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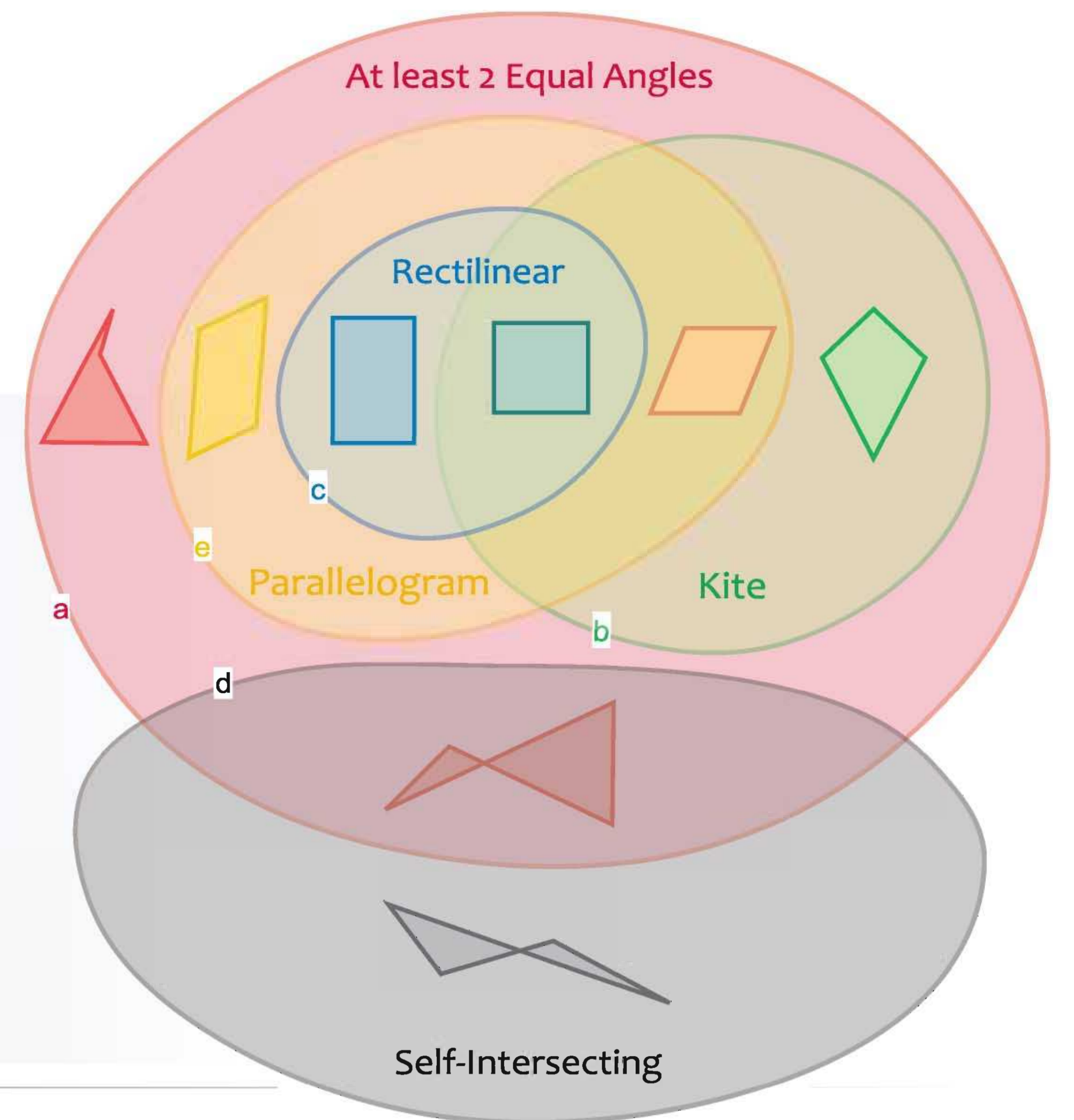
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Force-Directed Layout for Euler Diagrams



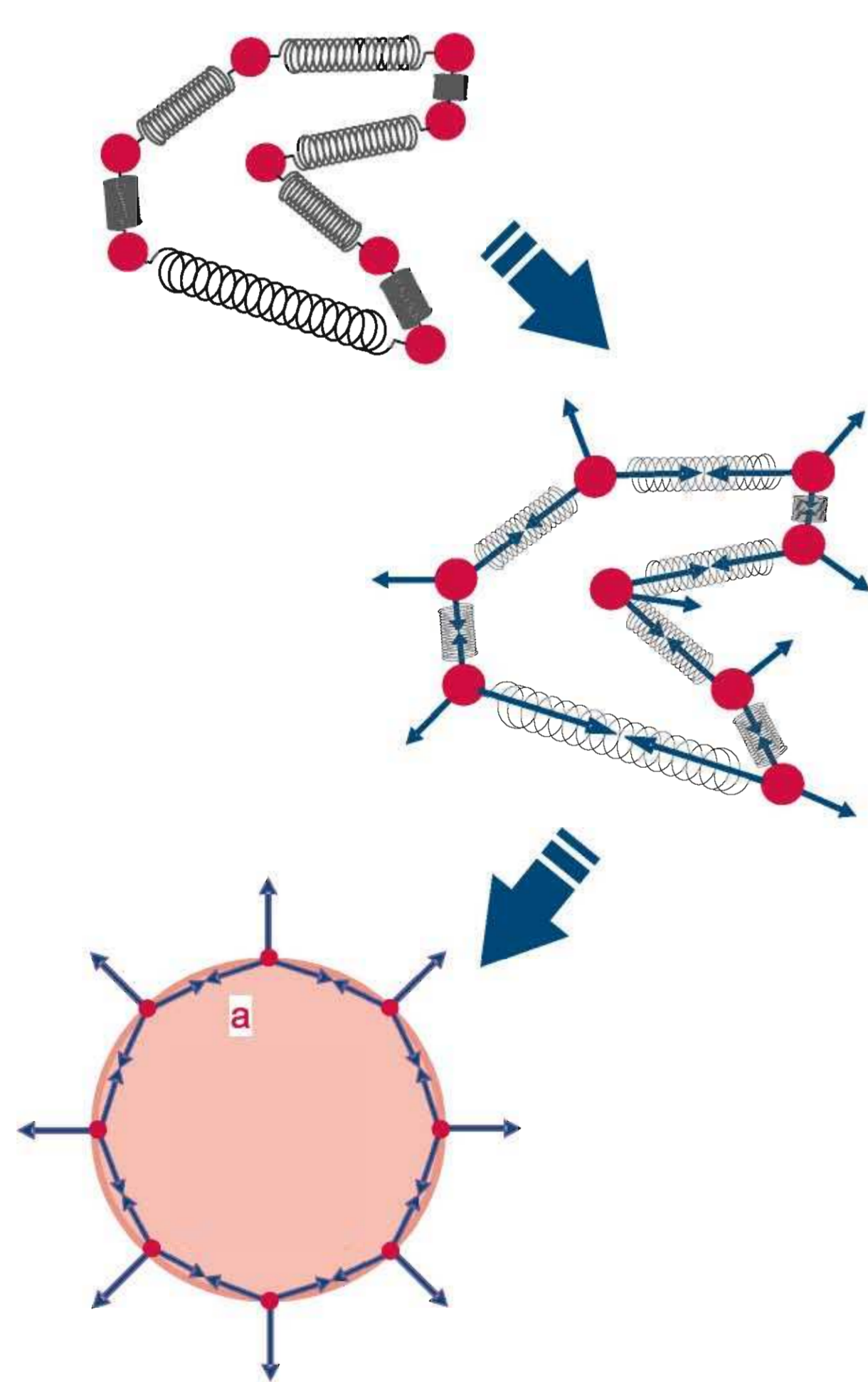
Problem

Euler diagrams are the only diagrams that intuitively represent *containment*, *intersection* and *exclusion* of data. Though they are used in a wide variety of application areas, such as biological visualization, data classification and querying of large databases, none of the current *automatic diagram layout techniques* produce good layouts in reasonable time.

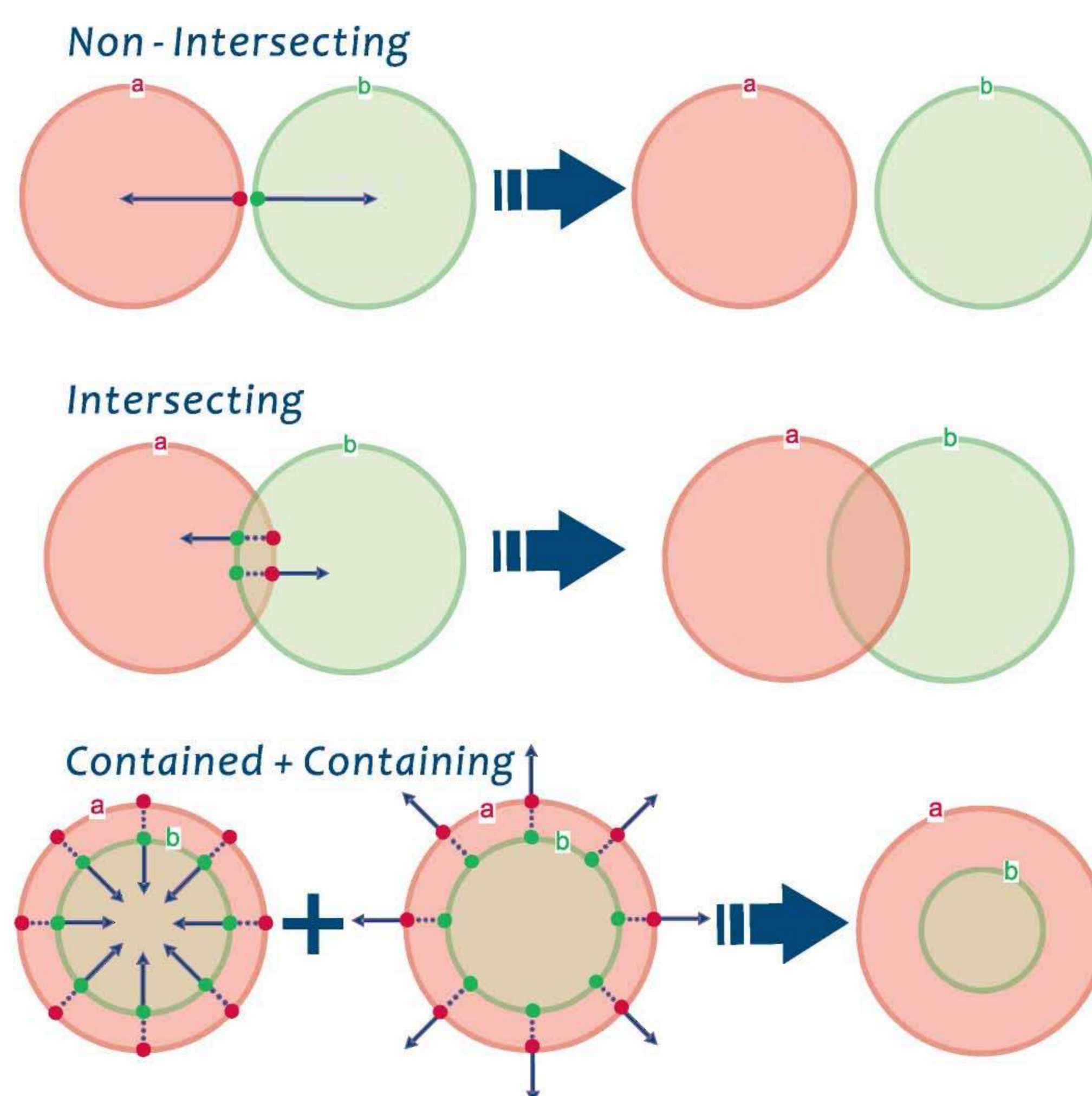
Our Approach

We adopt a *force-directed approach* to automatically layout aesthetically pleasing Euler diagrams in a reasonable time. The initial diagrams dealt with are all generated by the latest wellformed Euler diagram generator. All the forces in our model have specific objectives:

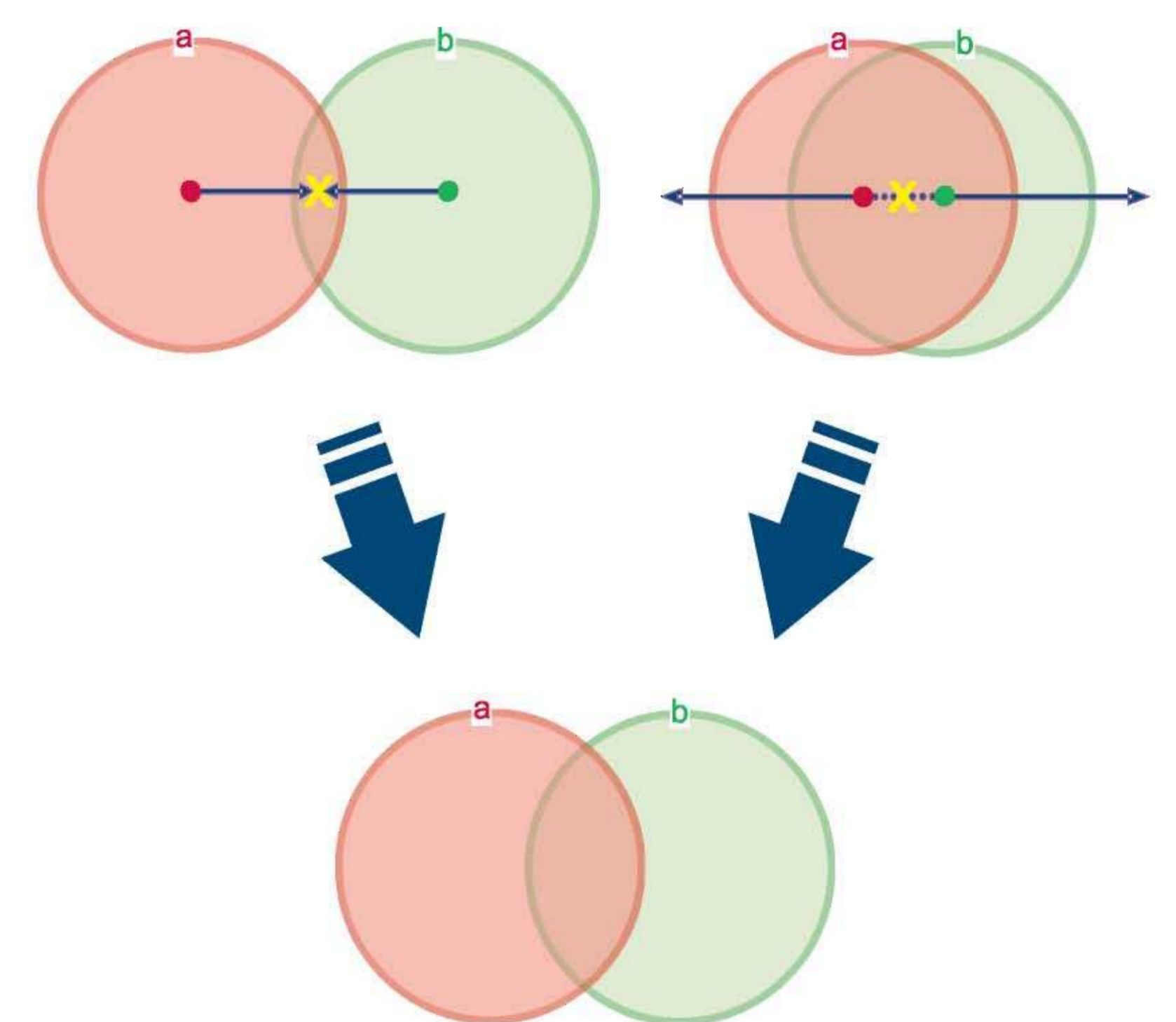
① Attain Smooth Polygons



② Maintain Original Structure



③ Ensure Adequately Sized Curves and Zones



Example

