Demonstration

Demonstration

Demonstration

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