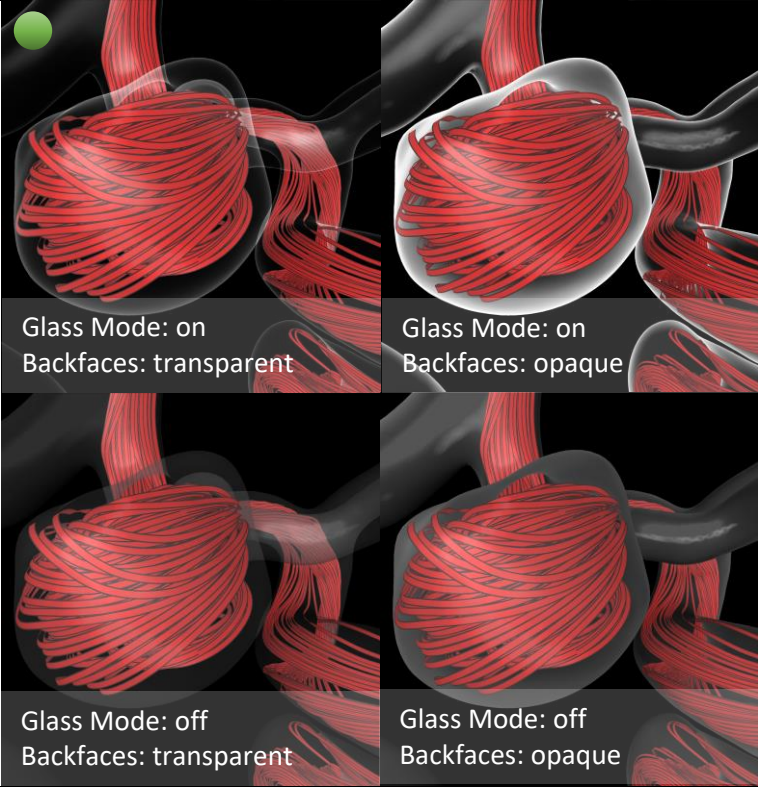
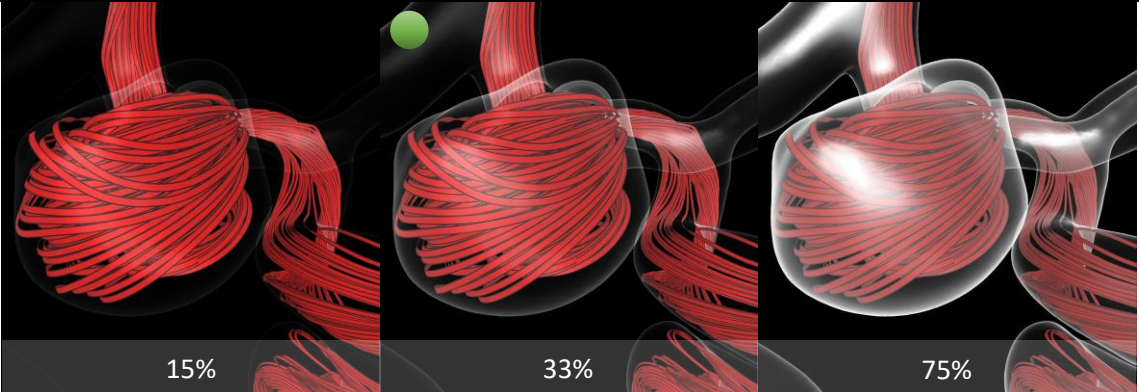


Parameter Overview

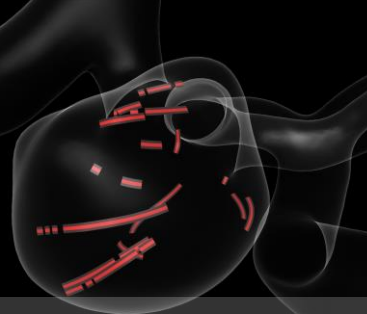
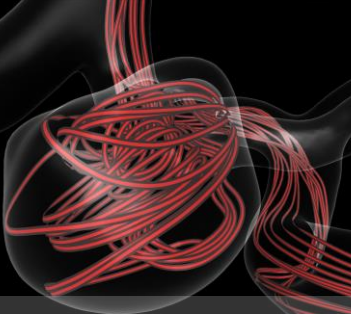
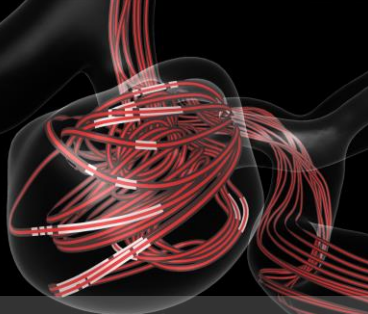
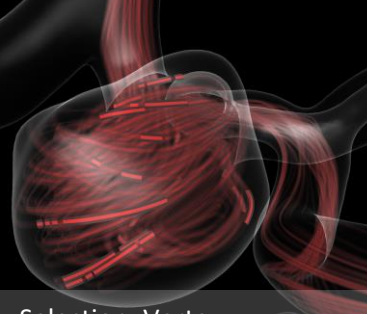
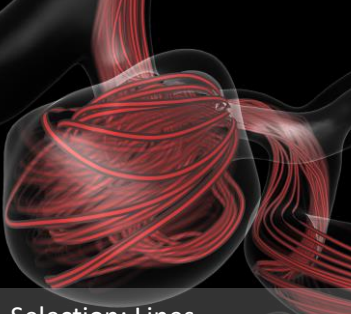
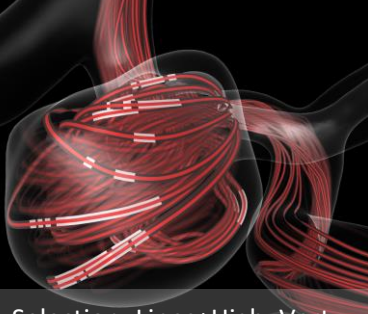
In this document, we have compiled a comprehensive overview of the different parameters and settings of our application that are exposed to the user. For each parameter, we will give the range of possible settings and show its effect on the visualization using screenshots of different settings as example. When there is a default setting, it is marked with a green circle in the top left corner of the image.

For parameters that refer to attributes (i.e. "Attribute Mapping to Color Scale"), the attribute can always be freely chosen from any attribute that is present in the dataset (i.e. "speed", "pressure", "wall shear stress", ...).

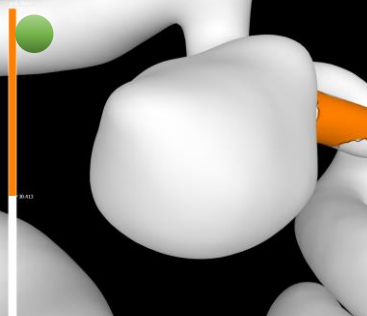

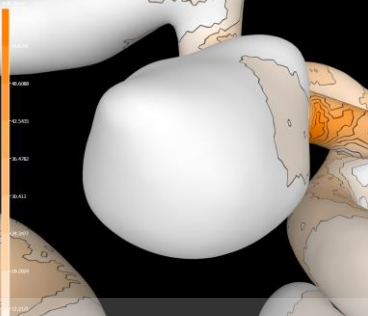

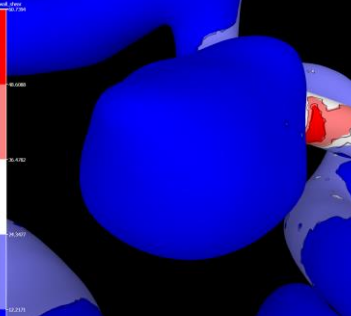
Pathline viewer mode

| Parameter | Possible settings |
|---|---|
| <p>Glass Rendering Mode and Backface Opacity</p> <p>Both options can be switched on or off.</p> |  <p>Glass Mode: on Backfaces: transparent</p> <p>Glass Mode: on Backfaces: opaque</p> <p>Glass Mode: off Backfaces: transparent</p> <p>Glass Mode: off Backfaces: opaque</p> |
| <p>Surface Transparency</p> <p>Can be set between 0 and 100%.</p> |  <p>15%</p> <p>33%</p> <p>75%</p> |

| | | | |
|--|--|--|--|
| <p>Pathline Width and Pathline Halo Width</p> <p>Pathline Width can be set between 0.1 and 2mm; Pathline Halo Width can be set between 0 and half of the Pathline Width</p> | | | |
| <p>Attribute Mapping to Color Scale</p> <p>Available scales are: Temperature Scale, Rainbow Scale, Red-Blue Scale, Traffic Light Scale, White-Beige-Scale, Solid Color (No Scale)</p> | | | |
| <p>Additional Attribute Mapping</p> <p>Available Mappings are: None, Opacity, Line Width, Opacity+Line Width</p> <p>Default is "None"</p> | | | |
| <p>Pathline Distance</p> <p>Can be set between 0 and 4mm.</p> <p>Default is 0mm</p> | | | |

| | | | |
|--|---|--|--|
| <p>Pathline Filtering</p> <p>Selection Modes: Vertex, Lines, Lines + Highlighted Vertices</p> <p>Filtering Modes: Remove, Transparency</p> <p>Pathline Filtering is disabled by default.</p> |  <p data-bbox="391 353 722 432">Selection: Vertex Filter: Remove</p> |  <p data-bbox="774 353 1106 432">Selection: Lines Filter: Remove</p> |  <p data-bbox="1157 353 1489 432">Selection: Lines+High. Vert. Filter: Remove</p> |
| |  <p data-bbox="391 752 722 822">Selection: Vertex Filter: Transparency</p> |  <p data-bbox="774 752 1106 822">Selection: Lines Filter: Transparency</p> |  <p data-bbox="1157 752 1489 822">Selection: Lines+High. Vert. Filter: Transparency</p> |

Patch selection mode

| Parameter | Possible settings | | |
|---|--|---|---|
| <p>Number of Shades</p> <p>Can be set between 2 and 10.</p> |  <p data-bbox="507 1335 608 1373">2 shades</p> |  <p data-bbox="890 1301 991 1335">5 shades</p> |  <p data-bbox="1270 1301 1370 1335">10 shades</p> |
| <p>Attribute Mapping to Color Scale</p> <p>Available scales are: Temperature Scale, Rainbow Scale, Red- Blue Scale, Traffic Light Scale, White- Beige-Scale</p> |  <p data-bbox="454 1693 663 1727">White-Beige Scale</p> |  <p data-bbox="853 1727 1031 1760">Red-Blue Scale</p> | |