Locan Documentation

Release 0.5.0

napari-locan Developers

Dec 12, 2023

GETTING STARTED

napari-locan is a plugin for working with single-molecule localization microscopy (SMLM) data within napari. Such data is typically generated in fluorescence-based super-resolution microscopy methods. SMLM techniques rely on finding the position of single-molecule emitters in time and space and reconstructing a super-resolved image or movie. The generated localizations are analyzed point-by-point for statistical and structural insight.

The plugin implements a subset of methods from Locan, a python-based library with code for analyzing SMLM data. Locan provides extended functionality that is better suited for script- or notebook-based analysis procedures. napari-locan is well suited for exploratory data analysis.

CHAPTER

ONE

INSTALLATION

1.1 Dependencies

- python 3
- napari, locan and its dependencies on standard scipy and other open source libraries

A list with all hard and optional dependencies is given in *pyproject.toml*.

napari, locan and napari-locan require a Qt library like pyqt5 or pyside2, which is not specified as hard requirement. Make sure to have one (and only one) installed directly or through napari[pyqt5] or locan[pyqt5].

1.2 Install from PyPI

Install napari-locan directly from the Python Package Index:

```
pip install napari-locan
```

Extra dependencies can be included:

```
pip install napari-locan[test,dev,docs]
```

1.3 Install from conda-forge

Install locan with the conda package manager (use mamba for better performance):

```
mamba install -c conda-forge napari-locan
```

1.4 Install from distribution or sources

In order to get the latest changes install from the GitHub repository main branch:

```
pip install git+https://github.com/super-resolution/napari-locan.git@main
```

or download distribution or wheel archive and install with pip:

```
pip install <distribution_file>
```

Install from local sources:

```
pip install <napari-locan_directory>
```

1.5 Run tests

Use pytest to run the tests from the source directory:

```
pytest
```

CHAPTER

TWO

FIRST STEPS

If napari is up and running with napari-locan installed you can process SMLM data by either opening sample data or loading SMLM data from a file.

2.1 SMLM data

When working with napari-locan you deal with SMLM data containing localizations with coordinates and other localization properties.

These datasets are stored as SMLM data model that can be accessed through the SMLM data widget.

It is important to note that the SMLM data model is completely independent from napari layers.

2.2 Sample data

When opening the sample data, two things happen: (i) Localization data is loaded and stored as a SMLM dataset. (ii) The SMLM dataset is rendered as point cloud or image.

The SMLM dataset can be accessed through the SMLM data widget and further processed through other widgets.

2.3 SMLM data procedures

Some widgets process SMLM datasets without modifying the SMLM data storage. For instance, rendering SMLM data as image creates a new napari layer that is then independent from the SMLM data.

Other widgets compute new SMLM datasets, e.g. by selecting data or computing clusters, that are stored as addition to the SMLM data. The new SMLM dataset is then accessible through the SMLM data widget.

Typically, widgets process the current selection in the SMLM data widget.

CHAPTER THREE

WIDGETS

The plugin napari-locan contains the following widgets:

1) Inspecting SMLM data
    - SMLM data
    - Show metadata
    - Show properties
    - Show localization data
    - Show localization property distributions
2) Providing SMLM data
    - Load
    - Filter specifications
    - Select
    - Region of interest
3) Render SMLM data
    - Render points 2D / 3D
    - Render image 2D / 3D
    - Render features of a SMLM dataset
4) Processing SMLM data
    - Cluster
5) Collections of SMLM datasets
    - Render collection as 2D / 3D point cloud
    - Render collection features
6) Miscellaneous
    - Run script

Look up the API documentation for further details.

CHAPTER

FOUR

SMLMDATA AND COLLECTIONS

Localization data in napari-locan is made of point-clouds with attributes.

All localization data is kept in the **napari_locan.SmlmData model** as **locan.LocData objects**.

LocData objects can also contain a **collection** of several localization datasets.

4.1 Localization data

Localization data consists of a list of localizations with various localization properties. The dataset is represented by a dataframe together with general properties, metadata and other attributes. In napari-locan a dataset is kept as *locan.LocData* object that is inserted in the *napari_locan.SmlmData* model and can be accessed by the attribute *smlm_data.locdata*.

For details on *locan.LocData* and data structures in locan please see the locan documentation on data structures

4.2 Collections

Collections contain the individual LocData objects together with aggregated properties that make up a new LocData object. Think of it as localization clusters where each cluster can be represented as a single "localization" with a center position and other localization attributes.

In napari-locan, widgets typically access the current selection of the SmlmData model. Some widgets deal with collections. In that case, the current selection of the SmlmData model must be a collection.

CHAPTER

FIVE

REGION AND REGION OF INTEREST

There are regions, regions of interest (ROI) and SMLM datasets.

Regions are geometrical objects like Rectangle, Ellipse or Polygon.

A ROI connects a region with a selected SMLM dataset for selected coordinates (or, more general, for localization properties).

ROI specifications can be saved as yaml file.

5.1 Regions

The napari shapes layer provides geometrical objects we call regions (e.g. Rectangle). These shapes can be transformed into corresponding locan regions (e.g. locan.Rectangle). They are independent of any image or SMLM dataset.

To get regions for use in napari-locan:

1) Select a napari shapes layer with shapes.
2) Transform napari shapes into regions by *Get regions*.
3) Make sure the scale parameter of that shapes layer is 1. Depending on layer creation history it might be set to the shapes value of another layer. If so, press *Reset scale* and repeat (2).

5.2 ROIs

When dealing with ROIs we have to distinguish two workflows:

1) Select localizations within a region: for this, define a ROI with reference to a SMLM dataset and press *Apply* to create a new SmlmData with the selection.
2) Save ROI specifications: for this, define a ROI with reference to a localization file and press *Save* to save ROI specifications.

Every ROI specification contains a reference to data, a region definition and a selection of localization properties. It is kept as instance of *locan.Roi(reference, region, loc_properties)*. Before creating a ROI in the Roi widget you have to specify the kind of reference. For *SmlmData* the currently selected SMLM dataset is taken. For *File reference*, a file path and type is extracted from the currently selected SMLM dataset. For *Open dialog* an existing localization file can be selected.

CHAPTER

SIX

API REFERENCE

napari-locan should be used as napari plugin. Therefore, there are not many public functions accessible. For information on backend modules have a look at locan and its documentation. napari-locan consists of the following modules:

data_model	Data models for napari-locan.
sample_data	Sample data for napari
scripts	Example scripts for napari-locan.
widgets	QWidgets for napari-locan.

6.1 napari_locan.data_model

Data models for napari-locan.

6.1.1 Submodules:

data_model_base	Abstract base class for a data model.
filter_specifications	The data model for filter specifications.
region_specifications	The data model for region specifications.
roi_specifications	The data model for region of interest (ROI) specifications.
smlm_data	The data model for localization data

napari_locan.data_model.data_model_base

Abstract base class for a data model.

A data model holds either smlm_data, filter_specifications, regions or other data structures.

The interface provides methods to manipulate the data contents.

Classes

DataModel([datasets, names])	Abstract base class for container classes holding various data structures.
QABCMeta(name, bases, namespace, **kwargs)	

napari_locan.data_model.data_model_base.DataModel

class napari_locan.data_model.data_model_base.**DataModel**(*datasets=None*, *names=None*)

Bases: PyQt5.QtCore.QObject, abc.ABC

Abstract base class for container classes holding various data structures.

Variables

- **count** (*int*) – Monotonically increasing integer counting the overall created datasets.
- **datasets_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **names_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for names
- **index_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **datasets** – Data structures
- **names** – Data structure string identifier
- **index** – Current selection of data structure
- **dataset** – The selected data object
- **name** – The selected data identifier

Methods

__init__([datasets, names])	
append_item(dataset[, name, set_index])	Append a new item to the end of datasets and point index to new dataset if set_index is true.
blockSignals(self, b)	
childEvent(self, a0)	
children(self)	

continues on next page

Table 1 – continued from previous page

connectNotify(self, signal)	
customEvent(self, a0)	
deleteLater(self)	
delete_all()	Delete all datasets and set index to -1.
delete_item()	Delete current dataset and set index to the previous dataset.
disconnect(-> bool)	
disconnectNotify(self, signal)	
dumpObjectInfo(self)	
dumpObjectTree(self)	
dynamicPropertyNames(self)	
event(self, a0)	
eventFilter(self, a0, a1)	
findChild(-> QObjectT)	
findChildren(...)	
inherits(self, classname)	
installEventFilter(self, a0)	
isSignalConnected(self, signal)	
isWidgetType(self)	
isWindowType(self)	
killTimer(self, id)	
metaObject(self)	
moveToThread(self, thread)	
objectName(self)	
parent(self)	
property(self, name)	

continues on next page

Table 1 – continued from previous page

`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`receivers`(self, signal)	
`removeEventFilter`(self, a0)	
`sender`(self)	
`senderSignalIndex`(self)	
`setObjectName`(self, name)	
`setParent`(self, a0)	
`setProperty`(self, name, value)	
`set_datasets_and_names`([datasets, names])	Set datasets and names to the given values and point index to the last item.
`set_index_slot`(value)	QT slot for property self.index.
`signalsBlocked`(self)	
`startTimer`(self, interval[, timerType])	
`thread`(self)	
`timerEvent`(self, a0)	
`tr`(self, sourceText[, disambiguation, n])	

Attributes

count	
dataset	**rtype** `Optional[Any]`
datasets	**rtype** `list[Any]`
datasets_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`destroyed`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
index	**rtype** `int`
index_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
name	**rtype** `str`
names	**rtype** `list[str]`
names_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`objectNameChanged`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`staticMetaObject`	

append_item(*dataset*, *name=None*, *set_index=True*)

Append a new item to the end of datasets and point index to new dataset if set_index is true.

Return type `None`

count: int = 0

property dataset: Optional[Any]

Return type `Optional[Any]`

property datasets: list[Any]

Return type `list[Any]`

datasets_changed_signal: PyQt5.QtCore.pyqtSignal

int = . . . , arguments: Sequence = . . .) -> PYQT_SIGNAL

types is normally a sequence of individual types. Each type is either a type object or a string that is the name of a C++ type. Alternatively each type could itself be a sequence of types each describing a different overloaded signal. name is the optional C++ name of the signal.

If it is not specified then the name of the class attribute that is bound to the signal is used. revision is the optional revision of the signal that is exported to QML. If it is not specified then 0 is used. arguments is the optional sequence of the names of the signal's arguments.

Type pyqtSignal(*types, name

Type str = ..., revision

delete_all()

Delete all datasets and set index to -1.

Return type `None`

delete_item()

Delete current dataset and set index to the previous dataset.

Return type `None`

property index: int

Return type `int`

index_changed_signal: PyQt5.QtCore.pyqtSignal

int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

types is normally a sequence of individual types. Each type is either a type object or a string that is the name of a C++ type. Alternatively each type could itself be a sequence of types each describing a different overloaded signal. name is the optional C++ name of the signal. If it is not specified then the name of the class attribute that is bound to the signal is used. revision is the optional revision of the signal that is exported to QML. If it is not specified then 0 is used. arguments is the optional sequence of the names of the signal's arguments.

Type pyqtSignal(*types, name

Type str = ..., revision

property name: str

Return type `str`

property names: list[str]

Return type `list[str]`

names_changed_signal: PyQt5.QtCore.pyqtSignal

int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

types is normally a sequence of individual types. Each type is either a type object or a string that is the name of a C++ type. Alternatively each type could itself be a sequence of types each describing a different overloaded signal. name is the optional C++ name of the signal. If it is not specified then the name of the class attribute that is bound to the signal is used. revision is the optional revision of the signal that is exported to QML. If it is not specified then 0 is used. arguments is the optional sequence of the names of the signal's arguments.

Type pyqtSignal(*types, name

Type str = ..., revision

set_datasets_and_names(*datasets=None*, *names=None*)

Set datasets and names to the given values and point index to the last item.

Return type None

set_index_slot(*value*)

QT slot for property self.index.

Return type None

napari_locan.data_model.data_model_base.QABCMeta

class napari_locan.data_model.data_model_base.**QABCMeta**(*name*, *bases*, *namespace*, ***kwargs*)

Bases: sip.wrappertype, abc.ABCMeta

Methods

__init__(*args, **kwargs)	

mro()	Return a type's method resolution order.
register(subclass)	Register a virtual subclass of an ABC.

napari_locan.data_model.filter_specifications

The data model for filter specifications.

This module contains a data model to serve as container for filter specifications to select localization property values.

The data model is used by other napari-locan widgets to process localization data and yield new SMLM datasets. It is entirely independent of napari layers.

Classes

FilterSpecifications([datasets, names])	Container for one or more filter specifications.

napari_locan.data_model.filter_specifications.FilterSpecifications

class napari_locan.data_model.filter_specifications.**FilterSpecifications**(*datasets=None*, *names=None*)

Bases: *napari_locan.data_model.data_model_base.DataModel*

Container for one or more filter specifications.

Variables

- **datasets_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index

- **names_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for names
- **index_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **datasets** – Data structures
- **names** – Data structure string identifier
- **index** – Current selection of data structure
- **dataset** – The selected data object
- **name** – The selected data identifier

Methods

`__init__`([datasets, names])	
`append_item`(dataset[, name, set_index])	Append a new item to the end of datasets and point index to new dataset if set_index is true.
`blockSignals`(self, b)	
`childEvent`(self, a0)	
`children`(self)	
`connectNotify`(self, signal)	
`customEvent`(self, a0)	
`deleteLater`(self)	
`delete_all`()	Delete all datasets and set index to -1.
`delete_item`()	Delete current dataset and set index to the previous dataset.
`disconnect`(-> bool)	
`disconnectNotify`(self, signal)	
`dumpObjectInfo`(self)	
`dumpObjectTree`(self)	
`dynamicPropertyNames`(self)	
`event`(self, a0)	
`eventFilter`(self, a0, a1)	

continues on next page

Table 2 – continued from previous page

`findChild`(-> QObjectT)	
`findChildren`(...)	
`inherits`(self, classname)	
`installEventFilter`(self, a0)	
`isSignalConnected`(self, signal)	
`isWidgetType`(self)	
`isWindowType`(self)	
`killTimer`(self, id)	
`metaObject`(self)	
`moveToThread`(self, thread)	
`objectName`(self)	
`parent`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`receivers`(self, signal)	
`removeEventFilter`(self, a0)	
`sender`(self)	
`senderSignalIndex`(self)	
`setObjectName`(self, name)	
`setParent`(self, a0)	
`setProperty`(self, name, value)	
`set_datasets_and_names`([datasets, names])	Set datasets and names to the given values and point index to the last item.
`set_index_slot`(value)	QT slot for property self.index.
`signalsBlocked`(self)	
`startTimer`(self, interval[, timerType])	

continues on next page

Table 2 – continued from previous page

thread(self)	
timerEvent(self, a0)	
tr(self, sourceText[, disambiguation, n])	

Attributes

count	
dataset	**rtype** Optional[Any]
datasets	**rtype** list[Any]
datasets_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
filter_condition	**rtype** str
index	**rtype** int
index_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
name	**rtype** str
names	**rtype** list[str]
names_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	

property filter_condition: str

Return type str

napari_locan.data_model.region_specifications

The data model for region specifications.

This module contains a data model to serve as container for region specifications.

The data model is used by other napari-locan widgets to process localization data. It is entirely independent of napari layers.

Classes

RegionSpecifications([datasets, names])	Container for one or more region specifications.

napari_locan.data_model.region_specifications.RegionSpecifications

class napari_locan.data_model.region_specifications.**RegionSpecifications**(*datasets=None*, *names=None*)

Bases: *napari_locan.data_model.data_model_base.DataModel*

Container for one or more region specifications.

Variables

- **datasets_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **names_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for names
- **index_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **datasets** – Data structures
- **names** – Data structure string identifier
- **index** – Current selection of data structure
- **dataset** – The selected data object
- **name** – The selected data identifier

Methods

__init__([datasets, names])	
append_item(dataset[, name, set_index])	Append a new item to the end of datasets and point index to new dataset if set_index is true.
blockSignals(self, b)	
childEvent(self, a0)	

continues on next page

Table 3 – continued from previous page

children(self)	
connectNotify(self, signal)	
customEvent(self, a0)	
deleteLater(self)	
delete_all()	Delete all datasets and set index to -1.
delete_item()	Delete current dataset and set index to the previous dataset.
disconnect(-> bool)	
disconnectNotify(self, signal)	
dumpObjectInfo(self)	
dumpObjectTree(self)	
dynamicPropertyNames(self)	
event(self, a0)	
eventFilter(self, a0, a1)	
findChild(-> QObjectT)	
findChildren(...)	
inherits(self, classname)	
installEventFilter(self, a0)	
isSignalConnected(self, signal)	
isWidgetType(self)	
isWindowType(self)	
killTimer(self, id)	
metaObject(self)	
moveToThread(self, thread)	
objectName(self)	
parent(self)	

continues on next page

Table 3 – continued from previous page

`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`receivers`(self, signal)	
`removeEventFilter`(self, a0)	
`sender`(self)	
`senderSignalIndex`(self)	
`setObjectName`(self, name)	
`setParent`(self, a0)	
`setProperty`(self, name, value)	
`set_datasets_and_names`([datasets, names])	Set datasets and names to the given values and point index to the last item.
`set_index_slot`(value)	QT slot for property self.index.
`signalsBlocked`(self)	
`startTimer`(self, interval[, timerType])	
`thread`(self)	
`timerEvent`(self, a0)	
`tr`(self, sourceText[, disambiguation, n])	

Attributes

`count`	
`dataset`	**rtype** `Optional[Any]`
`datasets`	**rtype** `list[Any]`
`datasets_changed_signal`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`destroyed`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`index`	**rtype** `int`
`index_changed_signal`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`name`	**rtype** `str`
`names`	**rtype** `list[str]`
`names_changed_signal`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`objectNameChanged`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`staticMetaObject`	

napari_locan.data_model.roi_specifications

The data model for region of interest (ROI) specifications.

This module contains a data model to serve as container for ROI specifications.

The data model is used by other napari-locan widgets to process localization data. It is entirely independent of napari layers.

Classes

RoiSpecifications([datasets, names])	Container for one or more ROI specifications.

napari_locan.data_model.roi_specifications.RoiSpecifications

class napari_locan.data_model.roi_specifications.**RoiSpecifications**(*datasets=None*, *names=None*)

Bases: *napari_locan.data_model.data_model_base.DataModel*

Container for one or more ROI specifications.

Variables

- **datasets_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **names_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for names
- **index_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **datasets** – Data structures
- **names** – Data structure string identifier
- **index** – Current selection of data structure
- **dataset** – The selected data object
- **name** – The selected data identifier

Methods

`__init__`([datasets, names])	
`append_item`(dataset[, name, set_index])	Append a new item to the end of datasets and point index to new dataset if set_index is true.
`blockSignals`(self, b)	
`childEvent`(self, a0)	
`children`(self)	
`connectNotify`(self, signal)	
`customEvent`(self, a0)	
`deleteLater`(self)	

continues on next page

Table 4 – continued from previous page

`delete_all()`	Delete all datasets and set index to -1.
`delete_item()`	Delete current dataset and set index to the previous dataset.
`disconnect`(-> bool)	
`disconnectNotify`(self, signal)	
`dumpObjectInfo`(self)	
`dumpObjectTree`(self)	
`dynamicPropertyNames`(self)	
`event`(self, a0)	
`eventFilter`(self, a0, a1)	
`findChild`(-> QObjectT)	
`findChildren`(...)	
`inherits`(self, classname)	
`installEventFilter`(self, a0)	
`isSignalConnected`(self, signal)	
`isWidgetType`(self)	
`isWindowType`(self)	
`killTimer`(self, id)	
`metaObject`(self)	
`moveToThread`(self, thread)	
`objectName`(self)	
`parent`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`receivers`(self, signal)	
`removeEventFilter`(self, a0)	

continues on next page

Table 4 – continued from previous page

`sender`(self)	
`senderSignalIndex`(self)	
`setObjectName`(self, name)	
`setParent`(self, a0)	
`setProperty`(self, name, value)	
`set_datasets_and_names`([datasets, names])	Set datasets and names to the given values and point index to the last item.
`set_index_slot`(value)	QT slot for property self.index.
`signalsBlocked`(self)	
`startTimer`(self, interval[, timerType])	
`thread`(self)	
`timerEvent`(self, a0)	
`tr`(self, sourceText[, disambiguation, n])	

Attributes

`count`	
`dataset`	**rtype** `Optional[Any]`
`datasets`	**rtype** `list[Any]`
`datasets_changed_signal`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`destroyed`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`index`	**rtype** `int`
`index_changed_signal`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`name`	**rtype** `str`
`names`	**rtype** `list[str]`
`names_changed_signal`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`objectNameChanged`	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
`staticMetaObject`	

napari_locan.data_model.smlm_data

The data model for localization data

This module contains a data model to serve as container for SMLM data. The individual SMLM datasets are provided as `locan.LocData` instances.

SMLM data serves as data model for other napari-locan widgets to process or render the localization data. It is entirely independent of napari layers. Upon rendering a SMLM dataset a new image is created in a new napari layer.

Classes

SmlmData([locdatas, locdata_names])	Container for one or more LocData objects.

napari_locan.data_model.smlm_data.SmlmData

class napari_locan.data_model.smlm_data.**SmlmData**(*locdatas=None*, *locdata_names=None*)

Bases: PyQt5.QtCore.QObject

Container for one or more LocData objects.

Variables

- **index_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for index
- **locdata_names_changed_signal** (*PyQt5.QtCore.pyqtSignal*) – A Qt signal for locdata_names
- **locdatas** – Localization datasets
- **locdata_names** – Localization string identifier
- **index** – Current selection of locdatas
- **locdata** – The selected LocData object
- **locdata_name** – The selected LocData identifier

Methods

__init__([locdatas, locdata_names])	
append_item(locdata[, locdata_name, set_index])	**rtype** None
blockSignals(self, b)	
childEvent(self, a0)	
children(self)	
connectNotify(self, signal)	
customEvent(self, a0)	
deleteLater(self)	

continues on next page

Table 5 – continued from previous page

delete_all()	**rtype** None
delete_item()	**rtype** None
disconnect(-> bool)	
disconnectNotify(self, signal)	
dumpObjectInfo(self)	
dumpObjectTree(self)	
dynamicPropertyNames(self)	
event(self, a0)	
eventFilter(self, a0, a1)	
findChild(-> QObjectT)	
findChildren(...)	
inherits(self, classname)	
installEventFilter(self, a0)	
isSignalConnected(self, signal)	
isWidgetType(self)	
isWindowType(self)	
killTimer(self, id)	
metaObject(self)	
moveToThread(self, thread)	
objectName(self)	
parent(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.

continues on next page

Table 5 – continued from previous page

receivers(self, signal)	
removeEventFilter(self, a0)	
sender(self)	
senderSignalIndex(self)	
setObjectName(self, name)	
setParent(self, a0)	
setProperty(self, name, value)	
set_index_slot(value)	QT slot for property self.index.
signalsBlocked(self)	
startTimer(self, interval[, timerType])	
thread(self)	
timerEvent(self, a0)	
tr(self, sourceText[, disambiguation, n])	

Attributes

destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
index	**rtype** int
index_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
locdata	**rtype** Optional[LocData]
locdata_name	**rtype** str
locdata_names	**rtype** list[str]
locdata_names_changed_signal	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
locdatas	**rtype** list[LocData]
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	

append_item(*locdata*, *locdata_name=None*, *set_index=True*)

Return type None

delete_all()

Return type None

delete_item()

Return type None

property index: int

Return type int

index_changed_signal: PyQt5.QtCore.pyqtSignal

int = . . . , arguments: Sequence = . . .) -> PYQT_SIGNAL

types is normally a sequence of individual types. Each type is either a type object or a string that is the name of a C++ type. Alternatively each type could itself be a sequence of types each describing a different overloaded signal. name is the optional C++ name of the signal. If it is not specified then the name of the class attribute that is bound to the signal is used. revision is the optional revision of the signal that is exported to QML. If it is not specified then 0 is used. arguments is the optional sequence of the names of the signal's arguments.

Type pyqtSignal(*types, name

Type str = ..., revision

property locdata: locan.data.locdata.LocData | None

Return type `Optional[LocData]`

property locdata_name: str

Return type `str`

property locdata_names: list[str]

Return type `list[str]`

locdata_names_changed_signal: PyQt5.QtCore.pyqtSignal

int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

types is normally a sequence of individual types. Each type is either a type object or a string that is the name of a C++ type. Alternatively each type could itself be a sequence of types each describing a different overloaded signal. name is the optional C++ name of the signal. If it is not specified then the name of the class attribute that is bound to the signal is used. revision is the optional revision of the signal that is exported to QML. If it is not specified then 0 is used. arguments is the optional sequence of the names of the signal's arguments.

Type pyqtSignal(*types, name

Type str = ..., revision

property locdatas: list[locan.data.locdata.LocData]

Return type `list[LocData]`

set_index_slot(*value*)

QT slot for property self.index.

Return type `None`

6.2 napari_locan.sample_data

Sample data for napari

6.2.1 Submodules:

sample_data	SMLM sample data

napari_locan.sample_data.sample_data

SMLM sample data

This module provides SMLM sample data as could be generated with napari-locan.

It implements the "sample data" specification. see: "https://napari.org/stable/plugins/guides.html/?/#sample-data"

Functions

make_image_npc([smlm_data])	Generate a sample image from *locan.datasets.load_npc*.
make_image_tubulin([smlm_data])	Generate a sample image from *locan.datasets.load_tubulin*.
make_points_npc([smlm_data])	Generate localizations from *locan.datasets.load_npc*.
make_points_tubulin([smlm_data])	Generate localizations from *locan.datasets.load_tubulin*.

napari_locan.sample_data.sample_data.make_image_npc

napari_locan.sample_data.sample_data.**make_image_npc**(*smlm_data=<napari_locan.data_model.smlm_data object>*)

Generate a sample image from *locan.datasets.load_npc*.

Return type `list[Union[Tuple[Any], Tuple[Any, Dict], Tuple[Any, Dict, Literal['image', 'labels', 'points', 'shapes', 'surface', 'tracks', 'vectors']]]]`

napari_locan.sample_data.sample_data.make_image_tubulin

napari_locan.sample_data.sample_data.**make_image_tubulin**(*smlm_data=<napari_locan.data_model.smlm_ object>*)

Generate a sample image from *locan.datasets.load_tubulin*.

Return type `list[Union[Tuple[Any], Tuple[Any, Dict], Tuple[Any, Dict, Literal['image', 'labels', 'points', 'shapes', 'surface', 'tracks', 'vectors']]]]`

napari_locan.sample_data.sample_data.make_points_npc

napari_locan.sample_data.sample_data.**make_points_npc**(*smlm_data=<napari_locan.data_model.smlm_dat object>*)

Generate localizations from *locan.datasets.load_npc*.

Return type `list[Union[Tuple[Any], Tuple[Any, Dict], Tuple[Any, Dict, Literal['image', 'labels', 'points', 'shapes', 'surface', 'tracks', 'vectors']]]]`

napari_locan.sample_data.sample_data.make_points_tubulin

napari_locan.sample_data.sample_data.**make_points_tubulin**(*smlm_data=<napari_locan.data_model.smlm object>*)

Generate localizations from *locan.datasets.load_tubulin*.

Return type list[Union[Tuple[Any], Tuple[Any, Dict], Tuple[Any, Dict, Literal['image', 'labels', 'points', 'shapes', 'surface', 'tracks', 'vectors']]]]

6.3 napari_locan.scripts

Example scripts for napari-locan.

This module contains python scripts to be run from within the plugin.

6.4 napari_locan.widgets

QWidgets for napari-locan.

6.4.1 Submodules:

widget_clustering	Compute localization clusters.
widget_filter_specifications	The data model for filter specifications.
widget_load	Load SMLM data files.
widget_napari_locan_project	Save and load the current state of napari-locan.
widget_property_distribution	Show localization property distribution.
widget_render_collection_2d	Render collection of SMLM data as 2d point clouds.
widget_render_collection_features	Render selected features of all SMLM datasets in a collection.
widget_render_features	Render selected features of a SMLM dataset.
widget_render_image_2d	Render 2d image.
widget_render_image_3d	Render 3d image.
widget_render_points_2d	Render 2d point cloud.
widget_render_points_3d	Render 3d point cloud.
widget_roi	Create regions of interest.
widget_run_script	Run python script.
widget_select	Select localizations from SMLM dataset.
widget_show_data	Show data statistics for a SMLM dataset.
widget_show_metadata	Show metadata for a SMLM dataset.
widget_show_properties	Show locdata properties for a SMLM dataset.
widget_smlm_data	The data model for localization-based SMLM data.

napari_locan.widgets.widget_clustering

Compute localization clusters.

QWidget plugin for clustering SMLM data. More advanced clustering routines are available through locan-based scripts.

Classes

ClusteringQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_clustering.ClusteringQWidget

class napari_locan.widgets.widget_clustering.**ClusteringQWidget**(*napari_viewer*, *smlm_data=<napari_locan.data_mo object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])	
acceptDrops(self)	
accessibleDescription(self)	
accessibleName(self)	
actionEvent(self, a0)	
actions(self)	
activateWindow(self)	
addAction(self, action)	
addActions(self, actions)	
adjustSize(self)	
autoFillBackground(self)	
backgroundRole(self)	

continues on next page

Table 6 – continued from previous page

`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)

continues on next page

Table 6 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 6 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 6 – continued from previous page

`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)

continues on next page

Table 6 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 6 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 6 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 6 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 6 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 6 – continued from previous page

`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])
`setWindowFlags`(self, type)
`setWindowIcon`(self, icon)
`setWindowIconText`(self, a0)
`setWindowModality`(self, windowModality)
`setWindowModified`(self, a0)
`setWindowOpacity`(self, level)
`setWindowRole`(self, a0)
`setWindowState`(self, state)
`setWindowTitle`(self, a0)

continues on next page

Table 6 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 6 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 6 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_filter_specifications

The data model for filter specifications.

A QWidget plugin to list filter specifications that can be applied to select localizations from a SMLM dataset.

Classes

FilterSpecificationsQWidget(napari_viewer[, ...])	

napari_locan.widgets.widget_filter_specifications.FilterSpecificationsQWidget

class napari_locan.widgets.widget_filter_specifications.**FilterSpecificationsQWidget**(*napari_viewer*, *smlm_data_object*, *filter_specifications_object*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data, ...])	
acceptDrops(self)	
accessibleDescription(self)	
accessibleName(self)	
actionEvent(self, a0)	
actions(self)	
activateWindow(self)	
addAction(self, action)	
addActions(self, actions)	
adjustSize(self)	

continues on next page

Table 7 – continued from previous page

autoFillBackground(self)
backgroundRole(self)
baseSize(self)
blockSignals(self, b)
changeEvent(self, a0)
childAt(-> Optional[QWidget])
childEvent(self, a0)
children(self)
childrenRect(self)
childrenRegion(self)
clearFocus(self)
clearMask(self)
close(self)
closeEvent(self, a0)
colorCount(self)
connectNotify(self, signal)
contentsMargins(self)
contentsRect(self)
contextMenuEvent(self, a0)
contextMenuPolicy(self)
create(self[, window, initializeWindow, ...])
createWindowContainer(window[, parent, flags])
cursor(self)
customEvent(self, a0)

continues on next page

Table 7 – continued from previous page

deleteLater(self)
depth(self)
destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)

continues on next page

Table 7 – continued from previous page

focusInEvent(self, a0)
focusNextChild(self)
focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)

continues on next page

Table 7 – continued from previous page

hasHeightForWidth(self)
hasMouseTracking(self)
hasTabletTracking(self)
height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)

continues on next page

Table 7 – continued from previous page

isMinimized(self)
isModal(self)
isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)

continues on next page

Table 7 – continued from previous page

mapTo(self, a0, a1)
mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)

continues on next page

Table 7 – continued from previous page

normalGeometry(self)	
objectName(self)	
overrideWindowFlags(self, type)	
overrideWindowState(self, state)	
paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	
receivers(self, signal)	
rect(self)	
releaseKeyboard(self)	
releaseMouse(self)	
releaseShortcut(self, id)	
removeAction(self, action)	
removeEventFilter(self, a0)	

continues on next page

Table 7 – continued from previous page

`render`(, sourceRegion, flags, ...)
`repaint`(-> None -> None)
`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()

continues on next page

Table 7 – continued from previous page

setFixedWidth(self, w)
setFocus()
setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()

continues on next page

Table 7 – continued from previous page

`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])
`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])
`setWindowFlags`(self, type)
`setWindowIcon`(self, icon)
`setWindowIconText`(self, a0)
`setWindowModality`(self, windowModality)
`setWindowModified`(self, a0)
`setWindowOpacity`(self, level)
`setWindowRole`(self, a0)

continues on next page

Table 7 – continued from previous page

setWindowState(self, state)
setWindowTitle(self, a0)
sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)

continues on next page

Table 7 – continued from previous page

`toolTipDuration`(self)
`tr`(self, sourceText[, disambiguation, n])
`underMouse`(self)
`ungrabGesture`(self, type)
`unsetCursor`(self)
`unsetLayoutDirection`(self)
`unsetLocale`(self)
`update`(-> None -> None)
`updateGeometry`(self)
`updateMicroFocus`(self)
`updatesEnabled`(self)
`visibleRegion`(self)
`whatsThis`(self)
`wheelEvent`(self, a0)
`width`(self)
`widthMM`(self)
`winId`(self)
`window`(self)
`windowFilePath`(self)
`windowFlags`(self)
`windowHandle`(self)
`windowIcon`(self)
`windowIconText`(self)
`windowModality`(self)

continues on next page

Table 7 – continued from previous page

`windowOpacity`(self)
`windowRole`(self)
`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_load

Load SMLM data files.

A QWidget plugin to load SMLM data files into the SMLM data model. A new SMLM dataset will be created.

Classes

LoadQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_load.LoadQWidget

class napari_locan.widgets.widget_load.**LoadQWidget**(*napari_viewer*, *smlm_data=<napari_locan.data_model.smlm_data.S object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])	
acceptDrops(self)	
accessibleDescription(self)	
accessibleName(self)	
actionEvent(self, a0)	
actions(self)	
activateWindow(self)	
addAction(self, action)	
addActions(self, actions)	
adjustSize(self)	
autoFillBackground(self)	
backgroundRole(self)	

continues on next page

Table 8 – continued from previous page

`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)

continues on next page

Table 8 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 8 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 8 – continued from previous page

`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)

continues on next page

Table 8 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 8 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 8 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 8 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 8 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 8 – continued from previous page

setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)

continues on next page

Table 8 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 8 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 8 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_napari_locan_project

Save and load the current state of napari-locan.

QWidget plugin to save and load the napari-locan state, which currently includes the following data models

1) filter_specifications
2) region_specifications
3) roi_specifications
4) smlm_data

The data is serialized by the pickle module using protocol 5.

Classes

NapariLocanProjectQWidget(napari_viewer[, ...])	

napari_locan.widgets.widget_napari_locan_project.NapariLocanProjectQWidget

class napari_locan.widgets.widget_napari_locan_project.**NapariLocanProjectQWidget**(*napari_viewe fil- ter_specificat ob- ject>, re- gion_specific ob- ject>, roi_specificat ob- ject>, smlm_data=< ob- ject>*)

Bases: `PyQt5.QtWidgets.QWidget`

Methods

`__init__`(napari_viewer[, ...])	
`acceptDrops`(self)	
`accessibleDescription`(self)	

continues on next page

Table 9 – continued from previous page

accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)
baseSize(self)
blockSignals(self, b)
changeEvent(self, a0)
childAt(-> Optional[QWidget])
childEvent(self, a0)
children(self)
childrenRect(self)
childrenRegion(self)
clearFocus(self)
clearMask(self)
close(self)
closeEvent(self, a0)
colorCount(self)
connectNotify(self, signal)
contentsMargins(self)

continues on next page

Table 9 – continued from previous page

contentsRect(self)
contextMenuEvent(self, a0)
contextMenuPolicy(self)
create(self[, window, initializeWindow, ...])
createWindowContainer(window[, parent, flags])
cursor(self)
customEvent(self, a0)
deleteLater(self)
depth(self)
destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)

continues on next page

Table 9 – continued from previous page

`ensurePolished`(self)
`enterEvent`(self, a0)
`event`(self, a0)
`eventFilter`(self, a0, a1)
`find`(a0)
`findChild`(-> QObjectT)
`findChildren`(...)
`focusInEvent`(self, a0)
`focusNextChild`(self)
`focusNextPrevChild`(self, next)
`focusOutEvent`(self, a0)
`focusPolicy`(self)
`focusPreviousChild`(self)
`focusProxy`(self)
`focusWidget`(self)
`font`(self)
`fontInfo`(self)
`fontMetrics`(self)
`foregroundRole`(self)
`frameGeometry`(self)
`frameSize`(self)
`geometry`(self)
`getContentsMargins`(self)
`grab`(self[, rectangle])

continues on next page

Table 9 – continued from previous page

grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)
hasTabletTracking(self)
height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)

continues on next page

Table 9 – continued from previous page

isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)
isModal(self)
isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)

continues on next page

Table 9 – continued from previous page

locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)

continues on next page

Table 9 – continued from previous page

mouseReleaseEvent(self, a0)	
move()	
moveEvent(self, a0)	
moveToThread(self, thread)	
nativeEvent(self, eventType, message)	
nativeParentWidget(self)	
nextInFocusChain(self)	
normalGeometry(self)	
objectName(self)	
overrideWindowFlags(self, type)	
overrideWindowState(self, state)	
paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	

continues on next page

Table 9 – continued from previous page

receivers(self, signal)
rect(self)
releaseKeyboard(self)
releaseMouse(self)
releaseShortcut(self, id)
removeAction(self, action)
removeEventFilter(self, a0)
render(, sourceRegion, flags, ...)
repaint(-> None -> None)
resize()
resizeEvent(self, a0)
restoreGeometry(self, geometry)
saveGeometry(self)
screen(self)
scroll()
sender(self)
senderSignalIndex(self)
setAcceptDrops(self, on)
setAccessibleDescription(self, description)
setAccessibleName(self, name)
setAttribute(self, attribute[, on])
setAutoFillBackground(self, enabled)
setBackgroundRole(self, a0)
setBaseSize()

continues on next page

Table 9 – continued from previous page

setContentsMargins()
setContextMenuPolicy(self, policy)
setCursor(self, a0)
setDisabled(self, a0)
setEnabled(self, a0)
setFixedHeight(self, h)
setFixedSize()
setFixedWidth(self, w)
setFocus()
setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)

continues on next page

Table 9 – continued from previous page

`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])
`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])

continues on next page

Table 9 – continued from previous page

setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)
sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)

continues on next page

Table 9 – continued from previous page

`style`(self)
`styleSheet`(self)
`tabletEvent`(self, a0)
`testAttribute`(self, attribute)
`thread`(self)
`timerEvent`(self, a0)
`toolTip`(self)
`toolTipDuration`(self)
`tr`(self, sourceText[, disambiguation, n])
`underMouse`(self)
`ungrabGesture`(self, type)
`unsetCursor`(self)
`unsetLayoutDirection`(self)
`unsetLocale`(self)
`update`(-> None -> None)
`updateGeometry`(self)
`updateMicroFocus`(self)
`updatesEnabled`(self)
`visibleRegion`(self)
`whatsThis`(self)
`wheelEvent`(self, a0)
`width`(self)
`widthMM`(self)
`winId`(self)

continues on next page

Table 9 – continued from previous page

`window`(self)
`windowFilePath`(self)
`windowFlags`(self)
`windowHandle`(self)
`windowIcon`(self)
`windowIconText`(self)
`windowModality`(self)
`windowOpacity`(self)
`windowRole`(self)
`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_property_distribution

Show localization property distribution.

A QWidget plugin to show localization property distributions

Classes

PropertyDistributionQWidget(napari_viewer[, ...])	

napari_locan.widgets.widget_property_distribution.PropertyDistributionQWidget

class napari_locan.widgets.widget_property_distribution.**PropertyDistributionQWidget**(*napari_viewer*, *smlm_data=<object>*, *parent=None*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data, parent])	
acceptDrops(self)	
accessibleDescription(self)	
accessibleName(self)	
actionEvent(self, a0)	
actions(self)	
activateWindow(self)	
addAction(self, action)	
addActions(self, actions)	
adjustSize(self)	
autoFillBackground(self)	

continues on next page

Table 10 – continued from previous page

`backgroundRole`(self)
`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)

continues on next page

Table 10 – continued from previous page

depth(self)
destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)

continues on next page

Table 10 – continued from previous page

focusNextChild(self)
focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)

continues on next page

Table 10 – continued from previous page

`hasMouseTracking`(self)
`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)

continues on next page

Table 10 – continued from previous page

isModal(self)
isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)

continues on next page

Table 10 – continued from previous page

mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)

continues on next page

Table 10 – continued from previous page

objectName(self)	
overrideWindowFlags(self, type)	
overrideWindowState(self, state)	
paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	
receivers(self, signal)	
rect(self)	
releaseKeyboard(self)	
releaseMouse(self)	
releaseShortcut(self, id)	
removeAction(self, action)	
removeEventFilter(self, a0)	
render(, sourceRegion, flags, ...)	

continues on next page

Table 10 – continued from previous page

`repaint`(-> None -> None)
`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)

continues on next page

Table 10 – continued from previous page

setFocus()
setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)

continues on next page

Table 10 – continued from previous page

`setShortcutAutoRepeat`(self, id[, enabled])
`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])
`setWindowFlags`(self, type)
`setWindowIcon`(self, icon)
`setWindowIconText`(self, a0)
`setWindowModality`(self, windowModality)
`setWindowModified`(self, a0)
`setWindowOpacity`(self, level)
`setWindowRole`(self, a0)
`setWindowState`(self, state)

continues on next page

Table 10 – continued from previous page

setWindowTitle(self, a0)
sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)

continues on next page

Table 10 – continued from previous page

tr(self, sourceText[, disambiguation, n])
underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)

continues on next page

Table 10 – continued from previous page

`windowRole`(self)
`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_render_collection_2d

Render collection of SMLM data as 2d point clouds.

A QWidget plugin to render a collection of SMLM data (e.g. a cluster collection) as series of point clouds in 2d.

Classes

RenderCollection2dQWidget(napari_viewer[, ...])	

napari_locan.widgets.widget_render_collection_2d.RenderCollection2dQWidget

class napari_locan.widgets.widget_render_collection_2d.**RenderCollection2dQWidget**(*napari_viewer, smlm_data=<object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])	
acceptDrops(self)	
accessibleDescription(self)	
accessibleName(self)	
actionEvent(self, a0)	
actions(self)	
activateWindow(self)	
addAction(self, action)	
addActions(self, actions)	
adjustSize(self)	
autoFillBackground(self)	
backgroundRole(self)	

continues on next page

Table 11 – continued from previous page

`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)

continues on next page

Table 11 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 11 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 11 – continued from previous page

`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)

continues on next page

Table 11 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 11 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 11 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 11 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 11 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 11 – continued from previous page

setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)

continues on next page

Table 11 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 11 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 11 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_render_collection_features

Render selected features of all SMLM datasets in a collection.

A QWidget plugin to represent collection features including centroid, bounding box, oriented bounding box, convex hull and alpha shape. The SMLM datasets must be kept in a Locdata collection (locdata.references).

Classes

RenderCollectionFeaturesQWidget(napari_viewer)

napari_locan.widgets.widget_render_collection_features.RenderCollectionFeaturesQWidget

class napari_locan.widgets.widget_render_collection_features.**RenderCollectionFeaturesQWidget**

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)

continues on next page

Table 12 – continued from previous page

`backgroundRole`(self)
`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)

continues on next page

Table 12 – continued from previous page

depth(self)
destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)

continues on next page

Table 12 – continued from previous page

focusNextChild(self)
focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)

continues on next page

Table 12 – continued from previous page

`hasMouseTracking`(self)
`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)

continues on next page

Table 12 – continued from previous page

isModal(self)
isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)

continues on next page

Table 12 – continued from previous page

mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)

continues on next page

Table 12 – continued from previous page

objectName(self)	
overrideWindowFlags(self, type)	
overrideWindowState(self, state)	
paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	
receivers(self, signal)	
rect(self)	
releaseKeyboard(self)	
releaseMouse(self)	
releaseShortcut(self, id)	
removeAction(self, action)	
removeEventFilter(self, a0)	
render(, sourceRegion, flags, ...)	

continues on next page

Table 12 – continued from previous page

`repaint`(-> None -> None)
`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)

continues on next page

Table 12 – continued from previous page

setFocus()
setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)

continues on next page

Table 12 – continued from previous page

`setShortcutAutoRepeat`(self, id[, enabled])
`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])
`setWindowFlags`(self, type)
`setWindowIcon`(self, icon)
`setWindowIconText`(self, a0)
`setWindowModality`(self, windowModality)
`setWindowModified`(self, a0)
`setWindowOpacity`(self, level)
`setWindowRole`(self, a0)
`setWindowState`(self, state)

continues on next page

Table 12 – continued from previous page

setWindowTitle(self, a0)
sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)

continues on next page

Table 12 – continued from previous page

tr(self, sourceText[, disambiguation, n])
underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)

continues on next page

Table 12 – continued from previous page

`windowRole`(self)
`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_render_features

Render selected features of a SMLM dataset.

A QWidget plugin to represent locdata features including centroid, bounding box, oriented bounding box, convex hull and alpha shape.

Classes

RenderFeaturesQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_render_features.RenderFeaturesQWidget

class napari_locan.widgets.widget_render_features.**RenderFeaturesQWidget**(*napari_viewer*, *smlm_data=<napari_loc ob- ject>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)

continues on next page

Table 13 – continued from previous page

baseSize(self)
blockSignals(self, b)
changeEvent(self, a0)
childAt(-> Optional[QWidget])
childEvent(self, a0)
children(self)
childrenRect(self)
childrenRegion(self)
clearFocus(self)
clearMask(self)
close(self)
closeEvent(self, a0)
colorCount(self)
connectNotify(self, signal)
contentsMargins(self)
contentsRect(self)
contextMenuEvent(self, a0)
contextMenuPolicy(self)
create(self[, window, initializeWindow, ...])
createWindowContainer(window[, parent, flags])
cursor(self)
customEvent(self, a0)
deleteLater(self)
depth(self)

continues on next page

Table 13 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 13 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 13 – continued from previous page

`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)

continues on next page

Table 13 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 13 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 13 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 13 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 13 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 13 – continued from previous page

setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)

continues on next page

Table 13 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 13 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 13 – continued from previous page

`windowState`(self)	
`windowTitle`(self)	
`windowType`(self)	
`x`(self)	
`y`(self)	

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_render_image_2d

Render 2d image.

A QWidget plugin to render SMLM data as image by binning localization properties into 2d pixels.

Classes

RenderImage2dQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_render_image_2d.RenderImage2dQWidget

class napari_locan.widgets.widget_render_image_2d.**RenderImage2dQWidget**(*napari_viewer*, *smlm_data=<napari_loca object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)
baseSize(self)

continues on next page

Table 14 – continued from previous page

`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)
`destroy`(self[, destroyWindow, destroySubWindows])

continues on next page

Table 14 – continued from previous page

devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)
focusNextPrevChild(self, next)

continues on next page

Table 14 – continued from previous page

focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)
hasTabletTracking(self)

continues on next page

Table 14 – continued from previous page

height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)
isModal(self)
isRightToLeft(self)

continues on next page

Table 14 – continued from previous page

isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)
mapToParent(self, a0)

continues on next page

Table 14 – continued from previous page

mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)
overrideWindowFlags(self, type)

continues on next page

Table 14 – continued from previous page

`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	
`resize`()	

continues on next page

Table 14 – continued from previous page

`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()
`setFocusPolicy`(self, policy)

continues on next page

Table 14 – continued from previous page

setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)
setShortcutAutoRepeat(self, id[, enabled])
setShortcutEnabled(self, id[, enabled])

continues on next page

Table 14 – continued from previous page

setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)
sharedPainter(self)

continues on next page

Table 14 – continued from previous page

show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])
underMouse(self)

continues on next page

Table 14 – continued from previous page

ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)
windowState(self)

continues on next page

Table 14 – continued from previous page

`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_render_image_3d

Render 3d image.

A QWidget plugin to render SMLM data as image by binning localization properties into 3d pixels.

Classes

RenderImage3dQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_render_image_3d.RenderImage3dQWidget

class napari_locan.widgets.widget_render_image_3d.**RenderImage3dQWidget**(*napari_viewer*, *smlm_data=<napari_loca object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)
baseSize(self)

continues on next page

Table 15 – continued from previous page

`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)
`destroy`(self[, destroyWindow, destroySubWindows])

continues on next page

Table 15 – continued from previous page

devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)
focusNextPrevChild(self, next)

continues on next page

Table 15 – continued from previous page

focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)
hasTabletTracking(self)

continues on next page

Table 15 – continued from previous page

height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)
isModal(self)
isRightToLeft(self)

continues on next page

Table 15 – continued from previous page

isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)
mapToParent(self, a0)

continues on next page

Table 15 – continued from previous page

mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)
overrideWindowFlags(self, type)

continues on next page

Table 15 – continued from previous page

`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	
`resize`()	

continues on next page

Table 15 – continued from previous page

`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()
`setFocusPolicy`(self, policy)

continues on next page

Table 15 – continued from previous page

setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)
setShortcutAutoRepeat(self, id[, enabled])
setShortcutEnabled(self, id[, enabled])

continues on next page

Table 15 – continued from previous page

setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)
sharedPainter(self)

continues on next page

Table 15 – continued from previous page

show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])
underMouse(self)

continues on next page

Table 15 – continued from previous page

ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)
windowState(self)

continues on next page

Table 15 – continued from previous page

`windowTitle`(self)	
`windowType`(self)	
`x`(self)	
`y`(self)	

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_render_points_2d

Render 2d point cloud.

A QWidget plugin to render SMLM data in 2d.

Classes

RenderPoints2dQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_render_points_2d.RenderPoints2dQWidget

class napari_locan.widgets.widget_render_points_2d.**RenderPoints2dQWidget**(*napari_viewer*, *smlm_data=<napari_lo ob- ject>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)

continues on next page

Table 16 – continued from previous page

baseSize(self)
blockSignals(self, b)
changeEvent(self, a0)
childAt(-> Optional[QWidget])
childEvent(self, a0)
children(self)
childrenRect(self)
childrenRegion(self)
clearFocus(self)
clearMask(self)
close(self)
closeEvent(self, a0)
colorCount(self)
connectNotify(self, signal)
contentsMargins(self)
contentsRect(self)
contextMenuEvent(self, a0)
contextMenuPolicy(self)
create(self[, window, initializeWindow, ...])
createWindowContainer(window[, parent, flags])
cursor(self)
customEvent(self, a0)
deleteLater(self)
depth(self)

continues on next page

Table 16 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 16 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 16 – continued from previous page

`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)

continues on next page

Table 16 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 16 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 16 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 16 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 16 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 16 – continued from previous page

`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])
`setWindowFlags`(self, type)
`setWindowIcon`(self, icon)
`setWindowIconText`(self, a0)
`setWindowModality`(self, windowModality)
`setWindowModified`(self, a0)
`setWindowOpacity`(self, level)
`setWindowRole`(self, a0)
`setWindowState`(self, state)
`setWindowTitle`(self, a0)

continues on next page

Table 16 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 16 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 16 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_render_points_3d

Render 3d point cloud.

A QWidget plugin to render SMLM data in 3d.

Classes

RenderPoints3dQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_render_points_3d.RenderPoints3dQWidget

class napari_locan.widgets.widget_render_points_3d.**RenderPoints3dQWidget**(*napari_viewer*, *smlm_data=<napari_lo ob- ject>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)

continues on next page

Table 17 – continued from previous page

`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)

continues on next page

Table 17 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 17 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 17 – continued from previous page

`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)

continues on next page

Table 17 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 17 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 17 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 17 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 17 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 17 – continued from previous page

`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])
`setWindowFlags`(self, type)
`setWindowIcon`(self, icon)
`setWindowIconText`(self, a0)
`setWindowModality`(self, windowModality)
`setWindowModified`(self, a0)
`setWindowOpacity`(self, level)
`setWindowRole`(self, a0)
`setWindowState`(self, state)
`setWindowTitle`(self, a0)

continues on next page

Table 17 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 17 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 17 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_roi

Create regions of interest.

A QWidget plugin for managing regions of interest.

Classes

RoiQWidget(napari_viewer[, ...])	

napari_locan.widgets.widget_roi.RoiQWidget

class napari_locan.widgets.widget_roi.**RoiQWidget**(*napari_viewer*, *region_specifications=<napari_locan.data_model.region object>*, *roi_specifications=<napari_locan.data_model.roi_spec object>*, *smlm_data=<napari_locan.data_model.smlm_data.Sm object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, ...])	
acceptDrops(self)	
accessibleDescription(self)	
accessibleName(self)	
actionEvent(self, a0)	
actions(self)	
activateWindow(self)	
addAction(self, action)	
addActions(self, actions)	
adjustSize(self)	
autoFillBackground(self)	

continues on next page

Table 18 – continued from previous page

`backgroundRole`(self)
`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)

continues on next page

Table 18 – continued from previous page

depth(self)
destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)

continues on next page

Table 18 – continued from previous page

focusNextChild(self)
focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)

continues on next page

Table 18 – continued from previous page

hasMouseTracking(self)
hasTabletTracking(self)
height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)

continues on next page

Table 18 – continued from previous page

isModal(self)
isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)

continues on next page

Table 18 – continued from previous page

mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)

continues on next page

Table 18 – continued from previous page

objectName(self)	
overrideWindowFlags(self, type)	
overrideWindowState(self, state)	
paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	
receivers(self, signal)	
rect(self)	
releaseKeyboard(self)	
releaseMouse(self)	
releaseShortcut(self, id)	
removeAction(self, action)	
removeEventFilter(self, a0)	
render(, sourceRegion, flags, ...)	

continues on next page

Table 18 – continued from previous page

`repaint`(-> None -> None)
`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)

continues on next page

Table 18 – continued from previous page

setFocus()
setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)

continues on next page

Table 18 – continued from previous page

`setShortcutAutoRepeat`(self, id[, enabled])
`setShortcutEnabled`(self, id[, enabled])
`setSizeIncrement`()
`setSizePolicy`()
`setStatusTip`(self, a0)
`setStyle`(self, a0)
`setStyleSheet`(self, styleSheet)
`setTabOrder`(a0, a1)
`setTabletTracking`(self, enable)
`setToolTip`(self, a0)
`setToolTipDuration`(self, msec)
`setUpdatesEnabled`(self, enable)
`setVisible`(self, visible)
`setWhatsThis`(self, a0)
`setWindowFilePath`(self, filePath)
`setWindowFlag`(self, a0[, on])
`setWindowFlags`(self, type)
`setWindowIcon`(self, icon)
`setWindowIconText`(self, a0)
`setWindowModality`(self, windowModality)
`setWindowModified`(self, a0)
`setWindowOpacity`(self, level)
`setWindowRole`(self, a0)
`setWindowState`(self, state)

continues on next page

Table 18 – continued from previous page

setWindowTitle(self, a0)
sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)

continues on next page

Table 18 – continued from previous page

tr(self, sourceText[, disambiguation, n])
underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)

continues on next page

Table 18 – continued from previous page

`windowRole`(self)
`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_run_script

Run python script.

A QWidget plugin with a simple interface to handle python scripts for localization analysis.

Classes

RunScriptQWidget(napari_viewer)

napari_locan.widgets.widget_run_script.RunScriptQWidget

class napari_locan.widgets.widget_run_script.**RunScriptQWidget**(*napari_viewer*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer)
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)
baseSize(self)
blockSignals(self, b)

continues on next page

Table 19 – continued from previous page

changeEvent(self, a0)
childAt(-> Optional[QWidget])
childEvent(self, a0)
children(self)
childrenRect(self)
childrenRegion(self)
clearFocus(self)
clearMask(self)
close(self)
closeEvent(self, a0)
colorCount(self)
connectNotify(self, signal)
contentsMargins(self)
contentsRect(self)
contextMenuEvent(self, a0)
contextMenuPolicy(self)
create(self[, window, initializeWindow, ...])
createWindowContainer(window[, parent, flags])
cursor(self)
customEvent(self, a0)
deleteLater(self)
depth(self)
destroy(self[, destroyWindow, destroySubWindows])
devType(self)

continues on next page

Table 19 – continued from previous page

devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)
focusNextPrevChild(self, next)
focusOutEvent(self, a0)

continues on next page

Table 19 – continued from previous page

focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)
hasTabletTracking(self)
height(self)

continues on next page

Table 19 – continued from previous page

`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)
`isRightToLeft`(self)
`isSignalConnected`(self, signal)

continues on next page

Table 19 – continued from previous page

isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)

continues on next page

Table 19 – continued from previous page

maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)
overrideWindowFlags(self, type)
overrideWindowState(self, state)

continues on next page

Table 19 – continued from previous page

paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	
receivers(self, signal)	
rect(self)	
releaseKeyboard(self)	
releaseMouse(self)	
releaseShortcut(self, id)	
removeAction(self, action)	
removeEventFilter(self, a0)	
render(, sourceRegion, flags, ...)	
repaint(-> None -> None)	
resize()	
resizeEvent(self, a0)	

continues on next page

Table 19 – continued from previous page

`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()
`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)

continues on next page

Table 19 – continued from previous page

setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)
setShortcutAutoRepeat(self, id[, enabled])
setShortcutEnabled(self, id[, enabled])
setSizeIncrement()

continues on next page

Table 19 – continued from previous page

setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)
sharedPainter(self)
show(self)

continues on next page

Table 19 – continued from previous page

showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])
underMouse(self)
ungrabGesture(self, type)

continues on next page

Table 19 – continued from previous page

`unsetCursor`(self)
`unsetLayoutDirection`(self)
`unsetLocale`(self)
`update`(-> None -> None)
`updateGeometry`(self)
`updateMicroFocus`(self)
`updatesEnabled`(self)
`visibleRegion`(self)
`whatsThis`(self)
`wheelEvent`(self, a0)
`width`(self)
`widthMM`(self)
`winId`(self)
`window`(self)
`windowFilePath`(self)
`windowFlags`(self)
`windowHandle`(self)
`windowIcon`(self)
`windowIconText`(self)
`windowModality`(self)
`windowOpacity`(self)
`windowRole`(self)
`windowState`(self)
`windowTitle`(self)

continues on next page

Table 19 – continued from previous page

`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_select

Select localizations from SMLM dataset.

A QWidget plugin to select localizations in current SMLM dataset based on a filter specification. A new SMLM dataset will be created.

Classes

SelectQWidget(napari_viewer[, smlm_data, ...])	

napari_locan.widgets.widget_select.SelectQWidget

class napari_locan.widgets.widget_select.**SelectQWidget**(*napari_viewer*, *smlm_data=<napari_locan.data_model.smlm_d object>*, *filter_specifications=<napari_locan.data_model.f object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data, ...])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)

continues on next page

Table 20 – continued from previous page

`backgroundRole`(self)
`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)

continues on next page

Table 20 – continued from previous page

depth(self)
destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)

continues on next page

Table 20 – continued from previous page

focusNextChild(self)
focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)

continues on next page

Table 20 – continued from previous page

hasMouseTracking(self)
hasTabletTracking(self)
height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)

continues on next page

Table 20 – continued from previous page

isModal(self)
isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)

continues on next page

Table 20 – continued from previous page

mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)

continues on next page

Table 20 – continued from previous page

objectName(self)	
overrideWindowFlags(self, type)	
overrideWindowState(self, state)	
paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	
receivers(self, signal)	
rect(self)	
releaseKeyboard(self)	
releaseMouse(self)	
releaseShortcut(self, id)	
removeAction(self, action)	
removeEventFilter(self, a0)	
render(, sourceRegion, flags, ...)	

continues on next page

Table 20 – continued from previous page

repaint(-> None -> None)
resize()
resizeEvent(self, a0)
restoreGeometry(self, geometry)
saveGeometry(self)
screen(self)
scroll()
sender(self)
senderSignalIndex(self)
setAcceptDrops(self, on)
setAccessibleDescription(self, description)
setAccessibleName(self, name)
setAttribute(self, attribute[, on])
setAutoFillBackground(self, enabled)
setBackgroundRole(self, a0)
setBaseSize()
setContentsMargins()
setContextMenuPolicy(self, policy)
setCursor(self, a0)
setDisabled(self, a0)
setEnabled(self, a0)
setFixedHeight(self, h)
setFixedSize()
setFixedWidth(self, w)

continues on next page

Table 20 – continued from previous page

setFocus()
setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)

continues on next page

Table 20 – continued from previous page

setShortcutAutoRepeat(self, id[, enabled])
setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)

continues on next page

Table 20 – continued from previous page

setWindowTitle(self, a0)
sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)

continues on next page

Table 20 – continued from previous page

tr(self, sourceText[, disambiguation, n])
underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)

continues on next page

Table 20 – continued from previous page

`windowRole`(self)
`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_show_data

Show data statistics for a SMLM dataset.

A QWidget plugin for showing locdata data statistics (locdata.data.describe()).

Classes

ShowDataQWidget(napari_viewer[, smlm_data])	
TableModel(data)	

napari_locan.widgets.widget_show_data.ShowDataQWidget

class napari_locan.widgets.widget_show_data.**ShowDataQWidget**(*napari_viewer*, *smlm_data=<napari_locan.data_model.s object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)

continues on next page

Table 21 – continued from previous page

`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)

continues on next page

Table 21 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 21 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 21 – continued from previous page

hasTabletTracking(self)
height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)
isModal(self)

continues on next page

Table 21 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 21 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 21 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 21 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 21 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 21 – continued from previous page

setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)

continues on next page

Table 21 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 21 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 21 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_show_data.TableModel

class napari_locan.widgets.widget_show_data.**TableModel**(*data*)

Bases: PyQt5.QtCore.QAbstractTableModel

Methods

__init__(data)
beginInsertColumns(self, parent, first, last)
beginInsertRows(self, parent, first, last)
beginMoveColumns(self, sourceParent, ...)
beginMoveRows(self, sourceParent, ...)
beginRemoveColumns(self, parent, first, last)
beginRemoveRows(self, parent, first, last)
beginResetModel(self)
blockSignals(self, b)
buddy(self, index)
canDropMimeData(self, data, action, row, ...)
canFetchMore(self, parent)
changePersistentIndex(self, from_, to)
changePersistentIndexList(self, from_, to)
checkIndex(self, index[, options])
childEvent(self, a0)
children(self)
columnCount([parent]) **rtype** int
connectNotify(self, signal)
createIndex(self, row, column[, object])

continues on next page

Table 22 – continued from previous page

customEvent(self, a0)
data(index, role) **rtype** str
decodeData(self, row, column, parent, stream)
deleteLater(self)
disconnect(-> bool)
disconnectNotify(self, signal)
dropMimeData(self, data, action, row, ...)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
encodeData(self, indexes, stream)
endInsertColumns(self)
endInsertRows(self)
endMoveColumns(self)
endMoveRows(self)
endRemoveColumns(self)
endRemoveRows(self)
endResetModel(self)
event(self, a0)
eventFilter(self, a0, a1)
fetchMore(self, parent)
findChild(-> QObjectT)
findChildren(...)
flags(self, index)

continues on next page

Table 22 – continued from previous page

hasChildren(self[, parent])
hasIndex(self, row, column[, parent])
headerData(self, section, orientation[, role])
index(self, row, column[, parent])
inherits(self, classname)
insertColumn(self, column[, parent])
insertColumns(self, column, count[, parent])
insertRow(self, row[, parent])
insertRows(self, row, count[, parent])
installEventFilter(self, a0)
isSignalConnected(self, signal)
isWidgetType(self)
isWindowType(self)
itemData(self, index)
killTimer(self, id)
match(self, start, role, value[, hits, flags])
metaObject(self)
mimeData(self, indexes)
mimeTypes(self)
moveColumn(self, sourceParent, sourceColumn, ...)
moveColumns(self, sourceParent, ...)
moveRow(self, sourceParent, sourceRow, ...)
moveRows(self, sourceParent, sourceRow, ...)
moveToThread(self, thread)

continues on next page

Table 22 – continued from previous page

`objectName`(self)	
`parent`(self)	
`persistentIndexList`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`receivers`(self, signal)	
`removeColumn`(self, column[, parent])	
`removeColumns`(self, column, count[, parent])	
`removeEventFilter`(self, a0)	
`removeRow`(self, row[, parent])	
`removeRows`(self, row, count[, parent])	
`resetInternalData`(self)	
`revert`(self)	
`roleNames`(self)	
`rowCount`([parent])	**rtype** `int`
`sender`(self)	
`senderSignalIndex`(self)	
`setData`(self, index, value[, role])	
`setHeaderData`(self, section, orientation, value)	
`setItemData`(self, index, roles)	
`setObjectName`(self, name)	
`setParent`(self, a0)	
`setProperty`(self, name, value)	
`sibling`(self, row, column, idx)	

continues on next page

Table 22 – continued from previous page

`signalsBlocked`(self)
`sort`(self, column[, order])
`span`(self, index)
`startTimer`(self, interval[, timerType])
`submit`(self)
`supportedDragActions`(self)
`supportedDropActions`(self)
`thread`(self)
`timerEvent`(self, a0)
`tr`(self, sourceText[, disambiguation, n])

Attributes

HorizontalSortHint	
NoLayoutChangeHint	
VerticalSortHint	
columnsAboutToBeInserted	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
columnsAboutToBeMoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
columnsAboutToBeRemoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
columnsInserted	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
columnsMoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
columnsRemoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
dataChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
headerDataChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
layoutAboutToBeChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
layoutChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
modelAboutToBeReset	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
modelReset	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
rowsAboutToBeInserted	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
rowsAboutToBeMoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
rowsAboutToBeRemoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
rowsInserted	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
rowsMoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
rowsRemoved	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	

columnCount(*parent=None*)

Return type int

data(*index*, *role*)

Return type str

headerData(*section*, *orientation*, *role*)

rowCount(*parent=None*)

Return type int

napari_locan.widgets.widget_show_metadata

Show metadata for a SMLM dataset.

QWidget plugin for showing metadata for a single SMLM dataset (locdata.meta).

Classes

ShowMetadataQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_show_metadata.ShowMetadataQWidget

class napari_locan.widgets.widget_show_metadata.**ShowMetadataQWidget**(*napari_viewer*, *smlm_data=<napari_locan.da object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])	
acceptDrops(self)	
accessibleDescription(self)	
accessibleName(self)	
actionEvent(self, a0)	
actions(self)	
activateWindow(self)	

continues on next page

Table 23 – continued from previous page

addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)
baseSize(self)
blockSignals(self, b)
changeEvent(self, a0)
childAt(-> Optional[QWidget])
childEvent(self, a0)
children(self)
childrenRect(self)
childrenRegion(self)
clearFocus(self)
clearMask(self)
close(self)
closeEvent(self, a0)
colorCount(self)
connectNotify(self, signal)
contentsMargins(self)
contentsRect(self)
contextMenuEvent(self, a0)
contextMenuPolicy(self)
create(self[, window, initializeWindow, ...])

continues on next page

Table 23 – continued from previous page

`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)
`destroy`(self[, destroyWindow, destroySubWindows])
`devType`(self)
`devicePixelRatio`(self)
`devicePixelRatioF`(self)
`devicePixelRatioFScale`()
`disconnect`(-> bool)
`disconnectNotify`(self, signal)
`dragEnterEvent`(self, a0)
`dragLeaveEvent`(self, a0)
`dragMoveEvent`(self, a0)
`dropEvent`(self, a0)
`dumpObjectInfo`(self)
`dumpObjectTree`(self)
`dynamicPropertyNames`(self)
`effectiveWinId`(self)
`ensurePolished`(self)
`enterEvent`(self, a0)
`event`(self, a0)
`eventFilter`(self, a0, a1)

continues on next page

Table 23 – continued from previous page

find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)
focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])

continues on next page

Table 23 – continued from previous page

graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)
hasTabletTracking(self)
height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)

continues on next page

Table 23 – continued from previous page

isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)
isModal(self)
isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)

continues on next page

Table 23 – continued from previous page

mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)
mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)

continues on next page

Table 23 – continued from previous page

nativeEvent(self, eventType, message)	
nativeParentWidget(self)	
nextInFocusChain(self)	
normalGeometry(self)	
objectName(self)	
overrideWindowFlags(self, type)	
overrideWindowState(self, state)	
paintEngine(self)	
paintEvent(self, a0)	
paintingActive(self)	
palette(self)	
parent(self)	
parentWidget(self)	
physicalDpiX(self)	
physicalDpiY(self)	
pos(self)	
previousInFocusChain(self)	
property(self, name)	
pyqtConfigure(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
raise_(self)	
receivers(self, signal)	
rect(self)	
releaseKeyboard(self)	
releaseMouse(self)	

continues on next page

Table 23 – continued from previous page

`releaseShortcut`(self, id)
`removeAction`(self, action)
`removeEventFilter`(self, a0)
`render`(, sourceRegion, flags, ...)
`repaint`(-> None -> None)
`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)

continues on next page

Table 23 – continued from previous page

setEnabled(self, a0)
setFixedHeight(self, h)
setFixedSize()
setFixedWidth(self, w)
setFocus()
setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)

continues on next page

Table 23 – continued from previous page

setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)
setShortcutAutoRepeat(self, id[, enabled])
setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)

continues on next page

Table 23 – continued from previous page

setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)
sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)

continues on next page

Table 23 – continued from previous page

thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])
underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)

continues on next page

Table 23 – continued from previous page

`windowIcon`(self)
`windowIconText`(self)
`windowModality`(self)
`windowOpacity`(self)
`windowRole`(self)
`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_show_properties

Show locdata properties for a SMLM dataset.

QWidget plugin for showing the aggregated properties for a single SMLM dataset (locdata.properties).

Classes

ShowPropertiesQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_show_properties.ShowPropertiesQWidget

class napari_locan.widgets.widget_show_properties.**ShowPropertiesQWidget**(*napari_viewer*, *smlm_data=<napari_loc ob- ject>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)

continues on next page

Table 24 – continued from previous page

`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)

continues on next page

Table 24 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 24 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 24 – continued from previous page

hasTabletTracking(self)
height(self)
heightForWidth(self, a0)
heightMM(self)
hide(self)
hideEvent(self, a0)
inherits(self, classname)
initPainter(self, painter)
inputMethodEvent(self, a0)
inputMethodHints(self)
inputMethodQuery(self, a0)
insertAction(self, before, action)
insertActions(self, before, actions)
installEventFilter(self, a0)
isActiveWindow(self)
isAncestorOf(self, child)
isEnabled(self)
isEnabledTo(self, a0)
isFullScreen(self)
isHidden(self)
isLeftToRight(self)
isMaximized(self)
isMinimized(self)
isModal(self)

continues on next page

Table 24 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 24 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 24 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 24 – continued from previous page

`resize`()
`resizeEvent`(self, a0)
`restoreGeometry`(self, geometry)
`saveGeometry`(self)
`screen`(self)
`scroll`()
`sender`(self)
`senderSignalIndex`(self)
`setAcceptDrops`(self, on)
`setAccessibleDescription`(self, description)
`setAccessibleName`(self, name)
`setAttribute`(self, attribute[, on])
`setAutoFillBackground`(self, enabled)
`setBackgroundRole`(self, a0)
`setBaseSize`()
`setContentsMargins`()
`setContextMenuPolicy`(self, policy)
`setCursor`(self, a0)
`setDisabled`(self, a0)
`setEnabled`(self, a0)
`setFixedHeight`(self, h)
`setFixedSize`()
`setFixedWidth`(self, w)
`setFocus`()

continues on next page

Table 24 – continued from previous page

setFocusPolicy(self, policy)
setFocusProxy(self, a0)
setFont(self, a0)
setForegroundRole(self, a0)
setGeometry()
setGraphicsEffect(self, effect)
setHidden(self, hidden)
setInputMethodHints(self, hints)
setLayout(self, a0)
setLayoutDirection(self, direction)
setLocale(self, locale)
setMask()
setMaximumHeight(self, maxh)
setMaximumSize()
setMaximumWidth(self, maxw)
setMinimumHeight(self, minh)
setMinimumSize()
setMinimumWidth(self, minw)
setMouseTracking(self, enable)
setObjectName(self, name)
setPalette(self, a0)
setParent()
setProperty(self, name, value)
setShortcutAutoRepeat(self, id[, enabled])

continues on next page

Table 24 – continued from previous page

setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)

continues on next page

Table 24 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 24 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 24 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

napari_locan.widgets.widget_smlm_data

The data model for localization-based SMLM data.

QWidget plugin to access SMLM datasets from which images are rendered and localization-based analysis procedures are computed. Each dataset is kept as locdata, i.e. a locan.LocData object with metadata, aggregated properties, and localization properties for all localizations.

Classes

SmlmDataQWidget(napari_viewer[, smlm_data])	

napari_locan.widgets.widget_smlm_data.SmlmDataQWidget

class napari_locan.widgets.widget_smlm_data.**SmlmDataQWidget**(*napari_viewer*, *smlm_data=<napari_locan.data_model.s object>*)

Bases: PyQt5.QtWidgets.QWidget

Methods

__init__(napari_viewer[, smlm_data])
acceptDrops(self)
accessibleDescription(self)
accessibleName(self)
actionEvent(self, a0)
actions(self)
activateWindow(self)
addAction(self, action)
addActions(self, actions)
adjustSize(self)
autoFillBackground(self)
backgroundRole(self)

continues on next page

Table 25 – continued from previous page

`baseSize`(self)
`blockSignals`(self, b)
`changeEvent`(self, a0)
`childAt`(-> Optional[QWidget])
`childEvent`(self, a0)
`children`(self)
`childrenRect`(self)
`childrenRegion`(self)
`clearFocus`(self)
`clearMask`(self)
`close`(self)
`closeEvent`(self, a0)
`colorCount`(self)
`connectNotify`(self, signal)
`contentsMargins`(self)
`contentsRect`(self)
`contextMenuEvent`(self, a0)
`contextMenuPolicy`(self)
`create`(self[, window, initializeWindow, ...])
`createWindowContainer`(window[, parent, flags])
`cursor`(self)
`customEvent`(self, a0)
`deleteLater`(self)
`depth`(self)

continues on next page

Table 25 – continued from previous page

destroy(self[, destroyWindow, destroySubWindows])
devType(self)
devicePixelRatio(self)
devicePixelRatioF(self)
devicePixelRatioFScale()
disconnect(-> bool)
disconnectNotify(self, signal)
dragEnterEvent(self, a0)
dragLeaveEvent(self, a0)
dragMoveEvent(self, a0)
dropEvent(self, a0)
dumpObjectInfo(self)
dumpObjectTree(self)
dynamicPropertyNames(self)
effectiveWinId(self)
ensurePolished(self)
enterEvent(self, a0)
event(self, a0)
eventFilter(self, a0, a1)
find(a0)
findChild(-> QObjectT)
findChildren(...)
focusInEvent(self, a0)
focusNextChild(self)

continues on next page

Table 25 – continued from previous page

focusNextPrevChild(self, next)
focusOutEvent(self, a0)
focusPolicy(self)
focusPreviousChild(self)
focusProxy(self)
focusWidget(self)
font(self)
fontInfo(self)
fontMetrics(self)
foregroundRole(self)
frameGeometry(self)
frameSize(self)
geometry(self)
getContentsMargins(self)
grab(self[, rectangle])
grabGesture(self, type[, flags])
grabKeyboard(self)
grabMouse()
grabShortcut(self, key[, context])
graphicsEffect(self)
graphicsProxyWidget(self)
hasFocus(self)
hasHeightForWidth(self)
hasMouseTracking(self)

continues on next page

Table 25 – continued from previous page

`hasTabletTracking`(self)
`height`(self)
`heightForWidth`(self, a0)
`heightMM`(self)
`hide`(self)
`hideEvent`(self, a0)
`inherits`(self, classname)
`initPainter`(self, painter)
`inputMethodEvent`(self, a0)
`inputMethodHints`(self)
`inputMethodQuery`(self, a0)
`insertAction`(self, before, action)
`insertActions`(self, before, actions)
`installEventFilter`(self, a0)
`isActiveWindow`(self)
`isAncestorOf`(self, child)
`isEnabled`(self)
`isEnabledTo`(self, a0)
`isFullScreen`(self)
`isHidden`(self)
`isLeftToRight`(self)
`isMaximized`(self)
`isMinimized`(self)
`isModal`(self)

continues on next page

Table 25 – continued from previous page

isRightToLeft(self)
isSignalConnected(self, signal)
isVisible(self)
isVisibleTo(self, a0)
isWidgetType(self)
isWindow(self)
isWindowModified(self)
isWindowType(self)
keyPressEvent(self, a0)
keyReleaseEvent(self, a0)
keyboardGrabber()
killTimer(self, id)
layout(self)
layoutDirection(self)
leaveEvent(self, a0)
locale(self)
logicalDpiX(self)
logicalDpiY(self)
lower(self)
mapFrom(self, a0, a1)
mapFromGlobal(self, a0)
mapFromParent(self, a0)
mapTo(self, a0, a1)
mapToGlobal(self, a0)

continues on next page

Table 25 – continued from previous page

mapToParent(self, a0)
mask(self)
maximumHeight(self)
maximumSize(self)
maximumWidth(self)
metaObject(self)
metric(self, a0)
minimumHeight(self)
minimumSize(self)
minimumSizeHint(self)
minimumWidth(self)
mouseDoubleClickEvent(self, a0)
mouseGrabber()
mouseMoveEvent(self, a0)
mousePressEvent(self, a0)
mouseReleaseEvent(self, a0)
move()
moveEvent(self, a0)
moveToThread(self, thread)
nativeEvent(self, eventType, message)
nativeParentWidget(self)
nextInFocusChain(self)
normalGeometry(self)
objectName(self)

continues on next page

Table 25 – continued from previous page

`overrideWindowFlags`(self, type)	
`overrideWindowState`(self, state)	
`paintEngine`(self)	
`paintEvent`(self, a0)	
`paintingActive`(self)	
`palette`(self)	
`parent`(self)	
`parentWidget`(self)	
`physicalDpiX`(self)	
`physicalDpiY`(self)	
`pos`(self)	
`previousInFocusChain`(self)	
`property`(self, name)	
`pyqtConfigure`(...)	Each keyword argument is either the name of a Qt property or a Qt signal.
`raise_`(self)	
`receivers`(self, signal)	
`rect`(self)	
`releaseKeyboard`(self)	
`releaseMouse`(self)	
`releaseShortcut`(self, id)	
`removeAction`(self, action)	
`removeEventFilter`(self, a0)	
`render`(, sourceRegion, flags, ...)	
`repaint`(-> None -> None)	

continues on next page

Table 25 – continued from previous page

`resize()`
`resizeEvent(self, a0)`
`restoreGeometry(self, geometry)`
`saveGeometry(self)`
`screen(self)`
`scroll()`
`sender(self)`
`senderSignalIndex(self)`
`setAcceptDrops(self, on)`
`setAccessibleDescription(self, description)`
`setAccessibleName(self, name)`
`setAttribute(self, attribute[, on])`
`setAutoFillBackground(self, enabled)`
`setBackgroundRole(self, a0)`
`setBaseSize()`
`setContentsMargins()`
`setContextMenuPolicy(self, policy)`
`setCursor(self, a0)`
`setDisabled(self, a0)`
`setEnabled(self, a0)`
`setFixedHeight(self, h)`
`setFixedSize()`
`setFixedWidth(self, w)`
`setFocus()`

continues on next page

Table 25 – continued from previous page

`setFocusPolicy`(self, policy)
`setFocusProxy`(self, a0)
`setFont`(self, a0)
`setForegroundRole`(self, a0)
`setGeometry`()
`setGraphicsEffect`(self, effect)
`setHidden`(self, hidden)
`setInputMethodHints`(self, hints)
`setLayout`(self, a0)
`setLayoutDirection`(self, direction)
`setLocale`(self, locale)
`setMask`()
`setMaximumHeight`(self, maxh)
`setMaximumSize`()
`setMaximumWidth`(self, maxw)
`setMinimumHeight`(self, minh)
`setMinimumSize`()
`setMinimumWidth`(self, minw)
`setMouseTracking`(self, enable)
`setObjectName`(self, name)
`setPalette`(self, a0)
`setParent`()
`setProperty`(self, name, value)
`setShortcutAutoRepeat`(self, id[, enabled])

continues on next page

Table 25 – continued from previous page

setShortcutEnabled(self, id[, enabled])
setSizeIncrement()
setSizePolicy()
setStatusTip(self, a0)
setStyle(self, a0)
setStyleSheet(self, styleSheet)
setTabOrder(a0, a1)
setTabletTracking(self, enable)
setToolTip(self, a0)
setToolTipDuration(self, msec)
setUpdatesEnabled(self, enable)
setVisible(self, visible)
setWhatsThis(self, a0)
setWindowFilePath(self, filePath)
setWindowFlag(self, a0[, on])
setWindowFlags(self, type)
setWindowIcon(self, icon)
setWindowIconText(self, a0)
setWindowModality(self, windowModality)
setWindowModified(self, a0)
setWindowOpacity(self, level)
setWindowRole(self, a0)
setWindowState(self, state)
setWindowTitle(self, a0)

continues on next page

Table 25 – continued from previous page

sharedPainter(self)
show(self)
showEvent(self, a0)
showFullScreen(self)
showMaximized(self)
showMinimized(self)
showNormal(self)
signalsBlocked(self)
size(self)
sizeHint(self)
sizeIncrement(self)
sizePolicy(self)
stackUnder(self, a0)
startTimer(self, interval[, timerType])
statusTip(self)
style(self)
styleSheet(self)
tabletEvent(self, a0)
testAttribute(self, attribute)
thread(self)
timerEvent(self, a0)
toolTip(self)
toolTipDuration(self)
tr(self, sourceText[, disambiguation, n])

continues on next page

Table 25 – continued from previous page

underMouse(self)
ungrabGesture(self, type)
unsetCursor(self)
unsetLayoutDirection(self)
unsetLocale(self)
update(-> None -> None)
updateGeometry(self)
updateMicroFocus(self)
updatesEnabled(self)
visibleRegion(self)
whatsThis(self)
wheelEvent(self, a0)
width(self)
widthMM(self)
winId(self)
window(self)
windowFilePath(self)
windowFlags(self)
windowHandle(self)
windowIcon(self)
windowIconText(self)
windowModality(self)
windowOpacity(self)
windowRole(self)

continues on next page

Table 25 – continued from previous page

`windowState`(self)
`windowTitle`(self)
`windowType`(self)
`x`(self)
`y`(self)

Attributes

DrawChildren	
DrawWindowBackground	
IgnoreMask	
PdmDepth	
PdmDevicePixelRatio	
PdmDevicePixelRatioScaled	
PdmDpiX	
PdmDpiY	
PdmHeight	
PdmHeightMM	
PdmNumColors	
PdmPhysicalDpiX	
PdmPhysicalDpiY	
PdmWidth	
PdmWidthMM	
customContextMenuRequested	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
destroyed	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
objectNameChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
staticMetaObject	
windowIconChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowIconTextChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL
windowTitleChanged	int = ..., arguments: Sequence = ...) -> PYQT_SIGNAL

CHAPTER

SEVEN

CHANGELOG

7.1 0.5 - 2023-12-07

7.1.1 Bug Fixes

- fix version readout with readthedocs
- fix use of new locan.colormaps module

7.1.2 Other Changes and Additions

- add GitHub action for deploying to PyPI and TestPyPI
- configure setuptools_scm for branching model
- bump version requirements for dependencies

7.2 0.4.0 - 2023-11-08

7.2.1 New Features

- add widget to save and load project
- add button to get regions from locdata hulls

7.2.2 Other Changes and Additions

- add abstract base class for DataModels
- add data model for region specifications
- add data model for roi specifications
- add data model for filter specifications
- minor modifications like button rearrangement

7.3 0.3.0 - 2023-11-01

7.3.1 Bug Fixes

- add dependency for matplotlip<3.8.0

7.3.2 Other Changes and Additions

- additions to the documentation

7.4 0.2.0 - 2023-10-31

7.4.1 Bug Fixes

- correct requirements
- always open dialog with load button
- remove unknown_file_format from load options
- fix dockerfile
- fix readthedocs

7.4.2 Other Changes and Additions

- add to documentation

7.5 0.1.0 - 2023-10-29

7.5.1 New Features

- sample data for 2d
- data models from SmlmData and FilterSpecifications
- **widgets for**
    - SMLM data
    - Show metadata
    - Show properties
    - Show localization data
    - Show localization property distributions
    - Load
    - Filter specifications
    - Select

  - Region of interest
  - Render points 2D / 3D
  - Render image 2D / 3D
  - Render features of a SMLM dataset
  - Cluster
  - Render collection as 2D / 3D point cloud
  - Render collection features
  - Run script
- documentation via readthedocs

CHAPTER

EIGHT

LICENSE

CHAPTER

NINE

DEVELOPMENT

We welcome any contributions for improving or further developing this package.

However, please excuse that we are limited in time for development and support.

Some things to keep in mind when adding code…

9.1 Install

A few extra libraries are needed for development:

```
pip install .[test,dev,docs]
```

9.2 Import Conventions

The following import conventions are used throughout Locan source code and documentation:

```
import locan as lc
import matplotlib as mpl
import matplotlib.pyplot as plt
import numpy as np
import scipy as sp
import pandas as pd
```

This is enforced through ruff following specifications in pyproject.toml.

9.3 Unit tests

For testing we use py.test.

A test suite is provided in /src/napari_locan/_tests.

Tests can also be run with tox.

9.4 Coverage

For measuring code coverage in testing we use coverage.py.

Configurations are kept in pyproject.toml.

9.5 Code checks

We use black for formating and ruff for code linting.

Configurations are kept in pyproject.toml.

9.6 Versioning

We use SemVer for versioning. For all versions available, see the releases in this repository.

9.7 Documentation

Documentation is provided as restructured text, myst markdown, and as docstrings within the code. HTML pages and other documentation formats are build using Sphinx.

We follow standard recommendations for python documentation and the numpy conventions.

To update the documentation from sources delete `/docs/sources/generated` and run:

```
sphinx-build -b html -E YOUR_PATH\napari-locan\docs YOUR_PATH\napari-locan\
↪docs\_build
```

9.8 Type hints

We try to make use of type checking using mypy as much as possible.

Configurations are kept in pyproject.toml.

9.9 To remember

- The plugin is strongly linked to locan and its development procedures.

CHAPTER

TEN

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

n

INDEX

M

N

P

Q

R

S

T