Basic Class Diagram with Operations

Package in package 'Model'

Basic Class Diagram with Operations diagram

Class diagram in package 'Basic Class Diagram with Operations'
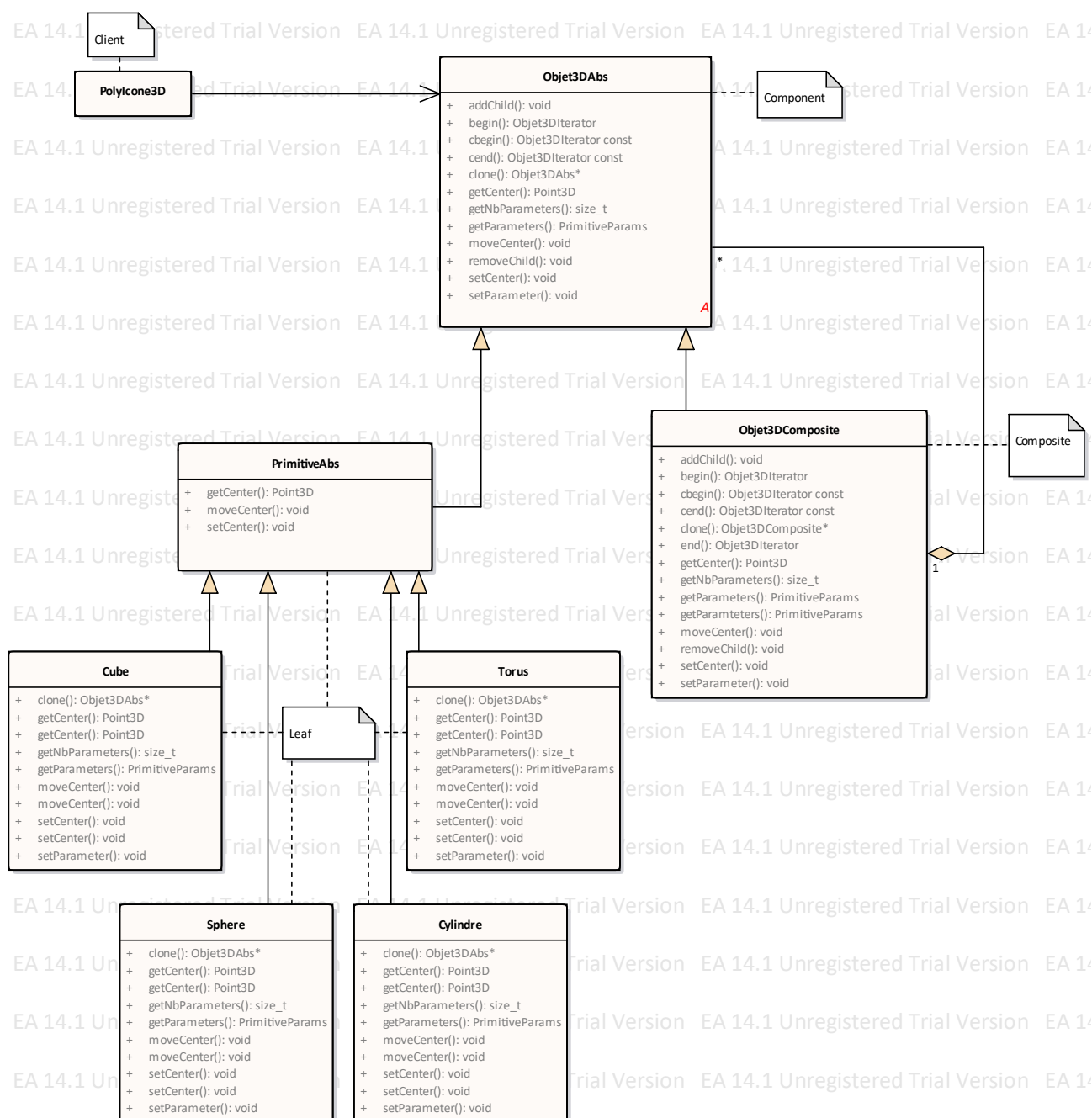
Figure 1: Basic Class Diagram with Operations

Note

Note in package 'Basic Class Diagram with Operations'

Component

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

Note

Note in package 'Basic Class Diagram with Operations'

Client

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

Note

Note in package 'Basic Class Diagram with Operations'

Composite

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

Note

Note in package 'Basic Class Diagram with Operations'

Leaf

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

Class A

Class in package 'Basic Class Diagram with Operations'

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

ASSOCIATIONS

✏️ Association (direction: Unspecified) Association B

Source: Public role c (Class) Class A   Target: Public role d (Class) Class C
   Cardinality: [0..1]   Cardinality: [0..*]

✏️ Association (direction: Unspecified) Association A

Source: Public role a (Class) Class A   Target: Public role b (Class) Class B
   Cardinality: [0..*]   Cardinality: [0..*]

OPERATIONS

🔶 Operation A (Parameter A : int) : void Public
                          [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🔶 Operation B (Parameter : int) : void Public
                          [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Class B

Class in package 'Basic Class Diagram with Operations'

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

ASSOCIATIONS

✏️ Association (direction: Unspecified) Association A

Source: Public role a (Class) Class A   Target: Public role b (Class) Class B
   Cardinality: [0..*]   Cardinality: [0..*]

OPERATIONS

🔶 Operation A (Parameter A : int) : void Public
                          [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🔶 Operation B (Parameter : int) : void Public
                          [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Class C

Class in package 'Basic Class Diagram with Operations'

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

ASSOCIATIONS

✎ Association (direction: Unspecified) Association B

Source: Public role c (Class) Class A   Target: Public role d (Class) Class C
Cardinality: [0..1]   Cardinality: [0..*]

OPERATIONS

◆ Operation A (Parameter A : int) : void Public
                        [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ Operation B (Parameter : int) : void Public
                        [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Cube

Class in package 'Basic Class Diagram with Operations'

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

OUTGOING STRUCTURAL RELATIONSHIPS

⇐ Generalization from Cube to PrimitiveAbs
                                        [Direction is 'Source -> Destination'.]

Cube

Class in package 'Basic Class Diagram with Operations'

Cube
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 17/11/2018. 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.]

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.]

Cylinder

Class in package 'Basic Class Diagram with Operations'

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

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from Cylinder to PrimitiveAbs

[Direction is 'Source -> Destination'.]

Cylindre

Class in package 'Basic Class Diagram with Operations'

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

</div>

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.]

🔶 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
frgosb created on 15/11/2018. Last modified 17/11/2018

OUTGOING STRUCTURAL RELATIONSHIPS

⇐ Aggregation from Objet3DAbs to Objet3DComposite

[Direction is 'Source -> Destination'.]

⇐ Aggregation from Objet3DAbs to Objet3DComposite

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Generalization from Objet3DComposite to Objet3DAbs

[Direction is 'Source -> Destination'.]

⇒ Generalization from Objet3DComposite to Objet3DAbs

[Direction is 'Source -> Destination'.]

⇒ Generalization from PrimitiveAbs to Objet3DAbs

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

✎ Association (direction: Source -> Destination)

Source: Public (Class) PolyIcone3D   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

OPERATIONS	
	[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.]

Objet3DComposite

Class in package 'Basic Class Diagram with Operations'

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

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Generalization from Objet3DComposite to Objet3DAbs
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
➡ Aggregation from Objet3DAbs to Objet3DComposite
[Direction is 'Source -> Destination'.]

Objet3DComposite

Class in package 'Basic Class Diagram with Operations'

Objet3DComposite
Version 1.0 Phase 1.0 Proposed
frgosb created on 15/11/2018. Last modified 17/11/2018

Extends Objet3DAbs

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from Objet3DComposite to Objet3DAbs

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from Objet3DAbs to Objet3DComposite

[Direction is 'Source -> Destination'.]

➡ Generalization from TransformedObjet3D to Objet3DComposite

[Direction is 'Source -> Destination'.]

➡ Generalization from Objet3DAbs to Objet3DComposite

[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 () : 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.]

OPERATIONS
◆ getParamteters () : 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.]

Point3D

Class in package 'Basic Class Diagram with Operations'

Point3D
Version 1.0 Phase 1.0 Proposed
frgosb created on 15/11/2018. Last modified 15/11/2018

PolyIcone3D

Class in package 'Basic Class Diagram with Operations'

PolyIcone3D
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 17/11/2018. Last modified 17/11/2018

PolyIcone3D

Class in package 'Basic Class Diagram with Operations'

PolyIcone3D
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 17/11/2018. Last modified 17/11/2018

ASSOCIATIONS
✎ Association (direction: Source -> Destination)
Source: Public (Class) PolyIcone3D   Target: Public (Class) Objet3DAbs

PrimitiveAbs

Class in package 'Basic Class Diagram with Operations'

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

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from PrimitiveAbs to Objet3DAbs

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization from Sphere to PrimitiveAbs

[Direction is 'Source -> Destination'.]

➡ Generalization from Cube to PrimitiveAbs

[Direction is 'Source -> Destination'.]

➡ Generalization from Cylinder 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
frgosb created on 15/11/2018. Last modified 15/11/2018

Sphere

Class in package 'Basic Class Diagram with Operations'

Sphere
Version 1.0 Phase 1.0 Proposed
Antoine Lamontagne created on 17/11/2018. 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.]

◆ 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.]

OPERATIONS

◆ 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 17/11/2018. 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.]

◆ 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.]

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