

Introduction



SocraticTOC

Socratic Questioning in TOC Thinking Processes

A mind map for Critical & TOC
Thinkers who want to improve their
Logic Trees.

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I have to admit, that without the Mindjet Mindmanager® Software for Windows, I would not have been able to create such a powerful interactive HTML5 mind map.

Why this mind map?

Socratic questioning is a form of disciplined questioning that can be used to pursue thought in many directions and for many purposes, including to explore complex ideas, to get to the truth of things, to open up issues and problems, to uncover assumptions, to analyze concepts, to distinguish what we know from what we do not know, to follow out logical consequences of thought or to control discussions. Socratic questioning is based on the foundation that thinking has structured logic, and allows underlying thoughts to be questioned.

Based on my daily work with the TOC Thinking Processes to get a better understanding of the world and systems around me, to solve problems, to evaporate conflicts/contradictions, and to make realistic plans, I have found it very useful to combine the thinking processes with Socratic questioning to improve my qualitative logic trees.

The mind map is not intended to replace existing processes or methodologies. It can not be used alone without a deep understanding of the TOC Thinking Processes, and it can not replace a deep study of the processes either from books or from courses. It should be taken as an add-on that can help to improve the quality of logic trees, by the support of the logical proof via the CLR – Categories of Legitimate Reservations. This is exactly the area where Socratic questioning can help to discover and uncover assumptions in a Socratic dialog. The TOC Thinking Processes themselves and their applications are not discussed on the map. The focus is solely on the CLR.

That is all? Not more?

The TOC Thinking Processes are still the best basket of tools for me to describe verbally a situation including logic and path dependency. In parallel, I am interested in causal inference in statistics and artificial intelligence (AI). Both fields of research are making tremendous improvement steps during the last years, but today we are still far away from an AI that can support us in decision-making based on logic. The same logic we apply in the TOC Thinking Processes with Socratic questioning. Let us see, whether a combination of these three approaches will help humankind one day.

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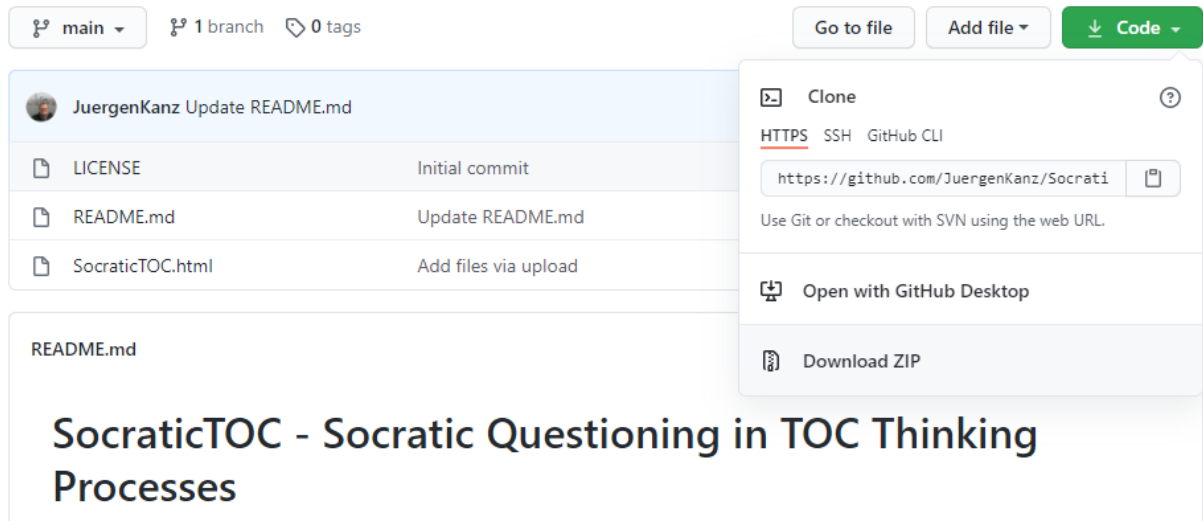
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File download from Github

The URL for SocraticTOC is: <https://github.com/JuergenKanz/SocraticTOC>

On this page push the green “Code” button and click on “Download Zip”:



A Zip-compressed “SocraticTOC-main.zip” file will be automatically downloaded to your standard download folder.

Unzip the file with an appropriate software tool.

Save the content (4 files) in your preferred folder on your computer system.

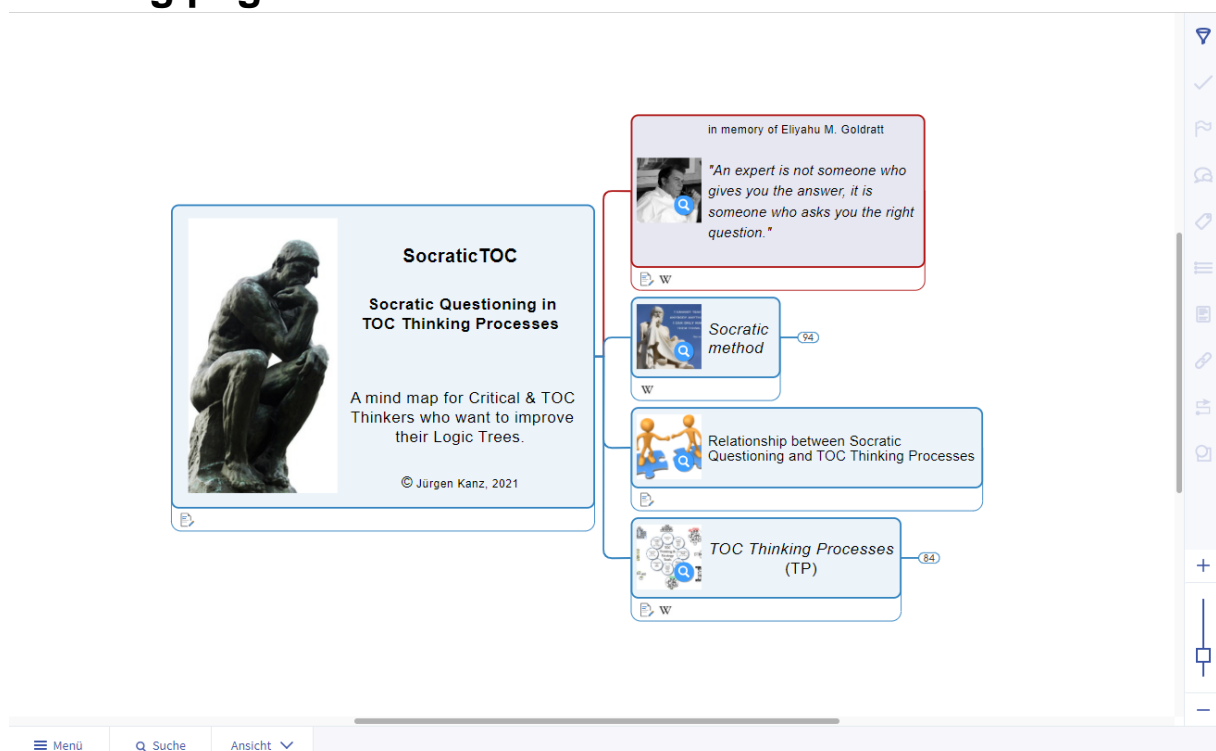
Open the mind map

Double-click on the “SocraticTOC.html” file.

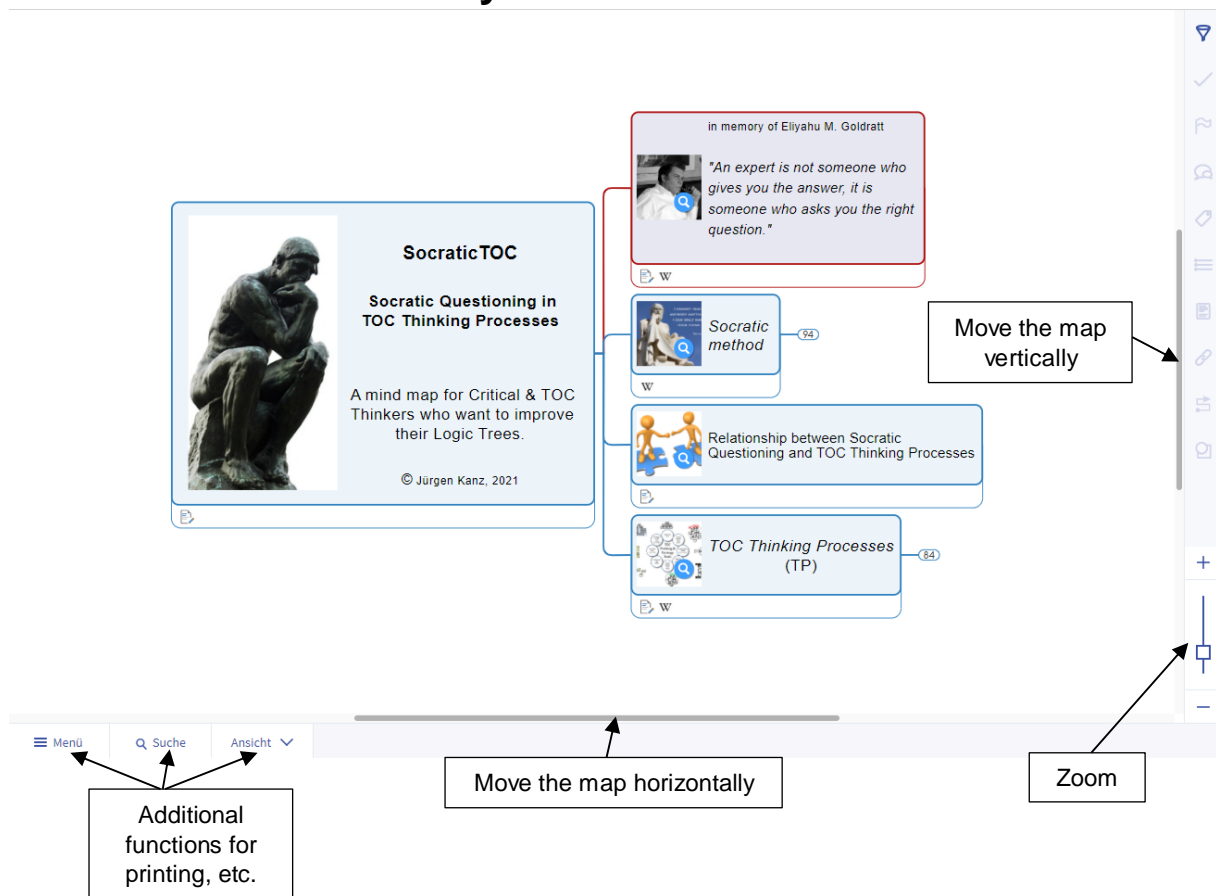
This action will start your web browser and the HTML file will be opened.

What you get is the landing page of an interactive HTML5 file.

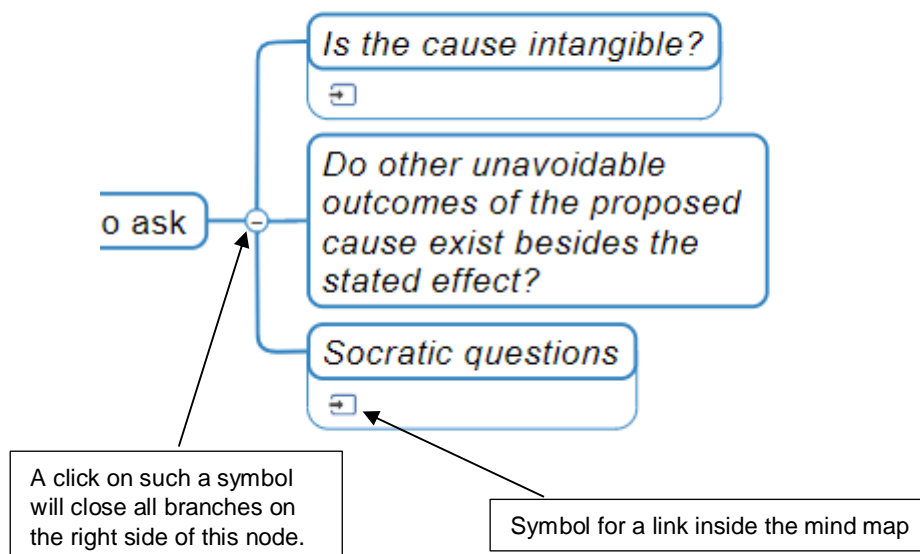
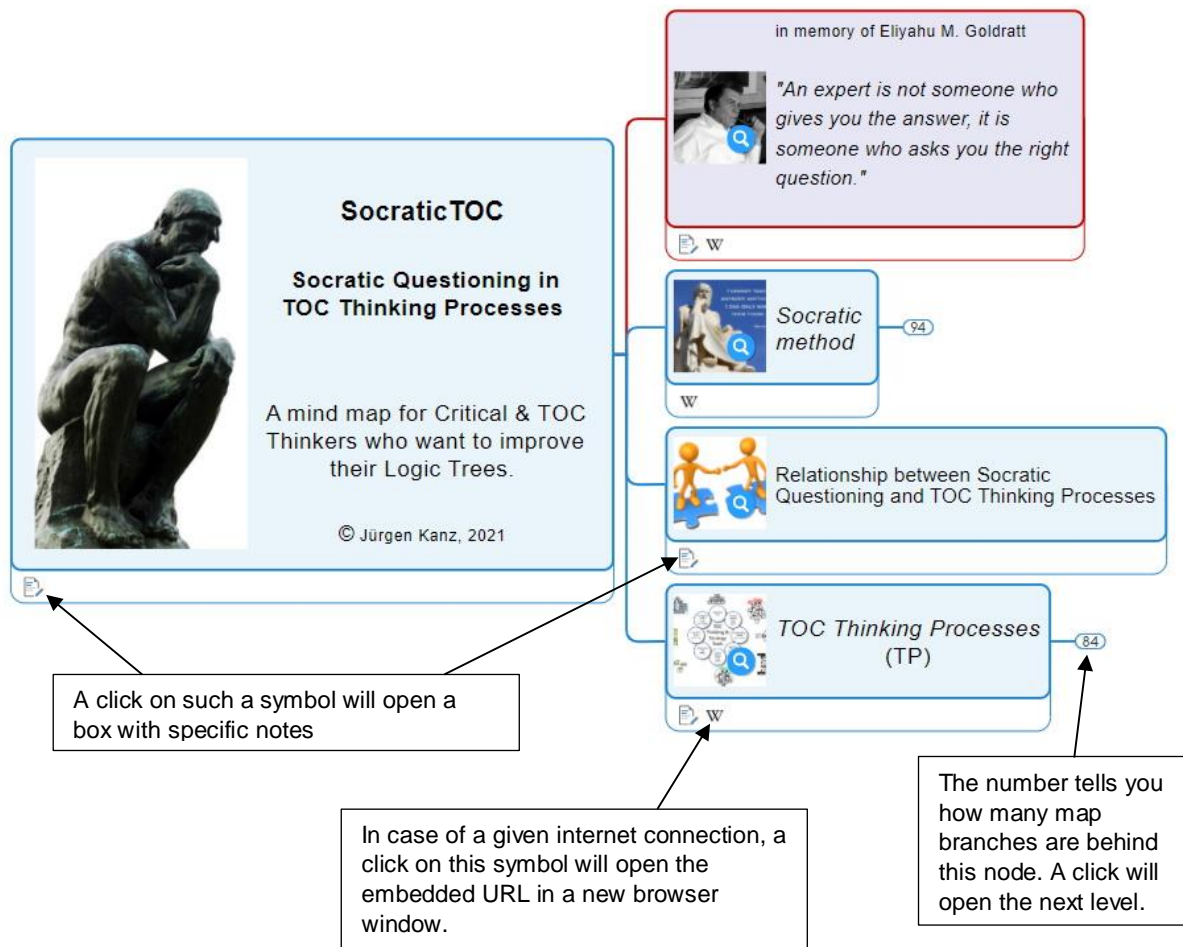
Landing page



Framework functionality



Mind map functionality



Resources

Web:

TOC for Education, <http://www.tocforeducation.com/>

TOCICO Theory of Constraints International Certification Organization, <http://www.tocico.org/>

The Foundation of Critical Thinking, <http://www.criticalthinking.org/>

Books:

Richard Paul and Linda Elder, "The Thinker's Guide to Socratic Questioning", 2016, ISBN-13: 978-0944583319

Lisa J. Scheinkopf, "Thinking for a Change: Putting the TOC Thinking Processes to Use", 1999, ISBN-13: 978-1574441017

William H. Dettmer, "The Logical Thinking Process: A Systems Approach to Complex Problem Solving", 2007, ISBN-13: 978-0873897235

Umesh P. Nagarkatte and Nancy Oley, "Theory of Constraints: Creative Problem Solving", 2017, ISBN-13: 978-1138056053

Software:

Mindjet Mindmanager 21, <http://www.mindmanager.com>