The update history of VisualFEA can be viewed by the following procedure.
1) Run VisualFEA
2) Select "Update History" item from "Help" menu
3) Check the updated items from "Update History" dialog.
Use the horizontal or vertical scroll bar if necessary.

```
<table>
<thead>
<tr>
<th>No.</th>
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<th>Date(Y.M.D)</th>
<th>Update Contents</th>
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</thead>
<tbody>
<tr>
<td>124</td>
<td>5.14</td>
<td>2022. 6.28.</td>
<td>Cross clipping plane function</td>
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<tr>
<td>123</td>
<td>5.14</td>
<td>2022. 6. 2.</td>
<td>Improvement of functions creating fillets (line-line, line-circular arc, circular arc-circular arc)</td>
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<td>122</td>
<td>5.13</td>
<td>2022. 5.16.</td>
<td>Improvement of functions defining and assigning boundary conditions.</td>
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<td>120</td>
<td>5.13</td>
<td>2022. 1.9.</td>
<td>Modification of &quot;DXF importing&quot; function.</td>
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<td>115</td>
<td>5.12</td>
<td>2020. 2.10.</td>
<td>Excel output function.</td>
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<tr>
<td>114</td>
<td>5.12</td>
<td>2019. 1.28.</td>
<td>A new item, &quot;Surface Selection Aid&quot;, is added to facilitate selections of surface meshes for Auto Mesh (Volume).</td>
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<tr>
<td>113</td>
<td>5.12</td>
<td>2018. 5.1.</td>
<td>New function of cutting plane view. (Realtime rendering of cutting plane view of contour image)</td>
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<td>112</td>
<td>5.12</td>
<td>2017. 4.1.</td>
<td>OpenGL option is added for image rendering.</td>
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<td>111</td>
<td>5.11</td>
<td>2016. 10.7.</td>
<td>New type of spring element, &quot;Coupled Spring&quot;, is coupled with a compression or tension spring in perpendicular direction.</td>
</tr>
<tr>
<td>110</td>
<td>5.11</td>
<td>2016. 5.9.</td>
<td>Automatic extension of grid planes</td>
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<td>109</td>
<td>5.11</td>
<td>2016. 3.4.</td>
<td>Improvement of shape function display</td>
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<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015.5.8</td>
<td>5.11</td>
<td>Improvement of time requirement for large mesh generation: mapping, extrusion, sweeping types</td>
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<tr>
<td>2015.4.18</td>
<td>5.11</td>
<td>Addition of &quot;Continuous line&quot; rendering option for vector display</td>
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<tr>
<td>2015.4.1</td>
<td>5.11</td>
<td>Improvement of vector drawing option</td>
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<td>2015.3.29</td>
<td>5.11</td>
<td>Addition of &quot;Nodal mass (directional)&quot; to the dynamic motion type</td>
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<tr>
<td>2015.3.19</td>
<td>5.11</td>
<td>Info tip for stress image of frame section</td>
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<tr>
<td>2015.3.17</td>
<td>5.11</td>
<td>Application of body force (acceleration) to nodes assigned with nodal mass. (Dynamic analysis only)</td>
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<tr>
<td>2015.3.16</td>
<td>5.11</td>
<td>Modification of dynamic motion data</td>
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<tr>
<td>2014.11.15</td>
<td>5.11</td>
<td>New function of displaying frame diagrams on a separate frame diagram window</td>
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<tr>
<td>2014.10.25</td>
<td>5.11</td>
<td>Improvement of elasto-plastic analysis of frame members using internal plastic hinges between nodal points</td>
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<tr>
<td>2014.9.5</td>
<td>5.11</td>
<td>&quot;Anti-aliasing&quot; option for improved rendering of frame shading and contouring</td>
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<tr>
<td>2014.8.29</td>
<td>5.11</td>
<td>Representation of plastic hinges for frame models with elasto-plastic analysis</td>
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<tr>
<td>2014.8.22</td>
<td>5.11</td>
<td>Improvement of setting the diagram display options, and addition of the help items describing the options</td>
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<tr>
<td>2014.8.6</td>
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<td>Improvement of transparency shading</td>
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<tr>
<td>2014.7.24</td>
<td>5.10</td>
<td>Revision related to elasto-plastic analysis and geometric nonlinear analysis of frames</td>
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<tr>
<td>2014.7.10</td>
<td>5.10</td>
<td>Expansion of the image scaling range from (1/32 - 32) to (1/512 - 512)</td>
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<tr>
<td>2014.7.8</td>
<td>5.10</td>
<td>Zoom in/out using the mouse wheel</td>
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<tr>
<td>2014.6.18</td>
<td>5.10</td>
<td>Capability of importing DXF data with 3DFACE, 3DSOLID and polyface mesh</td>
</tr>
<tr>
<td>2014.5.22</td>
<td>5.10</td>
<td>Improvement of importing external data with compatibility to DXF 12/14</td>
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<tr>
<td>2014.4.14</td>
<td>5.10</td>
<td>Revision of mesh carving and mesh operation process based on Delaunay algorithm</td>
</tr>
<tr>
<td>2014.3.30</td>
<td>5.10</td>
<td>Addition of a new option for 3D auto tetrahedronization: Delaunay algorithm</td>
</tr>
<tr>
<td>2014.1.6</td>
<td>5.10</td>
<td>More rendering options in preference setting: normal vector interpolation, etc.</td>
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<tr>
<td>2013.7.21</td>
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<td>Shadow casting over contour images</td>
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<tr>
<td>2013.6.18</td>
<td>5.10</td>
<td>Solid carving by surface primitives. Previously, solid carving was possible only by surface meshes</td>
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<tr>
<td>2013.5.23</td>
<td>5.10</td>
<td>Preference setting for the number of internal iterations to reduce residuals, Preference -&gt; Solver</td>
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<tr>
<td>2013.5.17</td>
<td>5.10</td>
<td>Addition of new load type. Linearly distributed load on a part of a frame element</td>
</tr>
<tr>
<td>2013.5.9</td>
<td>5.10</td>
<td>Inclusion of uniform load type for moving loads</td>
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<tr>
<td>2013.4.20</td>
<td>5.10</td>
<td>Addition of new load type. Uniform distributed load on a part of a frame element</td>
</tr>
<tr>
<td>2013.2.8</td>
<td>5.10</td>
<td>Consistent scale for contouring of frame member forces and stresses</td>
</tr>
<tr>
<td>2012.12.20</td>
<td>5.09</td>
<td>Overall modification of the CBT functions (especially related to shape function)</td>
</tr>
<tr>
<td>2012.7.20</td>
<td>5.08</td>
<td>Addition of Hyperelastic model</td>
</tr>
</tbody>
</table>
Addition of Duncan-Chang nonlinear elastic model
Redering of the yield surface and Mohr's circle for points on a cutting plane
Tracing of bending moment and shear force diagrams for moving loads
Realtime update of the stress contours while rotating the stress square coupled with a Mohr's circle diagram.
New options of selecting surface meshes surrounding volume meshes. "Outer surface only", "Intra surface only"
New functions for object listview. Reservation of objects for future selection. Saving the list file with reserved object number.
New function of displaying the min. and max. values. "Postpro" -> "Nodal Value" -> "Mark Min. Max. Node" menu item
Modification of "Assign" menu items
Addition of "Show Graph" item for dynamic motions
Addition of "File" -> "Open Recent" menu item
A new option for mesh carving. Carving surface meshes by surface primitives
New function to rescale the model. "Edit" -> "Convert Coordinate" -> "Scale"
Help button to display the data file format for dynamic load and dynamic motion time series
Instant indication of the internal force or moment directions at the cursor point for the displayed frame diagrams
Mac OS X 10.7 (Lion) version
Mohr circle and yield surface functions for nonlinear load combination analysis
Addition of uncouple solution mode for two phase problems
Addition of a new output item: displacement incremental rate
Selection of the color for line vector drawing
Grid origin and min-max range setting by dialog input
Option of setting the sampling line by node selection for curve plotting
Simplified diagram option for 2-D and 3-D frame
Mesh deformation
Contour (factor of safety) adjustment for slope stability
Addition of interactive control to Mohr's circle functions
Control of the protection key through local area network or internet
Time or square root time scale option for multi-step plotting of transient seepage or consolidation analysis
Automatic saving and retrieving the Contour setting
Addition of "Rainbow soft", "Hard", "Strong" items to "Color" option in "Countour Display" dialog
5.04    2010.11.05.    Option of square time steps in "Solve" dialog for transient seepage or heat transfer analysis
5.04    2010.10.20.    Turning on or off the grid subdivision using "Grid Setting" dialog. Previously done by using F1 - F10 keys
5.04    2010. 9.15.    Addition of "Beam Interface" element
5.04    2010. 9. 3.    Activation of traveling (moving) load for dynamic analysis
5.04    2010. 8. 8.    Addition of deflection to influence line items
5.04    2010. 7.14.    Option to display the resultant forces and the center line in moving load display
5.04    2010. 7.10.    Mathematical notations in combined drawing of shear force and bending moment diagrams
5.04    2010. 7.06.    Option to set the number of segments for simulation of moving load
5.04    2010. 7.03.    Representation of the area enclosed by the influence line
5.04    2010. 6.21.    Option to specify the property set for meshes imported from a text file
5.04    2010. 6.13.    Option to set the number of curve segments for rendering the shaded image of the frame deformation
5.04    2010. 6.12.    Remove the limitation for the number of curves. (limited to 32767 curves in previous versions)
5.03    2010. 6. 9.    "Suppress Curvature Effect" for axial and shear force diagram (only bending moment dia. in prev. ver.)
5.03    2010. 5.18.    Addition of new element type. Frame element with tapered section (V5)
5.02    2010. 5. 3.    Assignment of spring elements to nodes (previously, curves or surface meshes only).
5.02    2010. 4.30.    Addition of <Update history> item to <Help> menu.
5.02    2010. 4.27.    Double click assignment of dynamic motion.
5.02    2010. 4.18.    Display option of VisualFEA logo with wireframe rendering.
5.02    2010. 4.12.    Improved assignment of dynamic motion.
5.01    2010. 4.04.    Option of offsetting the rigid body motions from the dynamic time history.
5.01    2010. 3.22.    Multi-step plotting of data values represented by frame diagrams.
5.01    2010. 2.27.    Improving the speed of importing mesh from text file. (Option to skip the extraction of boundary surface mesh)
5.00    2010. 1.10.    Internet authentication of the program licence.
4.12    2009.12.11.    Evaluation of yield factor for a point on the yield surface or the stress path.
4.12    2009.11.13.    Moving or probing of the Phi plane in the elasto-plastic yield surface.
4.12    2009.11. 1.    Improvement of yield envelope including the bounding limit.
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<tr>
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<tbody>
<tr>
<td>2009. 8.15</td>
<td>4.12</td>
<td>New mesh option &quot;Stick Mesh to Primitive&quot;.</td>
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<tr>
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<td>4.12</td>
<td>total stress mode and effective stress mode for contouring</td>
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<tr>
<td>2009. 7.15</td>
<td>4.12</td>
<td>Contour scaling based on the values of the rendered part of the model.</td>
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<tr>
<td>2009. 7.10</td>
<td>4.12</td>
<td>Addition of &quot;Joint Interface&quot; element.</td>
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<td>2009. 6.22</td>
<td>4.12</td>
<td>Zooming and panning of Mohr circle.</td>
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<tr>
<td>2009. 5.23</td>
<td>4.12</td>
<td>Coupled analysis of sequentially stage models.</td>
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<tr>
<td>2009. 5.16</td>
<td>4.12</td>
<td>Interactive adjustment of the light source with instantly refreshed rendering</td>
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<td>2009. 5.10</td>
<td>4.12</td>
<td>Definition of material properties as a function of the depth.</td>
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<td>2009. 5. 8</td>
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<td>New option of shading and contouring overlaid with outline image</td>
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<tr>
<td>2009. 4.28</td>
<td>4.11</td>
<td>Addition or deletion of control points on curves (spline, Bezier, polyline, etc.)</td>
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<tr>
<td>2009. 4.17</td>
<td>4.11</td>
<td>Equation coupled solution of the displacement d.o.f. and excess pore pressure d.o.f.</td>
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<tr>
<td>2009. 4. 4</td>
<td>4.10</td>
<td>Bond strength of embedded bar</td>
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<td>2009. 3.29</td>
<td>4.10</td>
<td>Data probing of a point on the contour image.</td>
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<tr>
<td>2009. 3. 1</td>
<td>4.10</td>
<td>Functions (popup, hiding, moving, etc.) related to captions in frame diagrams</td>
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<tr>
<td>2009. 2.20</td>
<td>4.10</td>
<td>Addition of adaptive mesh reshaping option for fire destructive modeling.</td>
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<tr>
<td>2009. 2. 3</td>
<td>4.10</td>
<td>Consolidation analysis</td>
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<tr>
<td>2009. 1.22</td>
<td>4.10</td>
<td>Functional improvement of elasto-plastic yield surface and Mohr Circle</td>
</tr>
<tr>
<td>2009. 1.10</td>
<td>4.10</td>
<td>Windows 64 bit version</td>
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