



# PRETTY POSTERS WITH L<sup>A</sup>T<sub>E</sub>X USING THE HYPOSTER STYLE

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## L<sup>A</sup>T<sub>E</sub>X POSTERS MADE EASIER

The HYposter style enables you to make scientific posters with a University of Helsinki look using the `beamerposter` package for L<sup>A</sup>T<sub>E</sub>X.

The official poster templates for the university are available only for Microsoft PowerPoint and Adobe InDesign, expensive pieces of software which are not easily available to all researchers. L<sup>A</sup>T<sub>E</sub>X, on the other hand, is free and works on almost all computer systems commonly used. It also has superior capabilities in typesetting mathematical formulas.

## THE LOOK

This poster style does not exactly conform to the official poster style of the university, but it tries to do a good enough job. The official poster style has a very large flame logo, and the header part takes up about a third of the page. This has been toned down a bit to save space.

The background of the poster is white and the text is black. The block headings are in the faculty colour. The first line of the poster title is in the faculty colour and the rest in neutral grey. In the upper right the name of the university is set in neutral grey and the faculty name in the faculty colour.

The layout of the official poster and this example is three-column, but the number of columns is variable. See the documentation of `beamer` for more details about columns.

## USING THE PACKAGE

HYposter is a style definition for `beamerposter`, which itself is a package that uses the `beamer` document class to produce posters. This means you need to install both `beamer` and `beamerposter` in order it to work.

The headers should be in FULL CAPS to conform with the university style, this is done automatically.

## VERSATILITY

This is the cool part: the poster can be rendered in any of the university's colour themes. It also automatically changes the name of the faculty or department in the header. Everything happens under the hood, and the user does not need to worry about the appearance of the poster at all, only the contents.

The style supports all of the university's different faculties and special departments which have an official colour scheme.

## THE COLOUR OPTIONS

- ▶ Faculty of Agriculture and Forestry
- ▶ Faculty of Arts
- ▶ Faculty of Behavioural Sciences
- ▶ Faculty of Biological and Environmental Sciences
- ▶ Faculty of Law
- ▶ Faculty of Medicine
- ▶ Faculty of Pharmacy
- ▶ Faculty of Science
- ▶ Faculty of Social Sciences
- ▶ Faculty of Theology
- ▶ Faculty of Veterinary Medicine
- ▶ Swedish School of Social Science
- ▶ Aleksanteri Institute
- ▶ Center for Information Technology
- ▶ Center for Properties and Facilities
- ▶ Helsinki Collegium for Advanced Studies
- ▶ Institute of Biotechnology
- ▶ Laboratory Animal Centre
- ▶ Language Centre
- ▶ Neuroscience Center
- ▶ Open University
- ▶ Palmenia Centre for Continuing Education
- ▶ Ruralia Institute
- ▶ University of Helsinki Library
- ▶ None (plain black and white)

## WHERE CAN I FIND IT?

HYposter is hosted at Github for ease of development and cooperation. Get it at <https://github.com/dronir/HYposter>.

## EXAMPLE 1: MATH

You can use all the nice math features of L<sup>A</sup>T<sub>E</sub>X in your poster:

$$f(x) = \frac{1}{2} \left( \frac{1}{1+x} + 1 \right) \quad (1)$$

Unfortunately right now there are still some problems with the scaling of the math fonts:

$$\sum_{n=0}^{\infty} \frac{1}{2^n} = 2 \quad (2)$$

## EXAMPLE 2: IMAGES AND REFERENCES

Including images is simple. With pdfL<sup>A</sup>T<sub>E</sub>X, you can use images in many common formats, including PNG and JPEG, but in a poster you should strive to use scaleable graphics by putting them in pdf format.

Using labels to refer to figures and tables is also simple, as demonstrated by this reference to Figure 1.

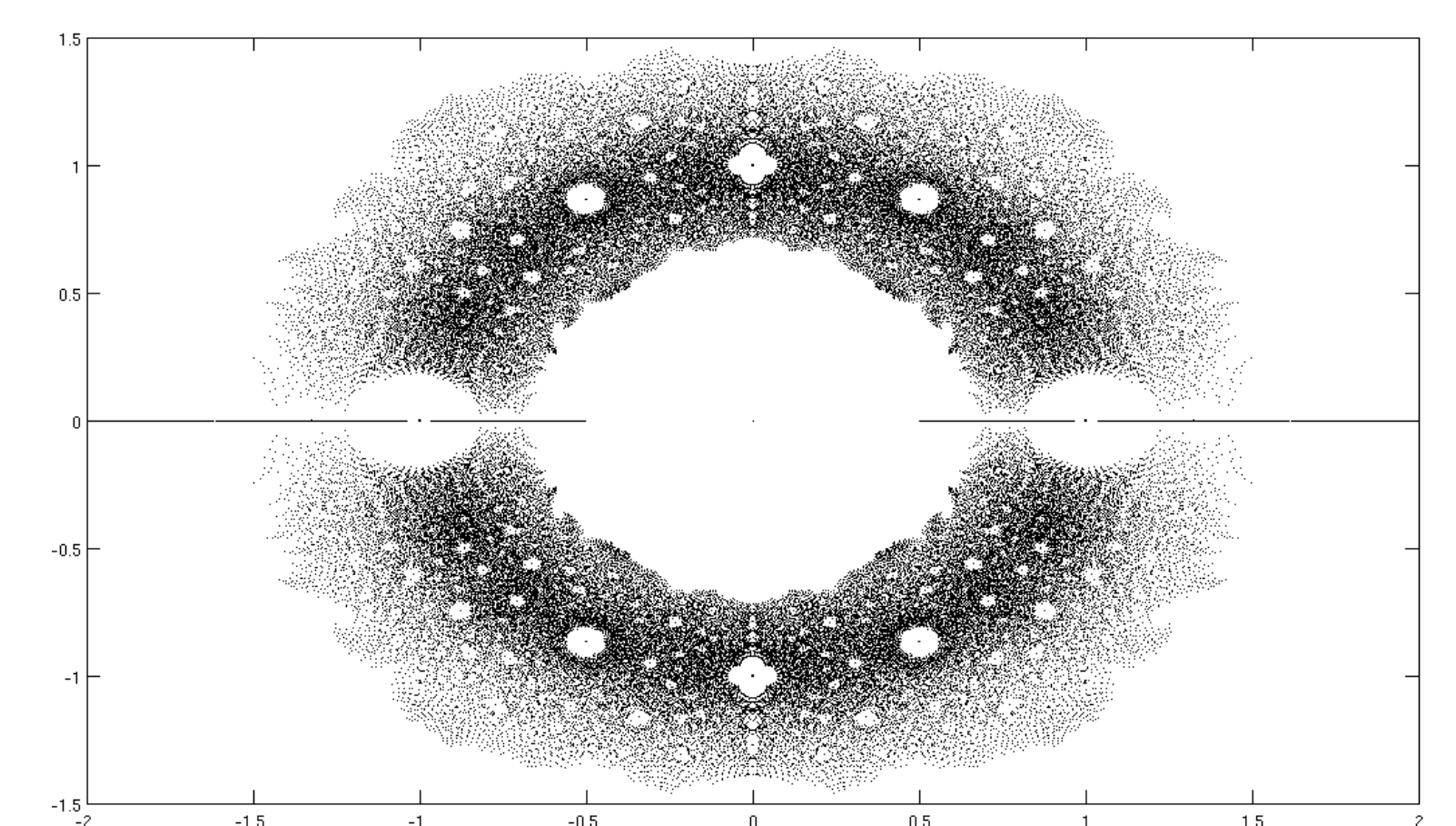


Figure 1: Some mathematical plot

Image courtesy of Janne Korhonen.

## CAN I HELP?

There are many things that still don't work quite as well as I'd like. The math fonts don't seem to always scale properly, and I haven't figured out how to format the author names nicely yet. Also the spacing between the block headers and text paragraphs is a bit odd.

Contributions and comments are always welcome. Contribute on Github or send email to [olli.wilkman@iki.fi](mailto:olli.wilkman@iki.fi).