

DiagrammeDeClasses_Commande

Package in package 'Model'

DiagrammeDeClasses_Commande

Version Phase 1.0 Proposed

bodiaa created on 2019-06-18. Last modified 2019-06-18

DiagrammeDeClasses_Commande diagram

Class diagram in package 'DiagrammeDeClasses_Commande'

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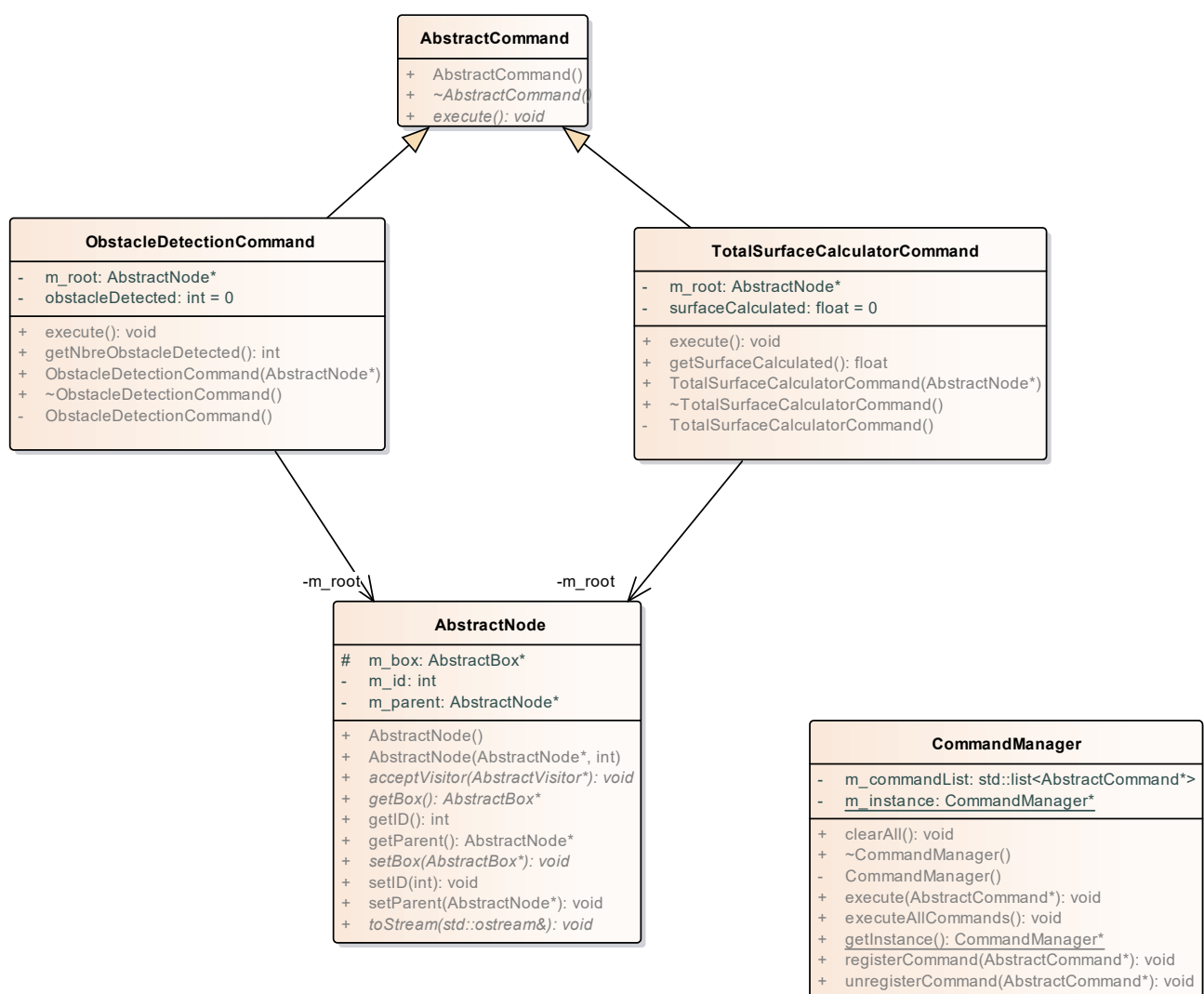


Figure 1: DiagrammeDeClasses_Commande

AbstractCommand




Class in package 'Class Model'

AbstractCommand

Version 1.0 Phase 1.0 Proposed

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INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from TotalSurfaceCalculatorCommand to AbstractCommand	[Direction is 'Source -> Destination'.]
⇒ Generalization from ObstacleDetectionCommand to AbstractCommand	[Direction is 'Source -> Destination'.]



OPERATIONS	
 AbstractCommand () : Public Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 ~AbstractCommand () : Public Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 execute () : void Public [Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False.]	

AbstractNode


Class in package 'Class Model'

AbstractNode
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INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from CompositeNode to AbstractNode	[Direction is 'Source -> Destination'.]
⇒ Generalization from Obstacle to AbstractNode	[Direction is 'Source -> Destination'.]

ATTRIBUTES	
 m_box : AbstractBox* Protected [Is static False. Containment is Not Specified.]	
 m_id : int Private [Is static False. Containment is Not Specified.]	

ATTRIBUTES

 m_parent : AbstractNode* Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

 . Association (direction: Source -> Destination)

Source: Public (Class) AbstractNode

Target: Protected m_box (Class) AbstractBox

 . Association (direction: Source -> Destination)

Source: Public (Class) ObstacleDetectionCommand

Target: Private m_root (Class) AbstractNode

 . Association (direction: Source -> Destination)

Source: Public (Class) TotalSurfaceCalculatorCommand

Target: Private m_root (Class) AbstractNode

OPERATIONS

 AbstractNode () : Public

Properties:

initializer = m_parent(nullptr),m_id(0)

bodyLocation = classDec

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


 AbstractNode (parent : AbstractNode* , id : int) : Public

Properties:

initializer = m_parent(parent),m_id(id)

bodyLocation = classDec


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

 acceptVisitor (visitor : AbstractVisitor*) : void Public

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

 getBox () : AbstractBox* Public


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

 getID () : int Public Const



Properties:

bodyLocation = classDec

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

 getParent () : AbstractNode* Public Const

Properties:

OPERATIONS	
bodyLocation = classDec	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setBox (box : AbstractBox*) : void Public [Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False.]	
 setID (id : int) : void Public Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setParent (parent : AbstractNode*) : void Public Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 toStream (s : std::ostream&) : void Public [Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False.]	






CommandManager

Class in package 'Class Model'

CommandManager
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ATTRIBUTES	
 m_commandList : std::list<AbstractCommand*> Private [Is static False. Containment is Not Specified.]	
 m_instance : CommandManager* Private [Is static True. Containment is Not Specified.]	


OPERATIONS	
 clearAll () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 ~CommandManager () : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 CommandManager () : Private [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	


OPERATIONS
 execute (Command : AbstractCommand*) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 executeAllCommands () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 getInstance () : CommandManager* Public Properties: bodyLocation = classDec [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 registerCommand (Command : AbstractCommand*) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 unregisterCommand (Command : AbstractCommand*) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ObstacleDetectionCommand

Class in package 'Class Model'

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

ATTRIBUTES
 m_root : AbstractNode* Private [Is static False. Containment is Not Specified.]
 obstacleDetected : int Private = 0 [Is static False. Containment is Not Specified.]

ASSOCIATIONS
 . Association (direction: Source -> Destination) Source: Public (Class) ObstacleDetectionCommand Target: Private m_root (Class) AbstractNode





OPERATIONS

OPERATIONS	
 <code>execute () : void Public</code>	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>getNbreObstacleDetected () : int Public</code>	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>ObstacleDetectionCommand (root : AbstractNode*) : Public</code>	
Properties: <code>initializer = AbstractCommand(),m_root(root)</code>	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>~ObstacleDetectionCommand () : Public</code>	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 <code>ObstacleDetectionCommand () : Private</code>	
Properties: <code>initializer = AbstractCommand(),m_root(nullptr)</code>	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

TotalSurfaceCalculatorCommand

Class in package 'Class Model'

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OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from TotalSurfaceCalculatorCommand to AbstractCommand	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
 <code>m_root : AbstractNode* Private</code>	[Is static False. Containment is Not Specified.]
 <code>surfaceCalculated : float Private = 0</code>	[Is static False. Containment is Not Specified.]
ASSOCIATIONS	
 . Association (direction: Source -> Destination)	
Source: Public (Class) TotalSurfaceCalculatorCommand	Target: Private m_root (Class) AbstractNode

OPERATIONS

◆ **execute () : void Public**

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

◆ **getSurfaceCalculated () : float Public**

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

◆ **TotalSurfaceCalculatorCommand (root : AbstractNode*) : Public**

Properties:

initializer = AbstractCommand(),m_root(root)

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

◆ **~TotalSurfaceCalculatorCommand () : Public**

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

◆ **TotalSurfaceCalculatorCommand () : Private**

Properties:

initializer = AbstractCommand(),m_root(nullptr)

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