pycram.designators.object_designator

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Classes

<pre>BelieveObject</pre>	Description for Objects that are only believed in.
ObjectPart	Object Designator Descriptions for Objects that are part of some other object.
LocatedObject	Description for KnowRob located objects.
RealObject	Object designator representing an object in the real world, when resolving this object designator description]

Module Contents

```
class pycram.designators.object_designator.BelieveObject(names:
typing_extensions.Optional[typing_extensions.List[str]] = None, types:
typing_extensions.Optional[typing_extensions.List[pycram.datastructures.enums.ObjectType]] =
None, resolver: typing_extensions.Optional[typing_extensions.Callable] = None,
ontology_concept_holders: typing_extensions.Optional[typing_extensions.List[owlready2.Thing]] =
None)
   Bases: pycram.external_interfaces.robokudo.ObjectDesignatorDescription
   Description for Objects that are only believed in.
   class Object
       Bases: pycram.external_interfaces.robokudo.ObjectDesignatorDescription.Object
       Concrete object that is believed in.
       to_sql() → pycram.orm.object_designator.BelieveObject
           Create an ORM object that corresponds to this description.
            Returns:
               The created ORM object.
       insert(session: sqlalchemy.orm.session.Session) →
       pycram.orm.object_designator.BelieveObject
                                                                                                       ا الا
           Add and commit this and all related objects to the session. Auto-Incrementing primary keys and foreign key
```

be filled by this method.

```
Parameters:
```

session – Session with a database that is used to add and commit the objects

Returns:

The completely instanced ORM object

```
class pycram.designators.object_designator.ObjectPart(names:
pycram.external_interfaces.robokudo.List[str], part_of:
pycram.external_interfaces.robokudo.ObjectDesignatorDescription.Object, type:
pycram.external_interfaces.robokudo.Optional[pycram.datastructures.enums.ObjectType] = None,
resolver:
pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.Callable] =
None)
   Bases: pycram.external_interfaces.robokudo.ObjectDesignatorDescription
   Object Designator Descriptions for Objects that are part of some other object.
   class Object
       Bases: pycram.external_interfaces.robokudo.ObjectDesignatorDescription.Object
       A single element that fits the description.
       part_pose: pycram.external_interfaces.robokudo.Pose
       to_sql() → pycram.orm.object_designator.ObjectPart
           Create an ORM object that corresponds to this description.
            Returns:
               The created ORM object.
       insert(session: sqlalchemy.orm.session.Session) →
       pycram.orm.object_designator.ObjectPart
           Add and commit this and all related objects to the session. Auto-Incrementing primary keys and foreign keys have to
           be filled by this method.
            Parameters:
               session – Session with a database that is used to add and commit the objects
            Returns:
               The completely instanced ORM object
   type: pycram.external_interfaces.robokudo.Optional[pycram.datastructures.enums.ObjectType]
   names:
   pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.List[str]]
```

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```
ground() → Object
       Default specialized_designators, returns the first result of the iterator of this instance.
        Returns:
            A resolved object designator
   __iter__()
       Iterates through every possible solution for the given input parameter.
        Yield:
            A resolved Object designator
class pycram.designators.object_designator.LocatedObject(names:
pycram.external_interfaces.robokudo.List[str], types:
pycram.external_interfaces.robokudo.List[str], reference_frames:
pycram.external_interfaces.robokudo.List[str], timestamps:
pycram.external_interfaces.robokudo.List[float], resolver:
pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.Callable] =
None, ontology_concept_holders:
pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.List[owlready2.Thing]]
= None)
   Bases: pycram.external_interfaces.robokudo.ObjectDesignatorDescription
   Description for KnowRob located objects. Currently has no specialized_designators
   class Object
       {\tt Bases:} \  \, \boxed{ {\tt pycram.external\_interfaces.robokudo.0bjectDesignatorDescription.0bject} } \\
       A single element that fits the description.
       reference_frame: str
           Reference frame in which the position is given
       timestamp: float
           Timestamp at which the position was valid
   reference_frames: pycram.external_interfaces.robokudo.List[str]
   timestamps: pycram.external_interfaces.robokudo.List[float]
class pycram.designators.object_designator.RealObject(names:
pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.List[str]] =
None, types:
pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.List[str
None, world_object: pycram.world_concepts.world_object.Object = None, resolver:
```

pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.Callable] =
None)

Bases: pycram.external_interfaces.robokudo.ObjectDesignatorDescription

Object designator representing an object in the real world, when resolving this object designator description] RoboKudo is queried to perceive an object fitting the given criteria. Afterward the specialized_designators tries to match the found object to an Object in the World.

class Object

 ${\tt Bases:} \ \, [pycram.external_interfaces.robokudo.ObjectDesignatorDescription.Object] \\$

A single element that fits the description.

pose: pycram.external_interfaces.robokudo.Pose

Pose of the perceived object

types:

pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.List[str]]

names:

pycram.external_interfaces.robokudo.Optional[pycram.external_interfaces.robokudo.List[str]]

world_object: pycram.world_concepts.world_object.Object

__iter__()

Queries RoboKudo for objects that fit the description and then iterates over all World objects that have the same type to match a World object to the real object.

Yield:

A resolved object designator with reference world object

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