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'

DiagrammeDeClasses_Commande Version 1.0 bodiaa created on 2019-06-18. Last modified 2019-06-18

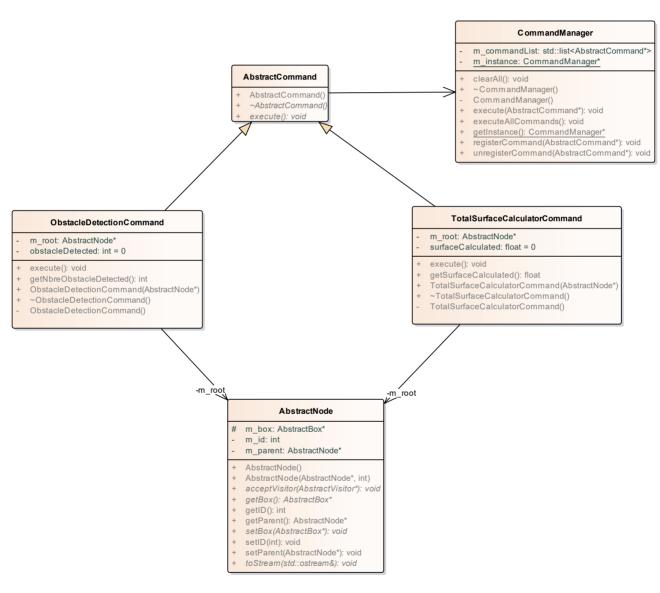


Figure 1: DiagrammeDeClasses Commande

AbstractCommand

Class in package 'Class Model'

AbstractCommand Version 1.0 Phase 1.0 Proposed

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

INCOMING STRUCTURAL RELATIONSHIPS

→ Generalization from TotalSurfaceCalculatorCommand to AbstractCommand

[Direction is 'Source -> Destination'.]

→ Generalization from ObstacleDetectionCommand to AbstractCommand

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) AbstractCommand Target: Public (Class) CommandManager

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 Version 1.0 Phase 1.0 Proposed bodiaa created on 2019-06-18. Last modified 2019-06-18

INCOMING STRUCTURAL RELATIONSHIPS

→ Generalization from CompositeNode to AbstractNode

[Direction is 'Source -> Destination'.]

→ Generalization from Obstacle to AbstractNode

[Direction is 'Source -> Destination'.]

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:

OPERATIONS bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getParent (): AbstractNode* Public Const Properties: 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.]

CommandManager

toStream (s : std::ostream&) : void Public

Class in package 'Class Model'

CommandManager Version 1.0 Phase 1.0 Proposed bodiaa created on 2019-06-18. Last modified 2019-06-18

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

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

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) AbstractCommand Target: Public (Class) CommandManager

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.]

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 Version 1.0 Phase 1.0 Proposed bodiaa created on 2019-06-18. Last modified 2019-06-18

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from ObstacleDetectionCommand to AbstractCommand

[Direction is 'Source -> Destination'.]

ATTRIBUTES

m root : AbstractNode* Private

[Is static False. Containment is Not Specified.]

ATTRIBUTES

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

execute () : void Public

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

getNbreObstacleDetected (): int Public

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

ObstacleDetectionCommand (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.]

~ObstacleDetectionCommand (): Public

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

ObstacleDetectionCommand (): Private

Properties:

initializer = AbstractCommand(),m root(nullptr)

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

TotalSurfaceCalculatorCommand

Class in package 'Class Model'

TotalSurfaceCalculatorCommand Version 1.0 Phase 1.0 Proposed bodiaa created on 2019-06-18. Last modified 2019-06-18

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from TotalSurfaceCalculatorCommand to AbstractCommand

[Direction is 'Source -> Destination'.]

ATTRIBUTES

m root : AbstractNode* Private

ATTRIBUTES

[Is static False. Containment is Not Specified.]

surfaceCalculated : float Private = 0

[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

initializer = AbstractCommand(),m root(nullptr)

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