The Rapid Recursive®Toolbox (patent-pending), allows licensed end users to apply advanced techniques from economics and dynamic programming to solve decision problems.

Key Product Features

- The ability to compose and solve decision problems involving real options, interactions between decisions and market conditions, and asymmetric risks.
- Two widely used algorithms for solving discrete time sequential decision problems: value function iteration and policy iteration.
- The power to model decision problems in microeconomics, macroeconomics, finance, agricultural economics, natural resources, logistics, medical, and other fields.
- The native capability to analyze hundreds, or even thousands, of possible scenarios.
- Compose Tool: an interactive graphical user interface (GUI) that allows users to compose and solve a sequential decision problem without needing to program code.
- Extensive error checking tools that provide highly customized error messages for input errors.
- Templates that publish a report summarizing a sequential decision problem—including its description, key inputs and solution—in .pdf (Adobe Acrobat), HTML (web page), XML, .doc (Microsoft Word), and .ppt (Microsoft PowerPoint) formats with a single click.
- Tools that report results in customized tables and graphs.
- A set of included Solution Templates demonstrating how the Rapid Recursive® Toolbox can be used to compose and solve valuation and decision support problems, each of which is provided in open-code format that you can use, adapt, revise and share with other licensed users in a manner consistent with the license agreement.
- Straight forward ability to import from and export to a variety of formats (including .xls, .csv, XML, CDF and HDF).
- Ability to use various MATLAB® data structures to share data with other MATLAB® users and to import or export this data to users of other statistical, financial, scientific and technical software in a number of different formats.
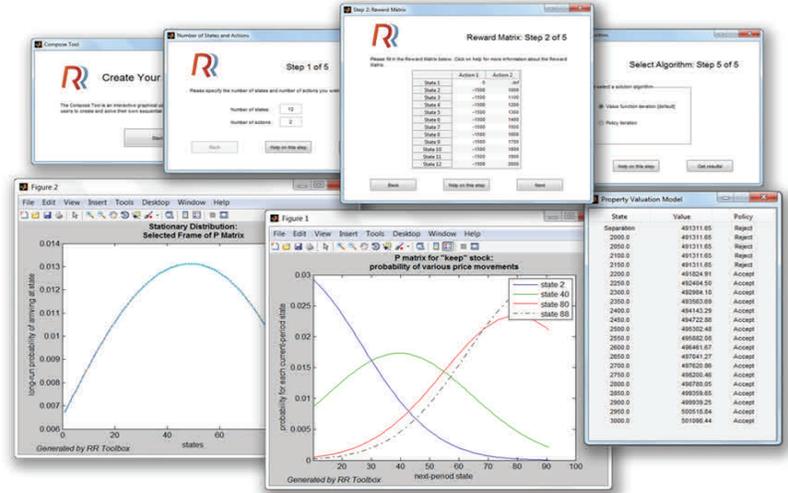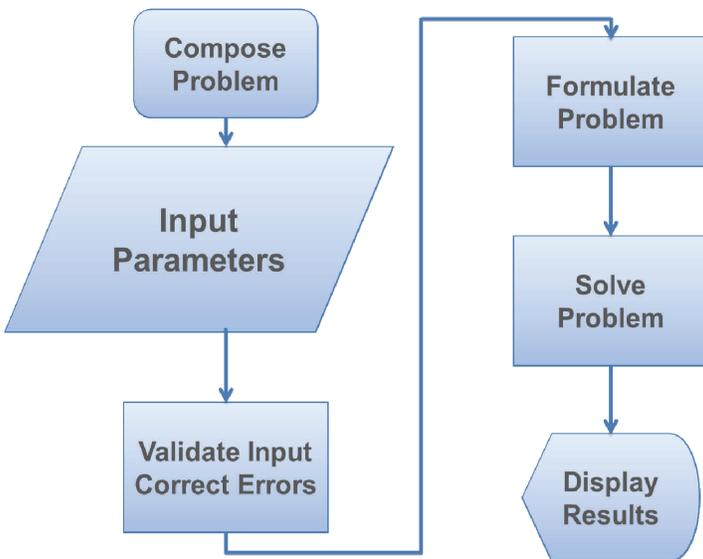
How it Works

Rapid Recursive® Toolbox runs on a standard PC (windows) or Mac with a licensed version of MATLAB installed. The core algorithms and source code for the Rapid Recursive® Toolbox are written within MATLAB® (.m code) and then encrypted within MATLAB® (.p code) to protect our intellectual property. The Rapid Recursive® Toolbox also includes open-source (.m code) primarily in the form of Solution Templates, that we allow licensed users to customize as needed to fit their business needs. The license agreement provides explicit allowances for licensed users to modify the open-source portions, and explicitly prohibits the decryption, reverse-engineering, or redistribution of the encrypted portion.

RAPID RECURSIVE TECHNIAL SPECIFICATIONS

Software Requirements:

MATLAB® (32 or 64 bit) version:
- MATLAB 8 .0 (R2012b)
- MATLAB 7.14 (R2012a)

Operating Platform:
- Windows 7 (64 –bit)
- Windows XP service pack 3
- MacOS 10.8 (Mountain Lion)

Minimum Hardware:
- 100 MB of disk space
- 1024 MB RAM (2048 recommended)
- Intel or AMD x86 processor supporting SSE2 instruction set

It is expected that the majority of the features of the Rapid Recursive® Toolbox may work on other operating systems and other versions of MATLAB® but only the ones listed above have been tested.

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