

# PHP: Drawing mathematical graphs with OpenPlaG

[https://wiki.ostrowski.net.pl/php\\_mysql/openplag/](https://wiki.ostrowski.net.pl/php_mysql/openplag/)

OpenPlaG (Plot a Graph) is a simple, open source program written in PHP for creating function graphs directly on a web page.

Example of a mathematical model of semiconductor diode characteristics

## □ Basic information

- Language and licence: PHP, available under the GNU GPL v2.
- First release: 2006, public source code since 2007.
- Current version: 4.0, released June 2020

## □ Main functions

- Display of up to three function graphs simultaneously, including their derivatives and integrals.
- Library of approximately 180 predefined functions, including trigonometric, hyperbolic, non-functional, probabilistic, special, iterative and fractal functions
- Save and load settings (e.g. formulas, ranges) and the ability to define your own formulas and substitutions .

## □ Applications and use

- Runs on PHP server (minimum PHP 7.2 recommended) .
- Integrates directly into the web page, allowing charts to be dynamically drawn based on user input .
- A built-in guide explains the syntax and use of the tool .