This repository   Search

Pull requests   Issues   Gist

Khan / KaTeX

Watch   207   Star   4,302   Fork   262

<> Code   Issues 99   Pull requests 11   Wiki   Pulse   Graphs

Fast math typesetting for the web. http://khan.github.io/KaTeX/

417 commits   9 branches   8 releases   34 contributors

Branch: master ▾   New pull request   New file   Find file   HTTPS ▾   https://github.com/Khan/K   Download ZIP

kevinbarabash Revert previous change to make \centerdot like \cdot   ···   Latest commit c79fb58 on Dec 29, 2015

build	Add a setup rule to Makefile	3 years ago
contrib/auto-render	Migrate to eslint	2 months ago
dockers	Migrate to eslint	2 months ago
metrics	Migrate to eslint	2 months ago
src	Revert previous change to make \centerdot like \cdot	a month ago
static	Remove 3px border around rules.	4 months ago
test	Migrate to eslint	2 months ago
.arcconfig	Fix `arc lint`	7 months ago
.arclint	Fix `arc lint`	7 months ago
.eslintrc	Migrate to eslint	2 months ago
.gitignore	Add tool to check symbol group types against LaTeX	5 months ago
.travis.yml	Force Firefox to start up with an empty page	2 months ago
CONTRIBUTING.md	Add a link to symbol/function support preview page	3 months ago
LICENSE.txt	Add basic auto-render extension	10 months ago
Makefile	Migrate to eslint	2 months ago
README.md	Readme - set recent version (0.5.1) for CDN links	3 months ago
bower.json	Update master version numbers	7 months ago
cli.js	Migrate to eslint	2 months ago
katex.js	Migrate to eslint	2 months ago
lint_blacklist.txt	Fix our parsing strategy so it is the same as (or very similar to) TeX's	a year ago
package.json	Migrate to eslint	2 months ago
server.js	Migrate to eslint	2 months ago

📖 **README.md**

KATEX

build passing

gitter join chat

KaTeX is a fast, easy-to-use JavaScript library for TeX math rendering on the web.

- **Fast:** KaTeX renders its math synchronously and doesn't need to reflow the page. See how it compares to a competitor in this speed test.
- **Print quality:** KaTeX's layout is based on Donald Knuth's TeX, the gold standard for math typesetting.
- **Self contained:** KaTeX has no dependencies and can easily be bundled with your website resources.
- **Server side rendering:** KaTeX produces the same output regardless of browser or environment, so you can pre-render expressions using Node.js and send them as plain HTML.

KaTeX supports all major browsers, including Chrome, Safari, Firefox, Opera, and IE 8 - IE 11. A list of supported commands can be on the wiki.

Usage

You can download KaTeX and host it on your server or include the `katex.min.js` and `katex.min.css` files on your page directly from a CDN:

```
<link rel="stylesheet" href="//cdnjs.cloudflare.com/ajax/libs/KaTeX/0.5.1/katex.min.css">
<script src="//cdnjs.cloudflare.com/ajax/libs/KaTeX/0.5.1/katex.min.js"></script>
```

In-browser rendering

Call `katex.render` with a TeX expression and a DOM element to render into:

```
katex.render("c = \\pm\\sqrt{a^2 + b^2}", element);
```

If KaTeX can't parse the expression, it throws a `katex.ParseError` error.

Server side rendering or rendering to a string

To generate HTML on the server or to generate an HTML string of the rendered math, you can use `katex.renderToString`:

```
var html = katex.renderToString("c = \\pm\\sqrt{a^2 + b^2}");
// '<span class="katex">...</span>'
```

Make sure to include the CSS and font files, but there is no need to include the JavaScript. Like `render`, `renderToString` throws if it can't parse the expression.

Rendering options

You can provide an object of options as the last argument to `katex.render` and `katex.renderToString`. Available options are:

- `displayMode`: `boolean`. If `true` the math will be rendered in display mode, which will put the math in display style (so `\int` and `\sum` are large, for example), and will center the math on the page on its own line. If `false` the math will be rendered in inline mode. (default: `false`)
- `throwOnError`: `boolean`. If `true`, KaTeX will throw a `ParseError` when it encounters an unsupported command. If `false`, KaTeX will render the unsupported command as text in the color given by `errorColor`. (default: `true`)
- `errorColor`: `string`. A color string given in the format `"#xxx"` or `"#xxxxxx"`. This option determines the color which unsupported commands are rendered in. (default: `#cc0000`)

For example:

```
katex.render("c = \\pm\\sqrt{a^2 + b^2}", element, { displayMode: true });
```

Automatic rendering of math on a page

Math on the page can be automatically rendered using the auto-render extension. See the Auto-render README for more information.

Contributing

See CONTRIBUTING.md

License

KaTeX is licensed under the MIT License.