

Marvin Beans Examples

The examples having bolded links below contain additional description of the example.

1. MarvinSketch
 - a. [MarvinSketch Simple Bean](#):
Creates a MarvinSketch bean and shows getting and setting molecules.
 - b. [MarvinSketch Images](#):
Creates an image from the contents of the MarvinSketch canvas.
 - c. [Structure Display Parameters](#):
Example of R-group visibility parameters.
 - d. [Structure Templates](#):
Customizing structure templates used in MarvinSketch.
 - e. [Text Box](#):
Creating a text box containing formatted text.
2. MarvinView
 - a. [MarvinView Simple Bean](#):
Creates a single-cell MarvinView bean component.
 - b. [MarvinView In JTable](#):
Loads multiple molecules from a file and displays them in a JTable using MarvinView as the renderer of Molecule cells.
 - c. [MarvinView Table View](#):
Displays a molecule file in MarvinView using a scrollable molecule table. Molecules are loaded dynamically and cached automatically, hence arbitrary size files are supported.
 - d. Lower level ways for creating molecule tables.
In these examples, all molecules are loaded in advance, hence the table size is limited by the available memory.
 - i. [Table View with Parameters](#):
Loads multiple molecules from a file into memory, then displays them using MarvinView's scrollable multi-cell molecule matrix mode.
 - ii. [CustomMenuExample](#): Customize the menu of MarvinView.
 - iii. [MViewPopupExample](#): A viewer example with a customized popup menu.
 - iv. [MViewExampleWithCheckbox](#): Demonstrates the handling of action and item events.
 - v. [MViewSaveProperties](#): Demonstrates how to save Marvin properties.
3. Swing Components
 - [JFileChooser accessory component](#):
Marvin as a custom accessory component of a file chooser to provide preview to molecule files.
 - [DialogLauncher.java.txt](#):
Launches a sketcher or a viewer from a dialog window.
4. Events
 - [SketchEventTest.java.txt](#) Shows the fired events of the sketcher.
 - [ViewEventTest.java.txt](#) This viewer example logs the fired events of the viewer.
 - [MolChangedEventExample.java.txt](#): Howto listen the modifying of the structure in the editor.
5. [SimpleConverter.java.txt](#): Converts the specified molecule file into the required file format.

6. JSP Image Generation: A JSP example to create an image from a molecule structure and display it in the browser.
7. Excelsheet Generation: A JSP example to create an Excel Sheet with Marvin generated structure images and structure data.
8. Calculator Plugins

- [Using Calculator Plugins via API](#): general overview that shows how calculator plugins can be used via API.

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Plugin API usage examples can be found in the API doc headers of the corresponding plugin classes.

- [ElementalAnalyserPlugin](#)
- [IUPACNamingPlugin](#)
- Protonation
 - [pKaPlugin](#)
 - [MajorMicrospeciesPlugin](#)
 - [IsoelectricPointPlugin](#)
- Partitioning
 - [logPPlugin](#)
 - [logDPlugin](#)
 - [HLBPlugin](#)
- Charge
 - [ChargePlugin](#)
 - [IonChargePlugin](#)
 - [PolarizabilityPlugin](#)
 - [OrbitalElectronegativityPlugin](#)
- Isomers
 - [TautomerizationPlugin](#)
 - [StereoisomerPlugin](#)
 - [StereoAnalysis](#)
- Conformation
 - [ConformerPlugin](#)
 - [MolecularDynamicsPlugin](#)
 - [AlignmentPlugin](#)
- Geometry
 - [TopologyAnalyserPlugin](#)
 - [GeometryPlugin](#)
 - [TPSAPlugin](#)
 - [MSAPlugin](#)
- Solubility Prediction
 - [SolubilityCalculator](#)
- NMR Prediction
 - [NMRCalculator](#)
- Other
 - [HuckelAnalysisPlugin](#)
 - [RefractivityPlugin](#)
 - [HBDAPPlugin](#)
 - [ResonancePlugin](#)
 - [StructuralFrameworksPlugin](#)
- [Concurrent plugin examples](#): examples which show concurrent usage of calculator plugins.

- Custom plugin implementation: custom calculator plugin implementation and test application.
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