

Model Report

Modules

Version 1.0 • Proposé



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Modules

Package in package 'Domain Model'

Modules
Version 1.0 Phase 1.0 Proposé
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Modules diagram

Class diagram in package 'Modules'

Modules
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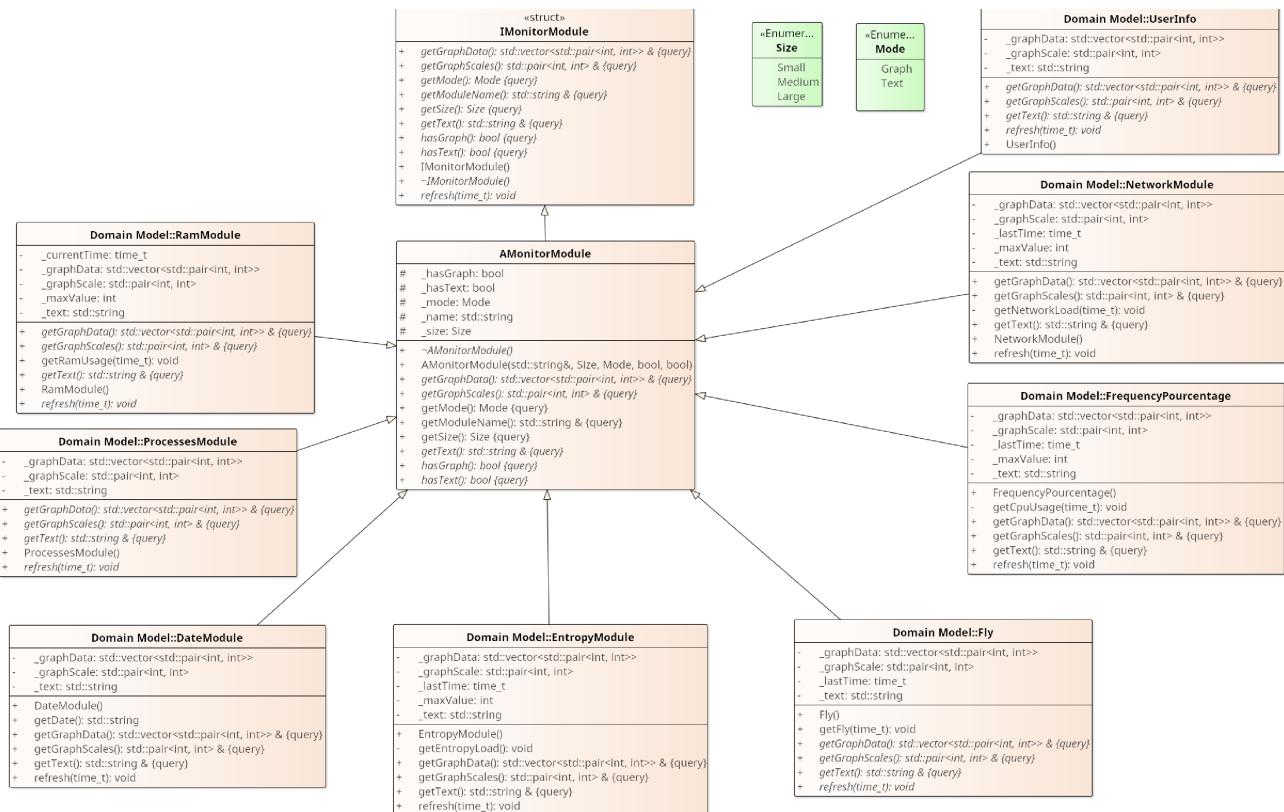


Figure 1: Modules

DateModule

Classe in package 'Domain Model'

DateModule
Version 1.0 Phase 1.0 Proposé
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OUTGOING STRUCTURAL RELATIONSHIPS

↳ Généralisation from DateModule to AMonitorModule

[Direction is 'Source -> Destination'.]

ATTRIBUTES	
◆ _graphData : std::vector<std::pair<int, int>>	Private [Is static Faux. Containment is Non spécifié.]
◆ _graphScale : std::pair<int, int>	Private [Is static Faux. Containment is Non spécifié.]
◆ _text : std::string	Private [Is static Faux. Containment is Non spécifié.]
OPERATIONS	
◆ DateModule ()	Public
Properties:	
initializer = AMonitorModule("DateModule", Modules::Size::Small, Modules::Mode::Text, false, true)	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ getDate ()	std::string Public [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ getGraphData ()	std::vector<std::pair<int, int>> & Public Const
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getGraphScales ()	std::pair<int, int> & Public Const
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getText ()	std::string & Public Const
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ refresh (time : time_t)	: void Public
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]

EntropyModule

Classe in package 'Domain Model'

EntropyModule
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OUTGOING STRUCTURAL RELATIONSHIPS	
↳ Généralisation from EntropyModule to AMonitorModule	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ _graphData : std::vector<std::pair<int, int>> Private	[Is static Faux. Containment is Non spécifié.]
◆ _graphScale : std::pair<int, int> Private	[Is static Faux. Containment is Non spécifié.]
◆ _lastTime : time_t Private	[Is static Faux. Containment is Non spécifié.]
◆ _maxValue : int Private	[Is static Faux. Containment is Non spécifié.]
◆ _text : std::string Private	[Is static Faux. Containment is Non spécifié.]
OPERATIONS	
◆ EntropyModule () : Public	
Properties:	
initializer = AMonitorModule("EntropyModule", Modules::Size::Small, Modules::Mode::Graph, true, true)	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ getEntropyLoad () : void Private	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ getGraphData () : std::vector<std::pair<int, int>> & Public Const	
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getGraphScales () : std::pair<int, int> & Public Const	
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getText () : std::string & Public Const	
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ refresh (time : time_t) : void Public	
Properties:	
override = true	

OPERATIONS

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

Fly

Classe in package 'Domain Model'

Fly

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OUTGOING STRUCTURAL RELATIONSHIPS

↳ Généralisation from Fly to AMonitorModule

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ _graphData : std::vector<std::pair<int, int>> Private

[Is static Faux. Containment is Non spécifié.]

◆ _graphScale : std::pair<int, int> Private

[Is static Faux. Containment is Non spécifié.]

◆ _lastTime : time_t Private

[Is static Faux. Containment is Non spécifié.]

◆ _text : std::string Private

[Is static Faux. Containment is Non spécifié.]

OPERATIONS

◆ Fly () : Public

Properties:

initializer = AMonitorModule("Fly", Modules::Size::Large, Modules::Mode::Text, false, true)

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

◆ getFly (time : time_t) : void Public

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

◆ getGraphData () : std::vector<std::pair<int, int>> & Public Const

Properties:

override = true

[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]

◆ getGraphScales () : std::pair<int, int> & Public Const

Properties:

override = true

[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]

OPERATIONS	
◆ getText () : std::string & Public Const	
Properties: override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ refresh (time : time_t) : void Public	
Properties: override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]

FrequencyPourcentage

Classe in package 'Domain Model'

FrequencyPourcentage
Version 1.0 Phase 1.0 Proposé
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OUTGOING STRUCTURAL RELATIONSHIPS	
↳ Généralisation from FrequencyPourcentage to AMonitorModule	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ _graphData : std::vector<std::pair<int, int>> Private	[Is static Faux. Containment is Non spécifié.]
◆ _graphScale : std::pair<int, int> Private	[Is static Faux. Containment is Non spécifié.]
◆ _lastTime : time_t Private	[Is static Faux. Containment is Non spécifié.]
◆ _maxValue : int Private	[Is static Faux. Containment is Non spécifié.]
◆ _text : std::string Private	[Is static Faux. Containment is Non spécifié.]
OPERATIONS	
◆ FrequencyPourcentage () : Public	
Properties: initializer = AMonitorModule("FrequencyPourcentage", Modules::Size::Medium, Modules::Mode::Graph, true, false)	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]

OPERATIONS	
◆ getCPUUsage (time : time_t) : void Private	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ getGraphData () : std::vector<std::pair<int, int>> & Public Const	
Properties: override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getGraphScales () : std::pair<int, int> & Public Const	
Properties: override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getText () : std::string & Public Const	
Properties: override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ refresh (time : time_t) : void Public	
Properties: override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]

NetworkModule

Classe in package 'Domain Model'

NetworkModule
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OUTGOING STRUCTURAL RELATIONSHIPS	
↳ Généralisation from NetworkModule to AMonitorModule	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ _graphData : std::vector<std::pair<int, int>> Private	[Is static Faux. Containment is Non spécifié.]
◆ _graphScale : std::pair<int, int> Private	[Is static Faux. Containment is Non spécifié.]
◆ _lastTime : time_t Private	[Is static Faux. Containment is Non spécifié.]
◆ _maxValue : int Private	[Is static Faux. Containment is Non spécifié.]

ATTRIBUTES	
◆ <code>_text : std::string</code>	Private [Is static Faux. Containment is Non spécifié.]
OPERATIONS	
<p>◆ <code>getGraphData () : std::vector<std::pair<int, int>></code></p> <p>Properties: <code>override = true</code> [Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]</p>	
<p>◆ <code>getGraphScales () : std::pair<int, int></code></p> <p>Properties: <code>override = true</code> [Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]</p>	
<p>◆ <code>getNetworkLoad (time : time_t) : void</code></p> <p>Properties: [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]</p>	
<p>◆ <code>getText () : std::string</code></p> <p>Properties: <code>override = true</code> [Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]</p>	
<p>◆ <code>NetworkModule ()</code></p> <p>Properties: <code>initializer = AMonitorModule("NetworkModule", Modules::Size::Small, Modules::Mode::Graph, true, false)</code> [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]</p>	
<p>◆ <code>refresh (time : time_t) : void</code></p> <p>Properties: <code>override = true</code> [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]</p>	

ProcessesModule

Classe in package 'Domain Model'

ProcessesModule
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OUTGOING STRUCTURAL RELATIONSHIPS	
↳ Généralisation from ProcessesModule to AMonitorModule	[Direction is 'Source -> Destination'.]
ATTRIBUTES	

ATTRIBUTES	
◆ _graphData : std::vector<std::pair<int, int>>	Private [Is static Faux. Containment is Non spécifié.]
◆ _graphScale : std::pair<int, int>	Private [Is static Faux. Containment is Non spécifié.]
◆ _text : std::string	Private [Is static Faux. Containment is Non spécifié.]
OPERATIONS	
◆ getGraphData () : std::vector<std::pair<int, int>>	& Public Const Properties: override = true [Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getGraphScales () : std::pair<int, int>	& Public Const Properties: override = true [Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getText () : std::string	& Public Const Properties: override = true [Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ ProcessesModule ()	: Public Properties: initializer = AMonitorModule("ProcessesModule", Modules::Size::Small, Modules::Mode::Text, false, true) [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ refresh (time : time_t)	: void Public Properties: override = true [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]

RamModule

Classe in package 'Domain Model'

RamModule
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OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS	
↳ Généralisation from RamModule to AMonitorModule	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ _currentTime : time_t Private	[Is static Faux. Containment is Non spécifié.]
◆ _graphData : std::vector<std::pair<int, int>> Private	[Is static Faux. Containment is Non spécifié.]
◆ _graphScale : std::pair<int, int> Private	[Is static Faux. Containment is Non spécifié.]
◆ _maxValue : int Private	[Is static Faux. Containment is Non spécifié.]
◆ _text : std::string Private	[Is static Faux. Containment is Non spécifié.]
OPERATIONS	
◆ getGraphData () : std::vector<std::pair<int, int>> & Public Const	
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getGraphScales () : std::pair<int, int> & Public Const	
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getRamUsage (time : time_t) : void Public	
	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ getText () : std::string & Public Const	
Properties:	
override = true	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ RamModule () : Public	
Properties:	
initializer = AMonitorModule("RamModule", Modules::Size::Small, Modules::Mode::Text, false, true)	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ refresh (time : time_t) : void Public	
Properties:	
override = true	

OPERATIONS

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

UserInfo

Classe in package 'Domain Model'

UserInfo
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OUTGOING STRUCTURAL RELATIONSHIPS

↳ Généralisation from UserInfo to AMonitorModule

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ _graphData : std::vector<std::pair<int, int>> Private

[Is static Faux. Containment is Non spécifié.]

◆ _graphScale : std::pair<int, int> Private

[Is static Faux. Containment is Non spécifié.]

◆ _text : std::string Private

[Is static Faux. Containment is Non spécifié.]

OPERATIONS

◆ getGraphData () : std::vector<std::pair<int, int>> & Public Const

Properties:

override = true

[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]

◆ getGraphScales () : std::pair<int, int> & Public Const

Properties:

override = true

[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]

◆ getText () : std::string & Public Const

Properties:

override = true

[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]

◆ refresh (time : time_t) : void Public

Properties:

override = true

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

OPERATIONS

◊ UserInfo () : Public

Properties:

initializer = AMonitorModule("UserInfo", Modules::Size::Small, Modules::Mode::Text, false, true)
 [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]

AMonitorModule

Classe in package 'Modules'

AMonitorModule
 Version 1.0 Phase 1.0 Proposé
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 Extends IMonitorModule

OUTGOING STRUCTURAL RELATIONSHIPS

↳ Généralisation from AMonitorModule to «struct» IMonitorModule
 [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Généralisation from UserInfo to AMonitorModule
 [Direction is 'Source -> Destination'.]

⇒ Généralisation from ProcessesModule to AMonitorModule
 [Direction is 'Source -> Destination'.]

⇒ Généralisation from RamModule to AMonitorModule
 [Direction is 'Source -> Destination'.]

⇒ Généralisation from Fly to AMonitorModule
 [Direction is 'Source -> Destination'.]

⇒ Généralisation from Example to AMonitorModule
 [Direction is 'Source -> Destination'.]

⇒ Généralisation from CpuInfo to AMonitorModule
 [Direction is 'Source -> Destination'.]

⇒ Généralisation from EntropyModule to AMonitorModule
 [Direction is 'Source -> Destination'.]

⇒ Généralisation from DateModule to AMonitorModule
 [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Généralisation from NetworkModule to AMonitorModule	[Direction is 'Source -> Destination'.]
⇒ Généralisation from FrequencyPourcentage to AMonitorModule	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ _hasGraph : bool Protected	[Is static Faux. Containment is Non spécifié.]
◆ _hasText : bool Protected	[Is static Faux. Containment is Non spécifié.]
◆ _mode : Mode Protected	[Is static Faux. Containment is Non spécifié.]
◆ _name : std::string Protected	[Is static Faux. Containment is Non spécifié.]
◆ _size : Size Protected	[Is static Faux. Containment is Non spécifié.]
OPERATIONS	
◆ ~AMonitorModule () : Public	
Properties:	
override = true	
overrides = default	
	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ AMonitorModule (_name : std::string& , _size : Size , _mode : Mode , _hasGraph : bool , _hasText : bool) : Public	
Properties:	
initializer = _name(_name),_size(_size),_mode(_mode),_hasGraph(_hasGraph),_hasText(_hasText)	
bodyLocation = classDec	
	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]
◆ getGraphData () : std::vector<std::pair<int, int>> & Public Const	
	[Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getGraphScales () : std::pair<int, int> & Public Const	
	[Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getMode () : Mode Public	
Properties:	
override = true	
bodyLocation = classDec	
	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]

OPERATIONS	
◆ getModuleName () : std::string & Public Const	
Properties:	
override = true	
bodyLocation = classDec	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getSize () : Size Public	
Properties:	
override = true	
bodyLocation = classDec	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ getText () : std::string & Public Const	
Properties:	
override = true	
bodyLocation = classDec	[Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ hasGraph () : bool Public	
Properties:	
override = true	
bodyLocation = classDec	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]
◆ hasText () : bool Public	
Properties:	
override = true	
bodyLocation = classDec	[Is static Faux. Is abstract Faux. Is return array Faux. Is query Vrai . Is synchronized Faux.]

IMonitorModule

Classe «struct» in package 'Modules'

IMonitorModule
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INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Généralisation from AMonitorModule to «struct» IMonitorModule	[Direction is 'Source -> Destination'.]

ASSOCIATIONS	
↙ Association (direction: Source -> Destination)	

Source: Public (Classe) Board «struct»

Target: Public module (Classe) IMonitorModule
«struct»

OPERATIONS	
◆ getGraphData () : std::vector<std::pair<int, int>> & Public Const	

OPERATIONS	
[Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
getGraphScales () : std::pair<int, int> & Public Const [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
getMode () : Mode Public [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
getModuleName () : std::string & Public Const [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
getSize () : Size Public [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
getText () : std::string & Public Const [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
hasGraph () : bool Public [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
hasText () : bool Public [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Vrai . Is synchronized Faux.]	
IMonitorModule () : Public Properties: overrides = default [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]	
~IMonitorModule () : Public Properties: overrides = default [Is static Faux. Is abstract Faux. Is return array Faux. Is query Faux. Is synchronized Faux.]	
refresh (time : time_t) : void Public [Is static Faux. Is abstract Vrai. Is return array Faux. Is query Faux. Is synchronized Faux.]	

Mode

Énumération «Enumeration» in package 'Modules'

Mode
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ATTRIBUTES	
Graph : Public [Is static Faux. Containment is Non spécifié.]	

ATTRIBUTES
◆ Text : Public [Is static Faux. Containment is Non spécifié.]

Size

Énumération «Enumeration» in package 'Modules'

Size
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ATTRIBUTES
◆ Small : Public [Is static Faux. Containment is Non spécifié.]
◆ Medium : Public [Is static Faux. Containment is Non spécifié.]
◆ Large : Public [Is static Faux. Containment is Non spécifié.]