

# 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`



Since Tiki 20.x to view equations Tiki needs **the mathjax/mathjax package installed**.

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# Parameters

Render an equation written in LaTeX syntax as an image

*Introduced in Tiki 2.*

[Go to the source code](#)

*Preferences required:* `wikiplugin_equation`

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## Parameters

*(body of plugin)* - equation

*no parameters*

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# Examples

# Basic syntax

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# 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.

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```
\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