

Basic Class Diagram with Operations

Package in package 'Model'

Basic Class Diagram with Operations

Version 1.0 Phase 1.0 Proposed

frgosb created on 15/11/2018. Last modified 29/01/2018

Basic Class Diagram with Operations diagram

Class diagram in package 'Basic Class Diagram with Operations'

Basic Class Diagram with Operations

Version 1.0

frgosb created on 15/11/2018. Last modified 18/11/2018

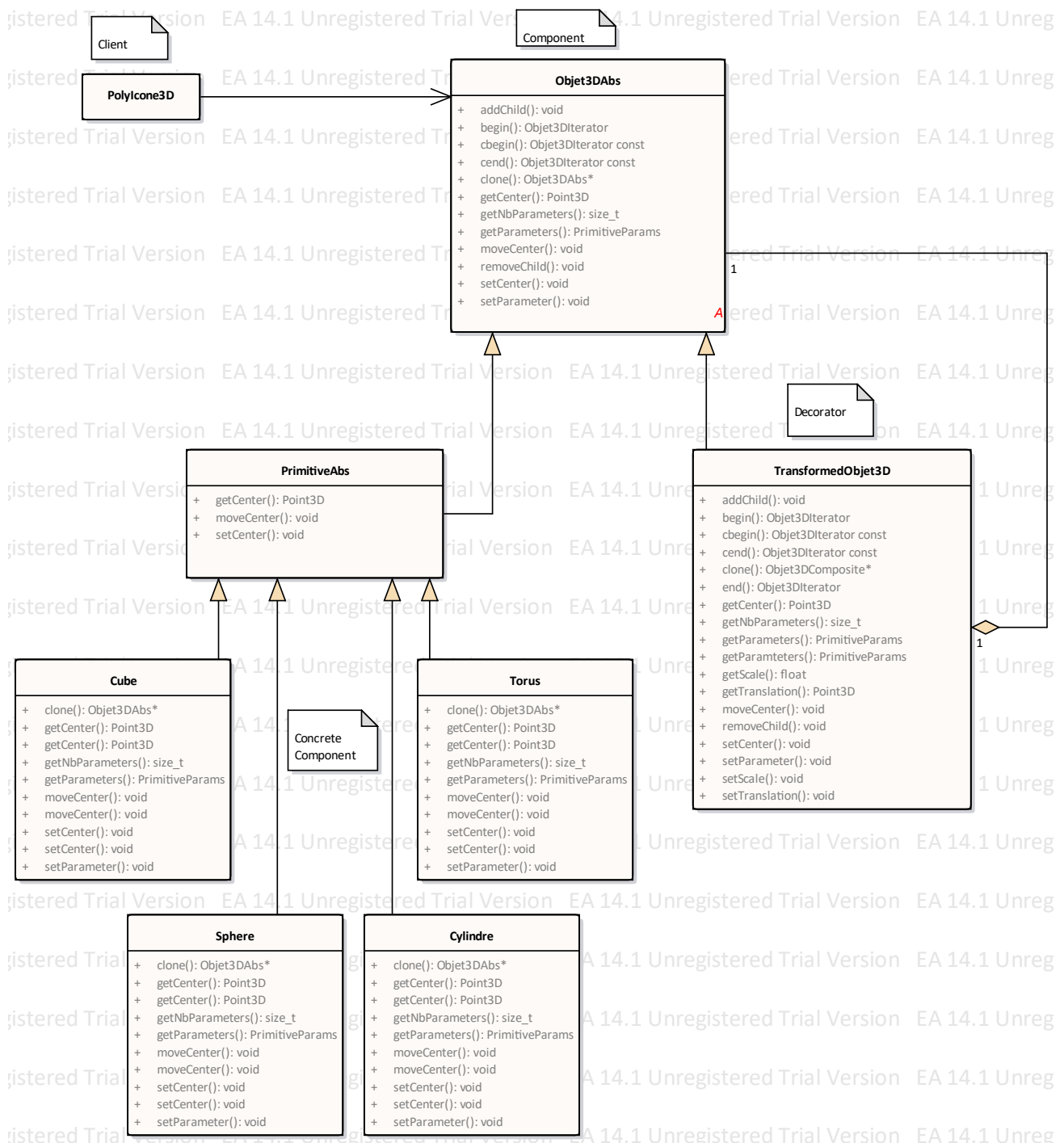


Figure 1: Basic Class Diagram with Operations

Note

Note in package 'Basic Class Diagram with Operations'

Client

Note

Version 1.0 Phase 1.0 Proposed

Antoine Lamontagne created on 18/11/2018. Last modified 18/11/2018

Extends

Note

Note in package 'Basic Class Diagram with Operations'

Component

Note
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 18/11/2018
Extends

Note

Note in package 'Basic Class Diagram with Operations'

Decorator

Note
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 18/11/2018
Extends

Note

Note in package 'Basic Class Diagram with Operations'

Concrete Component

Note
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 18/11/2018
Extends

Cube

Class in package 'Basic Class Diagram with Operations'

Cube
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 17/11/2018
Extends PrimitiveAbs

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from Cube to PrimitiveAbs

[Direction is 'Source -> Destination'.]

OPERATIONS

clone () : Objet3DAbs* Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


getCenter () : Point3D Public

OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getCenter () : Point3D Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getNbParameters () : size_t Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getParameters () : PrimitiveParams Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ moveCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ moveCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setParameter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Cylindre

Class in package 'Basic Class Diagram with Operations'

Cylindre
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 17/11/2018
Extends PrimitiveAbs

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Cylindre to PrimitiveAbs	[Direction is 'Source -> Destination'.]
OPERATIONS	
◆ clone () : Objet3DAbs* Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

OPERATIONS	
◆ getCenter () : Point3D Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getCenter () : Point3D Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getNbParameters () : size_t Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getParameters () : PrimitiveParams Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ moveCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ moveCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setParameter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Objet3DAbs

Class in package 'Basic Class Diagram with Operations'

Objet3DAbs
Version 1.0 Phase 1.0 Proposed
frgosp created on 15/11/2018. Last modified 15/11/2018

Objet3DAbs

Class in package 'Basic Class Diagram with Operations'

Objet3DAbs
Version 1.0 Phase 1.0 Proposed
frgosp created on 15/11/2018. Last modified 15/11/2018
Extends Objet3DComposite

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from `Objet3DAbs` to `Objet3DComposite`

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Generalization from `TransformedObjet3D` to `Objet3DAbs`

[Direction is 'Source -> Destination'.]

OPERATIONS

◆ `addChild () : void Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `begin () : Objet3DIterator Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `cbegin () : Objet3DIterator const Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `cend () : Objet3DIterator const Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `getCenter () : Point3D Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `getNbParameters () : size_t Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `getParameters () : PrimitiveParams Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `moveCenter () : void Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `removeChild () : void Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `setCenter () : void Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ `setParameter () : void Public`

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Objet3DAbs

Class in package 'Basic Class Diagram with Operations'

Objet3DAbs
Version 1.0 Phase 1.0 Proposed
frgosb created on 18/11/2018. Last modified 17/11/2018

OUTGOING STRUCTURAL RELATIONSHIPS

← Aggregation from Objet3DAbs to TransformedObject3D

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Generalization from TransformedObject3D to Objet3DAbs

[Direction is 'Source -> Destination'.]

⇒ Generalization from PrimitiveAbs to Objet3DAbs

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

✎ Association (direction: Source -> Destination)

Source: Public (Class) PolyIcône3D

Target: Public (Class) Objet3DAbs

OPERATIONS

◆ addChild () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ begin () : Objet3DIterator Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ cbegin () : Objet3DIterator const Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ cend () : Objet3DIterator const Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ clone () : Objet3DAbs* Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getCenter () : Point3D Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getNbParameters () : size_t Public

OPERATIONS	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getParameters () : PrimitiveParams Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ moveCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ removeChild () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setParameter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

PolyIcône3D

Class in package 'Basic Class Diagram with Operations'

PolyIcône3D
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 17/11/2018

ASSOCIATIONS	
✎ Association (direction: Source -> Destination)	
Source: Public (Class) PolyIcône3D	Target: Public (Class) Objet3DAbs

PrimitiveAbs

Class in package 'Basic Class Diagram with Operations'

PrimitiveAbs
Version 1.0 Phase 1.0 Proposed
frgosb created on 18/11/2018. Last modified 15/11/2018
Extends Objet3DAbs

OUTGOING STRUCTURAL RELATIONSHIPS	
↳ Generalization from PrimitiveAbs to Objet3DAbs	[Direction is 'Source -> Destination'.]
INCOMING STRUCTURAL RELATIONSHIPS	

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from Sphere to PrimitiveAbs	[Direction is 'Source -> Destination'.]
⇒ Generalization from Torus to PrimitiveAbs	[Direction is 'Source -> Destination'.]
⇒ Generalization from Cube to PrimitiveAbs	[Direction is 'Source -> Destination'.]
⇒ Generalization from Cylindre to PrimitiveAbs	[Direction is 'Source -> Destination'.]

OPERATIONS	
◆ getCenter () : Point3D Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ moveCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Sphere

Class in package 'Basic Class Diagram with Operations'

Sphere
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 17/11/2018
Extends PrimitiveAbs

OUTGOING STRUCTURAL RELATIONSHIPS	
⇐ Generalization from Sphere to PrimitiveAbs	[Direction is 'Source -> Destination'.]


OPERATIONS	
◆ clone () : Objet3DAbs* Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getCenter () : Point3D Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



OPERATIONS	
 getCenter () : Point3D Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getNbParameters () : size_t Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getParameters () : PrimitiveParams Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 moveCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 moveCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setParameter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

Torus

Class in package 'Basic Class Diagram with Operations'

Torus
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 18/11/2018. Last modified 17/11/2018
Extends PrimitiveAbs

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Torus to PrimitiveAbs	[Direction is 'Source -> Destination'.]

OPERATIONS	
 clone () : Objet3DAbs* Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getCenter () : Point3D Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

OPERATIONS	
 getCenter () : Point3D Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getNbParameters () : size_t Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 getParameters () : PrimitiveParams Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 moveCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 moveCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setCenter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setParameter () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

TransformedObjet3D

Class in package 'Basic Class Diagram with Operations'

TransformedObjet3D
Version 1.0 Phase 1.0 Proposed
frgosb created on 15/11/2018. Last modified 15/11/2018

TransformedObjet3D

Class in package 'Basic Class Diagram with Operations'

TransformedObjet3D
Version 1.0 Phase 1.0 Proposed
frgosb created on 15/11/2018. Last modified 15/11/2018
Extends Objet3DAbs, Objet3DComposite

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from TransformedObjet3D to Objet3DComposite	[Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from TransformedObjet3D to Objet3DAbs

[Direction is 'Source -> Destination'.]

OPERATIONS

◆ addChild () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ begin () : Objet3DIterator Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ cbegin () : Objet3DIterator const Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ cend () : Objet3DIterator const Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ clone () : Objet3DAbs* Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ end () : Objet3DIterator Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getCenter () : Point3D Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getNbParameters () : size_t Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getParameters () : PrimitiveParams Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getScale () : float Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ getTranslation () : Point3D Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ moveCenter () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ removeChild () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

◆ setCenter () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setParameter () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setScale () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setTranslation () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

TransformedObjet3D

Class in package 'Basic Class Diagram with Operations'

TransformedObjet3D
Version 1.0 Phase 1.0 Proposed
frgosb created on 18/11/2018. Last modified 18/11/2018
Extends Objet3DAbs

OUTGOING STRUCTURAL RELATIONSHIPS

⇐ Generalization from TransformedObjet3D to Objet3DAbs
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from Objet3DAbs to TransformedObjet3D
[Direction is 'Source -> Destination'.]

OPERATIONS

◆ addChild () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ begin () : Objet3DIterator Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ cbegin () : Objet3DIterator const Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ cend () : Objet3DIterator const Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
◆ clone () : Objet3DComposite* Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ end () : Objet3DIterator Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getCenter () : Point3D Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getNbParameters () : size_t Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getParameters () : PrimitiveParams Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getParamteters () : PrimitiveParams Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getScale () : float Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getTranslation () : Point3D Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ moveCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ removeChild () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setCenter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setParameter () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setScale () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ setTranslation () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

