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freestyle.utils submodule (freestyle.utils.ContextFunctions)

The Blender Freestyle. ContextFunctions submodule

freestyle.utils.ContextFunctions.get border()

Returns the border.

RETURNS:

A tuple of 4 numbers (xmin, ymin, xmax, ymax).

RETURN TYPE:

tuple[int, int, int, int]

freestyle.utils.ContextFunctions.get canvas height()

Returns the canvas height.

RETURNS:

The canvas height.

RETURN TYPE:

int

freestyle.utils.ContextFunctions.get_canvas_width()

Returns the canvas width.

RETURNS:

The canvas width.

RETURN TYPE:

int

 $free style. utils. Context Functions. {\bf get_selected_fedge()}$

Returns the selected FEdge.

RETURNS:

The selected FEdge.

RETURN TYPE:

FEdge

freestyle.utils.ContextFunctions.get_time_stamp()

Returns the system time stamp.

RETURNS:

The system time stamp.

RETURN TYPE:

int

freestyle.utils.ContextFunctions.load map(file name, map name, num levels=4, sigma=1.0)

Loads an image map for further reading.

PARAMETERS:

- file name (str) The name of the image file.
- map_name (str) The name that will be used to access this image.
- num_levels (int) The number of levels in the map pyramid (default = 4). If num_levels == 0, the complete pyramid is built.
- sigma (float) The sigma value of the gaussian function.

freestyle.utils.ContextFunctions.read complete view map pixel(level, x, y)

Reads a pixel in the complete view map.

PARAMETERS:

- level (int) The level of the pyramid in which we wish to read the pixel.
- \mathbf{x} (int) The x coordinate of the pixel we wish to read. The origin is in the lower-left corner.
- y (int) The y coordinate of the pixel we wish to read. The origin is in the lower-left corner.

RETURNS:

The floating-point value stored for that pixel.

RETURN TYPE:

float

freestyle.utils.ContextFunctions.read directional view map pixel(orientation, level, x, y)

Reads a pixel in one of the oriented view map images.

PARAMETERS:

- **orientation** (*int*) The number telling which orientation we want to check.
- level (int) The level of the pyramid in which we wish to read the pixel.
- x (int) The x coordinate of the pixel we wish to read. The origin is in the lower-left corner.
- y (int) The y coordinate of the pixel we wish to read. The origin is in the lower-left corner.

RETURNS:

The floating-point value stored for that pixel.

RETURN TYPE:

float

$free style. utils. Context Functions. \textbf{read_map_pixel}(\textbf{map_name}, \textbf{level}, \textbf{x}, \textbf{y})$

Reads a pixel in a user-defined map.

PARAMETERS:

- map name (str) The name of the map.
- level (int) The level of the pyramid in which we wish to read the pixel.
- \mathbf{x} (int) The x coordinate of the pixel we wish to read. The origin is in the lower-left corner.
- y (int) The y coordinate of the pixel we wish to read. The origin is in the lower-left corner.

RETURNS:

The floating-point value stored for that pixel.

RETURN TYPE:

float

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