NAME

deva-visualize-geometry – generate displayable DEVA geometry file

SYNOPSIS

deva-visualize-geometry [*options*] [*print-row-start print-col-start*
print-row-end print-col-end] *input.txt output.pdf*

DESCRIPTION

Generate displayable version of DEVA geometry file as a PNG file. 3D values are displayed in RGB, with R=|x|, G=|y|, and B=|z|. 1D values are displayed with positive values in green and negative values in red. Black indicates a zero value. Display values are scaled by the extremal value of the input. For 1d data, effectively infinite values (holes in distance data) are displayed in orange. This is not needed for xyz or nor data, since in those data files hole result in zero values.

OPTIONS

−−**3dx1**=*a*

Display a single dimension of at 3D file using the same coloring scheme as for 1D data. *a* is a single characters specifying the dimension ('x', 'y', or 'z').

−−**print**

Print selected values in the input to standard output. Requires four additional parameters: *print-row-start*, *print-col-start*, *print-row-end*, and *print-col-end*, specifying the upper-left and lower-right corners of the values to be printed.

−−**outline**

Outline the location of the printed values in the output PNG file.

EXAMPLES

To visualize dst (distance from viewpoint) data:

deva-visualize-geometry input_dst.txt output_dst.png

To visualize the Y dimension of an xyz.txt (surface point location) file:

deva-visualize-geometry --3dx1=y input_xyz.txt output_xyz.png

AUTHOR

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