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hypertiling - Hyperbolic Lattices for Everyone!

hypertiling (hypertiling.de) is a high-performance Python 3 library for the generation and visualization of hyperbolic tilings, embedded in the Poincaré disk model. Using efficient, precise and robust algorithms, computational lattices with millions of cells can be created in a matter of minutes on a single computer and are ready to be used for all sorts of scientific as well as artistic purposes. Hyperbolic geometry, i.e. negatively curved space, is a rapidly growing field of interest in physics and beyond. While this puts this formidable package into a sweet spot for future growth, we are left with a challenge: how to start making it known to potential users?

In this poster we detail a carefully crafted strategy that hopefully enables us to reach beyond our own scientific domain. In order to achieve this we use established open source practices, and collaborative development on GitLab. On top of that we use the potential of modern social media platforms, like YouTube, Twitter and Instagram to build a community across fields.

Slot length

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