

# Converting dynamic JavaScript content into static assets

One working solution is to use [Browser Automation](#) to generate static content from dynamic content. This has multiple uses such as for:

- [mPDF](#)
- [Newsletters](#)

This [works in Tiki21](#) for [Diagram](#) and is easy to deploy all over Tiki.

This is to brainstorm on how to handle images generated via JavaScript in [mPDF](#). It is possible to generate server-side graphs from table data with JGraph: <http://mpdf1.com/manual/index.php?tid=364> However, the trend is to use JavaScript to generate fancy charts, with <http://d3js.org/> offering a fantastic amount of possibilities.

Even if some things can't ultimately be done by mPDF, we should have some community solutions using other software. Having static images (ex.: png) is useful for inclusion in PDFs but also to send via email.

Examples of images to print

- <http://demo.bpmn.io/s/pizza-collaboration>
- <https://github.com/mbostock/d3/wiki/Gallery>
- <https://google-developers.appspot.com/chart/interactive/docs/gallery>
- <https://plot.ly/javascript/#basic-charts> (tested and working in Tiki 18.x by using the png export option. )

Running JavaScript server-side in PHP

- <https://github.com/reactjs/react-php-v8js>
- <http://www.php-js.com/>
- <https://www.openhub.net/p/PHPJS>
- <http://php.net/manual/en/v8js.examples.php>
- <https://www.openhub.net/p/v8js>

About MathJAX support

- <http://www.mpdf1.com/forum/discussion/1046/how-does-mpdf-support-svg-and-mathjax/p1>
- <http://mpdf1.com/manual/index.php?tid=495>
- <https://github.com/mpdf/mpdf/issues/41>

About screen capture

- <http://phantomjs.org/screen-capture.html>
  - <https://github.com/jakoch/phantomjs-installer>

- <http://jonnnnyw.github.io/php-phantomjs/>

#### Related links about the topic

- <http://www.mpdf1.com/forum/discussion/428/graphs-from-google-chart-tool-in-pdf/p1>
- <http://engineering.brandwatch.com/server-side-rendering-of-visualisations-using-nodejs/>
- <http://inside-out.xyz/technology/how-to-take-a-snapshot-of-an-html5-container.html>
- <https://plot.ly/javascript/static-image-export/>
- <https://github.com/chartjs/Chart.js/issues/99>
- [Server-side JavaScript](#)
- <https://github.com/wikimedia/mathoid>
- <https://github.com/jgraph/draw-image-export2>

#### alias

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- [Images generated in JavaScript](#)