

## Plugin Equation

Use this [wiki plugin](#), introduced in [Tiki2](#), to render an equation written in LaTeX syntax as an image. See also [MathJax](#).

## Prerequisites

## PHP

This plugin must have the php function EXEC enabled on the server for it to work.

## LaTeX

LaTeX distribution must be installed on your server. Check you have installed the following LaTeX packages:

- `inputenc`
  - `amsmath`
  - `amsfonts`
  - `amssymb`
- You should have a :
  - `/usr/bin/latex`, `/usr/bin/dvips`, `/usr/bin/convert`, `/usr/bin/identify` and `/usr/bin/convert`
  - If the path of these tasks are incorrect, you must adjust the php code in `lib/equation/class.latexrender.php`
- the directories `lib/equation/tmp/` and `lib/equation/pictures` must be writeable by the server.

The following directories need write permissions for the plugin to work:

`lib/equation/tmp`

`lib/equation/pictures`

## Parameters

Render an equation written in LaTeX syntax as an image

*Introduced in Tiki 2.*

[Go to the source code](#)

*Preferences required:* `wikiplugin_equation`

### Parameters

*(body of plugin) - equation*

*no parameters*

## Examples

## Basic syntax

## With a famous equation

*This code,*

```
{EQUATION()}\$e=mc^2\${EQUATION}
```

*Would produce on this site:*

## Another equation

*This code,*

```
{EQUATION()}\setlength{\unitlength}{1cm}\begin{picture}(4,2)\put(1,1){\circle{3}}\put(3,1){\circle*{5}}\end{picture}{EQUATION}
```

*Would produce on this site:*

## Customizations

This plugin actually wraps a minimalistic LaTeX around the formula. For instance, you can customize `lib/equation/class.latexrender.php` if you want other fonts.

```
\documentclass[12pt]{article} \usepackage[latin1]{inputenc} \usepackage{amsmath} \usepackage{amsfonts}
\usepackage{amssymb} \pagestyle{empty} \begin{document} $your sexy formula$ \end{document}
```

## Related pages

- [MathJax](#)

## Aliases

- [Latex](#)