C2I

(Group 2)

16.05.2018

1.Load CDY Board from file

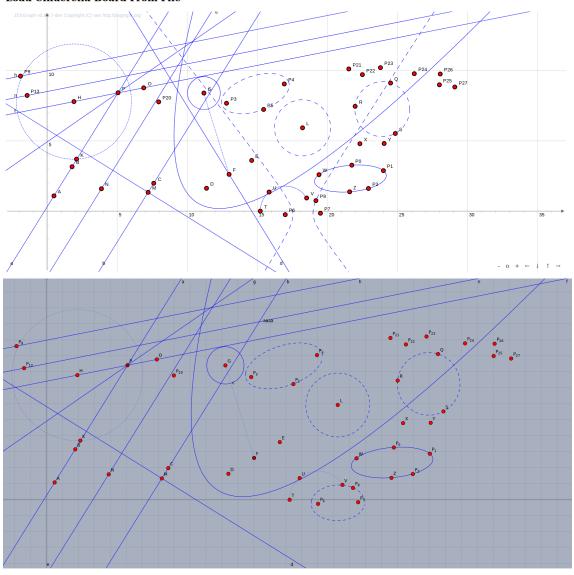
Clone JSXGraph-Project from git:

git clone https://github.com/jsxgraph/jsxgraph

Patch the file jsxgraph/src/reader/cinderella.js (cinderella.patch in Folder CinderellaReaderPatch)

patch < cinderella.patch</pre>

Test with JXG.JSXGraph.loadBoardFromFile Load Cinderella Board From File



Cinderella Elements can be loaded with JSXGraph

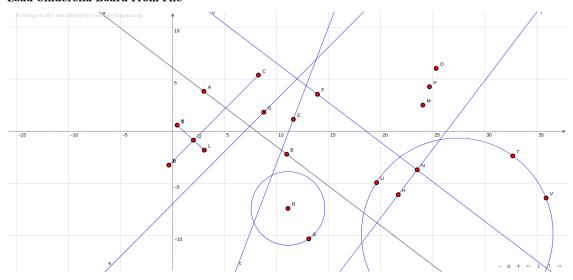
Cinderella Element	Loadable with JSXGraph	Notice
FreePoint	✓	free point
Join	✓	line
Segment	✓	segment
CircleMP	✓	circle, defined by two points
CircleByFixedRadius	✓	circle, defined by point and fixed radius
CircleByRadius	✓	circle, defined by point and fixed radius
PointOnCircle	✓	glider on a circle
PointOnLine	✓	glider on a line
Mid	✓	mid point
CircleBy3	✓	circumcircle
Parallel	✓	parallel
Orthogonal	✓	normal
ConicBy5	✓	conic defined by five points
ConicFoci	✓	ellipse with foci and points on the conic
ConicFociH	✓	hyberbola with foci and points on the conic
ConicParabolaPL	✓	parabola with focus and directrix
Poly	✓	polygon
Arc	✓	arc
Through	✓	line defined by one point
Compass	✓	circle defined by compass
AngularBisector	✓	angular bisector
Meet	✓	intersect two lines
IntersectionConicLine	<u> </u>	intersection circle/line
IntersectionCircleCircle	✓	intersection circle/circle
LineByFixedAngle	Х	line by fixed angle

2.Convert CDY to I2G

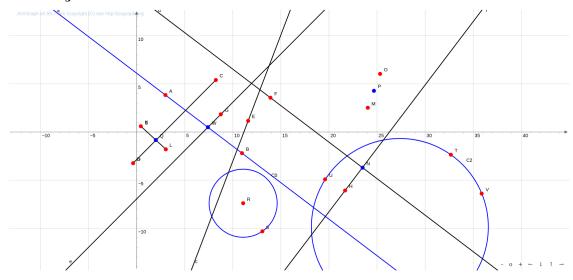
Usage:

java C2I <path to cinderella file> <path to save intergeo file>

 $Test\ with\ {\tt JXG.JSXGraph.loadBoardFromFile} \\ \textbf{\textit{Load Cinderella Board From File}}$



Load Intergeo Board From File



Cinderella Elements could be converted

Cinderella Element	Convertible	Corresponding Intergeo Element
FreePoint	✓	free_point
Meet	✓	point_intersection_of_two_lines
Mid	✓	$midpoint_of_two_points$
Join	✓	line_through_two_points
Segment	✓	line_segment_by_points
Through	✓	line
Parallel	✓	line_parallel_to_line_through_point
Orthogonal	✓	line_perpendicular_to_line_through_point
AngularBisector	✓	line_angular_bisectors_of_two_lines
CircleMP	✓	circle_by_center_and_point
CircleBy3	~	circle_by_three_points
Other Elements	Х	
Elements Attributes	Х	