
Workshop II

4. International JSXGraph Conference

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Contents

1 Ecosystem	3
2 Visual improvements	3
2.1 Dashed and dotted strokes	3
2.2 Use CSS transitions	4
3 New in upcoming v1.6.1	4



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1 Ecosystem

- In between *nightly builds* and *official releases* we now have *beta releases*
- Location: <https://jsxgraph.org/beta>
- Contains `jsxgraphcore.js`, `jsxgraph.css`, and `docs/` (with updated API reference)
- The nightly builds will be overhauled soon

2 Visual improvements

Versions 1.5.0 and 1.6.0 brought some visual improvements

2.1 Dashed and dotted strokes

- Attribute `dash:7` gives dotted lines
- Attribute `dashScale` scales dots and dashes according to stroke width.
- See <https://jsfiddle.net/h0qck8uj/>

2.2 Use CSS transitions

- Attribute `transitionDuration:1000`
- Attribute `transitionProperties: ['width', 'height', 'stroke-width', 'fill', 'fill-opacity', 'rx', 'ry', 'stroke', 'stroke-opacity']`
- See [API reference](#)
- jsfiddle: <https://jsfiddle.net/jqd9thL3/>

3 New in upcoming v1.6.1

- JSXGraph is loaded from <https://jsxgraph.org/beta/jsxgraphcore.js>
- *Riemann sum*: use quadratic function for visualization of Simpson's rule, see <https://jsfiddle.net/Or6qoL4a/1/>
- *Slider*: snaps to supplied list of values: <https://jsfiddle.net/rcqt246L/>

```
var pi = Math.PI;

var slider = board.create('slider', [
  [-3, 1.5], [3, 1.5], [-10, 1, 10]
], {
  snapValues: [-3*pi, -2*pi, -pi, 0, pi, 2*pi, 3*pi],
  snapValueDistance: 0.4
});
```