

Projection

Module `projection`

Functions

Function `draw_scene`

```
def draw_scene(  
    state: projection.State  
) -> numpy.ndarray
```

Read the dataset and draw the scene

Args

state State object

Returns

np.ndarray Image of the scene

Function `draw_scene_newDataset`

```
def draw_scene_newDataset(  
    state: projection.State  
) -> numpy.ndarray
```

Read the dataset and draw the scene

Args

state State object

Returns

np.ndarray Image of the scene

Function `draw_scene_oldDataset`

```
def draw_scene_oldDataset(  
    state: projection.State  
) -> numpy.ndarray
```

Read the dataset and draw the scene

Args

state State object

Returns

np.ndarray Image of the scene

Function main

```
def main()
```

Function project_bbox3D_img

```
def project_bbox3D_img(  
    bbox: bbox.BoundingBox,  
    camera_pose: numpy.ndarray,  
    camera_matrix: numpy.ndarray,  
    img: numpy.ndarray  
    ) -> numpy.ndarray
```

Project a 3D bounding box in the image plane

Args

bbox BoundingBox object

camera_pose Camera pose

camera_matrix Camera matrix

img Image to draw on

Returns

np.ndarray Image with the bounding box projected

Classes

Class State

```
class State(  
    datasets_folder: str = '/Users/caillotantoine/Datasets',  
    dataset_name: str = 'CARLA_Dataset_A',  
    frame: int = 180  
)
```

Class variables

Variable dataset_name Type: str

Name of the dataset

Variable datasets_folder Type: str

Path to the dataset folder

Variable frame Type: int

Frame to observe

Variable mutex Type: <built-in function allocate_lock>

Mutex to read and write the State object

Methods

Method read_vars

```
def read_vars(  
    self  
    ) -> Tuple[str, str, int]
```

Read the State object

Returns

(str, str, int): (datasets_folder, dataset_name, frame)

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