

SOCRATES

DECISION MAKING



**Bring Clarity and Structure to
Complex Decisions**

A Tool-Based Approach to Decision-Making



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Navigating Complexity

High-stakes decisions drive success, yet many organizations struggle with unclear, fragmented processes that lead to wasted time and blurred accountability. Urgent deadlines, incomplete data, and conflicting perspectives often derail effective decision-making.

Structured Decision Modeling

- Offers a rigorous framework for complex decisions.
- Captures claims, assumptions, evidence, and doubts in a visual model.
- Adapts proven techniques to business, financial, and operational contexts.
- Scalable models clarify highly complex decisions.



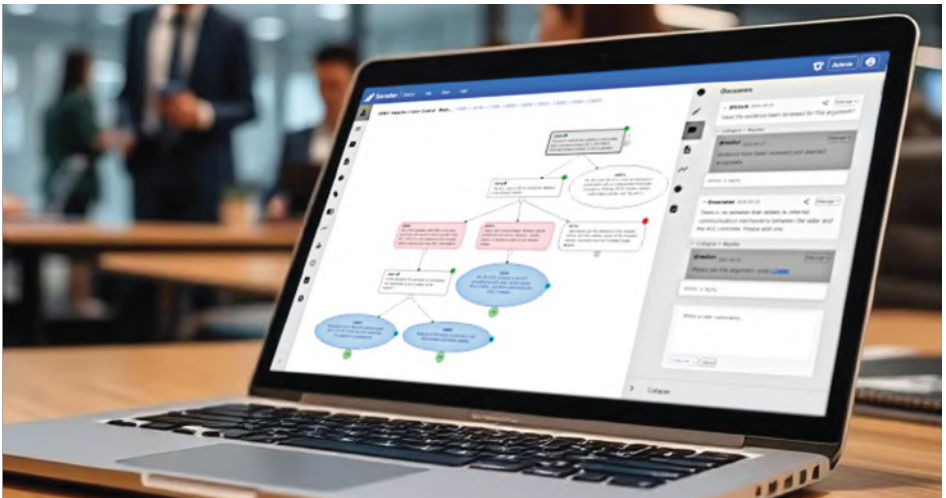
Socrates at a Glance

Socrates Decision Making is a robust enterprise solution for professionals who make high-stakes decisions. It unites stakeholders in a collaborative space, building decisions on traceable evidence and live insights. Featuring AI-enabled defeater generation to reduce bias, and evidence management for audit ready transparency, Socrates empowers teams to save time and reach consensus confidently.

The Socrates Advantage

- Advanced decision-making platform
- Tool training
- Integration support
- Ready-made decision models
- User manuals with instructional videos
- Deployment behind your own company's firewall

Trusted by industry leaders and deployable behind your own firewall for full data security, Socrates delivers the structure and accountability vital for complex decisions in today's fast-paced business environment.



- **Accelerate Decisions:** Make faster, confident choices that save time.
- **Mitigate Risks:** Reduce costly mistakes with data-driven processes.
- **Boost ROI:** Improve decision quality for tangible cost savings and growth.
- **Enhance Accountability:** Ensure traceable and strategy-aligned decisions.
- **Gain a Competitive Edge:** Empower teams with clear unified decision-making.

Key Features



Structured Decisions: Build decisions using GSN, EA, FAN, or CAE notations.



Collaboration Without Borders: Work on live decisions with teams worldwide.



Confidence Assessment: Evaluate decision confidence with analytical methods.



Comments & Issues: Annotate, review, and track discussions to foster transparent team accountability.



Versioning: Snapshot decision models and track changes, ensuring traceable accountability.



Decision Filtering: Sort model by sections or elements.



Glossary: Maintain consistent terminology with a dynamic glossary.



Metrics: View a high-level overview on the Metrics Dashboard.



Evidence Management: Link and manage artifacts to support decisions.



Performance Indicators: Monitor KPIs within the decision context.



Decision Models : Access ready-to-use templates to jumpstart your process.



AI-Enabled: Generate defeaters to reduce bias and strengthen decisions.



Labelling: Use customizable labels to assign ownership.



Intelligent Reports: Generate detailed or summarized reports in Word, Excel, or JSON for various stakeholders.



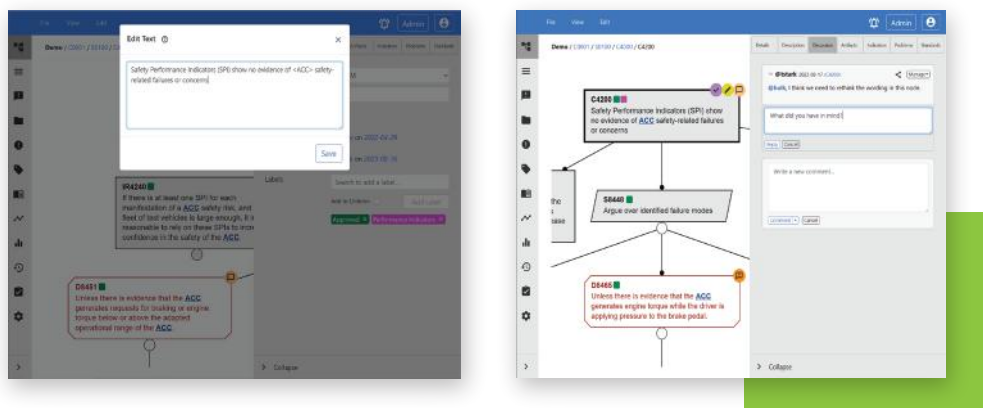
Nested Decisions: Connect and integrate independent decision models.



Regulatory Compliance: Assess decision processes against industry standards.

Collaboration & Evidence Management

- Effective decision-making depends on diverse team input.
- Enable seamless collaboration for dispersed experts.
- Keep the entire team aligned through a dynamic live decision model.



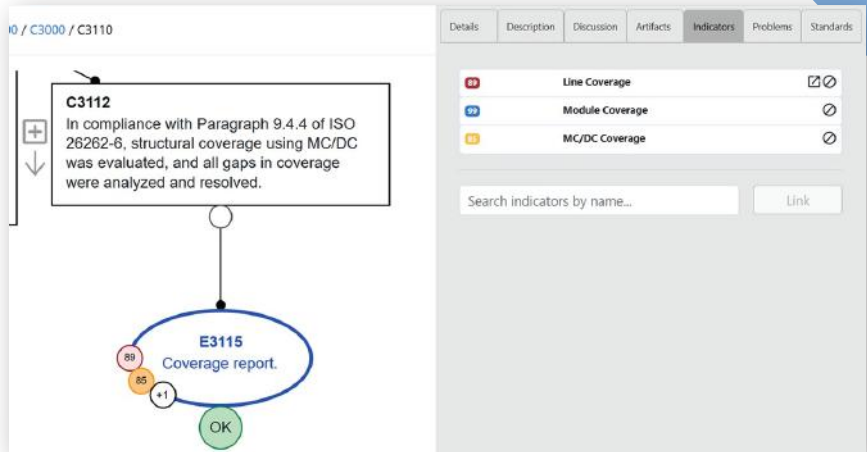
Link and Manage Evidence



- Create artifacts that encapsulate decision evidence.
- Establish bidirectional links between artifacts and decision nodes.
- Visualize evidence contextually within the decision model.

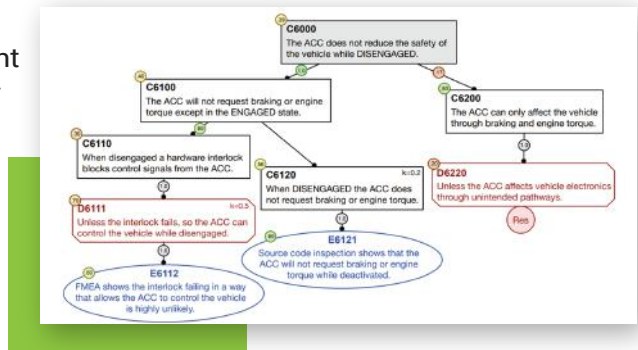
Track Performance Indicators

- Transform decision models into dynamic frameworks with real-time KPIs.
- Maintain a continuous feedback loop for context-driven outcome monitoring.
- Detect trends and deviations quickly, refining strategies on the fly.
- Keep decisions agile, accountable, and aligned with evolving objectives.

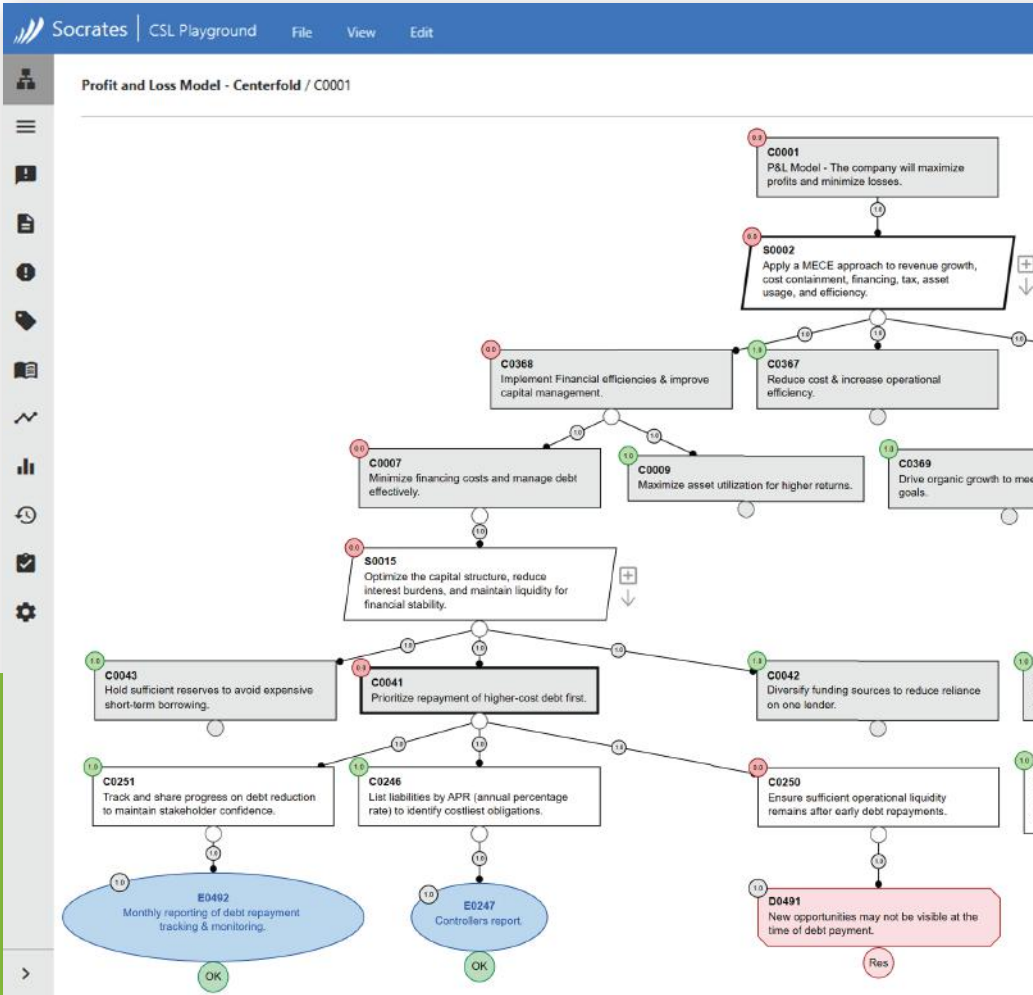


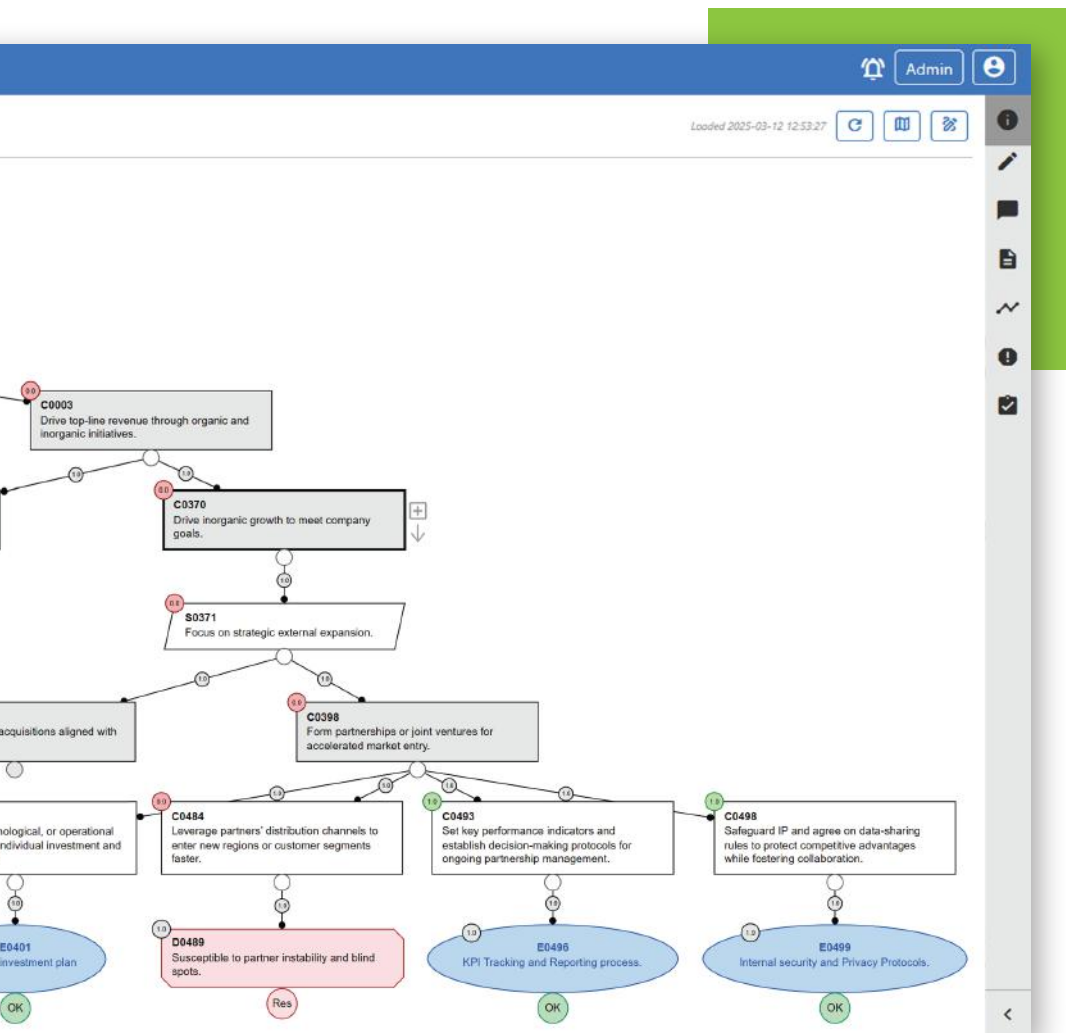
Confidence Assessment

- Apply advanced confidence methods (e.g., Bayesian Belief, Dempster Shafer) to your decision model.
- Generate an overall confidence score, highlighting areas needing more rigor.
- Visualize improvement opportunities directly within the model



Socrates is more than a drawing tool

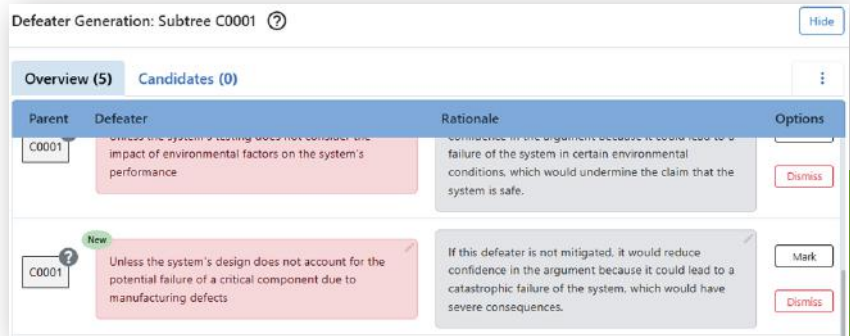




It captures the underlying **logic and strategy**

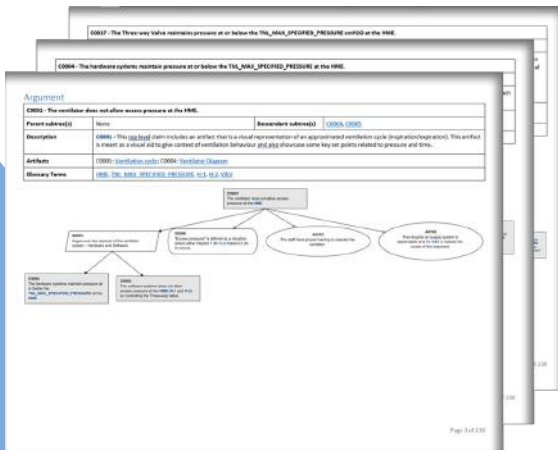
AI-Powered Analysis

- Generate AI-driven “defeaters” that challenge assumptions and assertions.
- Minimize biases and refine logic through iterative exploration.
- Arrive at defensible decisions that withstand scrutiny.



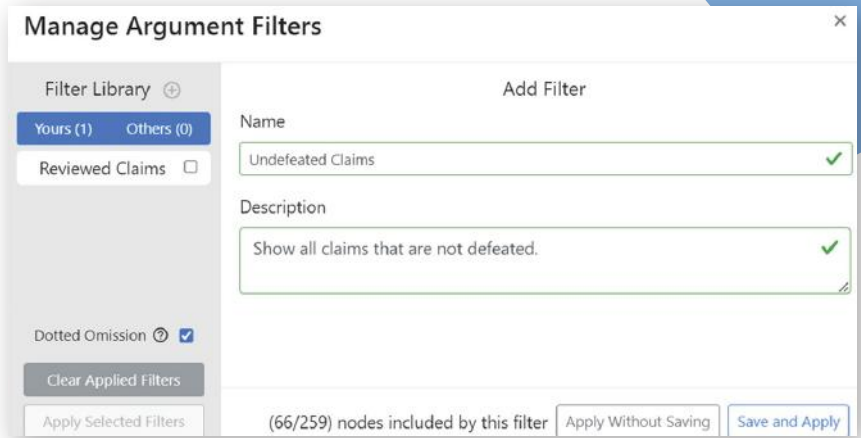
Intelligent Reports

- Produce customizable reports from any segment of the decision model.
- Export to Word, Excel, or JSON including visuals, evidence, and comments.
- Employ AI-driven summaries for executive overviews or in-depth detail.
- Deliver tailored, precise insights to every stakeholder.



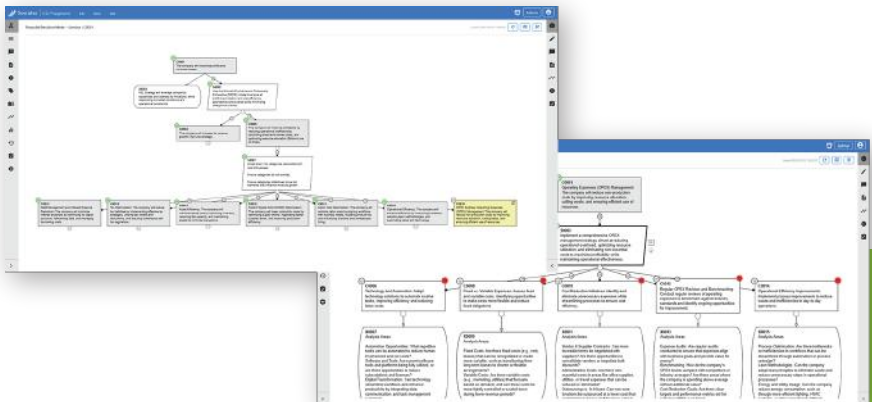
Decision Model **Filtering**

- Reveal only the relevant branches while keeping irrelevant details out of view.
- Spotlight critical points for targeted discussions with stakeholders.
- Maintain clarity in large decision models without losing sight of objectives.



Nested Decision Models

- Link separate decision models via Away Nodes for multi-layered decisions.
- Enable parallel development so each team can handle its own sub-model.
- Keep large-scale decisions organized and encourage seamless collaboration.



Team Discussion & Issue Tracking

- Invite full-team engagement from anywhere, in real time.
- Comment, reply, and flag critical issues for tracking and resolution.
- Notifications and mentions keep stakeholders aligned and informed.



Label, Assign, and Organize

- Mark actions, ownership, or status across different branches.
- Empower each team member with clear roles and next steps.
- Streamline tasks and reviews for efficient, transparent collaboration.



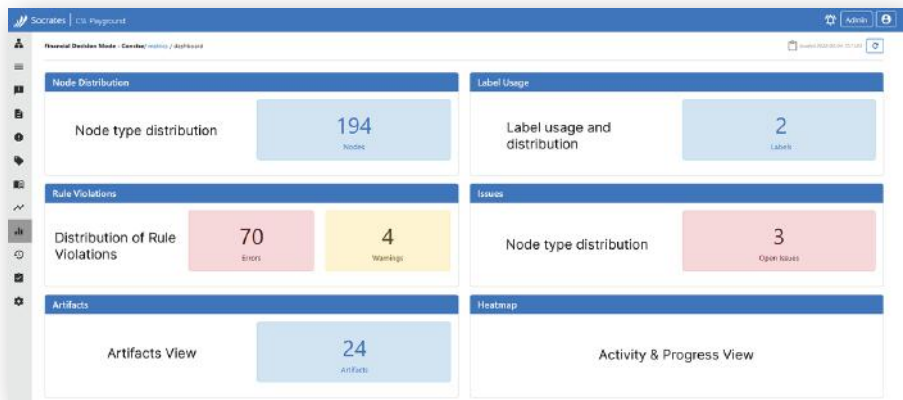
Decision Template Repository

- Tailor your own decision approach or choose from our curated library of proven decision models.
- Simplify model creation for faster, more user-friendly outcomes.
- Speed up decisions while boosting clarity and success.

Artifact Name	Description
Analytical Hierarchy Process Model (AHP)	• A structured technique for complex decision-making and multi-criteria analysis...
Back-casting Model	• A strategic planning method that starts with envisioning a desired future end-st...
Bounded Rationality Model	• Coined by Herbert Simon, this model acknowledges that decision-makers have ...
Cost-Benefit Analysis Model	• A systematic process for evaluating the financial (and sometimes non-financial)...
Delphi Method Model	• A structured communication and forecasting technique that gathers input from...
DMAIC (Lean Six Sigma) Model	• A data-driven, structured problem-solving method from Lean Six Sigma, stand...
Kaizen Model	• Kaizen is a Japanese term meaning "continuous improvement." • It's a philosop...

Metrics Dashboard

- Get a real-time snapshot of your decision model from one vantage point.
- View counts of elements, labels, open issues, and evidence usage.
- Pinpoint branch-by-branch activity to spot progress gaps.



Change Management

- Log changes made to the decision and track who made it.
- Tag key versions to capture important milestones.
- Roll back to a previous state to reverse unintended changes.

Argument History	Tagged Versions	Argument Timeline
All Changes - Test Argument		
2024-05-16		
Artifact Linked by @tstark	3:21 PM	Rollback
Link added between Preliminary Test Results and C0003		
Node Added by @tstark	3:21 PM	Rollback
C0003 Added To Parent S0002		
Artifact Added by @tstark	3:19 PM	Rollback
Preliminary Test Results Added		
Node S0002 - Text Updated by @tstark	3:18 PM	Rollback
Value changed from Your strategy here. to Argue over the four sub-claims.		
Node Added by @tstark	3:18 PM	Rollback
S0002 Added To Parent C0001		
Argument Created - 4 Changes		3:18 PM

Flexible Hosting

- Deploy Socrates in your preferred IT ecosystem.
- Host on your own infrastructure to retain full data control.
- Explore additional hosting options — contact us for details.





Our Story

Critical Systems Labs is a Canadian company based in Vancouver Canada. Our roots trace back more than **20 years** to the development of software used by air traffic controllers whose job is a steady stream of high-stakes decision-making. For much of our history, we have focused on making decisions about the safety of complex systems, products and services.

We combine our core values for high quality decisions – such as **logical structure and evidence-based claims** – with thoughtful use of Artificial Intelligence to improve the quality of decisions without compromising trust. CSL has learned how to help clients put clarity into their decisions, turning uncertainty into confidence.



Critical Systems Labs

www.criticalsystemslabs.com

A Better Way to Make **Critical Decisions**

9			7	5		4	6	
	1		9		4	5		
			8			1		2
8	6							
		2		4		6		
							4	5
1		7			2			
		9	4		8		3	
	4	3		7	9			6

Difficulty level : **Easy**

9	5				2	8		
		2		4	5			
	1	4	8					
		7	6	9	4		1	
	9		5	3	1	2		
					8	9	7	
			4	2		5		
		5	9				3	2

Difficulty level : **Medium**

					5	3		
3			6				5	
	5	4			8	9	1	
7		8	5				9	
			1		7			
	6				9	4		3
	3	7	9			8	6	
	9				6			1
		6	3					

Difficulty level : **Hard**

	5			3	4			
		7		6				4
		8	7	9				
2	8						4	3
1		4				7		6
7	9						8	5
				8	5	3		
5				2		6		
			9	1			5	

Difficulty level : **Very Hard**

