
OMERO ROIs Documentation

Release 0.3.1.dev0

Open Microscopy Environment

Jul 12, 2023

Contents:

1	Indices	3
	Python Module Index	5
	Index	7

OMERO Python library providing utilities for handling regions of interest.

exception `omero_rois.NoMaskFound` (*msg='No mask found'*)

Exception thrown when no foreground pixels were found in a mask

exception `omero_rois.InvalidBinaryImage` (*msg='Invalid labels found'*)

Exception thrown when invalid labels are found

`omero_rois.mask_from_binary_image` (*binim, rgba=None, z=None, c=None, t=None, text=None, raise_on_no_mask=True*)
Create a mask shape from a binary image (background=0)

Parameters

- **binim** (*numpy.array*) – Binary 2D array, must contain values [0, 1] only
- **int-4-tuple** (*rgba*) – Optional (red, green, blue, alpha) colour
- **z** – Optional Z-index for the mask
- **c** – Optional C-index for the mask
- **t** – Optional T-index for the mask
- **text** – Optional text for the mask
- **raise_on_no_mask** – If True (default) throw an exception if no mask found, otherwise return an empty Mask

Returns An OMERO mask

Raises

- **NoMaskFound** – If no labels were found
- **InvalidBinaryImage** – If the maximum labels is greater than 1

`omero_rois.masks_from_label_image` (*labelim, rgba=None, z=None, c=None, t=None, text=None, raise_on_no_mask=True*)
Create mask shapes from a label image (background=0)

Parameters

- **labelim** (*numpy.array*) – 2D label array
- **int-4-tuple** (*rgba*) – Optional (red, green, blue, alpha) colour
- **z** – Optional Z-index for the mask
- **c** – Optional C-index for the mask
- **t** – Optional T-index for the mask
- **text** – Optional text for the mask
- **raise_on_no_mask** – If True (default) throw an exception if no mask found, otherwise return an empty Mask

Returns A list of OMERO masks in label order ([]) if no labels found)

CHAPTER 1

Indices

- `genindex`
- `modindex`
- `search`

Python Module Index

O

`omero_rois`, [1](#)

I

`InvalidBinaryImage`, 1

M

`mask_from_binary_image()` (*in module*
omero_rois), 1

`masks_from_label_image()` (*in module*
omero_rois), 1

N

`NoMaskFound`, 1

O

`omero_rois` (*module*), 1