

Ene

1.0.0

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# 1 Ene

## About

This project is a simple music library as a homework in the context of our computer science studies. For more details about the source code please check out the documentation: <https://vivi90.github.io/ene> (Also available as PDF download: <https://vivi90.github.io/ene/ene.pdf>)

## Naming

We have named it after the character 'Ene' from the anime 'Mekakucity Actors'.

## Usage

Just compile it. Currently it supports only WAV files. The library database is saved in a local SQLite file, called `library.db`. The playlist file is called `playlist.m3u`.

## Features

- Create a simple music library
- Play tracks
- Sort tracks by artist, title or genre (ascending or descending)
- Filter tracks by artist, title or genre
- Create a playlist
- Currently available translations: English & German

## Requirements

- Doxygen (only for contribution)

## Contribution

Please issue **right after** cloning the following command to use all necessary hooks: `git config --local core.hooksPath .githubhooks`

## Translation

Please take a look at the directory `src/ene/resources/locales`.



## Troubleshooting

If you run this application on a Linux operating system, the sound doesn't work, and you get an `LineUnavailableException` in debug mode, then please force Java to use the Pulse Audio system by issuing:  
`padsp java -jar bin/ene.jar` You need to start this application with the `-d` argument to enable debug infos.

## License

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## Credits

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- Our Git repository: <https://github.com/vivi90/ene.git>
- Application icon repository (by Google Limited): <https://github.com/google/material-design-icons>
- SQLite JDBC driver library repository: <https://bitbucket.org/xerial/sqlite-jdbc>

## 2 Namespace Index

### 2.1 Packages

Here are the packages with brief descriptions (if available):

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<a href="#">ene.databases</a>	9
<a href="#">ene.interfaces</a>	9
<a href="#">ene.models</a>	10
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<a href="#">ene.views.gui</a>	10
<a href="#">ene.views.gui.partial</a>	11

## 3 Hierarchical Index

### 3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

ene.controllers.AbstractController< LibraryModel >	12
ene.controllers.LibraryController	69
ene.controllers.AbstractController< PlayerModel >	12
ene.controllers.PlayerController	111
ene.controllers.AbstractController< PlaylistModel >	12
ene.controllers.PlaylistController	149
ene.views.AbstractMasterView< JFrame >	15
ene.views.AbstractMasterView< JTabbedPane >	15
ene.AbstractObject	22
ene.Application	52
ene.controllers.AbstractController< ModelType >	12
ene.databases.SQLDatabase	174
ene.models.AbstractModel	19
ene.models.PlayerModel	120
ene.models.TrackListModel	182
ene.models.LibraryModel	83
ene.models.PlaylistModel	159
ene.models.TrackModel	188
ene.views.AbstractView< CoreComponentType >	46
ene.views.AbstractMasterView< CoreComponentType >	15
ene.views.gui.partial.ContentView	57
ene.views.gui.WindowView	206
ene.views.AbstractPartialView< CoreComponentType, ModelType >	28
ene.views.gui.partial.AbstractTrackListView	32
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LineListener	
<b>ene.models.PlayerModel</b>	<b>120</b>
ListSelectionListener	
<b>ene.views.gui.partial.AbstractTrackListView</b>	<b>32</b>
MouseListener	
<b>ene.views.gui.partial.AbstractTrackListView</b>	<b>32</b>

## 4 Class Index

### 4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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<b>ene.views.AbstractMasterView&lt; CoreComponentType &gt;</b>	<b>15</b>
<b>ene.models.AbstractModel</b>	<b>19</b>
<b>ene.AbstractObject</b>	<b>22</b>
<b>ene.views.AbstractPartialView&lt; CoreComponentType, ModelType &gt;</b>	<b>28</b>

<a href="#">ene.views.gui.partial.AbstractTrackListView</a>	32
<a href="#">ene.views.AbstractView&lt; CoreComponentType &gt;</a>	46
<a href="#">ene.Application</a>	52
<a href="#">ene.views.gui.partial.ContentView</a>	57
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## 5 File Index

### 5.1 File List

Here is a list of all files with brief descriptions:

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## 6 Namespace Documentation

### 6.1 Package ene

#### Packages

- package [controllers](#)
- package [databases](#)
- package [interfaces](#)
- package [models](#)
- package [views](#)

#### Classes

- class [AbstractObject](#)
- class [Application](#)

#### 6.1.1 Detailed Description

Simple music library.

#### Version

1.0.0

### 6.2 Package ene.controllers

#### Classes

- class [AbstractController](#)
- class [LibraryController](#)
- class [PlayerController](#)
- class [PlaylistController](#)

### 6.2.1 Detailed Description

Controllers.

Since

0.2.0

## 6.3 Package ene.databases

Classes

- class [SQLDatabase](#)

### 6.3.1 Detailed Description

Databases.

Since

0.9.0

## 6.4 Package ene.interfaces

Classes

- interface [Controller](#)
- interface [DatabaseConnection](#)
- interface [Export](#)
- interface [Import](#)
- interface [Localization](#)
- interface [MasterView](#)
- interface [Model](#)
- interface [PartialView](#)
- interface [View](#)

### 6.4.1 Detailed Description

Interfaces.

Since

0.2.0

## 6.5 Package ene.models

### Classes

- class [AbstractModel](#)
- class [LibraryModel](#)
- class [PlayerModel](#)
- class [PlaylistModel](#)
- class [TrackListModel](#)
- class [TrackModel](#)

### 6.5.1 Detailed Description

Data holding models.

Since

0.2.0

## 6.6 Package ene.views

### Packages

- package [gui](#)

### Classes

- class [AbstractMasterView](#)
- class [AbstractPartialView](#)
- class [AbstractView](#)

### 6.6.1 Detailed Description

Views.

Since

0.2.0

## 6.7 Package ene.views.gui

### Packages

- package [partial](#)

### Classes

- class [WindowView](#)



### 6.7.1 Detailed Description

GUI views.

Since

0.11.0

## 6.8 Package ene.views.gui.partial

Classes

- class [AbstractTrackListView](#)
- class [ContentView](#)
- class [LibraryView](#)
- class [PlayerView](#)
- class [PlaylistView](#)

### 6.8.1 Detailed Description

Partial GUI views.

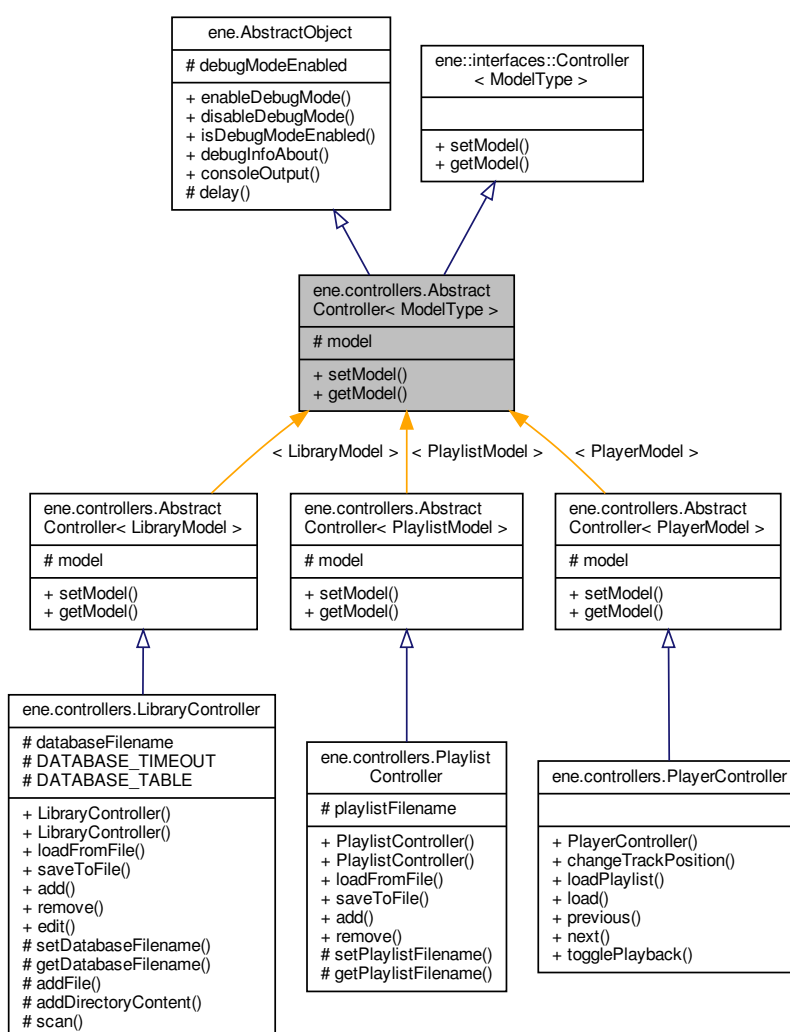
Since

0.11.0

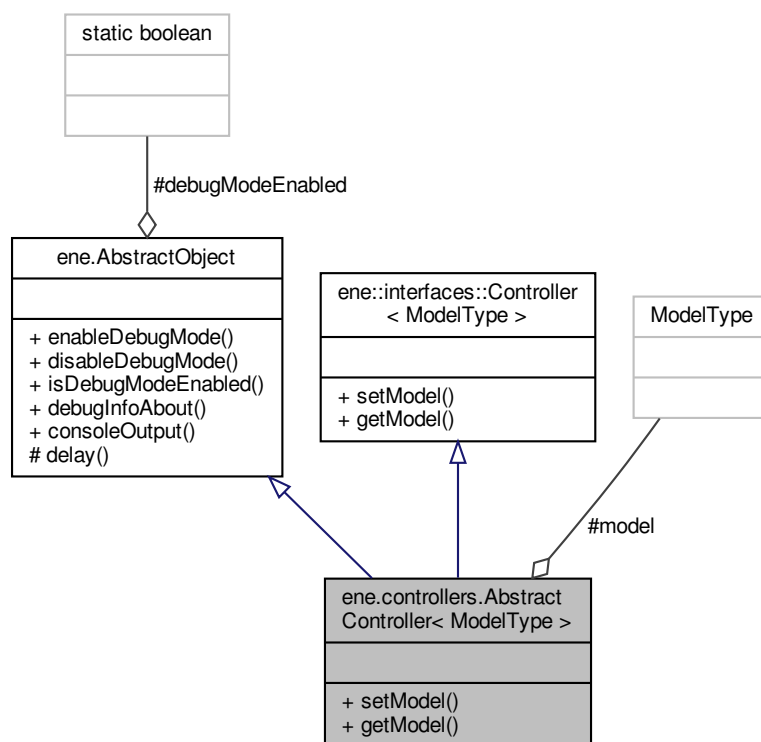
## 7 Class Documentation

## 7.1 ene.controllers.AbstractController< ModelType > Class Template Reference

Inheritance diagram for ene.controllers.AbstractController< ModelType >:



Collaboration diagram for ene.controllers.AbstractController< ModelType >:



#### Public Member Functions

- void [setModel](#) ([Model model](#))
- [ModelType getModel](#) ()

#### Protected Attributes

- [ModelType model](#)

#### Additional Inherited Members

##### 7.1.1 Detailed Description

Abstract controller.

#### Version

1.0.0

Definition at line 11 of file `AbstractController.java`.

## 7.1.2 Member Function Documentation

### 7.1.2.1 getModel()

```
ModelType ene.controllers.AbstractController< ModelType >.getModel ( )
```

Returns the model instance.

#### Returns

Model instance.

Implements [ene.interfaces.Controller< ModelType >](#).

Definition at line 24 of file AbstractController.java.

### 7.1.2.2 setModel()

```
void ene.controllers.AbstractController< ModelType >.setModel (
    Model model )
```

Sets the model instance.

#### Parameters

<i>model</i>	Model instance.
--------------	-----------------

Implements [ene.interfaces.Controller< ModelType >](#).

Definition at line 19 of file AbstractController.java.

## 7.1.3 Member Data Documentation

### 7.1.3.1 model

```
ModelType ene.controllers.AbstractController< ModelType >.model [protected]
```

Model instance.

Definition at line 15 of file AbstractController.java.

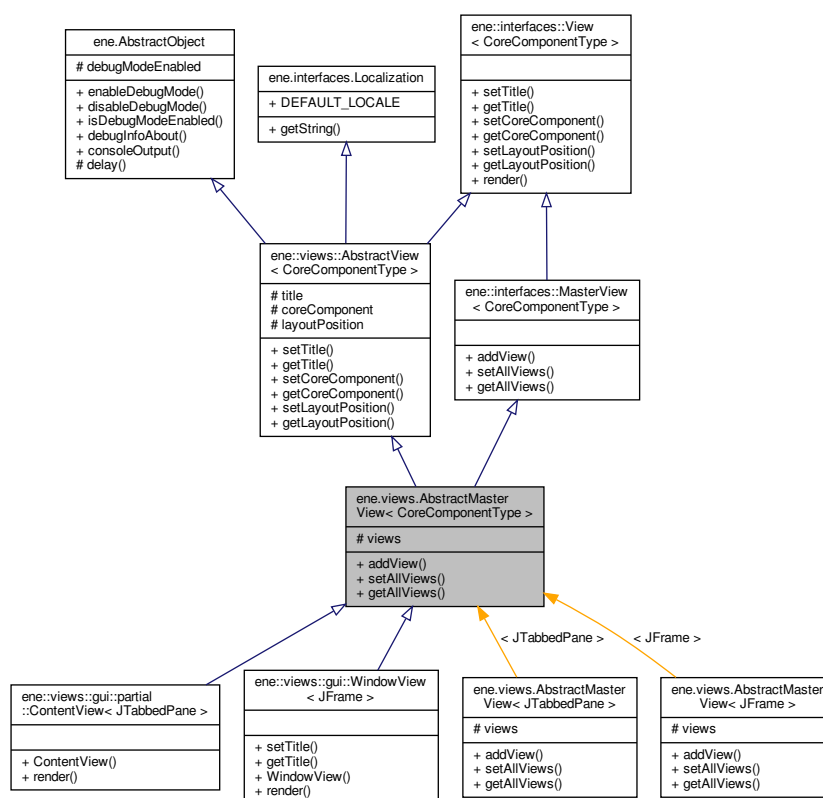
Referenced by [ene.controllers.AbstractController< PlayerModel >.getModel\(\)](#).

The documentation for this class was generated from the following file:

- [src/ene/controllers/AbstractController.java](#)

## 7.2 ene.views.AbstractMasterView< CoreComponentType > Class Template Reference

Inheritance diagram for ene.views.AbstractMasterView< CoreComponentType >:





## 7.2.2 Member Function Documentation

### 7.2.2.1 addView()

```
void ene.views.AbstractMasterView< CoreComponentType >.addView (
    View view )
```

Adds view instance.

#### Parameters

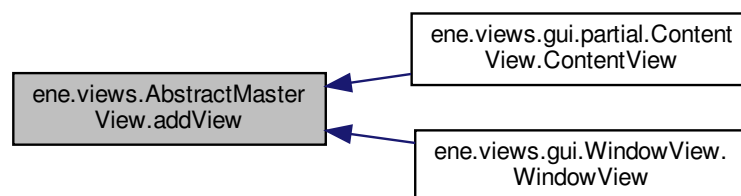
<i>view</i>	View instance.
-------------	----------------

Implements [ene.interfaces.MasterView< CoreComponentType >](#).

Definition at line 21 of file AbstractMasterView.java.

Referenced by [ene.views.gui.partial.ContentView.ContentView\(\)](#), and [ene.views.gui.WindowView.WindowView\(\)](#).

Here is the caller graph for this function:



### 7.2.2.2 getAllViews()

```
List<View> ene.views.AbstractMasterView< CoreComponentType >.getAllViews ( )
```

Returns all contained view instances.

**Returns**

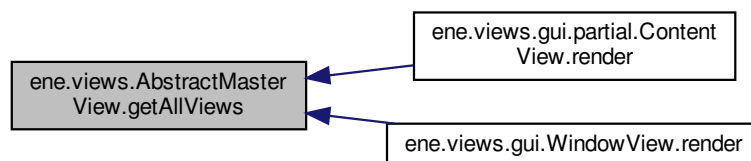
List of view instances.

Implements [ene.interfaces.MasterView< CoreComponentType >](#).

Definition at line 31 of file AbstractMasterView.java.

Referenced by `ene.views.gui.partial.ContentView.render()`, and `ene.views.gui.WindowView.render()`.

Here is the caller graph for this function:

**7.2.2.3 setAllViews()**

```
void ene.views.AbstractMasterView< CoreComponentType >.setAllViews (
    List< View > views )
```

Sets all contained view instances.

**Parameters**

<i>views</i>	List of view instances.
--------------	-------------------------

Implements [ene.interfaces.MasterView< CoreComponentType >](#).

Definition at line 26 of file AbstractMasterView.java.

**7.2.3 Member Data Documentation****7.2.3.1 views**

```
List<View> ene.views.AbstractMasterView< CoreComponentType >.views = new ArrayList<>() [protected]
```

Contained view instances.

Definition at line 18 of file AbstractMasterView.java.

Referenced by `ene.views.AbstractMasterView< JFrame >.getAllViews()`, and `ene.views.AbstractMasterView< JFrame >.setAllViews()`.

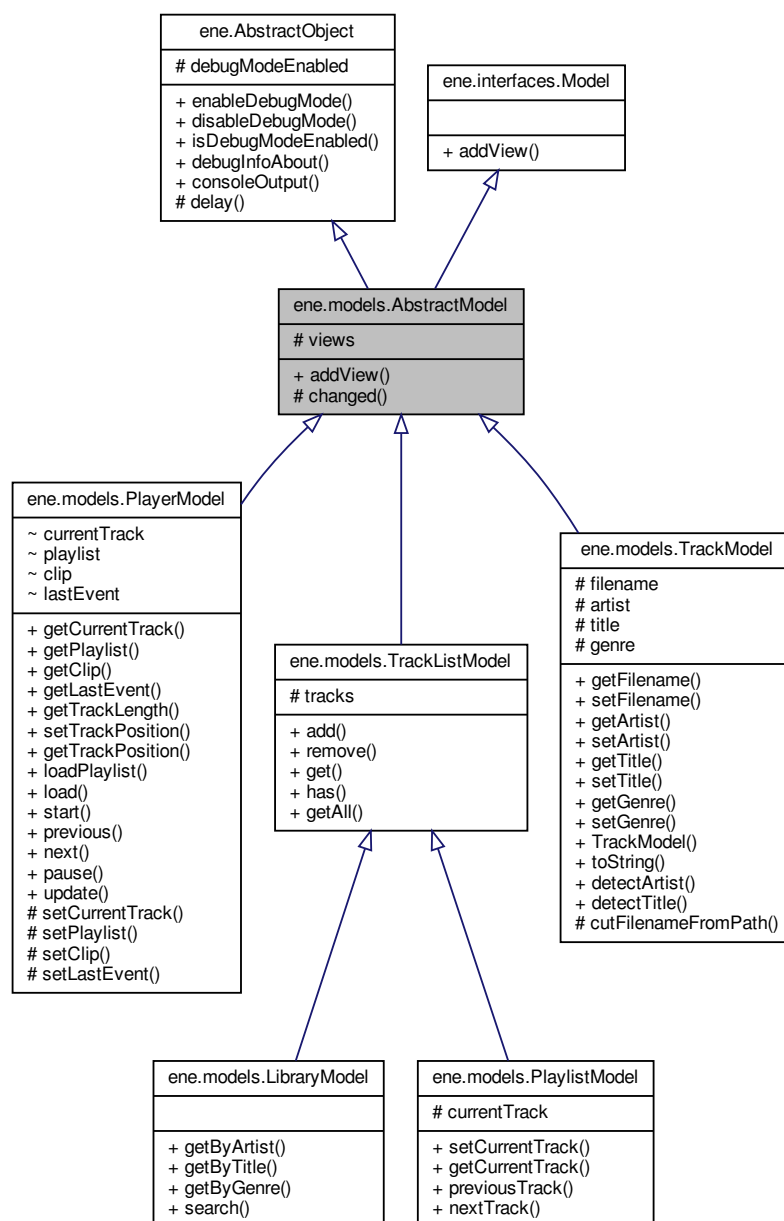
The documentation for this class was generated from the following file:

- `src/ene/views/AbstractMasterView.java`

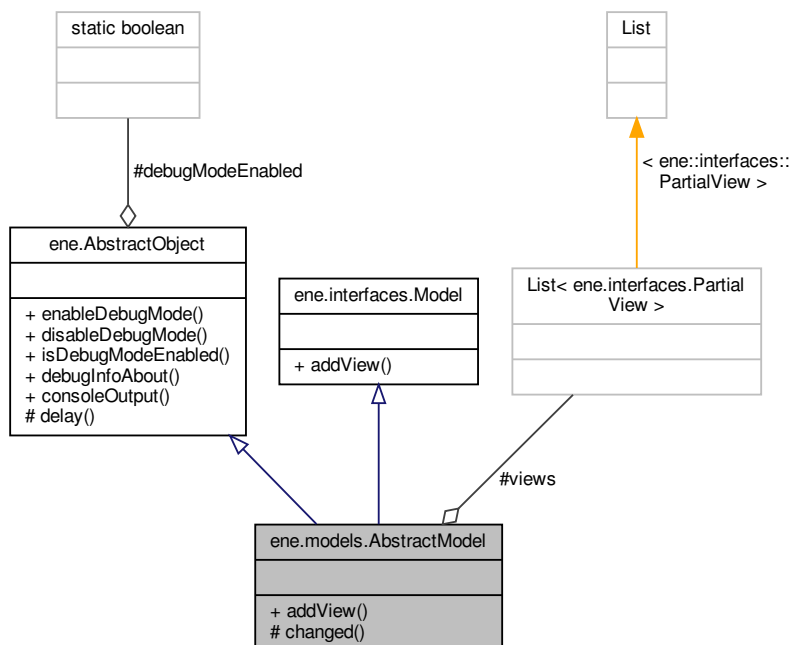


## 7.3 ene.models.AbstractModel Class Reference

Inheritance diagram for ene.models.AbstractModel:



Collaboration diagram for ene.models.AbstractModel:



#### Public Member Functions

- void `addView` (`PartialView` view)

#### Protected Member Functions

- void `changed` ()

#### Protected Attributes

- List< `PartialView` > `views` = new ArrayList<>()

#### Additional Inherited Members

#### 7.3.1 Detailed Description

Abstract model.

#### Version

2.0.0

Definition at line 13 of file `AbstractModel.java`.

### 7.3.2 Member Function Documentation

#### 7.3.2.1 addView()

```
void ene.models.AbstractModel.addView (
    PartialView view )
```

Add related view.

##### Parameters

<i>view</i>	View.
-------------	-------

Implements [ene.interfaces.Model](#).

Definition at line 20 of file AbstractModel.java.

#### 7.3.2.2 changed()

```
void ene.models.AbstractModel.changed ( ) [protected]
```

Update event.

Definition at line 27 of file AbstractModel.java.

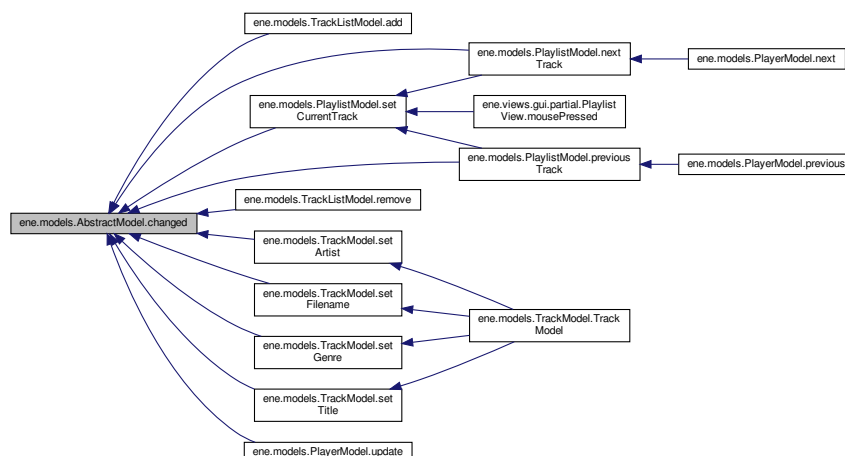
References [ene.interfaces.PartialView< CoreComponentType, ModelType >.update\(\)](#).

Referenced by [ene.models.TrackListModel.add\(\)](#), [ene.models.PlaylistModel.nextTrack\(\)](#), [ene.models.PlaylistModel.previousTrack\(\)](#), [ene.models.TrackListModel.remove\(\)](#), [ene.models.TrackModel.setArtist\(\)](#), [ene.models.PlaylistModel.setCurrentTrack\(\)](#), [ene.models.TrackModel.setFilename\(\)](#), [ene.models.TrackModel.setGenre\(\)](#), [ene.models.TrackModel.setTitle\(\)](#), and [ene.models.PlayerModel.update\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.3.3 Member Data Documentation

#### 7.3.3.1 views

```
List<PartialView> ene.models.AbstractModel.views = new ArrayList<>() [protected]
```

Related views.

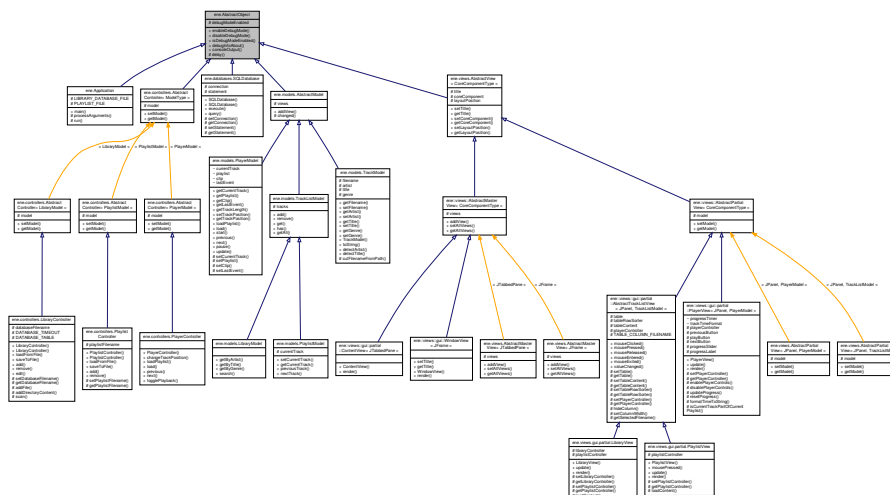
Definition at line 17 of file AbstractModel.java.

The documentation for this class was generated from the following file:

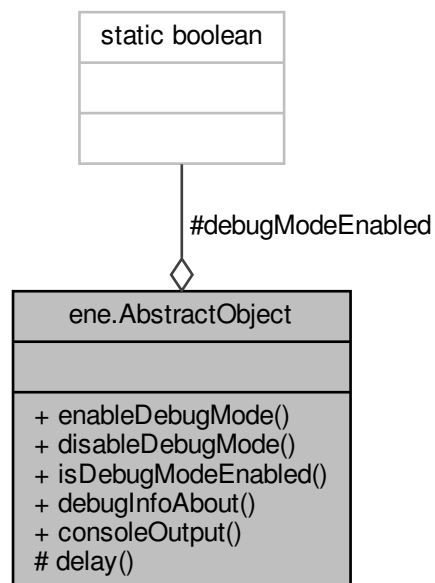
- [src/ene/models/AbstractModel.java](#)

### 7.4 ene.AbstractObject Class Reference

Inheritance diagram for ene.AbstractObject:



Collaboration diagram for ene.AbstractObject:



#### Static Public Member Functions

- static void [enableDebugMode](#) ()
- static void [disableDebugMode](#) ()
- static boolean [isDebugEnabled](#) ()
- static void [debugInfoAbout](#) (Object object)
- static void [consoleOutput](#) (String text)

#### Protected Member Functions

- void [delay](#) (long milliseconds)

#### Static Protected Attributes

- static boolean [debugModeEnabled](#) = false

#### 7.4.1 Detailed Description

Abstract object class.

Since

0.4.0

Version

1.0.1

Definition at line 11 of file AbstractObject.java.

## 7.4.2 Member Function Documentation

### 7.4.2.1 consoleOutput()

```
static void ene.AbstractObject.consoleOutput (
    String text ) [static]
```

Console output.

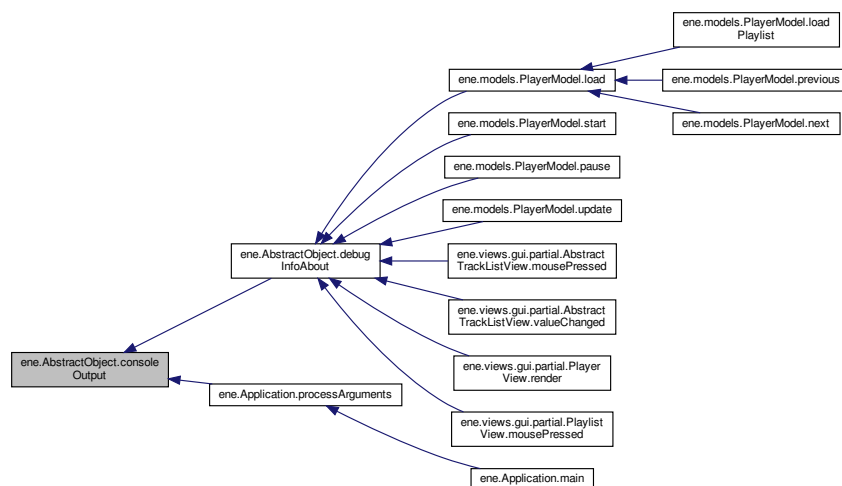
#### Parameters

<i>text</i>	Text.
-------------	-------

Definition at line 53 of file AbstractObject.java.

Referenced by ene.AbstractObject.debugInfoAbout(), and ene.Application.processArguments().

Here is the caller graph for this function:



### 7.4.2.2 debugInfoAbout()

```
static void ene.AbstractObject.debugInfoAbout (
    Object object ) [static]
```

Debug info.

#### Parameters

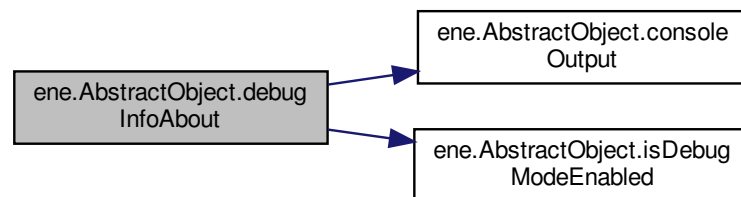
<i>object</i>	Object instance to show information about.
---------------	--

Definition at line 43 of file AbstractObject.java.

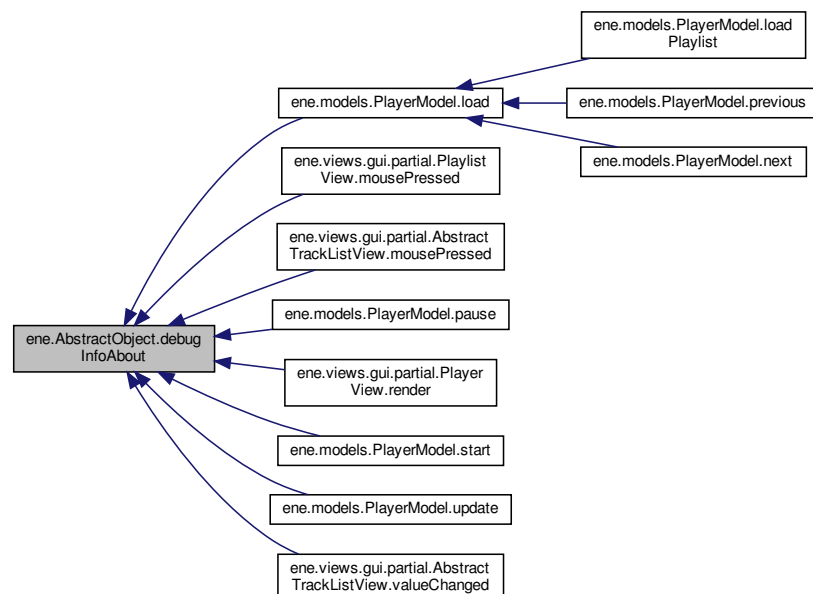
References ene.AbstractObject.consoleOutput(), and ene.AbstractObject.isDebugEnabled().

Referenced by ene.models.PlayerModel.load(), ene.views.gui.partial.PlaylistView.mousePressed(), ene.views.gui.partial.AbstractTrackListView.mousePressed(), ene.models.PlayerModel.pause(), ene.views.gui.partial.PlayerView.render(), ene.models.PlayerModel.start(), ene.models.PlayerModel.update(), and ene.views.gui.partial.AbstractTrackListView.valueChanged().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.4.2.3 delay()

```
void ene.AbstractObject.delay (
    long milliseconds ) [protected]
```

Let's wait for a while in the current thread.

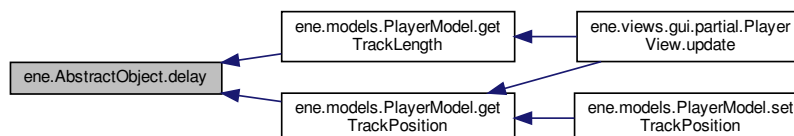
**Parameters**

<i>milliseconds</i>	Wait time in milliseconds.
---------------------	----------------------------

Definition at line 61 of file AbstractObject.java.

Referenced by ene.models.PlayerModel.getTrackLength(), and ene.models.PlayerModel.getTrackPosition().

Here is the caller graph for this function:

**7.4.2.4 disableDebugMode()**

```
static void ene.AbstractObject.disableDebugMode ( ) [static]
```

Disables debug mode.

Definition at line 27 of file AbstractObject.java.

References `ene.AbstractObject.debugModeEnabled`.

**7.4.2.5 enableDebugMode()**

```
static void ene.AbstractObject.enableDebugMode ( ) [static]
```

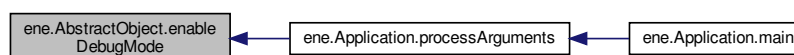
Enables debug mode.

Definition at line 20 of file AbstractObject.java.

References `ene.AbstractObject.debugModeEnabled`.

Referenced by `ene.Application.processArguments()`.

Here is the caller graph for this function:





## 7.4.2.6 isDebugEnabled()

```
static boolean ene.AbstractObject.isDebugEnabled ( ) [static]
```

Returns debug mode state.

## Returns

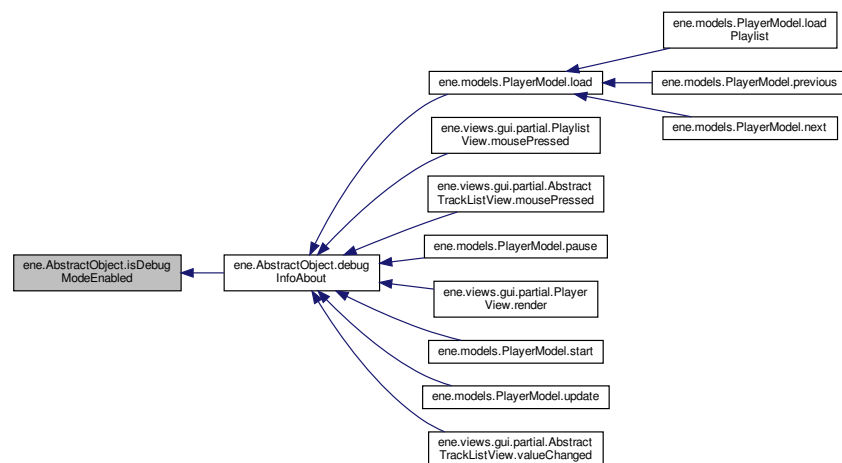
Returns TRUE, if the debug mode is enabled. Otherwise FALSE.

Definition at line 35 of file AbstractObject.java.

References ene.AbstractObject.debugModeEnabled.

Referenced by ene.AbstractObject.debugInfoAbout().

Here is the caller graph for this function:



## 7.4.3 Member Data Documentation

## 7.4.3.1 debugModeEnabled

```
boolean ene.AbstractObject.debugModeEnabled = false [static], [protected]
```

Debug mode state.

Definition at line 15 of file AbstractObject.java.

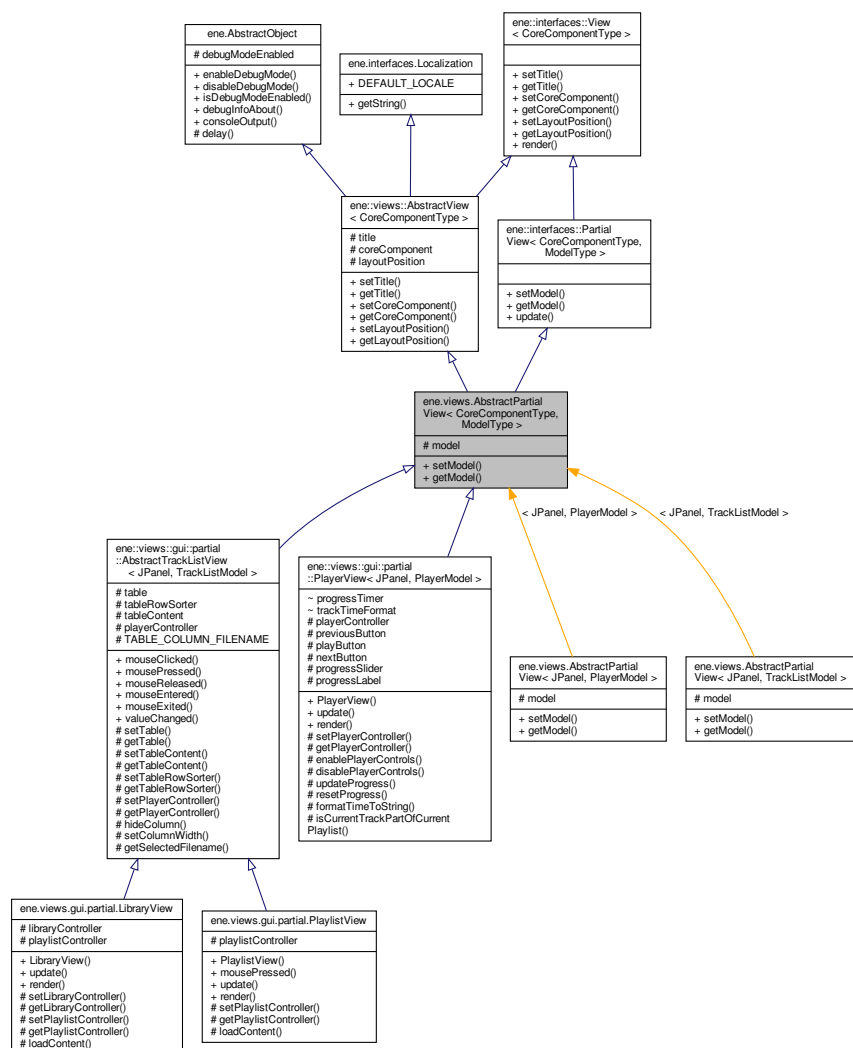
Referenced by `ene.AbstractObject.disableDebugMode()`, `ene.AbstractObject.enableDebugMode()`, and `ene.AbstractObject.isDebugEnabled()`.

The documentation for this class was generated from the following file:

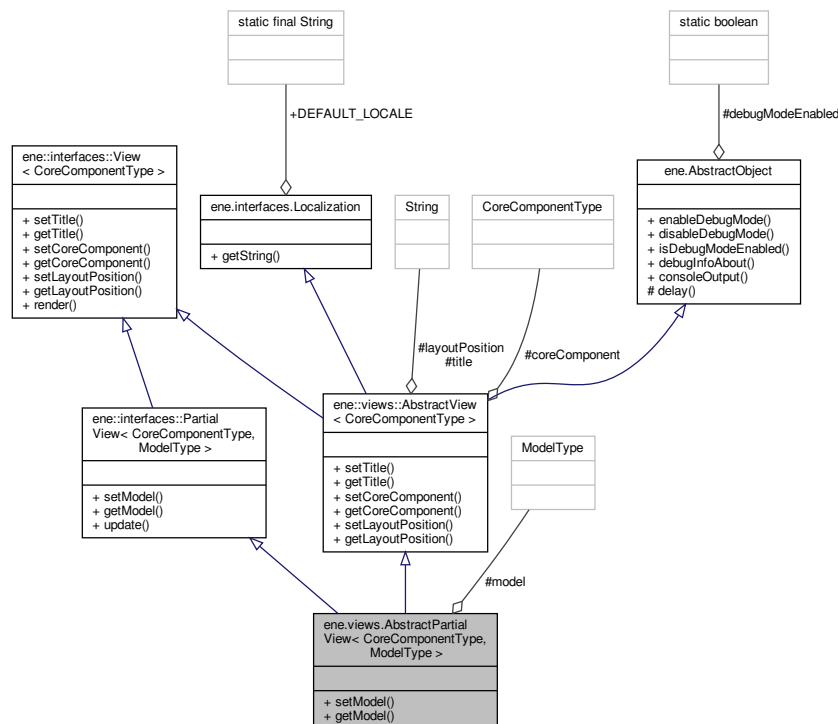
- [src/ene/AbstractObject.java](#)

## 7.5 ene.views.AbstractPartialView< CoreComponentType, ModelType > Class Template Reference

Inheritance diagram for ene.views.AbstractPartialView< CoreComponentType, ModelType >:



Collaboration diagram for ene.views.AbstractPartialView< CoreComponentType, ModelType >:



#### Public Member Functions

- void [setModel](#) ([Model model](#))
- [ModelType](#) [getModel](#) ()

#### Protected Attributes

- [ModelType](#) [model](#)

#### Additional Inherited Members

##### 7.5.1 Detailed Description

Abstract partial view.

Since

0.11.0

Version

1.0.0

Definition at line 12 of file `AbstractPartialView.java`.

## 7.5.2 Member Function Documentation

### 7.5.2.1 getModel()

```
ModelType ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel ( )
```

Returns the model instance.

#### Returns

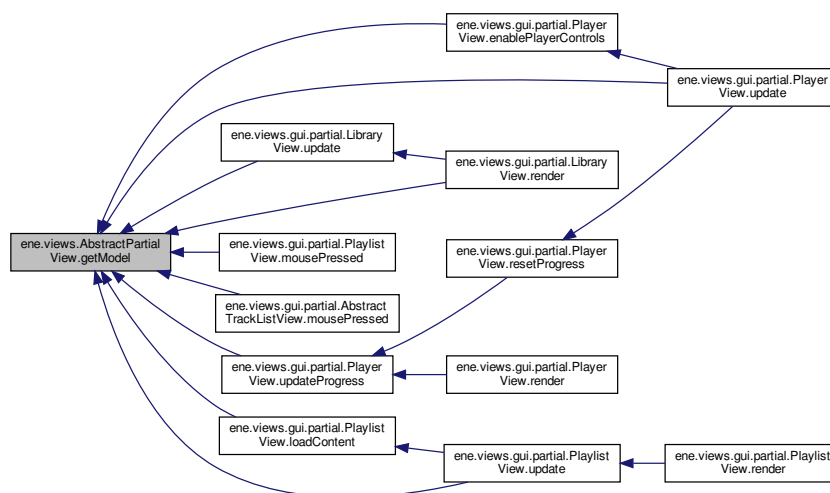
Model instance.

Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 25 of file AbstractPartialView.java.

Referenced by [ene.views.gui.partial.PlayerView.enablePlayerControls\(\)](#), [ene.views.gui.partial.PlaylistView.loadContent\(\)](#), [ene.views.gui.partial.PlaylistView.mousePressed\(\)](#), [ene.views.gui.partial.AbstractTrackListView.mousePressed\(\)](#), [ene.views.gui.partial.LibraryView.render\(\)](#), [ene.views.gui.partial.PlaylistView.update\(\)](#), [ene.views.gui.partial.LibraryView.update\(\)](#), [ene.views.gui.partial.PlayerView.update\(\)](#), and [ene.views.gui.partial.PlayerView.updateProgress\(\)](#).

Here is the caller graph for this function:



### 7.5.2.2 setModel()

```
void ene.views.AbstractPartialView< CoreComponentType, ModelType >.setModel (
    Model model )
```

Sets the model instance.

## Parameters

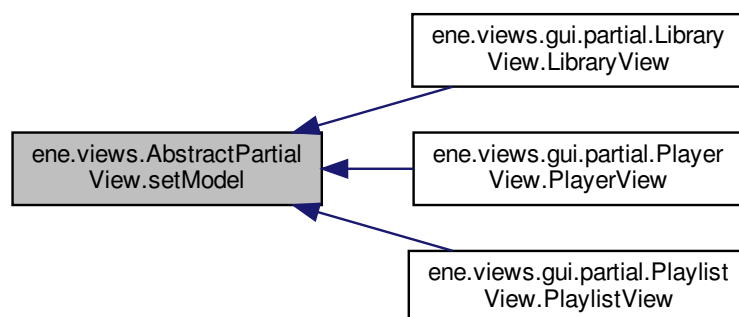
<i>model</i>	Model instance.
--------------	-----------------

Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 20 of file AbstractPartialView.java.

Referenced by [ene.views.gui.partial.LibraryView.LibraryView\(\)](#), [ene.views.gui.partial.PlayerView.PlayerView\(\)](#), and [ene.views.gui.partial.PlaylistView.PlaylistView\(\)](#).

Here is the caller graph for this function:



### 7.5.3 Member Data Documentation

#### 7.5.3.1 model

ModelType [ene.views.AbstractPartialView< CoreComponentType, ModelType >.model](#) [protected]

Model instance.

Definition at line 16 of file AbstractPartialView.java.

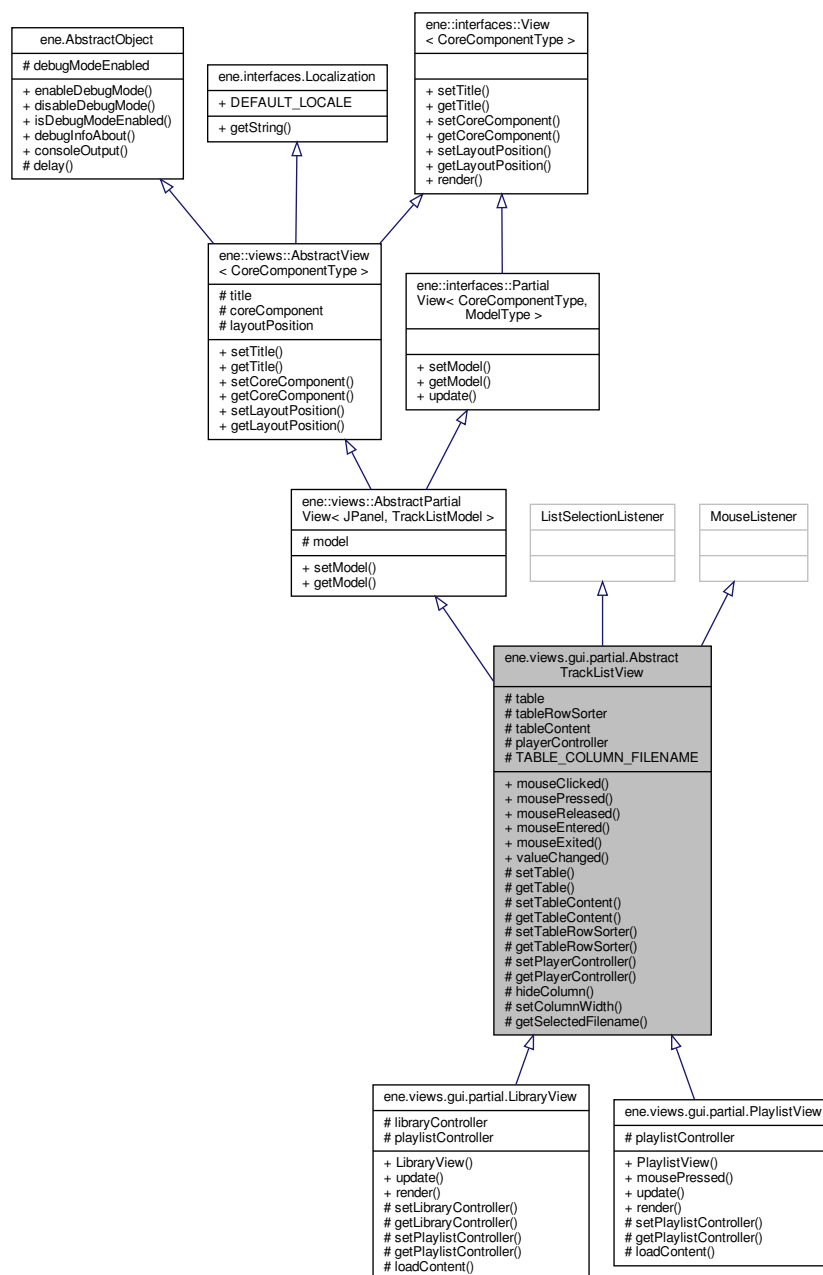
Referenced by [ene.views.AbstractPartialView< JPanel, TrackListModel >.getModel\(\)](#).

The documentation for this class was generated from the following file:

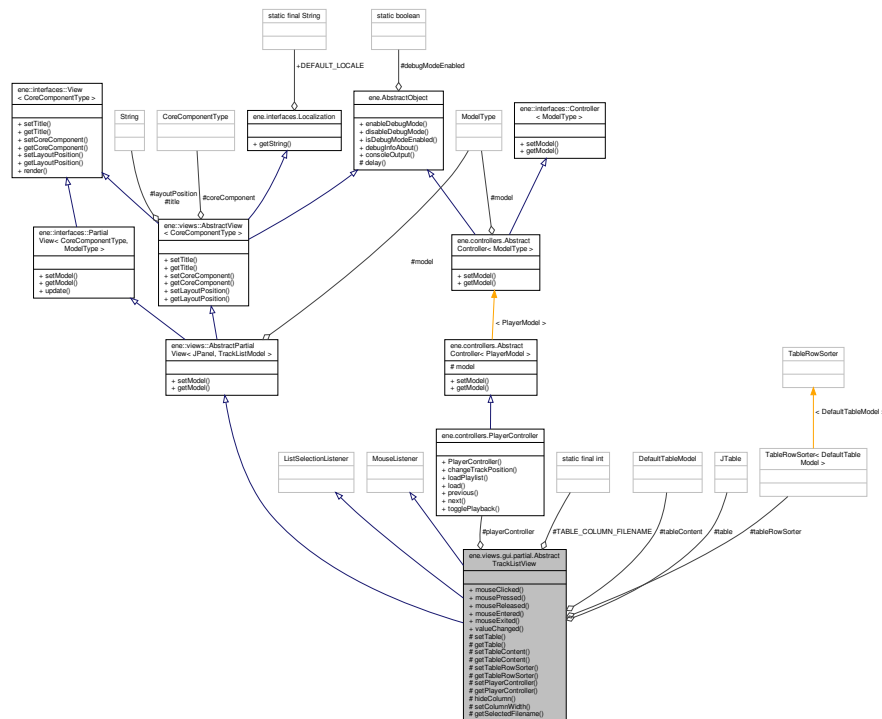
- [src/ene/views/AbstractPartialView.java](#)

## 7.6 ene.views.gui.partial.AbstractTrackListView Class Reference

Inheritance diagram for ene.views.gui.partial.AbstractTrackListView:



Collaboration diagram for ene.views.gui.partial.AbstractTrackListView:



## Public Member Functions

- void [mouseClicked](#) (MouseEvent event)
- void [mousePressed](#) (MouseEvent event)
- void [mouseReleased](#) (MouseEvent event)
- void [mouseEntered](#) (MouseEvent event)
- void [mouseExited](#) (MouseEvent event)
- void [valueChanged](#) (ListSelectionEvent event)

## Protected Member Functions

- void [setTable](#) (JTable table)
- JTable [getTable](#) ()
- void [setTableContent](#) (DefaultTableModel tableContent)
- DefaultTableModel [getTableContent](#) ()
- void [setTableRowSorter](#) (TableRowSorter< DefaultTableModel > tableRowSorter)
- TableRowSorter< DefaultTableModel > [getTableRowSorter](#) ()
- void [setPlayerController](#) (Controller playerController)
- PlayerController [getPlayerController](#) ()
- void [hideColumn](#) (JTable table, int columnIndex)
- void [setColumnWidth](#) (JTable table, int columnIndex, int width)
- String [getSelectedFilename](#) ()

## Protected Attributes

- JTable [table](#)
- TableRowSorter< DefaultTableModel > [tableRowSorter](#)
- DefaultTableModel [tableContent](#)
- PlayerController [playerController](#)

## Static Protected Attributes

- static final int `TABLE_COLUMN_FILENAME` = 0

## Additional Inherited Members

### 7.6.1 Detailed Description

Track list view.

#### Since

0.14.0

#### Version

2.2.0

Definition at line 21 of file `AbstractTrackListView.java`.

### 7.6.2 Member Function Documentation

#### 7.6.2.1 `getPlayerController()`

`PlayerController` `ene.views.gui.partial.AbstractTrackListView.getPlayerController ( )` [protected]

Returns the player controller instance.

#### Returns

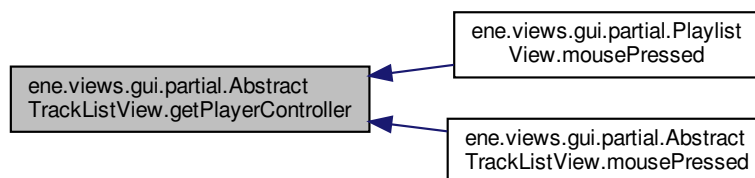
Player controller instance.

Definition at line 118 of file `AbstractTrackListView.java`.

References `ene.views.gui.partial.AbstractTrackListView.playerController`.

Referenced by `ene.views.gui.partial.PlaylistView.mousePressed()`, and `ene.views.gui.partial.AbstractTrackListView.mousePressed()`.

Here is the caller graph for this function:





### 7.6.2.2 `getSelectedFilename()`

```
String ene.views.gui.partial.AbstractTrackListView.getSelectedFilename ( ) [protected]
```

Returns the selected filename.

#### Returns

Selected filename or empty string, if nothing is selected.

#### Since

0.12.0

#### Version

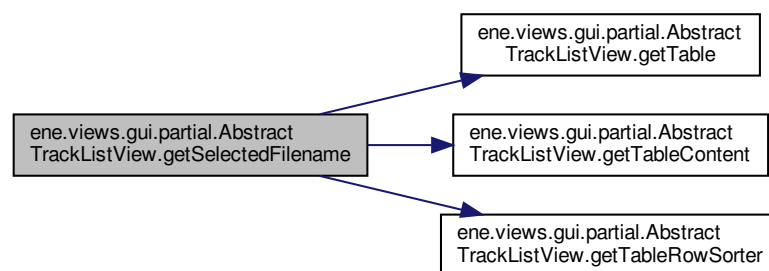
1.1.1

Definition at line 152 of file `AbstractTrackListView.java`.

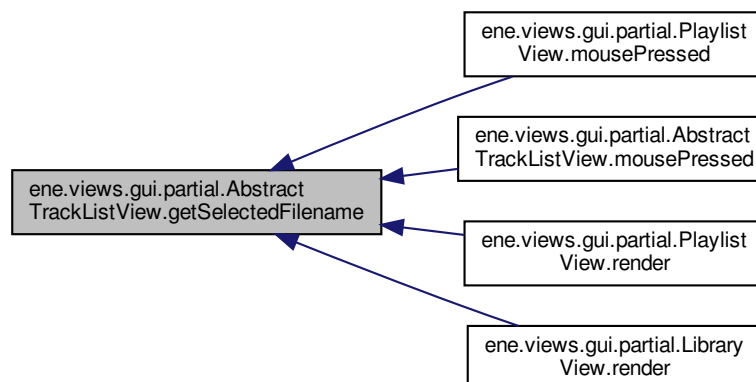
References `ene.views.gui.partial.AbstractTrackListView.getTable()`, `ene.views.gui.partial.AbstractTrackListView.getTableContent()`, and `ene.views.gui.partial.AbstractTrackListView.getTableRowSorter()`.

Referenced by `ene.views.gui.partial.PlaylistView.mousePressed()`, `ene.views.gui.partial.AbstractTrackListView.mousePressed()`, `ene.views.gui.partial.PlaylistView.render()`, and `ene.views.gui.partial.LibraryView.render()`.

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.6.2.3 `getTable()`

```
JTable ene.views.gui.partial.AbstractTrackListView.getTable ( ) [protected]
```

Returns the table instance.

#### Returns

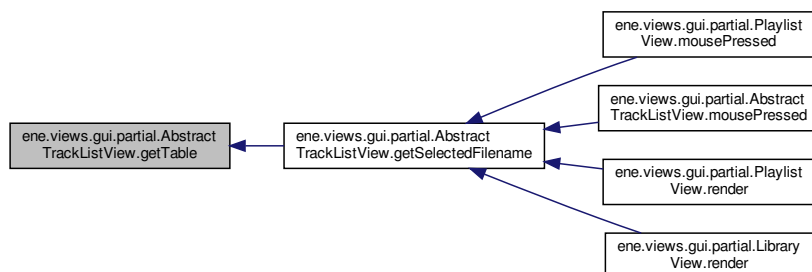
Table instance.

Definition at line 69 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.table.

Referenced by ene.views.gui.partial.AbstractTrackListView.getSelectedFilename().

Here is the caller graph for this function:



### 7.6.2.4 `getTableContent()`

```
DefaultTableModel ene.views.gui.partial.AbstractTrackListView.getTableContent ( ) [protected]
```

Returns the table content instance.

**Returns**

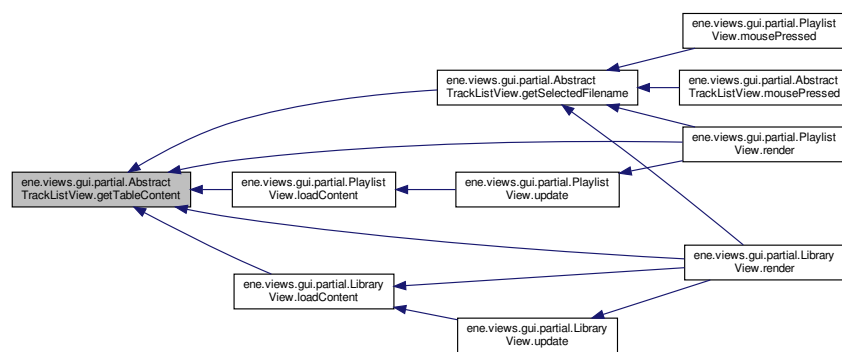
Table content instance.

Definition at line 85 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.tableContent.

Referenced by ene.views.gui.partial.AbstractTrackListView.getSelectedFilename(), ene.views.gui.partial.PlaylistView.loadContent(), ene.views.gui.partial.LibraryView.loadContent(), ene.views.gui.partial.PlaylistView.render(), and ene.views.gui.partial.LibraryView.render().

Here is the caller graph for this function:

**7.6.2.5 getTableRowSorter()**

```
TableRowSorter<DefaultTableModel> ene.views.gui.partial.AbstractTrackListView.getTableRowSorter ( ) [protected]
```

Returns the table row sorter instance.

**Returns**

Table row sorter instance.

**Since**

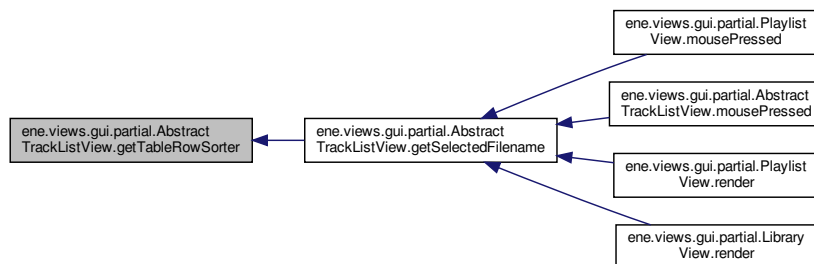
0.18.0

Definition at line 103 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.tableRowSorter.

Referenced by ene.views.gui.partial.AbstractTrackListView.getSelectedFilename().

Here is the caller graph for this function:



#### 7.6.2.6 hideColumn()

```
void ene.views.gui.partial.AbstractTrackListView.hideColumn (
    JTable table,
    int columnIndex ) [protected]
```

Hide table column.

##### Parameters

<i>table</i>	Table instance.
<i>columnIndex</i>	Column index.

##### Version

1.1.0

Definition at line 128 of file `AbstractTrackListView.java`.

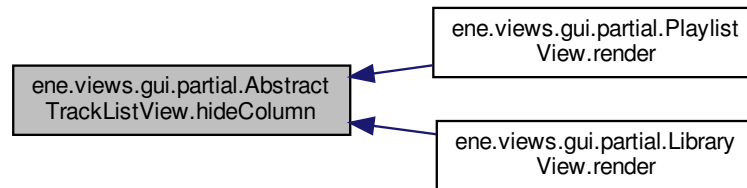
References `ene.views.gui.partial.AbstractTrackListView.setColumnWidth()`.

Referenced by `ene.views.gui.partial.PlaylistView.render()`, and `ene.views.gui.partial.LibraryView.render()`.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.6.2.7 mouseClicked()

```
void ene.views.gui.partial.AbstractTrackListView.mouseClicked (
    MouseEvent event )
```

Definition at line 173 of file `AbstractTrackListView.java`.

#### 7.6.2.8 mouseEntered()

```
void ene.views.gui.partial.AbstractTrackListView.mouseEntered (
    MouseEvent event )
```

Definition at line 189 of file `AbstractTrackListView.java`.

#### 7.6.2.9 mouseExited()

```
void ene.views.gui.partial.AbstractTrackListView.mouseExited (
    MouseEvent event )
```

Definition at line 192 of file `AbstractTrackListView.java`.

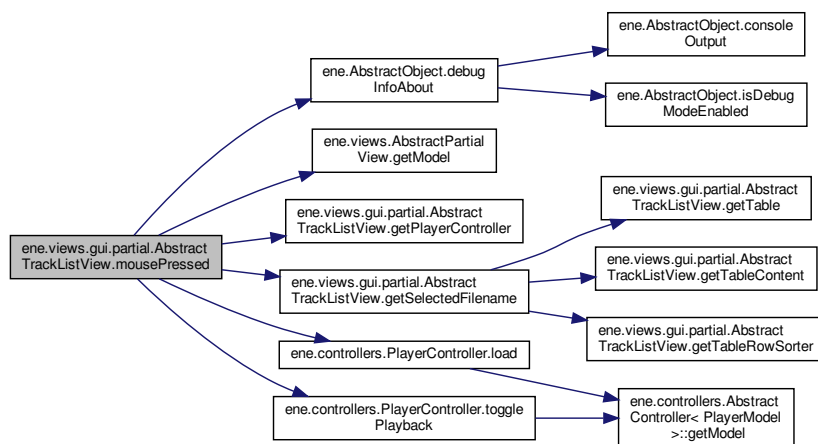
### 7.6.2.10 mousePressed()

```
void ene.views.gui.partial.AbstractTrackListView.mousePressed (
    MouseEvent event )
```

Definition at line 176 of file AbstractTrackListView.java.

References ene.AbstractObject.debugInfoAbout(), ene.views.AbstractPartialView< CoreComponentType, Model<Type> >.getModel(), ene.views.gui.partial.AbstractTrackListView.getPlayerController(), ene.views.gui.partial.AbstractTrackListView.getSelectedFilename(), ene.controllers.PlayerController.load(), and ene.controllers.PlayerController.togglePlayback().

Here is the call graph for this function:



### 7.6.2.11 mouseReleased()

```
void ene.views.gui.partial.AbstractTrackListView.mouseReleased (
    MouseEvent event )
```

Definition at line 186 of file AbstractTrackListView.java.

### 7.6.2.12 setColumnWidth()

```
void ene.views.gui.partial.AbstractTrackListView.setColumnWidth (
    JTable table,
    int columnIndex,
    int width ) [protected]
```

Sets table column width.

## Parameters

<i>table</i>	Table instance.
<i>columnIndex</i>	Column index.
<i>width</i>	Column width.

## Since

1.0.0

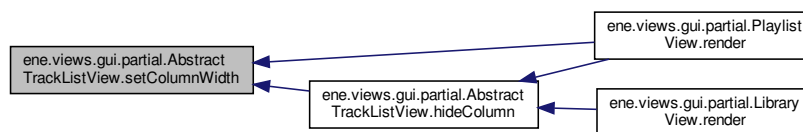
## Version

1.0.0

Definition at line 140 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.AbstractTrackListView.hideColumn(), and ene.views.gui.partial.PlaylistView.render().

Here is the caller graph for this function:



## 7.6.2.13 setPlayerController()

```
void ene.views.gui.partial.AbstractTrackListView.setPlayerController (
    Controller playerController ) [protected]
```

Sets the player controller instance.

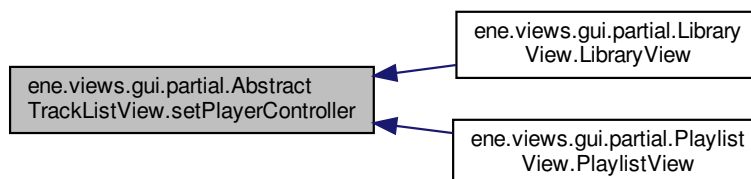
## Parameters

<i>playerController</i>	Player controller instance.
-------------------------	-----------------------------

Definition at line 110 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.LibraryView.LibraryView(), and ene.views.gui.partial.PlaylistView.PlaylistView().

Here is the caller graph for this function:



#### 7.6.2.14 setTable()

```
void ene.views.gui.partial.AbstractTrackListView.setTable (
    JTable table ) [protected]
```

Sets the table instance.

##### Parameters

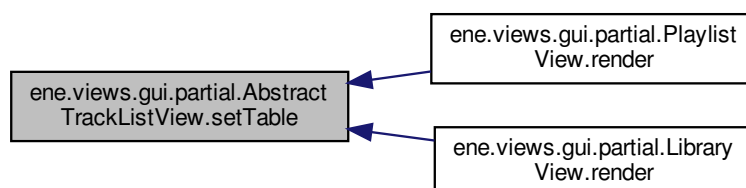
<i>table</i>	Table instance.
--------------	-----------------

Definition at line 61 of file `AbstractTrackListView.java`.

References `ene.views.gui.partial.AbstractTrackListView.table`.

Referenced by `ene.views.gui.partial.PlaylistView.render()`, and `ene.views.gui.partial.LibraryView.render()`.

Here is the caller graph for this function:



#### 7.6.2.15 setTableContent()

```
void ene.views.gui.partial.AbstractTrackListView.setTableContent (
    DefaultTableModel tableContent ) [protected]
```

Sets the table content instance.



## Parameters

<i>tableContent</i>	Table content instance.
---------------------	-------------------------

Definition at line 77 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.tableContent.

## 7.6.2.16 setTableRowSorter()

```
void ene.views.gui.partial.AbstractTrackListView.setTableRowSorter (
    TableRowSorter< DefaultTableModel > tableRowSorter ) [protected]
```

Sets the table row sorter instance.

## Parameters

<i>tableRowSorter</i>	Table row sorter instance.
-----------------------	----------------------------

## Since

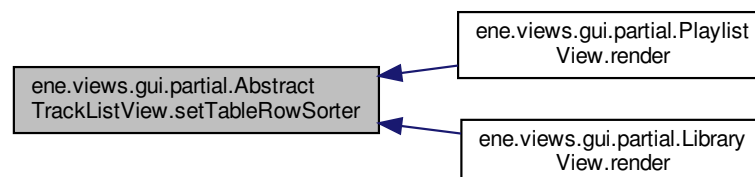
0.18.0

Definition at line 94 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.tableRowSorter.

Referenced by ene.views.gui.partial.PlaylistView.render(), and ene.views.gui.partial.LibraryView.render().

Here is the caller graph for this function:



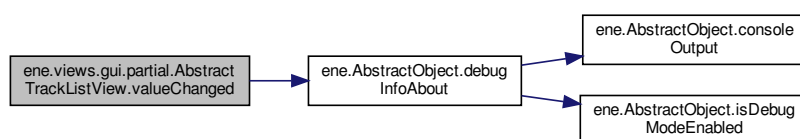
### 7.6.2.17 valueChanged()

```
void ene.views.gui.partial.AbstractTrackListView.valueChanged (
    ListSelectionEvent event )
```

Definition at line 195 of file AbstractTrackListView.java.

References ene.AbstractObject.debugInfoAbout().

Here is the call graph for this function:



## 7.6.3 Member Data Documentation

### 7.6.3.1 playerController

```
PlayerController ene.views.gui.partial.AbstractTrackListView.playerController [protected]
```

Player controller instance.

Definition at line 55 of file AbstractTrackListView.java.

Referenced by `ene.views.gui.partial.AbstractTrackListView.getPlayerController()`, and `ene.views.gui.partial.PlaylistView.mousePressed()`.

### 7.6.3.2 table

```
JTable ene.views.gui.partial.AbstractTrackListView.table [protected]
```

Table instance.

Definition at line 30 of file AbstractTrackListView.java.

Referenced by `ene.views.gui.partial.AbstractTrackListView.getTable()`, `ene.views.gui.partial.PlaylistView.render()`, `ene.views.gui.partial.LibraryView.render()`, and `ene.views.gui.partial.AbstractTrackListView.setTable()`.

### 7.6.3.3 TABLE\_COLUMN\_FILENAME

```
final int ene.views.gui.partial.AbstractTrackListView.TABLE_COLUMN_FILENAME = 0 [static],  
[protected]
```

File path table column.

Definition at line 25 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.PlaylistView.render(), and ene.views.gui.partial.LibraryView.render().

### 7.6.3.4 tableContent

```
DefaultTableModel ene.views.gui.partial.AbstractTrackListView.tableContent [protected]
```

**Initial value:**

```
= new DefaultTableModel() {  
    private static final long serialVersionUID = 1L;  
    @Override  
    public boolean isCellEditable(int row, int column) {  
        return false;  
    }  
}
```

Table content instance.

Definition at line 40 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.AbstractTrackListView.getTableContent(), ene.views.gui.partial.PlaylistView.loadContent(), ene.views.gui.partial.LibraryView.loadContent(), ene.views.gui.partial.PlaylistView.render(), ene.views.gui.partial.LibraryView.render(), and ene.views.gui.partial.AbstractTrackListView.setTableContent().

### 7.6.3.5 tableRowSorter

```
TableRowSorter<DefaultTableModel> ene.views.gui.partial.AbstractTrackListView.tableRowSorter  
[protected]
```

Table row sorter instance.

Definition at line 35 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.AbstractTrackListView.getTableRowSorter(), ene.views.gui.partial.PlaylistView.render(), ene.views.gui.partial.LibraryView.render(), and ene.views.gui.partial.AbstractTrackListView.setTableRowSorter().

The documentation for this class was generated from the following file:

- src/ene/views/gui/partial/[AbstractTrackListView.java](#)



- String [getTitle](#) ()
- void [setCoreComponent](#) (CoreComponentType [coreComponent](#))
- CoreComponentType [getCoreComponent](#) ()
- void [setLayoutPosition](#) (String [layoutPosition](#))
- String [getLayoutPosition](#) ()

#### Protected Attributes

- String [title](#) = ""
- CoreComponentType [coreComponent](#)
- String [layoutPosition](#)

#### Additional Inherited Members

##### 7.7.1 Detailed Description

Abstract view.

#### Version

1.1.0

Definition at line 11 of file AbstractView.java.

##### 7.7.2 Member Function Documentation

###### 7.7.2.1 [getCoreComponent\(\)](#)

CoreComponentType [ene.views.AbstractView](#)< CoreComponentType >.getCoreComponent ( )

Returns the core component instance.

#### Returns

Core component instance.

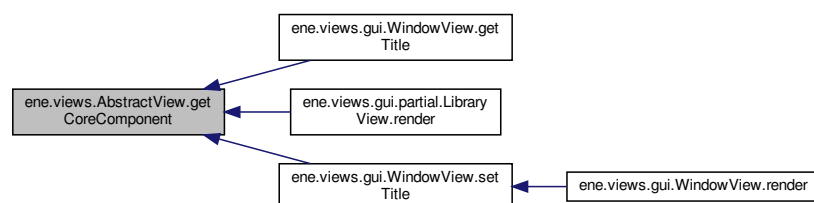
Implements [ene.interfaces.View](#)< [CoreComponentType](#) >.

Definition at line 43 of file AbstractView.java.

References [ene.views.AbstractView](#)< [CoreComponentType](#) >.coreComponent.

Referenced by [ene.views.gui.WindowView.getTitle\(\)](#), [ene.views.gui.partial.LibraryView.render\(\)](#), and [ene.views.gui.WindowView.setTitle\(\)](#).

Here is the caller graph for this function:



### 7.7.2.2 `getLayoutPosition()`

```
String ene.views.AbstractView< CoreComponentType >.getLayoutPosition ( )
```

Returns the layout position.

#### Returns

Layout position.

Implements [ene.interfaces.View](#)< [CoreComponentType](#) >.

Definition at line 53 of file `AbstractView.java`.

References `ene.views.AbstractView`< `CoreComponentType` >.`layoutPosition`.

### 7.7.2.3 `getTitle()`

```
String ene.views.AbstractView< CoreComponentType >.getTitle ( )
```

Returns the title.

#### Returns

Title.

#### Since

0.13.0

Implements [ene.interfaces.View](#)< [CoreComponentType](#) >.

Definition at line 33 of file `AbstractView.java`.

References `ene.views.AbstractView`< `CoreComponentType` >.`title`.

### 7.7.2.4 `setCoreComponent()`

```
void ene.views.AbstractView< CoreComponentType >.setCoreComponent (
    CoreComponentType coreComponent )
```

Sets the core component instance.

#### Parameters

<code>coreComponent</code>	Core component instance.
----------------------------	--------------------------

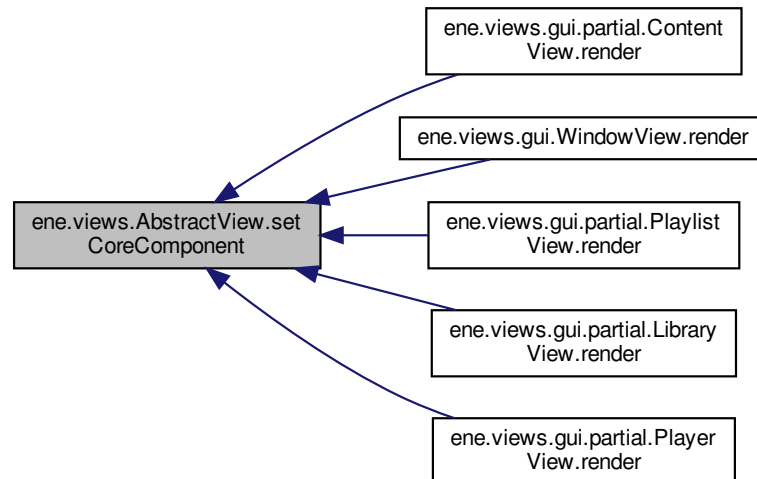
Implements [ene.interfaces.View](#)< [CoreComponentType](#) >.

Definition at line 38 of file AbstractView.java.

References ene.views.AbstractView< CoreComponentType >.coreComponent.

Referenced by ene.views.gui.partial.ContentView.render(), ene.views.gui.WindowView.render(), ene.views.gui.partial.PlaylistView.render(), ene.views.gui.partial.LibraryView.render(), and ene.views.gui.partial.PlayerView.render().

Here is the caller graph for this function:



### 7.7.2.5 setLayoutPosition()

```
void ene.views.AbstractView< CoreComponentType >.setLayoutPosition (
    String layoutPosition )
```

Sets the layout position.

#### Parameters

<i>layoutPosition</i>	Layout position.
-----------------------	------------------

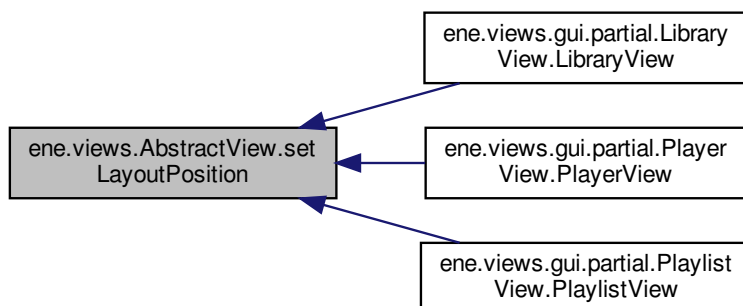
Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 48 of file AbstractView.java.

References ene.views.AbstractView< CoreComponentType >.layoutPosition.

Referenced by ene.views.gui.partial.LibraryView.LibraryView(), ene.views.gui.partial.PlayerView.PlayerView(), and ene.views.gui.partial.PlaylistView.PlaylistView().

Here is the caller graph for this function:



#### 7.7.2.6 setTitle()

```
void ene.views.AbstractView< CoreComponentType >.setTitle (
    String title )
```

Sets the title.

##### Parameters

<i>title</i>	Title.
--------------	--------

Since

0.13.0

Implements [ene.interfaces.View< CoreComponentType >](#).

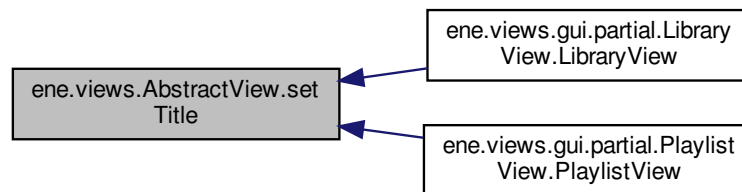
Definition at line 28 of file AbstractView.java.

References `ene.views.AbstractView< CoreComponentType >.title`.

Referenced by `ene.views.gui.partial.LibraryView.LibraryView()`, and `ene.views.gui.partial.PlaylistView.PlaylistView()`.



Here is the caller graph for this function:



### 7.7.3 Member Data Documentation

#### 7.7.3.1 coreComponent

CoreComponentType `ene.views.AbstractView< CoreComponentType >.coreComponent` [protected]

Core component instance.

Definition at line 20 of file `AbstractView.java`.

Referenced by `ene.views.AbstractView< CoreComponentType >.getCoreComponent()`, and `ene.views.AbstractView< CoreComponentType >.setCoreComponent()`.

#### 7.7.3.2 layoutPosition

String `ene.views.AbstractView< CoreComponentType >.layoutPosition` [protected]

Layout position.

Definition at line 25 of file `AbstractView.java`.

Referenced by `ene.views.AbstractView< CoreComponentType >.getLayoutPosition()`, and `ene.views.AbstractView< CoreComponentType >.setLayoutPosition()`.

#### 7.7.3.3 title

String `ene.views.AbstractView< CoreComponentType >.title` = "" [protected]

Title.

Definition at line 15 of file `AbstractView.java`.

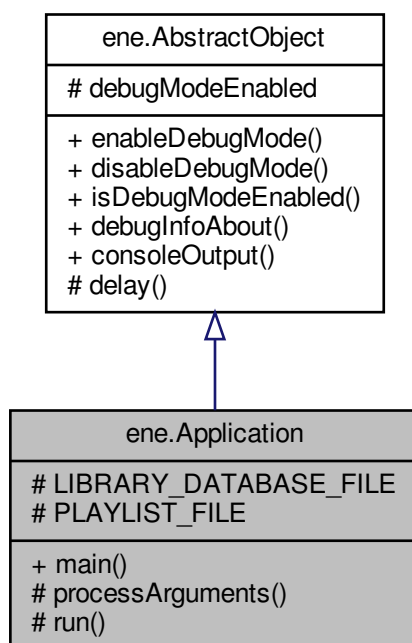
Referenced by `ene.views.AbstractView< CoreComponentType >.getTitle()`, `ene.views.gui.partial.LibraryView.render()`, and `ene.views.AbstractView< CoreComponentType >.setTitle()`.

The documentation for this class was generated from the following file:

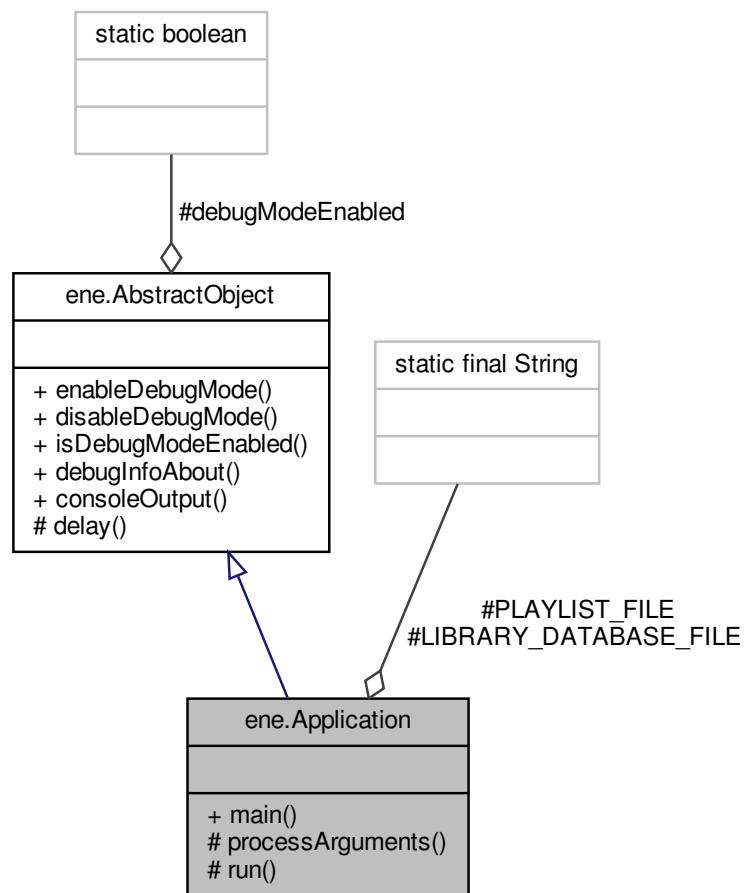
- `src/ene/views/AbstractView.java`

## 7.8 ene.Application Class Reference

Inheritance diagram for ene.Application:



Collaboration diagram for ene.Application:



#### Static Public Member Functions

- static void `main` (String args[])

#### Static Protected Member Functions

- static void `processArguments` (String arguments[])
- static void `run` ()

#### Static Protected Attributes

- static final String `LIBRARY_DATABASE_FILE` = "library.db"
- static final String `PLAYLIST_FILE` = "playlist.m3u"

## Additional Inherited Members

### 7.8.1 Detailed Description

Bootstrap class.

#### Since

0.8.0

#### Version

1.3.0

Definition at line 24 of file Application.java.

### 7.8.2 Member Function Documentation

#### 7.8.2.1 main()

```
static void ene.Application.main (  
    String args[] ) [static]
```

Entry point.

#### Parameters

<i>args</i>	Arguments.
-------------	------------

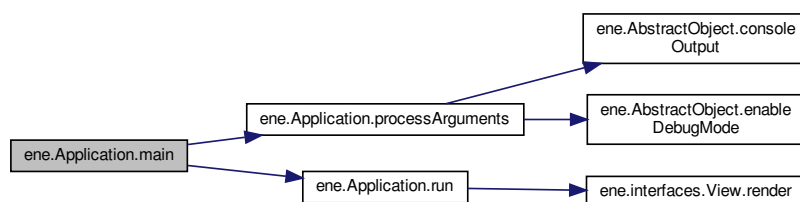
#### Version

1.0.0

Definition at line 41 of file Application.java.

References ene.Application.processArguments(), and ene.Application.run().

Here is the call graph for this function:



### 7.8.2.2 processArguments()

```
static void ene.Application.processArguments (  
    String arguments[] ) [static], [protected]
```

Processes arguments.

#### Parameters

<i>arguments</i>	Arguments.
------------------	------------

#### Version

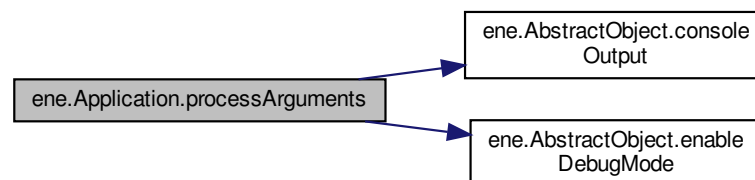
1.0.0

Definition at line 51 of file Application.java.

References ene.AbstractObject.consoleOutput(), and ene.AbstractObject.enableDebugMode().

Referenced by ene.Application.main().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.8.2.3 run()

```
static void ene.Application.run ( ) [static], [protected]
```

Runs application.

#### Version

1.2.0

Definition at line 72 of file Application.java.

References ene.interfaces.View< CoreComponentType >.render().

Referenced by ene.Application.main().

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.8.3 Member Data Documentation

### 7.8.3.1 LIBRARY\_DATABASE\_FILE

```
final String ene.Application.LIBRARY_DATABASE_FILE = "library.db" [static], [protected]
```

Library database file path.

Definition at line 28 of file Application.java.

## 7.8.3.2 PLAYLIST\_FILE

```
final String ene.Application.PLAYLIST_FILE = "playlist.m3u" [static], [protected]
```

Playlist file path.

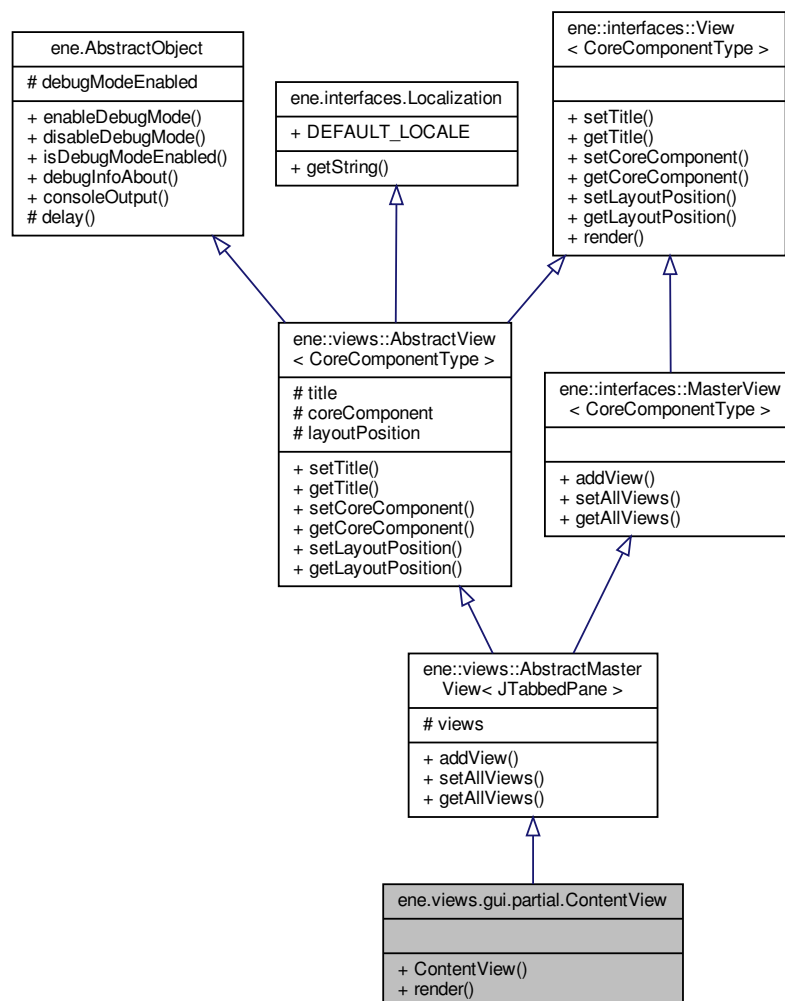
Definition at line 33 of file Application.java.

The documentation for this class was generated from the following file:

- [src/ene/Application.java](#)

## 7.9 ene.views.gui.partial.ContentView Class Reference

Inheritance diagram for ene.views.gui.partial.ContentView:







## 7.9.2 Constructor & Destructor Documentation

### 7.9.2.1 ContentView()

```
ene.views.gui.partial.ContentView.ContentView (  
    View ... views )
```

Constructor.

Parameters

<i>views</i>	View instances.
--------------	-----------------

Definition at line 18 of file ContentView.java.

References `ene.views.AbstractMasterView< CoreComponentType >.addView()`.

Here is the call graph for this function:



## 7.9.3 Member Function Documentation

### 7.9.3.1 render()

```
void ene.views.gui.partial.ContentView.render ( )
```

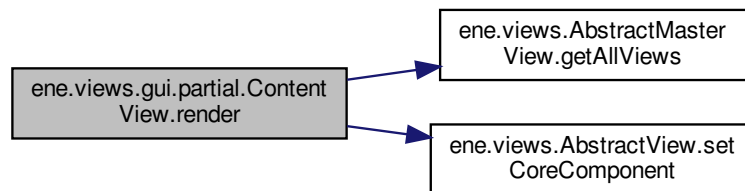
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 25 of file ContentView.java.

References `ene.views.AbstractMasterView< CoreComponentType >.getAllViews()`, and `ene.views.AbstractView< CoreComponentType >.setCoreComponent()`.

Here is the call graph for this function:

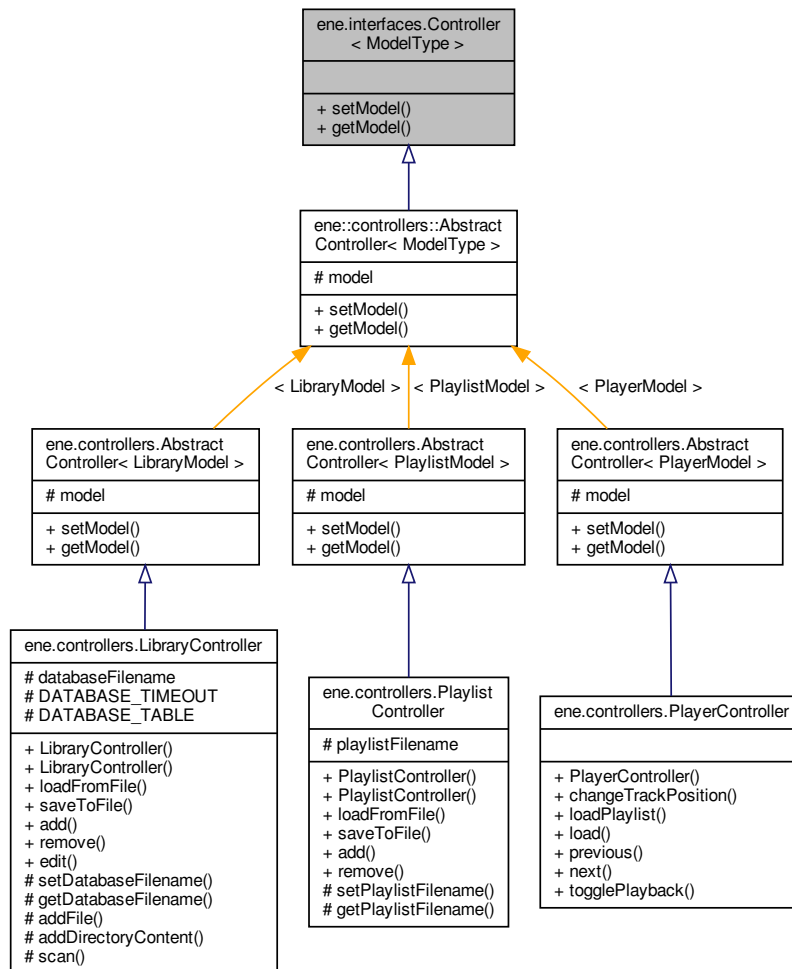


The documentation for this class was generated from the following file:

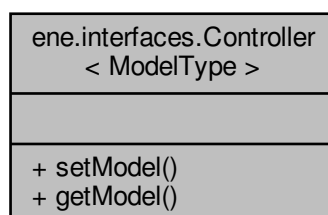
- `src/ene/views/gui/partial/ContentView.java`

## 7.10 ene.interfaces.Controller&lt; ModelType &gt; Interface Template Reference

Inheritance diagram for ene.interfaces.Controller< ModelType >:



Collaboration diagram for ene.interfaces.Controller< ModelType >:



## Public Member Functions

- void [setModel](#) ([Model](#) model)
- [ModelType](#) [getModel](#) ()

### 7.10.1 Detailed Description

[Controller](#).

#### Version

1.0.0

Definition at line 9 of file [Controller.java](#).

### 7.10.2 Member Function Documentation

#### 7.10.2.1 [getModel\(\)](#)

[ModelType](#) [ene.interfaces.Controller](#)< [ModelType](#) >.[getModel](#) ( )

Returns the model instance.

#### Returns

[Model](#) instance.

Implemented in [ene.controllers.AbstractController](#)< [ModelType](#) >.

#### 7.10.2.2 [setModel\(\)](#)

void [ene.interfaces.Controller](#)< [ModelType](#) >.[setModel](#) (  
    [Model](#) model )

Sets the model instance.

#### Parameters

<i>model</i>	<a href="#">Model</a> instance.
--------------	---------------------------------

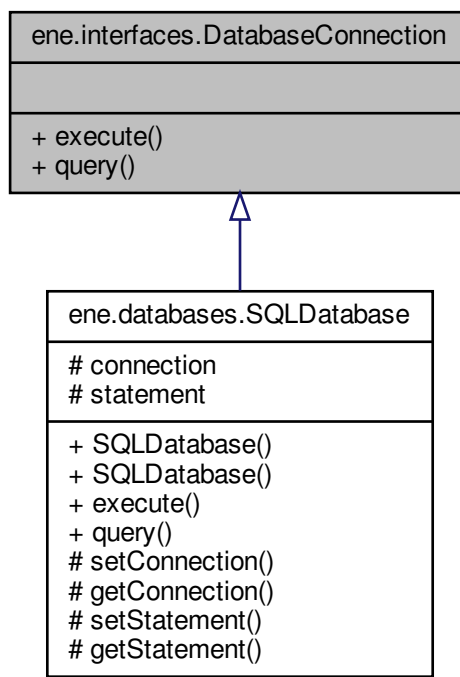
Implemented in [ene.controllers.AbstractController](#)< [ModelType](#) >.

The documentation for this interface was generated from the following file:

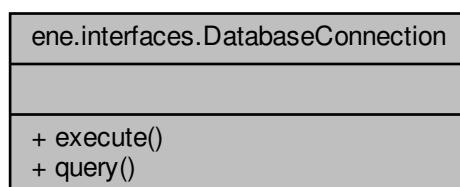
- [src/ene/interfaces/Controller.java](#)

## 7.11 ene.interfaces.DatabaseConnection Interface Reference

Inheritance diagram for ene.interfaces.DatabaseConnection:



Collaboration diagram for ene.interfaces.DatabaseConnection:



#### Public Member Functions

- int `execute` (String statement) throws Exception
- List< Map< String, String > > `query` (String statement) throws Exception

### 7.11.1 Detailed Description

Database connection.

Since

0.9.0

Version

1.0.0

Definition at line 11 of file DatabaseConnection.java.

### 7.11.2 Member Function Documentation

#### 7.11.2.1 execute()

```
int ene.interfaces.DatabaseConnection.execute (
    String statement ) throws Exception
```

Executes statement.

Parameters

<i>statement</i>	Statement.
------------------	------------

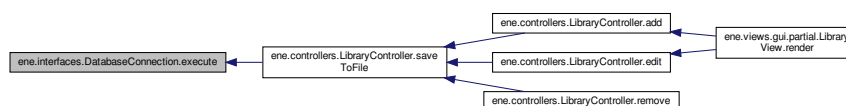
Returns

Number of affected rows.

Implemented in [ene.databases.SQLDatabase](#).

Referenced by `ene.controllers.LibraryController.saveToFile()`.

Here is the caller graph for this function:



#### 7.11.2.2 query()

```
List<Map<String,String> > ene.interfaces.DatabaseConnection.query (
    String statement ) throws Exception
```

Query statement.

## Parameters

<i>statement</i>	Statement.
------------------	------------

## Returns

Returns a list of maps of rows.

Implemented in [ene.databases.SQLDatabase](#).

Referenced by ene.controllers.LibraryController.loadFromFile().

Here is the caller graph for this function:

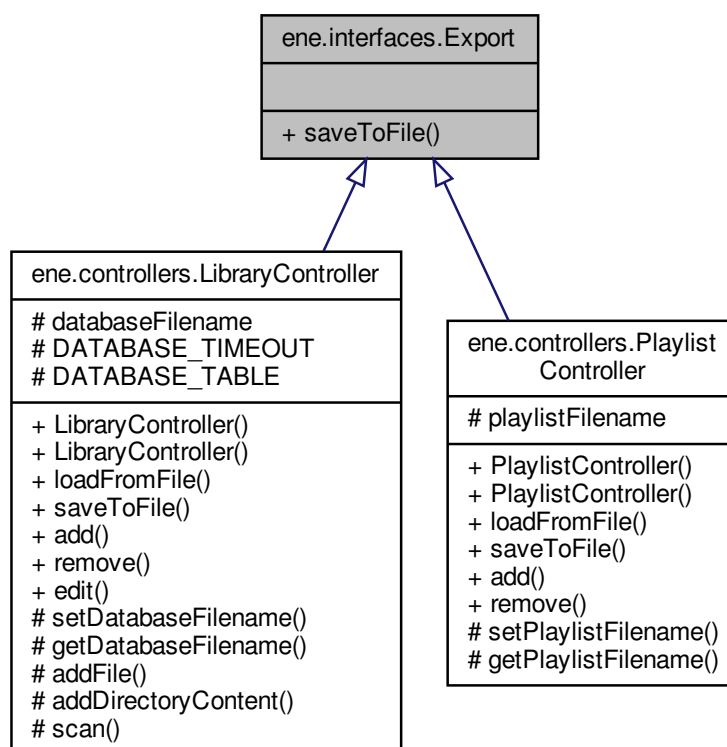


The documentation for this interface was generated from the following file:

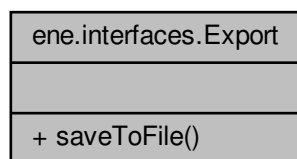
- src/ene/interfaces/[DatabaseConnection.java](#)

## 7.12 ene.interfaces.Export Interface Reference

Inheritance diagram for ene.interfaces.Export:



Collaboration diagram for ene.interfaces.Export:



#### Public Member Functions

- boolean [saveToFile](#) (String filename)

#### 7.12.1 Detailed Description

[Export](#) interface.

##### Since

1.0.0

##### Version

1.0.0

Definition at line 8 of file Export.java.

#### 7.12.2 Member Function Documentation

##### 7.12.2.1 [saveToFile\(\)](#)

```
boolean ene.interfaces.Export.saveToFile (
    String filename )
```

Saves data to a file.

##### Parameters

<i>filename</i>	File path.
-----------------	------------



**Returns**

Returns TRUE if successful. Otherwise FALSE.

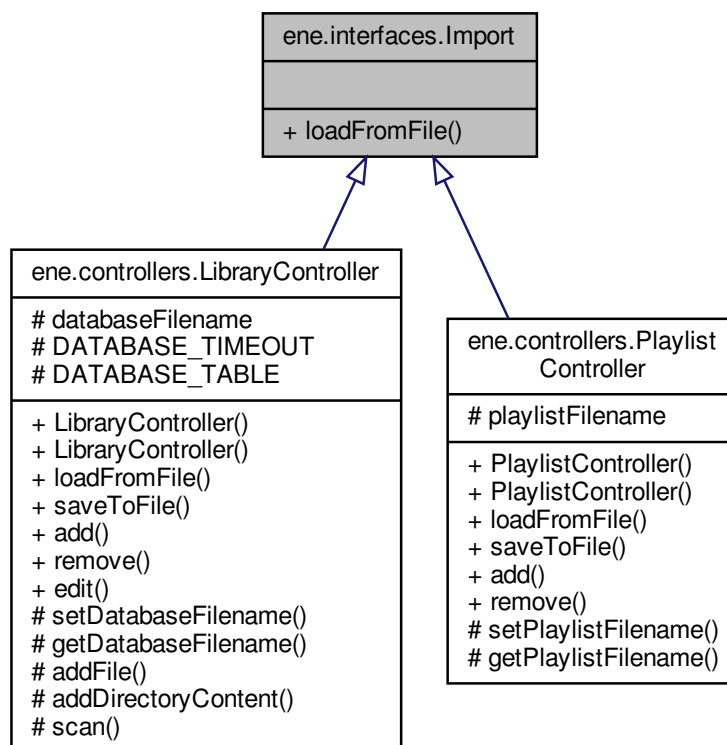
Implemented in [ene.controllers.LibraryController](#), and [ene.controllers.PlaylistController](#).

The documentation for this interface was generated from the following file:

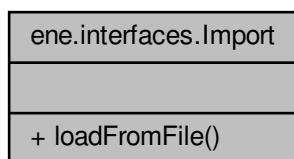
- [src/ene/interfaces/Export.java](#)

**7.13 ene.interfaces.Import Interface Reference**

Inheritance diagram for ene.interfaces.Import:



Collaboration diagram for ene.interfaces.Import:



#### Public Member Functions

- boolean `loadFromFile` (String filename)

#### 7.13.1 Detailed Description

`Import` interface.

#### Since

1.0.0

#### Version

1.0.0

Definition at line 8 of file `Import.java`.

#### 7.13.2 Member Function Documentation

##### 7.13.2.1 `loadFromFile()`

```
boolean ene.interfaces.Import.loadFromFile (  
    String filename )
```

Loads data from a file.

#### Parameters

<i>filename</i>	File path.
-----------------	------------

## Returns

Returns TRUE if successful. Otherwise FALSE.

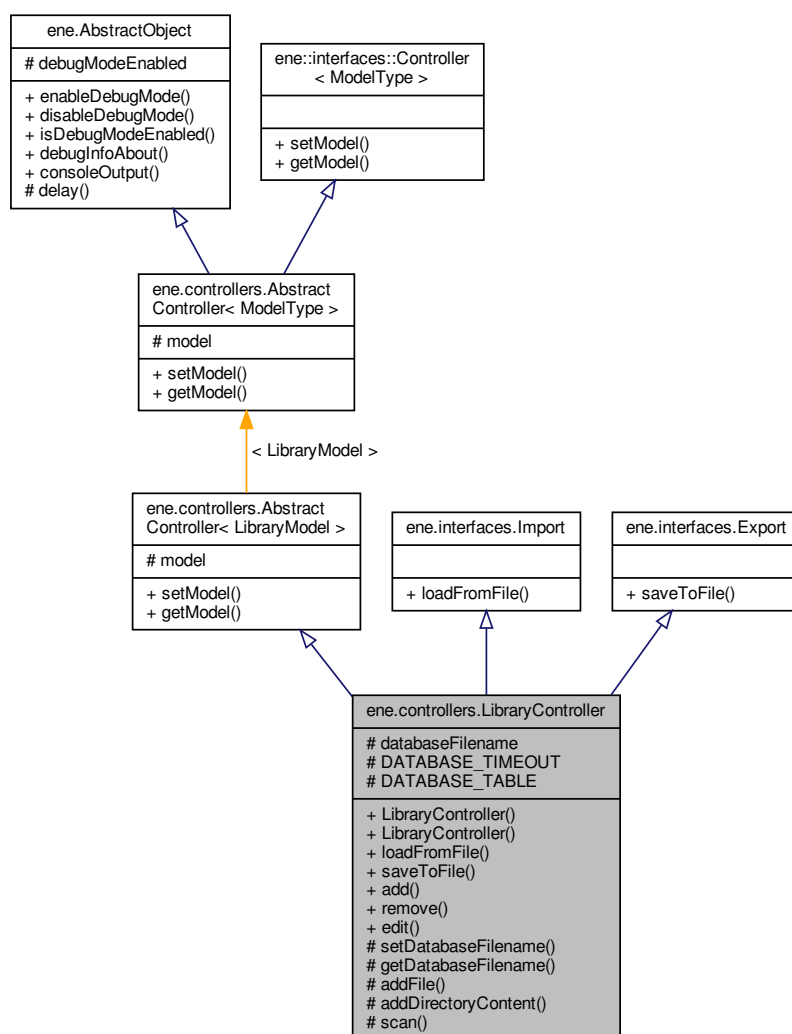
Implemented in [ene.controllers.LibraryController](#), and [ene.controllers.PlaylistController](#).

The documentation for this interface was generated from the following file:

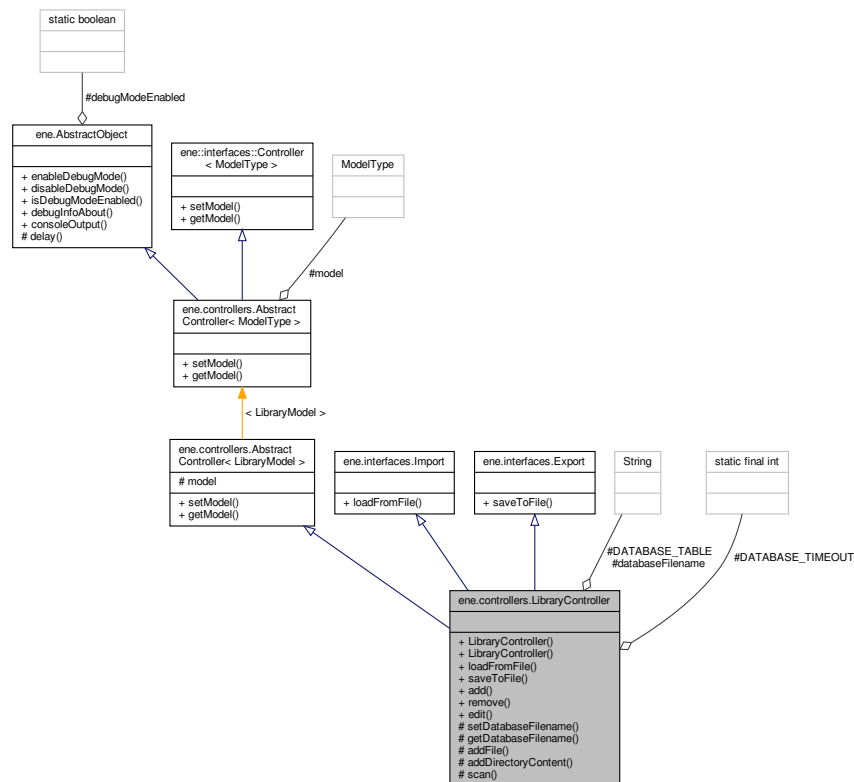
- [src/ene/interfaces/Import.java](#)

## 7.14 ene.controllers.LibraryController Class Reference

Inheritance diagram for ene.controllers.LibraryController:



Collaboration diagram for ene.controllers.LibraryController:



## Public Member Functions

- [LibraryController](#) ([Model model](#))
- [LibraryController](#) ([Model model](#), [String databaseFilename](#))
- boolean [loadFromFile](#) ([String filename](#))
- boolean [saveToFile](#) ([String filename](#))
- boolean [add](#) ([String filename](#))
- boolean [remove](#) ([String filename](#))
- boolean [edit](#) ([TrackModel track](#))

## Protected Member Functions

- void [setDatabaseFilename](#) ([String filename](#))
- [String getDatabaseFilename](#) ()
- boolean [addFile](#) ([File file](#), [String ... genre](#))
- boolean [addDirectoryContent](#) ([File directory](#))
- int [scan](#) ([File path](#), [String ... genre](#))

## Protected Attributes

- [String databaseFilename](#)

### Static Protected Attributes

- static final int `DATABASE_TIMEOUT` = 30
- static final String `DATABASE_TABLE` = "tracks"

#### 7.14.1 Detailed Description

Library controller.

### Version

4.0.1

Definition at line 19 of file LibraryController.java.

#### 7.14.2 Constructor & Destructor Documentation

##### 7.14.2.1 LibraryController() [1/2]

```
ene.controllers.LibraryController.LibraryController (  
    Model model )
```

Constructor.

### Parameters

<i>model</i>	Library model instance.
--------------	-------------------------

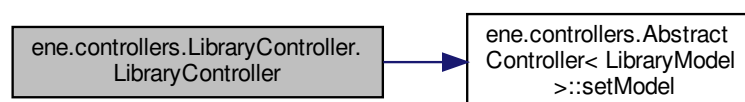
### Version

1.0.0

Definition at line 58 of file LibraryController.java.

References `ene.controllers.AbstractController< LibraryModel >.setModel()`.

Here is the call graph for this function:



### 7.14.2.2 LibraryController() [2/2]

```
ene.controllers.LibraryController.LibraryController (
    Model model,
    String databaseFilename )
```

Constructor.

Parameters

<i>model</i>	Library model instance.
<i>databaseFilename</i>	Database file path.

Since

0.16.0

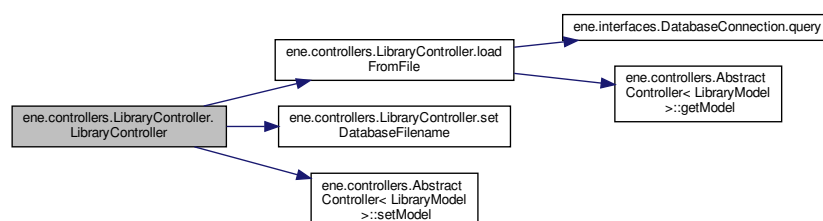
Version

1.0.0

Definition at line 69 of file LibraryController.java.

References `ene.controllers.LibraryController.loadFromFile()`, `ene.controllers.LibraryController.setDatabaseFilename()`, and `ene.controllers.AbstractController< LibraryModel >.setModel()`.

Here is the call graph for this function:



### 7.14.3 Member Function Documentation

#### 7.14.3.1 add()

```
boolean ene.controllers.LibraryController.add (
    String filename )
```

Adds a file to the library.

## Parameters

<i>filename</i>	File path.
-----------------	------------

## Returns

Returns TRUE, if successful. Otherwise FALSE.

## Since

0.12.0

## Version

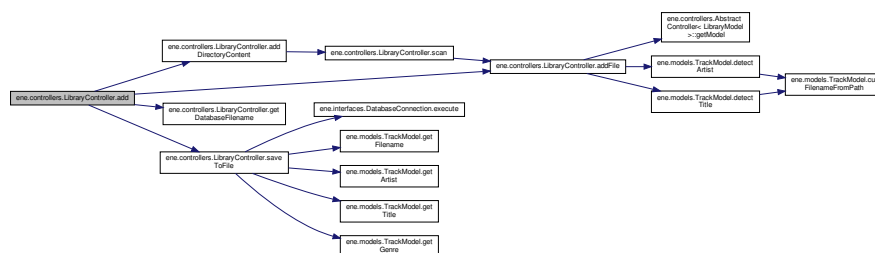
1.1.1

Definition at line 143 of file LibraryController.java.

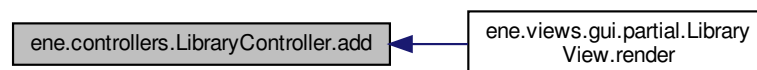
References `ene.controllers.LibraryController.addDirectoryContent()`, `ene.controllers.LibraryController.addFile()`, `ene.controllers.LibraryController.getDatabaseFilename()`, and `ene.controllers.LibraryController.saveToFile()`.

Referenced by `ene.views.gui.partial.LibraryView.render()`.

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.14.3.2 addDirectoryContent()

```
boolean ene.controllers.LibraryController.addDirectoryContent (
    File directory ) [protected]
```

Adds the files of a whole directory to the library.

**Parameters**

<i>directory</i>	File instance of the directory.
------------------	---------------------------------

**Returns**

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 212 of file LibraryController.java.

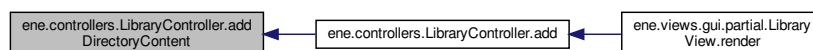
References ene.controllers.LibraryController.scan().

Referenced by ene.controllers.LibraryController.add().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.14.3.3 addFile()**

```
boolean ene.controllers.LibraryController.addFile (
    File file,
    String ... genre ) [protected]
```

Adds a file to the library.

**Parameters**

<i>file</i>	File instance.
<i>genre</i>	Given track genre (Optional, for internal usage only).

**Returns**

Returns TRUE, if successful. Otherwise FALSE.

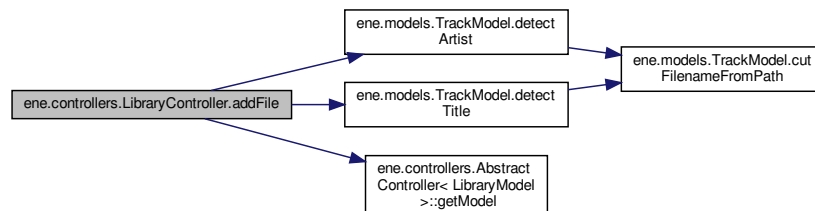


Definition at line 191 of file LibraryController.java.

References `ene.models.TrackModel.detectArtist()`, `ene.models.TrackModel.detectTitle()`, and `ene.controllers.↔ AbstractController< LibraryModel >.getModel()`.

Referenced by `ene.controllers.LibraryController.add()`, and `ene.controllers.LibraryController.scan()`.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.14.3.4 edit()

```
boolean ene.controllers.LibraryController.edit (
    TrackModel track )
```

Edits a track in the library.

##### Parameters

<i>track</i>	Updated track model instance.
--------------	-------------------------------

##### Returns

Returns TRUE, if successful. Otherwise FALSE.

##### Since

0.20.0

**Version**

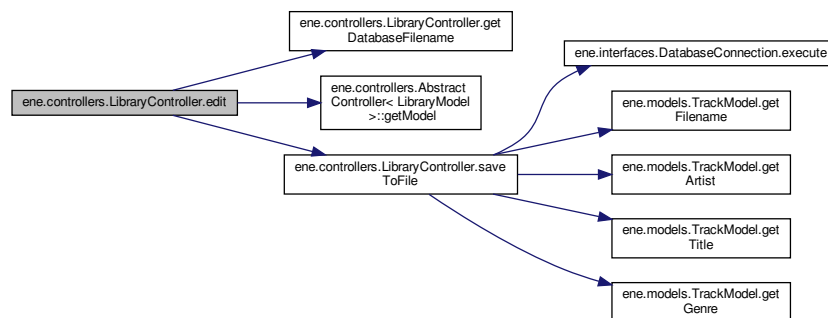
1.0.1

Definition at line 180 of file LibraryController.java.

References ene.controllers.LibraryController.getDatabaseFilename(), ene.controllers.AbstractController< LibraryModel >.getModel(), and ene.controllers.LibraryController.saveToFile().

Referenced by ene.views.gui.partial.LibraryView.render().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.14.3.5 getDatabaseFilename()**

```
String ene.controllers.LibraryController.getDatabaseFilename ( ) [protected]
```

Returns the database file path.

**Returns**

Database file path.

Since

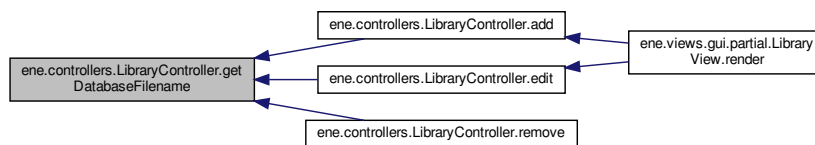
0.16.0

Definition at line 49 of file LibraryController.java.

References `ene.controllers.LibraryController.databaseFilename`.

Referenced by `ene.controllers.LibraryController.add()`, `ene.controllers.LibraryController.edit()`, and `ene.controllers.LibraryController.remove()`.

Here is the caller graph for this function:



#### 7.14.3.6 loadFromFile()

```
boolean ene.controllers.LibraryController.loadFromFile (
    String filename )
```

Loads data from a file.

##### Parameters

<i>filename</i>	File path.
-----------------	------------

##### Returns

Returns TRUE if successful. Otherwise FALSE.

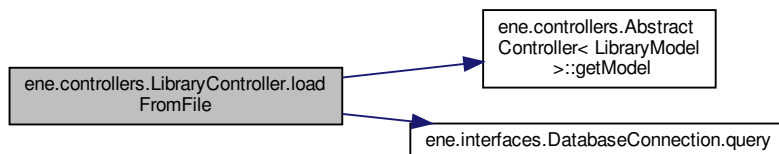
Implements [ene.interfaces.Import](#).

Definition at line 76 of file LibraryController.java.

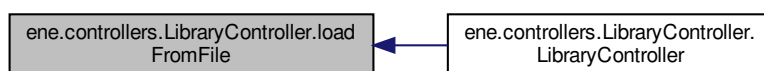
References `ene.controllers.AbstractController< LibraryModel >.getModel()`, and `ene.interfaces.DatabaseConnection.query()`.

Referenced by `ene.controllers.LibraryController.LibraryController()`.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.14.3.7 remove()

```
boolean ene.controllers.LibraryController.remove (
    String filename )
```

Removes a file from the library.

##### Parameters

<i>filename</i>	File path.
-----------------	------------

##### Returns

Returns TRUE, if successful. Otherwise FALSE.

##### Since

0.10.0

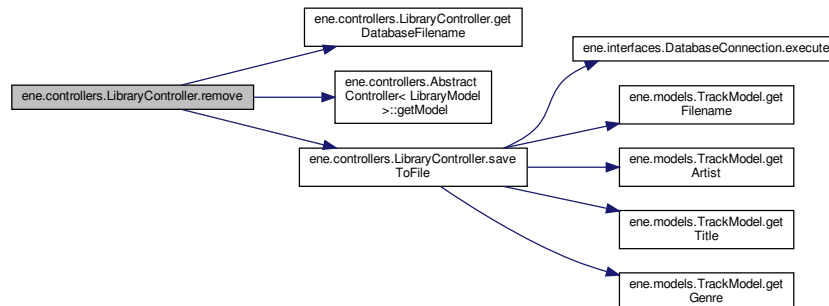
##### Version

1.1.1

Definition at line 165 of file LibraryController.java.

References `ene.controllers.LibraryController.getDatabaseFilename()`, `ene.controllers.AbstractController< Library↔ Model >.getModel()`, and `ene.controllers.LibraryController.saveToFile()`.

Here is the call graph for this function:



#### 7.14.3.8 saveToFile()

```
boolean ene.controllers.LibraryController.saveToFile (
    String filename )
```

Saves data to a file.

##### Parameters

<i>filename</i>	File path.
-----------------	------------

##### Returns

Returns TRUE if successful. Otherwise FALSE.

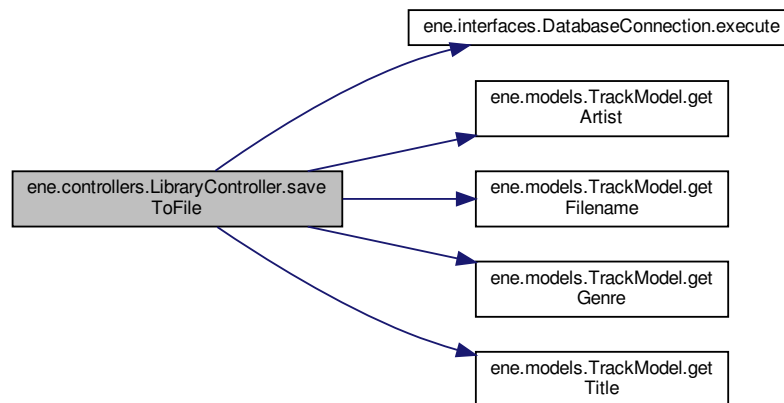
Implements [ene.interfaces.Export](#).

Definition at line 113 of file `LibraryController.java`.

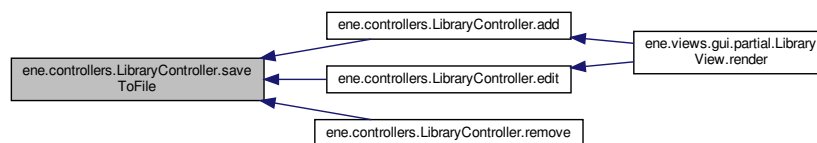
References `ene.interfaces.DatabaseConnection.execute()`, `ene.models.TrackModel.getArtist()`, `ene.models.Track↔ Model.getFilename()`, `ene.models.TrackModel.getGenre()`, and `ene.models.TrackModel.getTitle()`.

Referenced by `ene.controllers.LibraryController.add()`, `ene.controllers.LibraryController.edit()`, and `ene.↔ controllers.LibraryController.remove()`.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.14.3.9 scan()

```

int ene.controllers.LibraryController.scan (
    File path,
    String ... genre ) [protected]
  
```

Scans and adds files recursively.

##### Parameters

<i>path</i>	File instance of the path.
<i>genre</i>	Given track genre (Optional, for internal usage only).

##### Returns

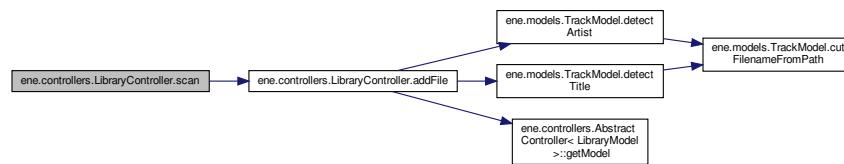
Returns the amount of added files.

Definition at line 226 of file `LibraryController.java`.

References ene.controllers.LibraryController.addFile().

Referenced by ene.controllers.LibraryController.addDirectoryContent().

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.14.3.10 setDatabaseFilename()

```
void ene.controllers.LibraryController.setDatabaseFilename (
    String filename ) [protected]
```

Sets the database file path.

##### Parameters

<i>filename</i>	Database file path.
-----------------	---------------------

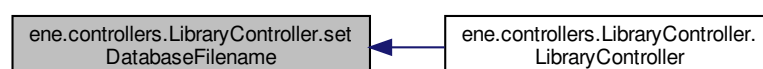
Since

0.16.0

Definition at line 40 of file LibraryController.java.

Referenced by ene.controllers.LibraryController.LibraryController().

Here is the caller graph for this function:



#### 7.14.4 Member Data Documentation

##### 7.14.4.1 DATABASE\_TABLE

```
final String ene.controllers.LibraryController.DATABASE_TABLE = "tracks" [static], [protected]
```

Database table name.

Definition at line 28 of file LibraryController.java.

##### 7.14.4.2 DATABASE\_TIMEOUT

```
final int ene.controllers.LibraryController.DATABASE_TIMEOUT = 30 [static], [protected]
```

Database connection timeout in seconds.

Definition at line 23 of file LibraryController.java.

##### 7.14.4.3 databaseFilename

```
String ene.controllers.LibraryController.databaseFilename [protected]
```

Database file path.

Definition at line 33 of file LibraryController.java.

Referenced by ene.controllers.LibraryController.getDatabaseFilename().

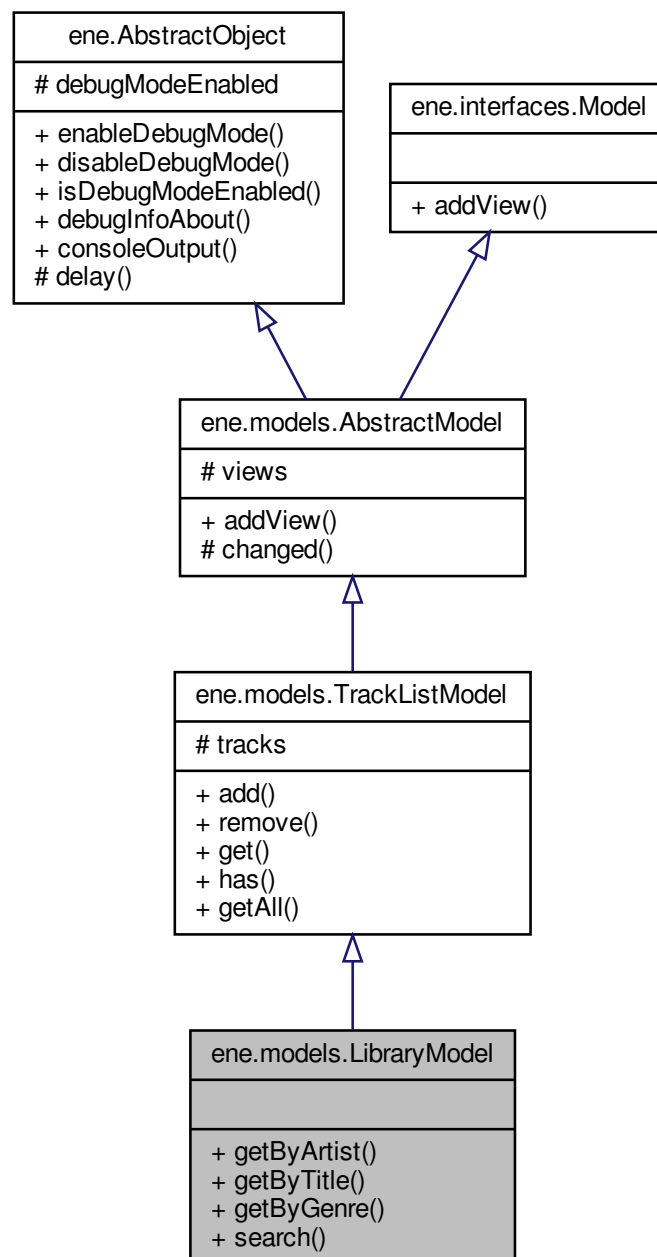
The documentation for this class was generated from the following file:

- src/ene/controllers/[LibraryController.java](#)

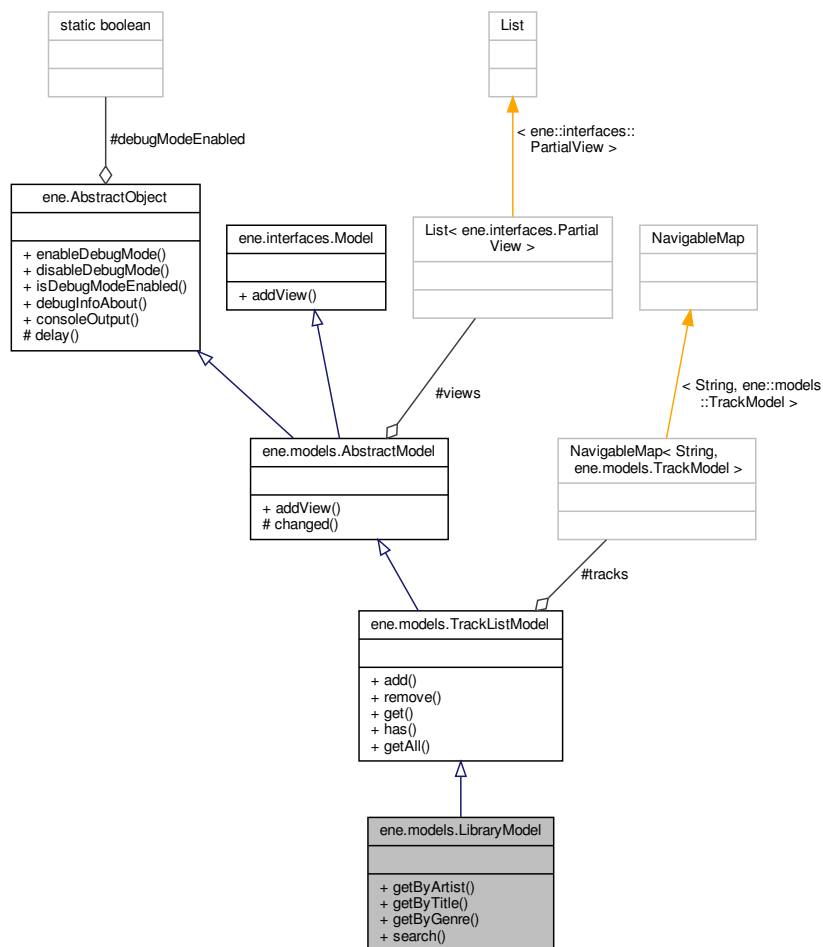


## 7.15 ene.models.LibraryModel Class Reference

Inheritance diagram for ene.models.LibraryModel:



Collaboration diagram for ene.models.LibraryModel:



## Public Member Functions

- Map< String, [TrackModel](#) > [getByArtist](#) (String artist)
- Map< String, [TrackModel](#) > [getByTitle](#) (String title)
- Map< String, [TrackModel](#) > [getByGenre](#) (String genre)
- Map< String, [TrackModel](#) > [search](#) (String title, String artist, String genre)

## Additional Inherited Members

### 7.15.1 Detailed Description

Library model.

## Version

4.1.0

Definition at line 12 of file LibraryModel.java.

### 7.15.2 Member Function Documentation

#### 7.15.2.1 getByArtist()

```
Map<String, TrackModel> ene.models.LibraryModel.getByArtist (
    String artist )
```

Returns all tracks by an particular artist.

##### Parameters

<i>artist</i>	Artist.
---------------	---------

##### Returns

Tracks.

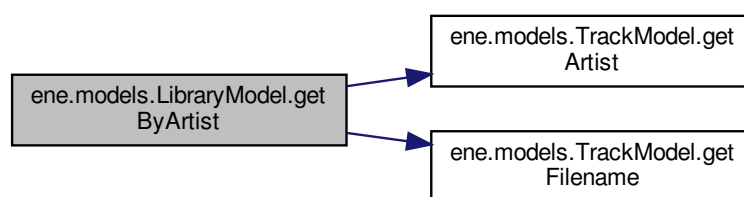
##### Since

0.10.0

Definition at line 19 of file LibraryModel.java.

References ene.models.TrackModel.getArtist(), ene.models.TrackModel.getFilename(), and ene.models.TrackList↔Model.tracks.

Here is the call graph for this function:



#### 7.15.2.2 getByGenre()

```
Map<String, TrackModel> ene.models.LibraryModel.getByGenre (
    String genre )
```

Returns all tracks from a particular genre.

**Parameters**

<i>genre</i>	Genre.
--------------	--------

**Returns**

Tracks.

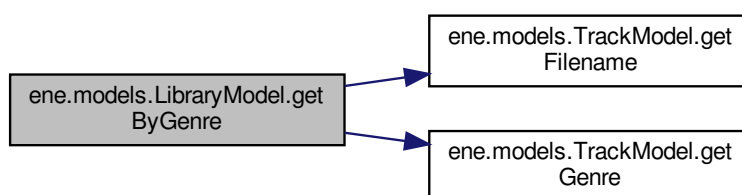
**Since**

0.10.0

Definition at line 53 of file LibraryModel.java.

References `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, and `ene.models.Track↔ListModel.tracks`.

Here is the call graph for this function:

**7.15.2.3 getByTitle()**

```
Map<String, TrackModel> ene.models.LibraryModel.getByTitle (
    String title )
```

Returns all tracks with a particular title.

**Parameters**

<i>title</i>	Title.
--------------	--------

**Returns**

Tracks.

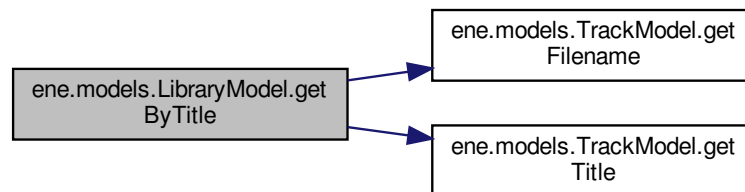
Since

0.10.0

Definition at line 36 of file LibraryModel.java.

References ene.models.TrackModel.getFilename(), ene.models.TrackModel.getTitle(), and ene.models.TrackList↔Model.tracks.

Here is the call graph for this function:



#### 7.15.2.4 search()

```
Map<String, TrackModel> ene.models.LibraryModel.search (
    String title,
    String artist,
    String genre )
```

Returns all matching tracks.

##### Parameters

<i>title</i>	Title.
<i>artist</i>	Artist.
<i>genre</i>	Genre.

##### Returns

Map of tracks and it's absolute file path.

Since

0.15.0

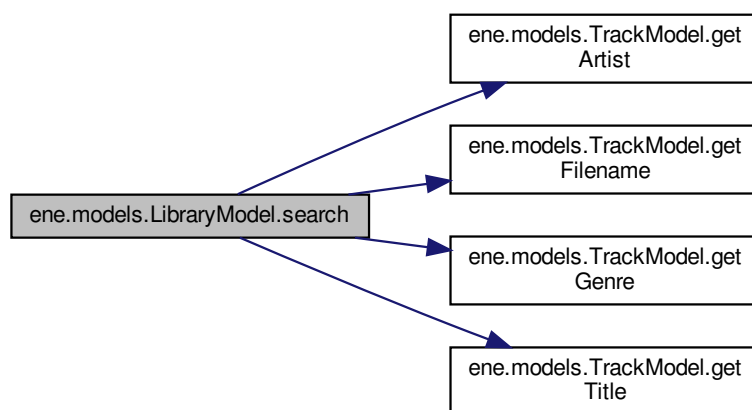
## Version

1.0.0

Definition at line 73 of file LibraryModel.java.

References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, `ene.models.TrackModel.getTitle()`, and `ene.models.TrackListModel.tracks`.

Here is the call graph for this function:

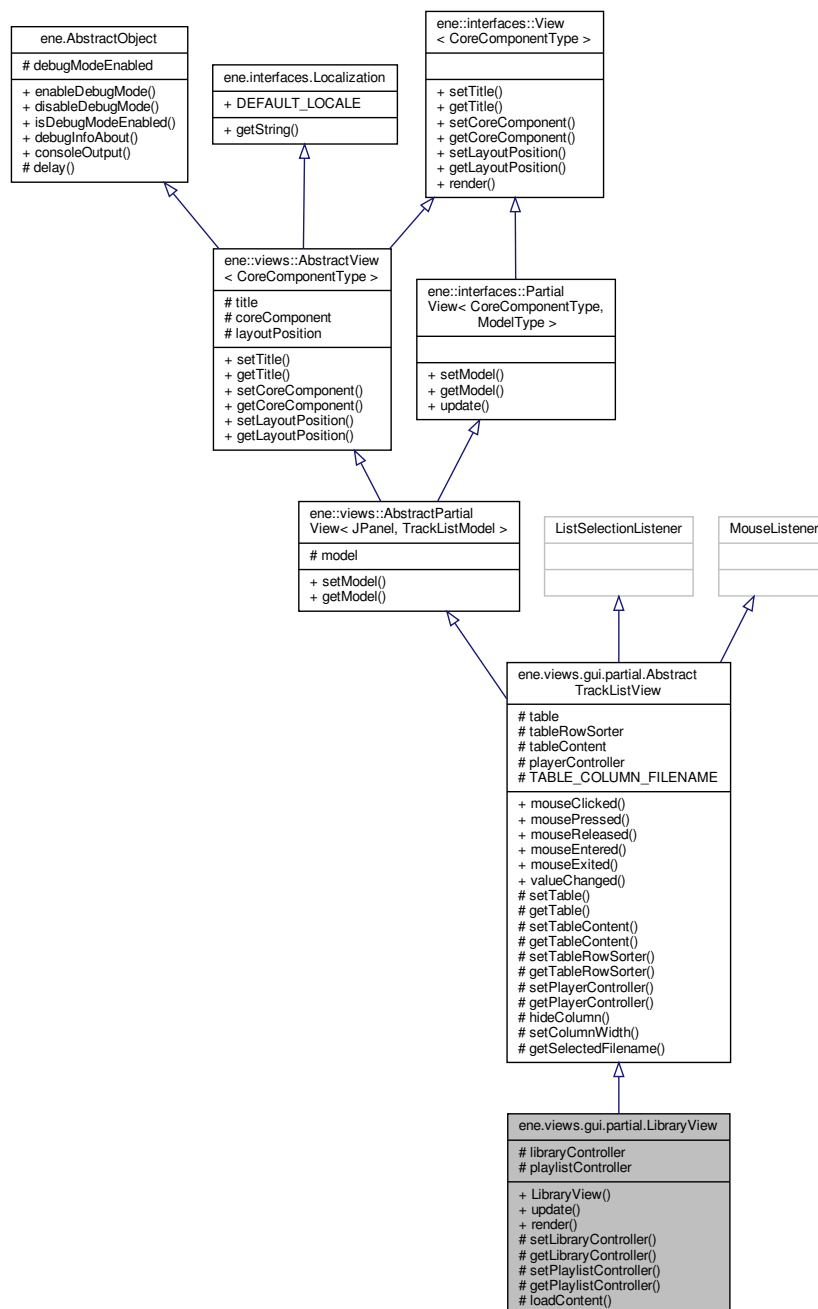


The documentation for this class was generated from the following file:

- [src/ene/models/LibraryModel.java](#)

## 7.16 ene.views.gui.partial.LibraryView Class Reference

Inheritance diagram for ene.views.gui.partial.LibraryView:







## Additional Inherited Members

### 7.16.1 Detailed Description

Library view.

#### Version

2.6.0

#### Since

0.13.0

Definition at line 34 of file LibraryView.java.

### 7.16.2 Constructor & Destructor Documentation

#### 7.16.2.1 LibraryView()

```
ene.views.gui.partial.LibraryView.LibraryView (
    Model model,
    Controller libraryController,
    Controller playlistController,
    Controller playerController )
```

Constructor.

#### Parameters

<i>model</i>	Library model instance.
<i>libraryController</i>	Library controller instance.
<i>playlistController</i>	Playlist controller instance.
<i>playerController</i>	Player controller instance.

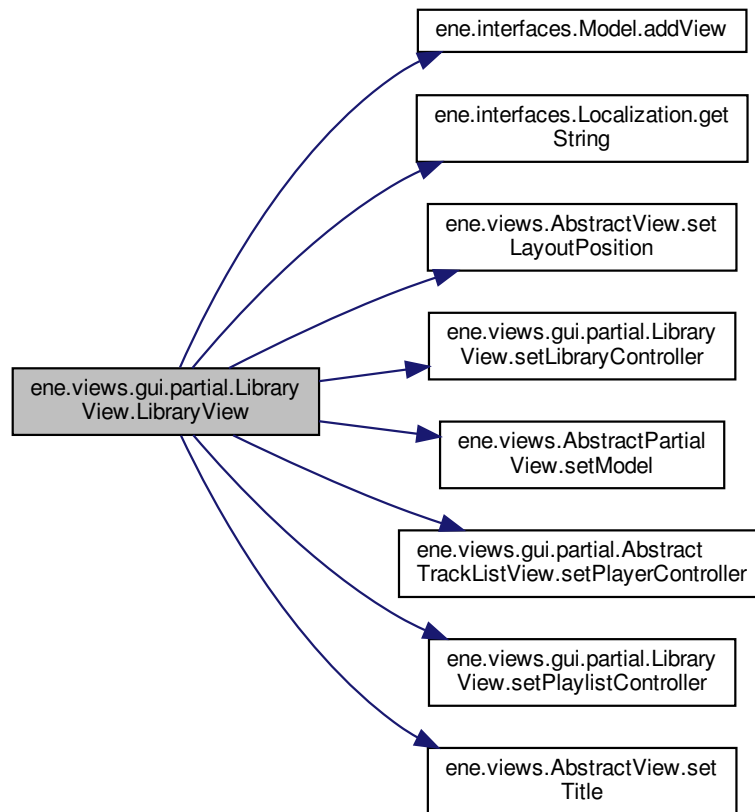
#### Version

2.0.0

Definition at line 85 of file LibraryView.java.

References `ene.interfaces.Model.addView()`, `ene.interfaces.Localization.getString()`, `ene.views.AbstractView< CoreComponentType >.setLayoutPosition()`, `ene.views.gui.partial.LibraryView.setLibraryController()`, `ene.views.AbstractPartialView< CoreComponentType, ModelType >.setModel()`, `ene.views.gui.partial.AbstractTrackListView.setPlayerController()`, `ene.views.gui.partial.LibraryView.setPlaylistController()`, and `ene.views.AbstractView< CoreComponentType >.setTitle()`.

Here is the call graph for this function:



### 7.16.3 Member Function Documentation

#### 7.16.3.1 `getLibraryController()`

`LibraryController` `ene.views.gui.partial.LibraryView.getLibraryController ( )` [protected]

Returns the library controller instance.

##### Returns

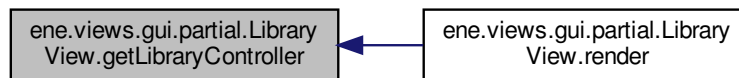
Library controller instance.

Definition at line 57 of file `LibraryView.java`.

References `ene.views.gui.partial.LibraryView.libraryController`.

Referenced by `ene.views.gui.partial.LibraryView.render()`.

Here is the caller graph for this function:



### 7.16.3.2 getPlaylistController()

```
PlaylistController ene.views.gui.partial.LibraryView.getPlaylistController ( ) [protected]
```

Returns the playlist controller instance.

#### Returns

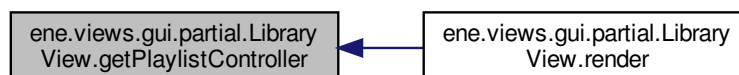
Playlist controller instance.

Definition at line 73 of file `LibraryView.java`.

References `ene.views.gui.partial.LibraryView.playlistController`.

Referenced by `ene.views.gui.partial.LibraryView.render()`.

Here is the caller graph for this function:



### 7.16.3.3 loadContent()

```
void ene.views.gui.partial.LibraryView.loadContent (
    Map< String, TrackModel > tracks ) [protected]
```

Loads the table content from the model.

## Parameters

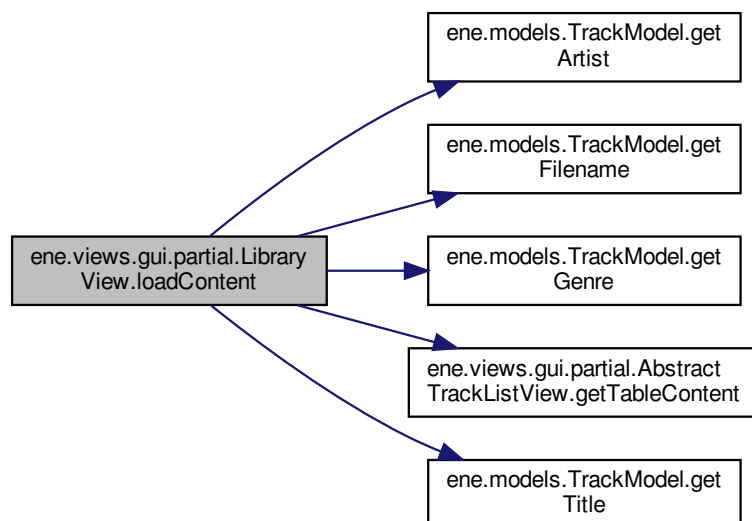
<i>tracks</i>	Map of Tracks.
---------------	----------------

Definition at line 99 of file LibraryView.java.

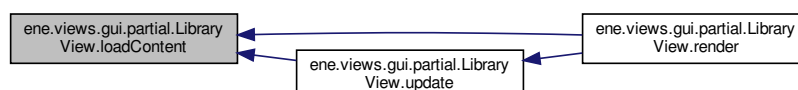
References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, `ene.views.gui.partial.AbstractTrackListView.getTableContent()`, `ene.models.TrackModel.getTitle()`, and `ene.views.gui.partial.AbstractTrackListView.tableContent`.

Referenced by `ene.views.gui.partial.LibraryView.render()`, and `ene.views.gui.partial.LibraryView.update()`.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.16.3.4 render()

```
void ene.views.gui.partial.LibraryView.render ( )
```

Renders the view.

Implements `ene.interfaces.View< CoreComponentType >`.

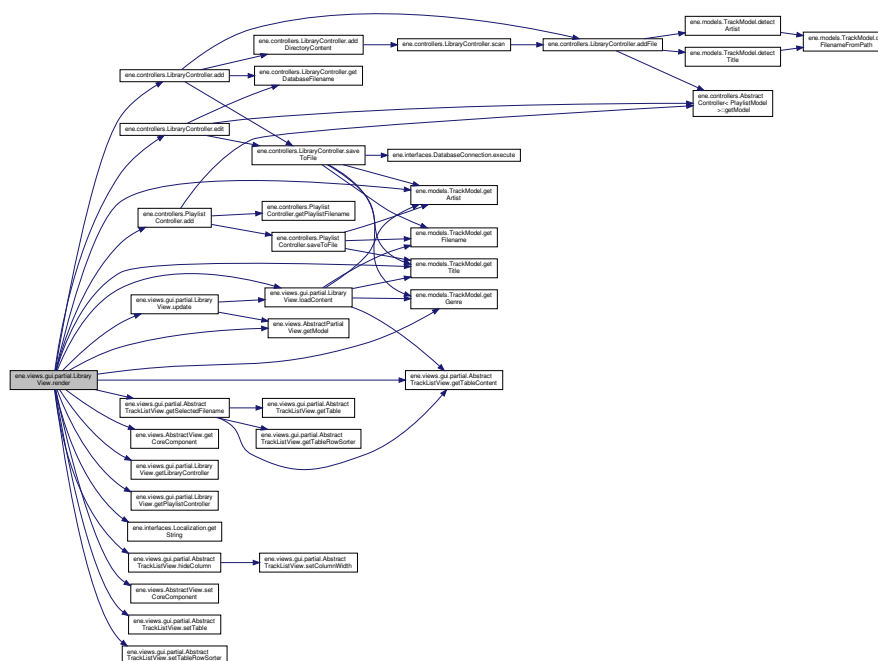
Definition at line 114 of file LibraryView.java.

```

References ene.controllers.PlaylistController.add(), ene.controllers.LibraryController.add(), ene.controllers.
LibraryController.edit(), ene.models.TrackModel.getArtist(), ene.views.AbstractView< CoreComponentType >.
getCoreComponent(), ene.models.TrackModel.getGenre(), ene.views.gui.partial.LibraryView.getLibraryController(),
ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel(), ene.views.gui.partial.Library
View.getPlaylistController(), ene.views.gui.partial.AbstractTrackListView.getSelectedFilename(), ene.interfaces.
Localization.getString(), ene.views.gui.partial.AbstractTrackListView.getTableContent(), ene.models.TrackModel.
getTitle(), ene.views.gui.partial.AbstractTrackListView.hideColumn(), ene.views.gui.partial.LibraryView.load
Content(), ene.views.AbstractView< CoreComponentType >.setCoreComponent(), ene.views.gui.partial.
AbstractTrackListView.setTable(), ene.views.gui.partial.AbstractTrackListView.setTableRowSorter(), ene.views.
gui.partial.AbstractTrackListView.table, ene.views.gui.partial.AbstractTrackListView.TABLE_COLUMN_FILENAME,
ene.views.gui.partial.AbstractTrackListView.tableContent, ene.views.gui.partial.AbstractTrackListView.tableRow
Sorter, ene.views.AbstractView< CoreComponentType >.title, and ene.views.gui.partial.LibraryView.update().

```

Here is the call graph for this function:



### 7.16.3.5 setLibraryController()

```
void ene.views.gui.partial.LibraryView.setLibraryController (
    Controller libraryController ) [protected]
```

Sets the library controller instance.

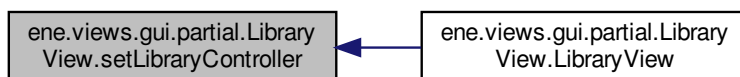
**Parameters**

<i>libraryController</i>	Library controller instance.
--------------------------	------------------------------

Definition at line 49 of file LibraryView.java.

Referenced by ene.views.gui.partial.LibraryView.LibraryView().

Here is the caller graph for this function:

**7.16.3.6 setPlaylistController()**

```
void ene.views.gui.partial.LibraryView.setPlaylistController (
    Controller playlistController ) [protected]
```

Sets the playlist controller instance.

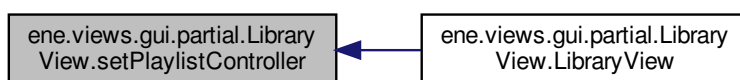
**Parameters**

<i>playlistController</i>	Playlist controller instance.
---------------------------	-------------------------------

Definition at line 65 of file LibraryView.java.

Referenced by ene.views.gui.partial.LibraryView.LibraryView().

Here is the caller graph for this function:



## 7.16.3.7 update()

```
void ene.views.gui.partial.LibraryView.update ( )
```

Request update.

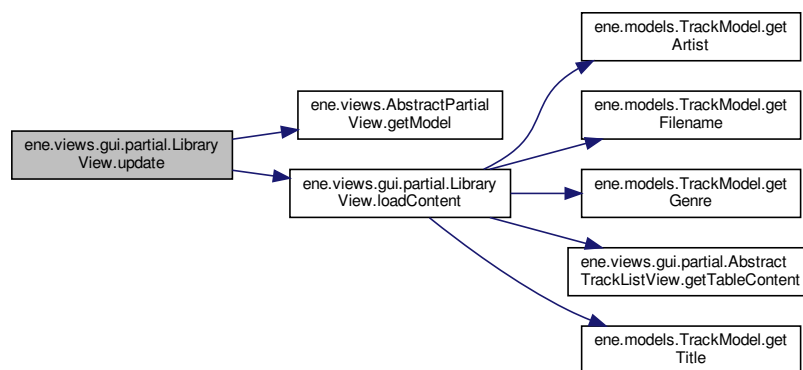
Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 109 of file LibraryView.java.

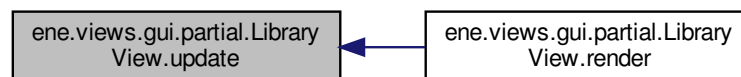
References [ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel\(\)](#), and [ene.views.gui.partial.LibraryView.loadContent\(\)](#).

Referenced by [ene.views.gui.partial.LibraryView.render\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.16.4 Member Data Documentation

### 7.16.4.1 libraryController

`LibraryController` `ene.views.gui.partial.LibraryView.libraryController` [protected]

Library controller instance.

Definition at line 38 of file `LibraryView.java`.

Referenced by `ene.views.gui.partial.LibraryView.getLibraryController()`.

### 7.16.4.2 playlistController

`PlaylistController` `ene.views.gui.partial.LibraryView.playlistController` [protected]

Playlist controller instance.

Definition at line 43 of file `LibraryView.java`.

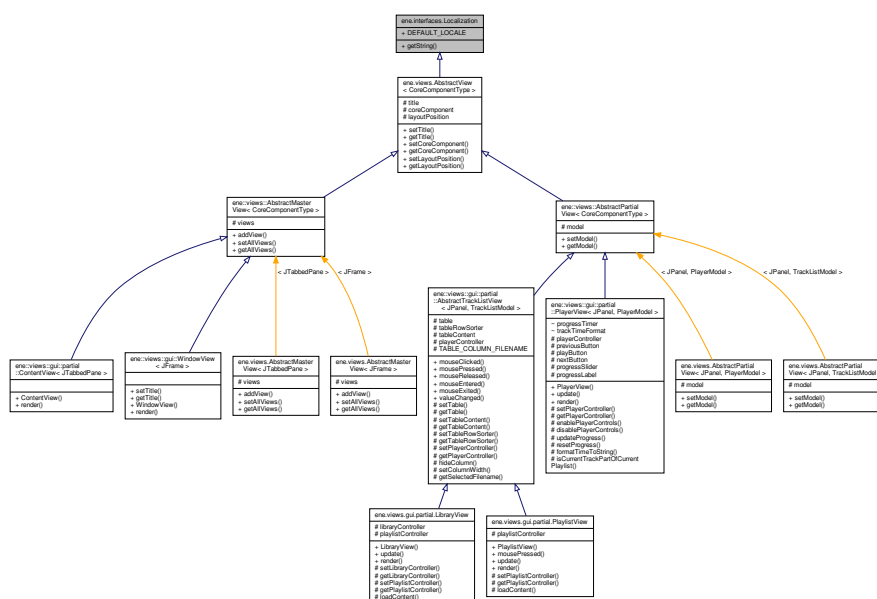
Referenced by `ene.views.gui.partial.LibraryView.getPlaylistController()`.

The documentation for this class was generated from the following file:

- `src/ene/views/gui/partial/LibraryView.java`

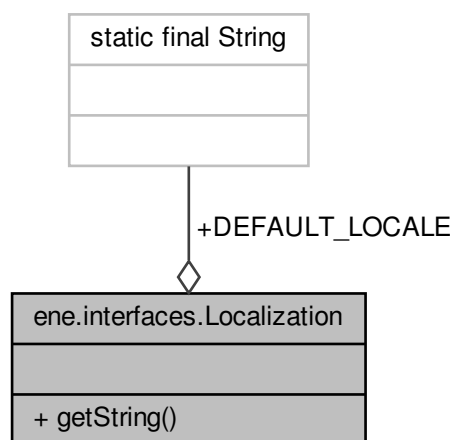
## 7.17 ene.interfaces.Localization Interface Reference

Inheritance diagram for `ene.interfaces.Localization`:





Collaboration diagram for ene.interfaces.Localization:



#### Public Member Functions

- default String [getString](#) (String stringName)

#### Static Public Attributes

- static final String [DEFAULT\\_LOCALE](#) = "en\_US"

#### 7.17.1 Detailed Description

[Localization.](#)

#### Version

1.0.1

Definition at line 10 of file Localization.java.

#### 7.17.2 Member Function Documentation

##### 7.17.2.1 getString()

```
default String ene.interfaces.Localization.getString (
    String stringName )
```

Get the localized string.

**Parameters**

<i>stringName</i>	String name.
-------------------	--------------

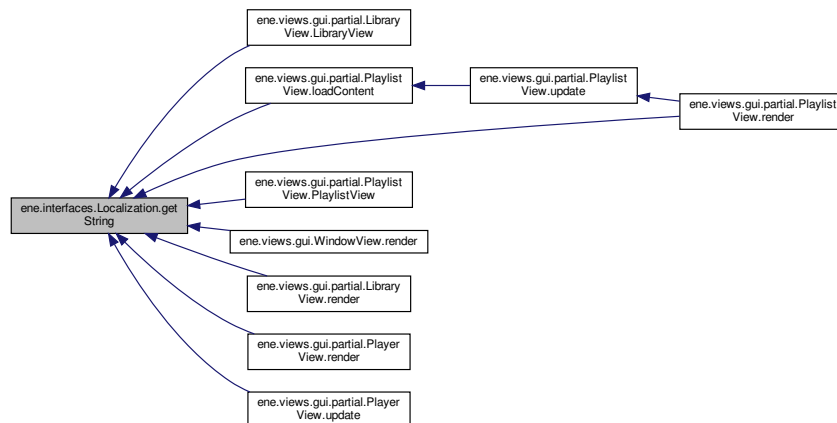
**Returns**

Localized string.

Definition at line 21 of file Localization.java.

Referenced by `ene.views.gui.partial.LibraryView.LibraryView()`, `ene.views.gui.partial.PlaylistView.loadContent()`, `ene.views.gui.partial.PlaylistView.PlaylistView()`, `ene.views.gui.WindowView.render()`, `ene.views.gui.partial.PlaylistView.render()`, `ene.views.gui.partial.LibraryView.render()`, `ene.views.gui.partial.PlayerView.render()`, and `ene.views.gui.partial.PlayerView.update()`.

Here is the caller graph for this function:

**7.17.3 Member Data Documentation****7.17.3.1 DEFAULT\_LOCALE**

```
final String ene.interfaces.Localization.DEFAULT_LOCALE = "en_US" [static]
```

Default locale.

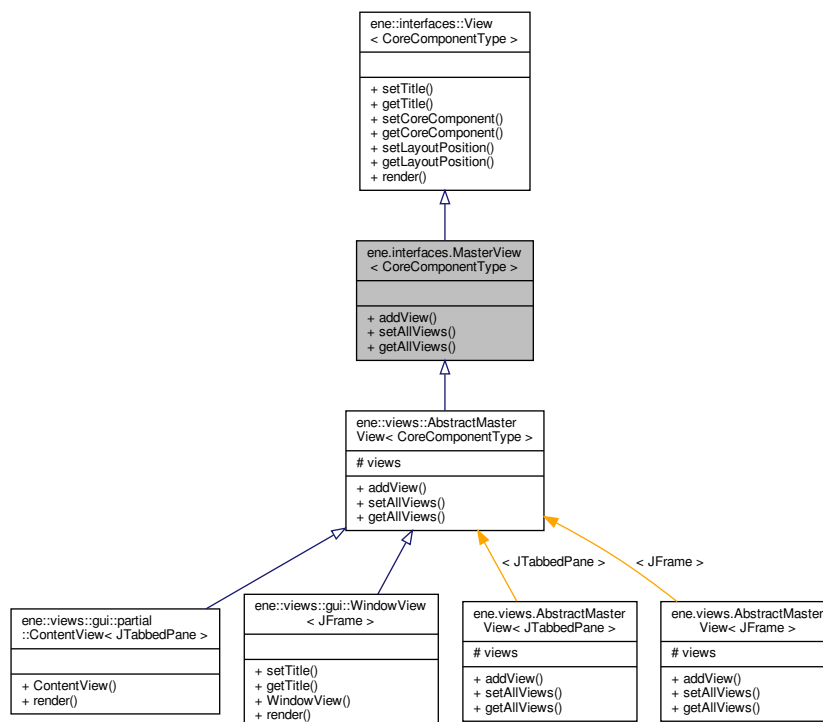
Definition at line 14 of file Localization.java.

The documentation for this interface was generated from the following file:

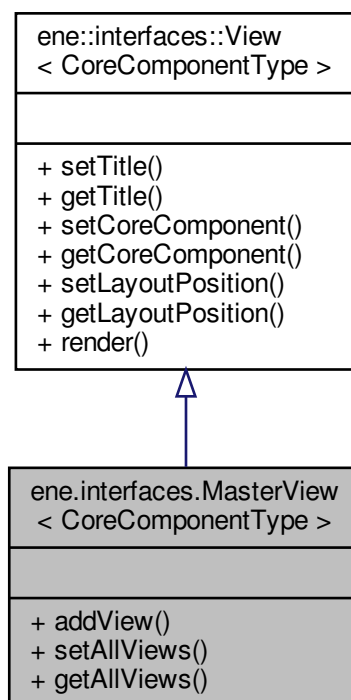
- `src/ene/interfaces/Localization.java`

## 7.18 ene.interfaces.MasterView&lt; CoreComponentType &gt; Interface Template Reference

Inheritance diagram for ene.interfaces.MasterView< CoreComponentType >:



Collaboration diagram for ene.interfaces.MasterView< CoreComponentType >:



#### Public Member Functions

- void `addView` (`View` view)
- void `setAllViews` (List< `View` > views)
- List< `View` > `getAllViews` ()

#### 7.18.1 Detailed Description

Master view.

Since

0.3.0

Version

2.0.0

Definition at line 11 of file MasterView.java.

## 7.18.2 Member Function Documentation

### 7.18.2.1 addView()

```
void ene.interfaces.MasterView< CoreComponentType >.addView (
    View view )
```

Adds view instance.

#### Parameters

<i>view</i>	View instance.
-------------	----------------

Implemented in [ene.views.AbstractMasterView< CoreComponentType >](#).

### 7.18.2.2 getAllViews()

```
List<View> ene.interfaces.MasterView< CoreComponentType >.getAllViews ( )
```

Returns all contained view instances.

#### Returns

List of view instaces.

Implemented in [ene.views.AbstractMasterView< CoreComponentType >](#).

### 7.18.2.3 setAllViews()

```
void ene.interfaces.MasterView< CoreComponentType >.setAllViews (
    List< View > views )
```

Sets all contained view instances.

#### Parameters

<i>views</i>	List of view instaces.
--------------	------------------------

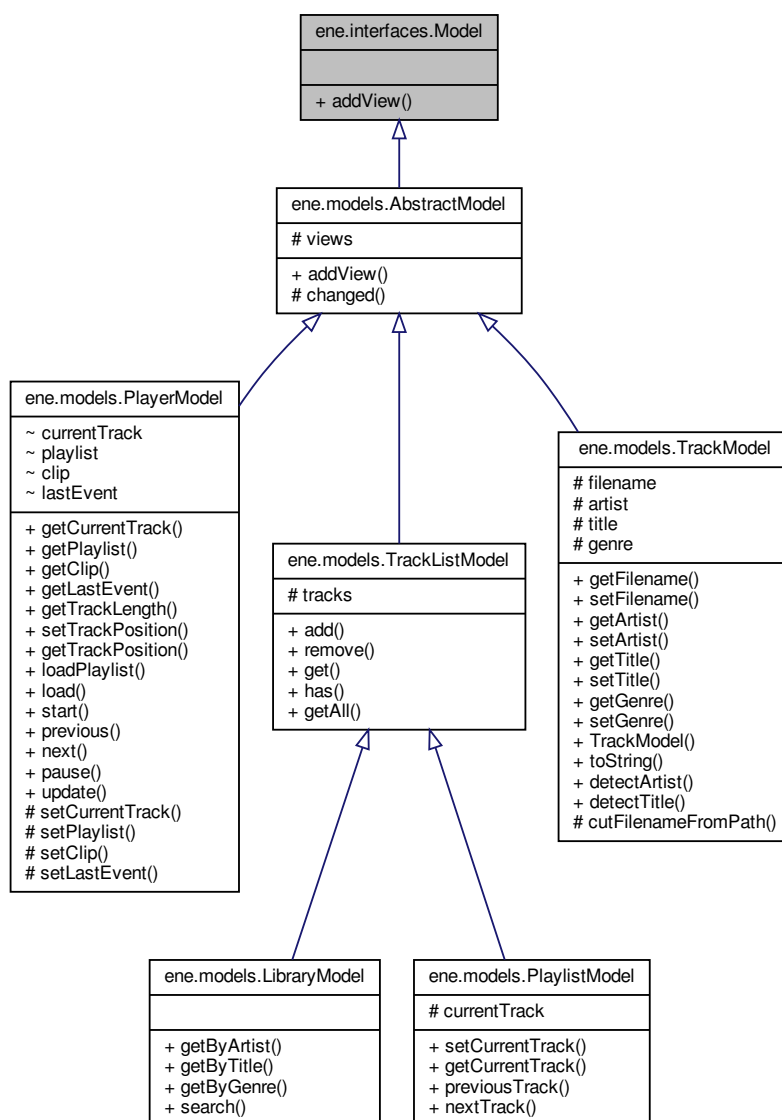
Implemented in [ene.views.AbstractMasterView< CoreComponentType >](#).

The documentation for this interface was generated from the following file:

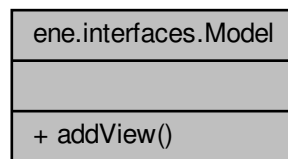
- [src/ene/interfaces/MasterView.java](#)

## 7.19 ene.interfaces.Model Interface Reference

Inheritance diagram for ene.interfaces.Model:



Collaboration diagram for ene.interfaces.Model:



#### Public Member Functions

- void [addView](#) ([PartialView](#) view)

#### 7.19.1 Detailed Description

[Model](#).

#### Version

2.0.0

Definition at line 9 of file `Model.java`.

#### 7.19.2 Member Function Documentation

##### 7.19.2.1 `addView()`

```
void ene.interfaces.Model.addView (
    PartialView view )
```

Add related view.

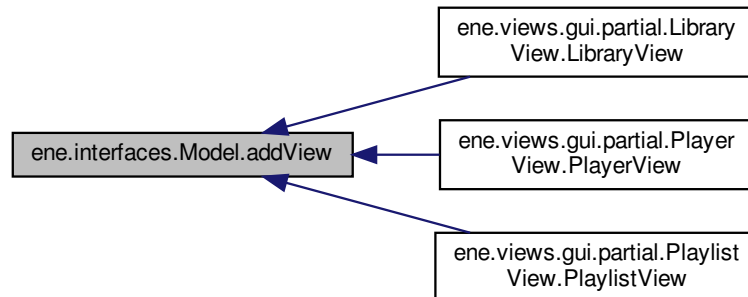
#### Parameters

<i>view</i>	<a href="#">View</a> .
-------------	------------------------

Implemented in [ene.models.AbstractModel](#).

Referenced by `ene.views.gui.partial.LibraryView.LibraryView()`, `ene.views.gui.partial.PlayerView.PlayerView()`, and `ene.views.gui.partial.PlaylistView.PlaylistView()`.

Here is the caller graph for this function:



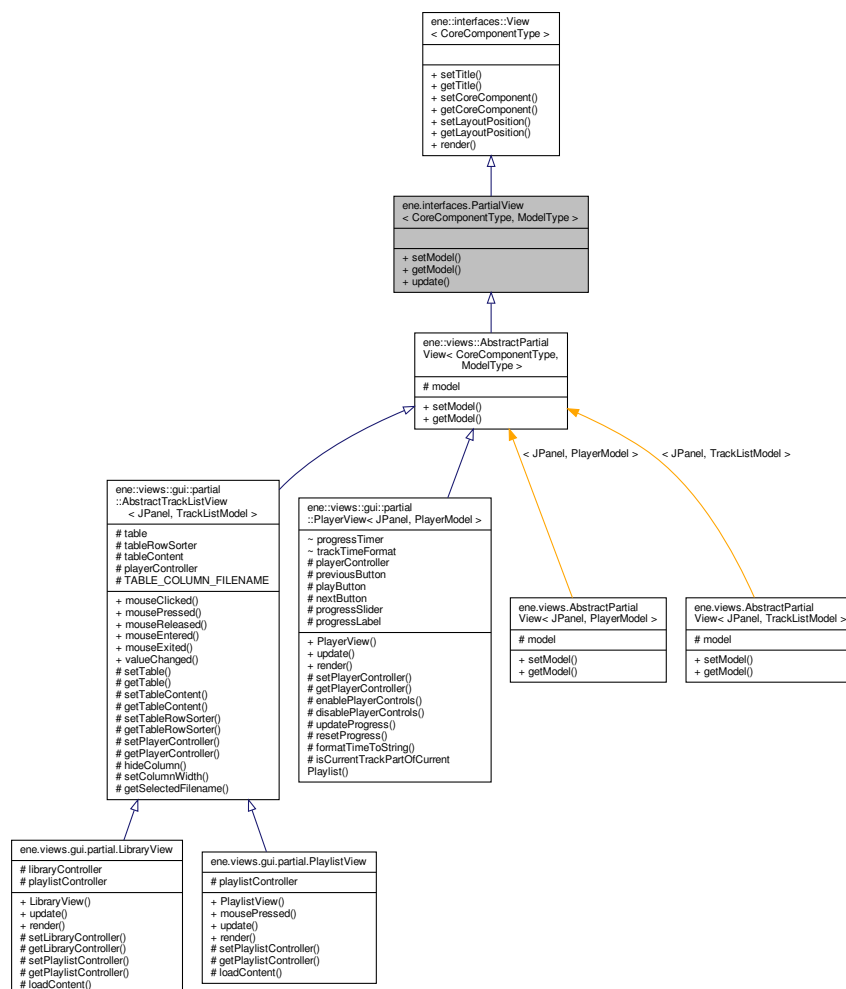
The documentation for this interface was generated from the following file:

- `src/ene/interfaces/Model.java`

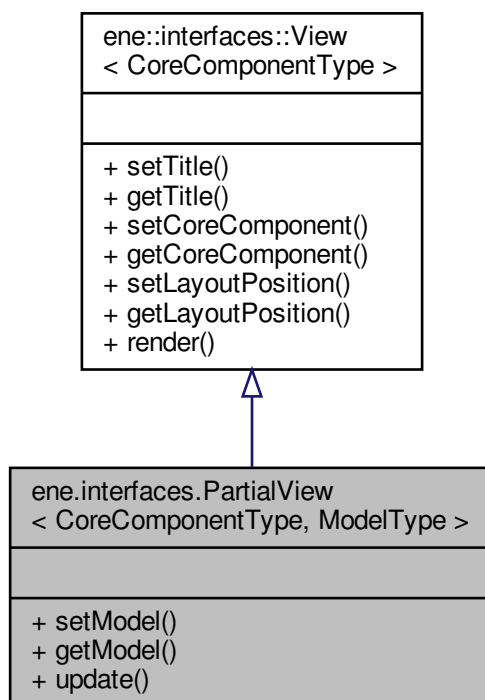


## 7.20 ene.interfaces.PartialView&lt; CoreComponentType, ModelType &gt; Interface Template Reference

Inheritance diagram for ene.interfaces.PartialView< CoreComponentType, ModelType >:



Collaboration diagram for ene.interfaces.PartialView< CoreComponentType, ModelType >:



#### Public Member Functions

- void [setModel](#) ([Model](#) model)
- [ModelType](#) [getModel](#) ()
- void [update](#) ()

#### 7.20.1 Detailed Description

Partial view.

Since

0.11.0

Version

1.0.0

Definition at line 11 of file PartialView.java.

## 7.20.2 Member Function Documentation

## 7.20.2.1 getModel()

```
ModelType ene.interfaces.PartialView< CoreComponentType, ModelType >.getModel ( )
```

Returns the model instance.

## Returns

[Model](#) instance.

Implemented in [ene.views.AbstractPartialView< CoreComponentType, ModelType >](#).

## 7.20.2.2 setModel()

```
void ene.interfaces.PartialView< CoreComponentType, ModelType >.setModel (
    Model model )
```

Sets the model instance.

## Parameters

<i>model</i>	<a href="#">Model</a> instance.
--------------	---------------------------------

Implemented in [ene.views.AbstractPartialView< CoreComponentType, ModelType >](#).

## 7.20.2.3 update()

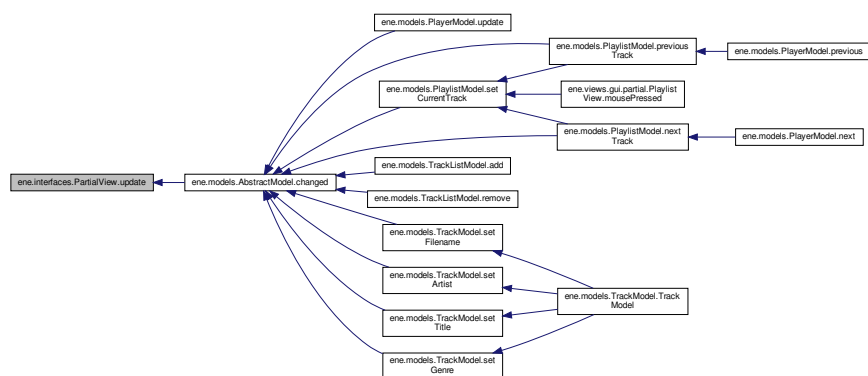
```
void ene.interfaces.PartialView< CoreComponentType, ModelType >.update ( )
```

Request update.

Implemented in [ene.views.gui.partial.PlayerView](#), [ene.views.gui.partial.LibraryView](#), and [ene.views.gui.partial.PlaylistView](#).

Referenced by [ene.models.AbstractModel.changed\(\)](#).

Here is the caller graph for this function:

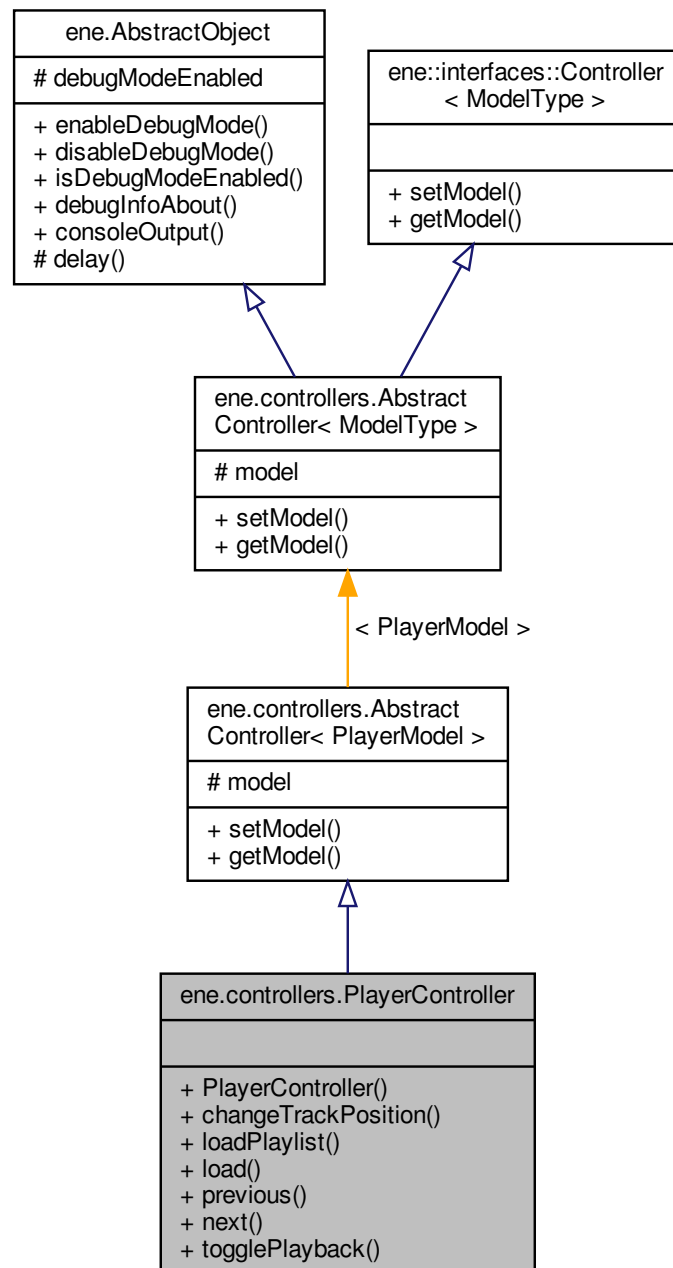


The documentation for this interface was generated from the following file:

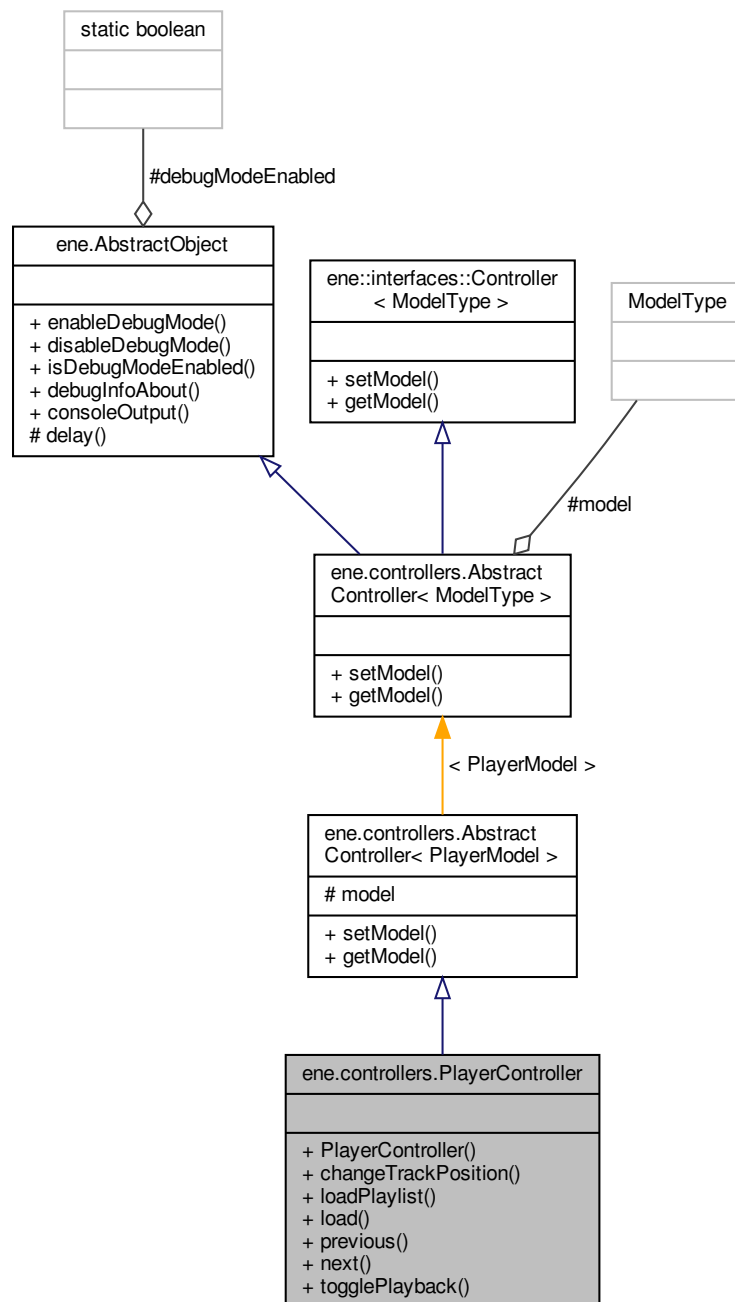
- [src/ene/interfaces/PartialView.java](#)

## 7.21 ene.controllers.PlayerController Class Reference

Inheritance diagram for ene.controllers.PlayerController:



Collaboration diagram for ene.controllers.PlayerController:



#### Public Member Functions

- [PlayerController](#) ([Model model](#))
- void [changeTrackPosition](#) (int newPosition)
- boolean [loadPlaylist](#) ([PlaylistModel](#) playlist)
- boolean [load](#) ([TrackModel](#) track)
- boolean [previous](#) ()
- boolean [next](#) ()
- void [togglePlayback](#) ()

## Additional Inherited Members

### 7.21.1 Detailed Description

Player controller.

#### Version

1.1.0

Definition at line 14 of file PlayerController.java.

### 7.21.2 Constructor & Destructor Documentation

#### 7.21.2.1 PlayerController()

```
ene.controllers.PlayerController.PlayerController (
    Model model )
```

Constructor.

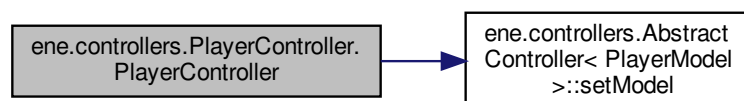
#### Parameters

<i>model</i>	Player model instance.
--------------	------------------------

Definition at line 19 of file PlayerController.java.

References ene.controllers.AbstractController< PlayerModel >.setModel().

Here is the call graph for this function:



### 7.21.3 Member Function Documentation

#### 7.21.3.1 changeTrackPosition()

```
void ene.controllers.PlayerController.changeTrackPosition (
    int newPosition )
```

Changes the current track position.

**Parameters**

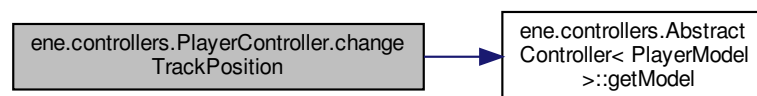
<i>newPosition</i>	New track position in seconds.
--------------------	--------------------------------

Definition at line 27 of file PlayerController.java.

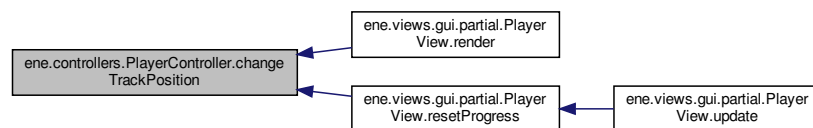
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.PlayerView.render(), and ene.views.gui.partial.PlayerView.resetProgress().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.21.3.2 load()**

```
boolean ene.controllers.PlayerController.load (
    TrackModel track )
```

Load track.

**Parameters**

<i>track</i>	Track model instance.
--------------	-----------------------

**Returns**

Returns TRUE, if successful. Otherwise FALSE.

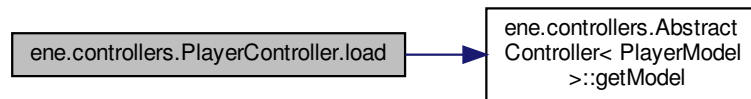
Definition at line 47 of file PlayerController.java.



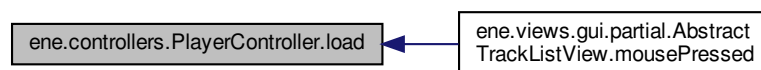
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.AbstractTrackListView.mousePressed().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.21.3.3 loadPlaylist()

```
boolean ene.controllers.PlayerController.loadPlaylist (
    PlaylistModel playlist )
```

Load playlist.

#### Parameters

<i>playlist</i>	Playlist model instance.
-----------------	--------------------------

#### Returns

Returns TRUE, if successful. Otherwise FALSE.

#### Since

1.0.0

**Version**

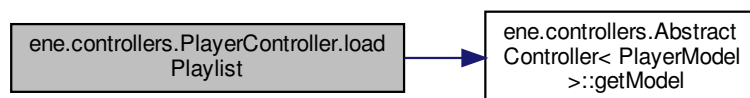
1.0.0

Definition at line 38 of file PlayerController.java.

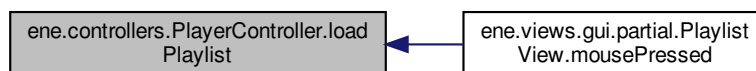
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.PlaylistView.mousePressed().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.21.3.4 next()**

```
boolean ene.controllers.PlayerController.next ( )
```

Jumps to the next track in the current playlist.

**Returns**

Returns TRUE, if successful. Otherwise FALSE.

**Since**

1.0.0

## Version

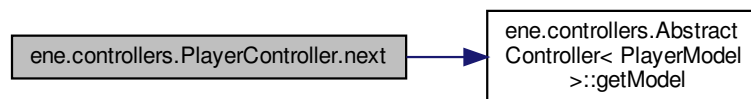
1.0.0

Definition at line 67 of file PlayerController.java.

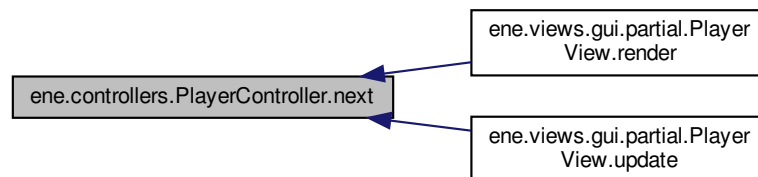
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.PlayerView.render(), and ene.views.gui.partial.PlayerView.update().

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.21.3.5 previous()

```
boolean ene.controllers.PlayerController.previous ( )
```

Jumps to the previous track in the current playlist.

## Returns

Returns TRUE, if successful. Otherwise FALSE.

## Since

1.0.0

## Version

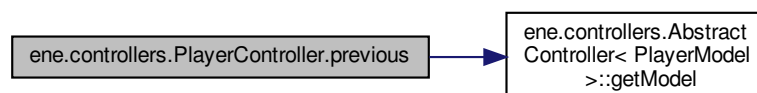
1.0.0

Definition at line 57 of file PlayerController.java.

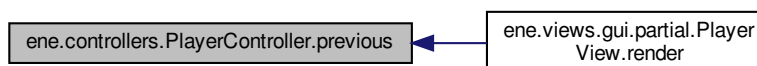
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.PlayerView.render().

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.21.3.6 togglePlayback()

```
void ene.controllers.PlayerController.togglePlayback ( )
```

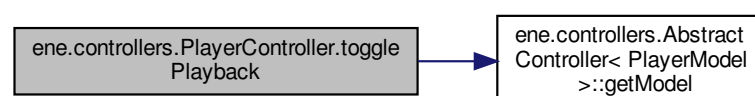
Toggle playback.

Definition at line 74 of file PlayerController.java.

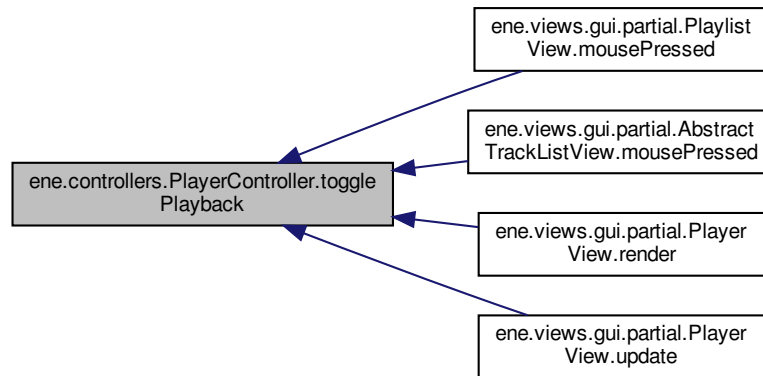
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.PlaylistView.mousePressed(), ene.views.gui.partial.AbstractTrackListView.mousePressed(), ene.views.gui.partial.PlayerView.render(), and ene.views.gui.partial.PlayerView.update().

Here is the call graph for this function:



Here is the caller graph for this function:

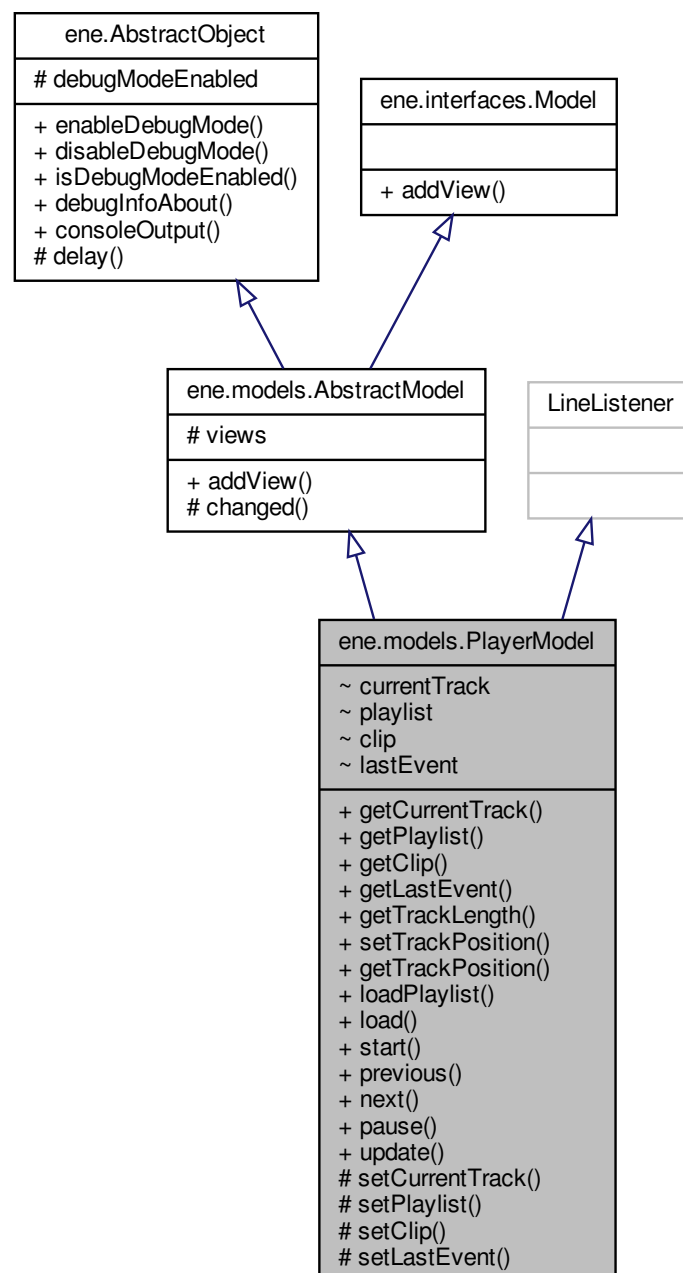


The documentation for this class was generated from the following file:

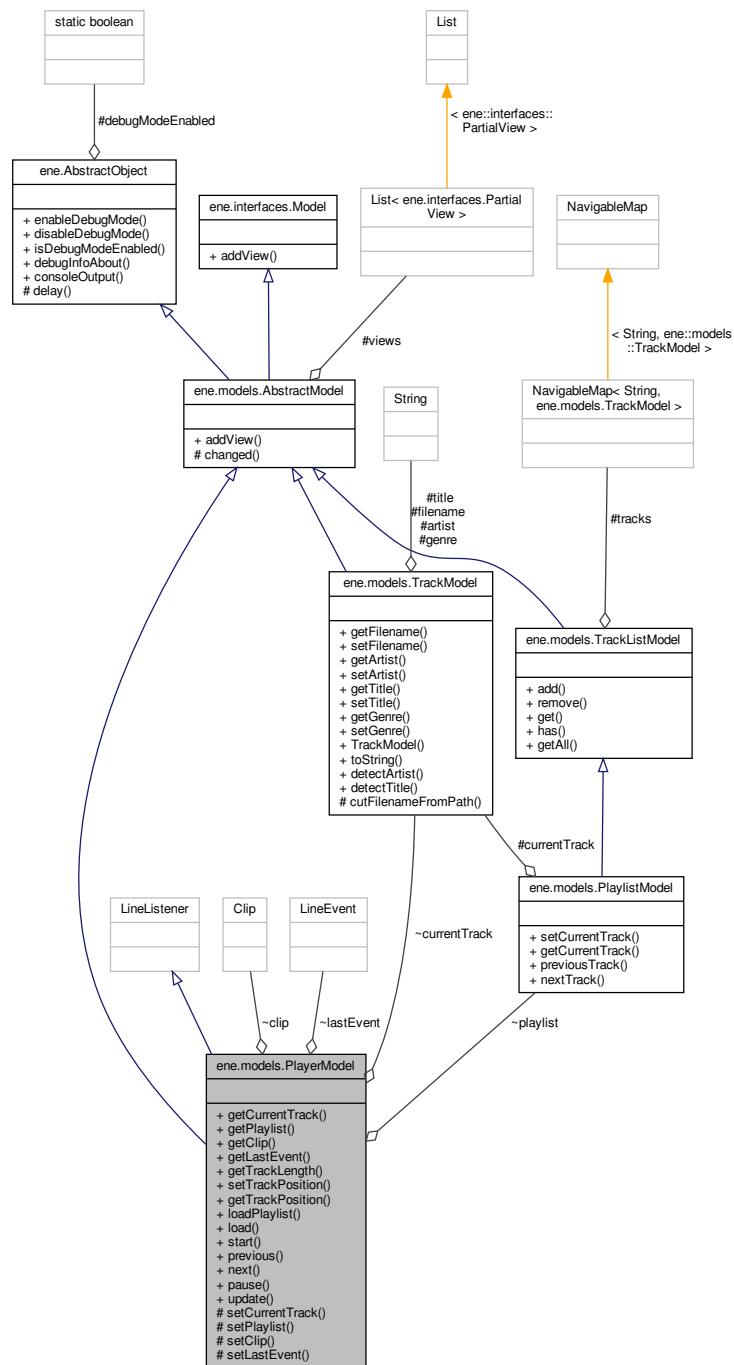
- `src/ene/controllers/PlayerController.java`

## 7.22 ene.models.PlayerModel Class Reference

Inheritance diagram for ene.models.PlayerModel:



Collaboration diagram for ene.models.PlayerModel:



## Public Member Functions

- `TrackModel` `getCurrentTrack ()`
- `PlaylistModel` `getPlaylist ()`
- `Clip` `getClip ()`
- `LineEvent` `getLastEvent ()`
- `int` `getTrackLength ()`

- void [setTrackPosition](#) (int position)
- int [getTrackPosition](#) ()
- boolean [loadPlaylist](#) ([PlaylistModel](#) playlist)
- boolean [load](#) ([TrackModel](#) track)
- boolean [start](#) ()
- boolean [previous](#) ()
- boolean [next](#) ()
- boolean [pause](#) ()
- void [update](#) ([LineEvent](#) event)

#### Protected Member Functions

- void [setCurrentTrack](#) ([TrackModel](#) track)
- void [setPlaylist](#) ([PlaylistModel](#) playlist)
- void [setClip](#) ([Clip](#) clip)
- void [setLastEvent](#) ([LineEvent](#) event)

#### Package Attributes

- [TrackModel](#) [currentTrack](#)
- [PlaylistModel](#) [playlist](#)
- [Clip](#) [clip](#)
- [LineEvent](#) [lastEvent](#)

#### Additional Inherited Members

##### 7.22.1 Detailed Description

Player model.

#### Version

1.1.0

Definition at line 20 of file [PlayerModel.java](#).

##### 7.22.2 Member Function Documentation



## 7.22.2.1 getClip()

```
Clip ene.models.PlayerModel.getClip ( )
```

Returns the clip.

**Returns**

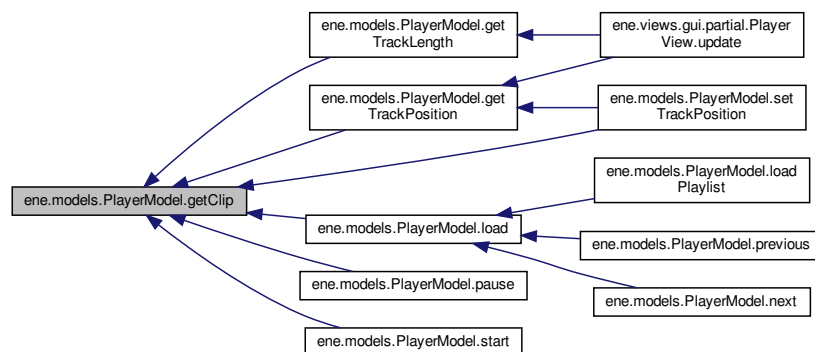
Clip instance.

Definition at line 87 of file PlayerModel.java.

References ene.models.PlayerModel.clip.

Referenced by ene.models.PlayerModel.getTrackLength(), ene.models.PlayerModel.getTrackPosition(), ene.models.PlayerModel.load(), ene.models.PlayerModel.pause(), ene.models.PlayerModel.setTrackPosition(), and ene.models.PlayerModel.start().

Here is the caller graph for this function:



## 7.22.2.2 getCurrentTrack()

```
TrackModel ene.models.PlayerModel.getCurrentTrack ( )
```

Returns the current track model instance.

**Returns**

Track model instance.

Since

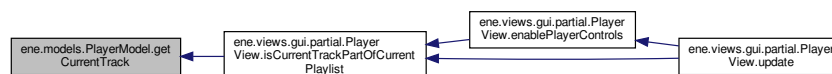
1.0.0

Definition at line 54 of file PlayerModel.java.

References ene.models.PlayerModel.currentTrack.

Referenced by ene.views.gui.partial.PlayerView.isCurrentTrackPartOfCurrentPlaylist().

Here is the caller graph for this function:



#### 7.22.2.3 `getLastEvent()`

```
LineEvent ene.models.PlayerModel.getLastEvent ( )
```

Returns the last event.

Returns

Line event instance.

Definition at line 103 of file PlayerModel.java.

References ene.models.PlayerModel.lastEvent.

#### 7.22.2.4 `getPlaylist()`

```
PlaylistModel ene.models.PlayerModel.getPlaylist ( )
```

Returns the playlist model instance.

Returns

Playlist model instance.

Since

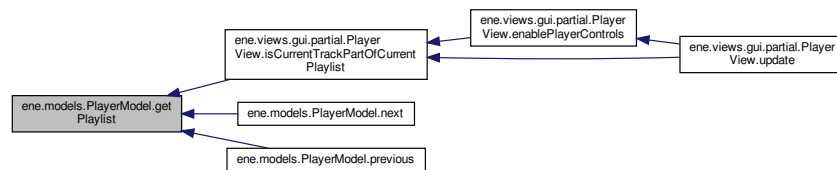
1.0.0

Definition at line 71 of file PlayerModel.java.

References ene.models.PlayerModel.playlist.

Referenced by ene.views.gui.partial.PlayerView.isCurrentTrackPartOfCurrentPlaylist(), ene.models.PlayerModel.next(), and ene.models.PlayerModel.previous().

Here is the caller graph for this function:



### 7.22.2.5 getTrackLength()

```
int ene.models.PlayerModel.getTrackLength ( )
```

Returns the track length.

Returns

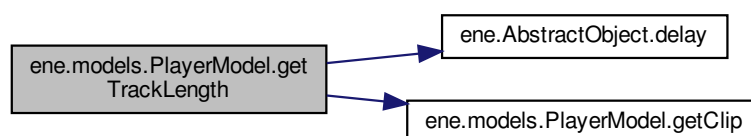
Track length in seconds.

Definition at line 111 of file PlayerModel.java.

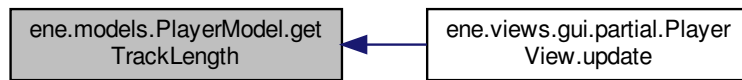
References ene.AbstractObject.delay(), and ene.models.PlayerModel.getClip().

Referenced by ene.views.gui.partial.PlayerView.update().

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.22.2.6 `getTrackPosition()`

```
int ene.models.PlayerModel.getTrackPosition ( )
```

Returns the current track position.

##### Returns

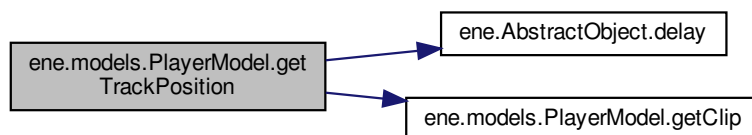
Current track position in seconds.

Definition at line 128 of file `PlayerModel.java`.

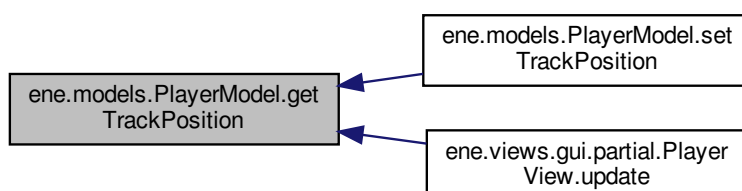
References `ene.AbstractObject.delay()`, and `ene.models.PlayerModel.getClip()`.

Referenced by `ene.models.PlayerModel.setTrackPosition()`, and `ene.views.gui.partial.PlayerView.update()`.

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.22.2.7 load()

```
boolean ene.models.PlayerModel.load (  
    TrackModel track )
```

Load track. Implementation inspired by: <https://www.tutorials.de/threads/kontinuierlich-laufende-hintere-359029>

## Parameters

<i>track</i>	Track model instance.
--------------	-----------------------

## Returns

Returns TRUE, if successful. Otherwise FALSE.

## Version

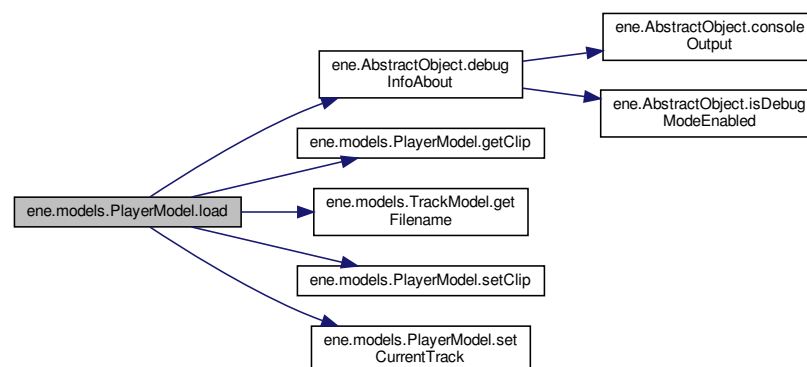
1.0.0

Definition at line 152 of file PlayerModel.java.

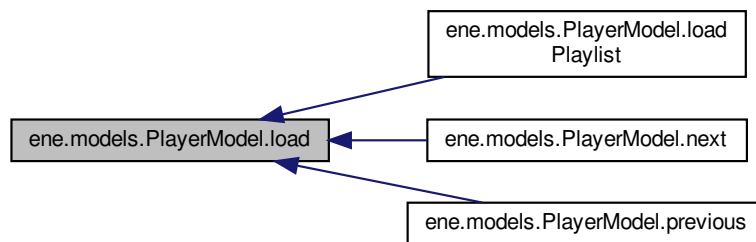
References `ene.AbstractObject.debugInfoAbout()`, `ene.models.PlayerModel.getClip()`, `ene.models.TrackModel.getFilename()`, `ene.models.PlayerModel.setClip()`, and `ene.models.PlayerModel.setCurrentTrack()`.

Referenced by `ene.models.PlayerModel.loadPlaylist()`, `ene.models.PlayerModel.next()`, and `ene.models.PlayerModel.previous()`.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.22.2.8 loadPlaylist()

```
boolean ene.models.PlayerModel.loadPlaylist (
    PlaylistModel playlist )
```

Loads playlist.

##### Parameters

<i>playlist</i>	Playlist model instance.
-----------------	--------------------------

##### Returns

Returns TRUE, if successful. Otherwise FALSE.

##### Since

1.0.0

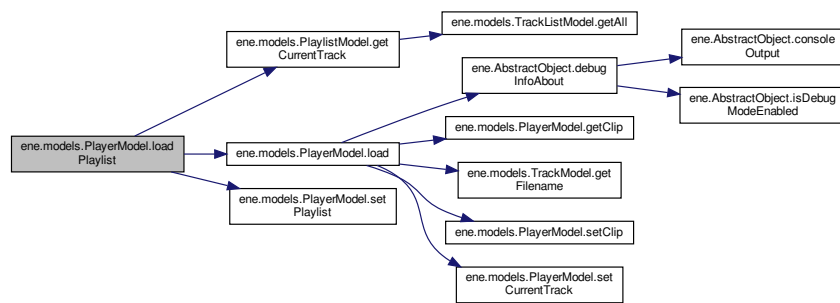
##### Version

1.0.0

Definition at line 140 of file PlayerModel.java.

References `ene.models.PlaylistModel.getCurrentTrack()`, `ene.models.PlayerModel.load()`, and `ene.models.PlayerModel.setPlaylist()`.

Here is the call graph for this function:



### 7.22.2.9 next()

```
boolean ene.models.PlayerModel.next ( )
```

Jumps to the next track.

#### Returns

Returns TRUE, if successful. Otherwise FALSE.

#### Since

1.0.0

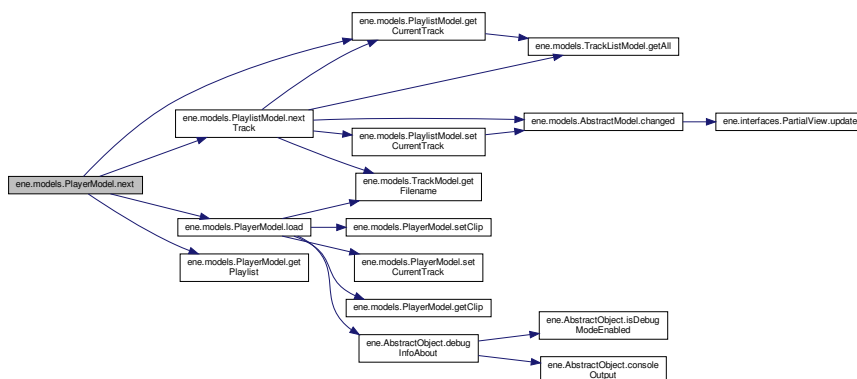
#### Version

1.0.0

Definition at line 213 of file PlayerModel.java.

References `ene.models.PlaylistModel.getCurrentTrack()`, `ene.models.PlayerModel.getPlaylist()`, `ene.models.PlayerModel.load()`, and `ene.models.PlaylistModel.nextTrack()`.

Here is the call graph for this function:



#### 7.22.2.10 pause()

```
boolean ene.models.PlayerModel.pause ( )
```

Pause playing.

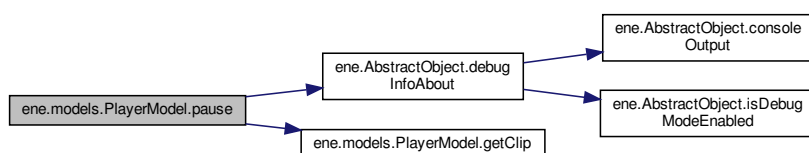
##### Returns

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 227 of file PlayerModel.java.

References ene.AbstractObject.debugInfoAbout(), and ene.models.PlayerModel.getClip().

Here is the call graph for this function:



#### 7.22.2.11 previous()

```
boolean ene.models.PlayerModel.previous ( )
```

Jumps to the previous track.

##### Returns

Returns TRUE, if successful. Otherwise FALSE.

##### Since

1.0.0



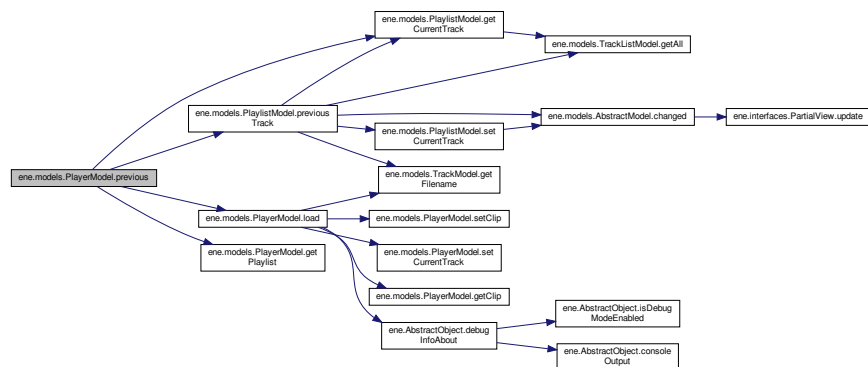
## Version

1.0.0

Definition at line 197 of file PlayerModel.java.

References ene.models.PlaylistModel.getCurrentTrack(), ene.models.PlayerModel.getPlaylist(), ene.models.PlayerModel.load(), and ene.models.PlaylistModel.previousTrack().

Here is the call graph for this function:



## 7.22.2.12 setClip()

```
void ene.models.PlayerModel.setClip (
    Clip clip ) [protected]
```

Sets the clip.

## Parameters

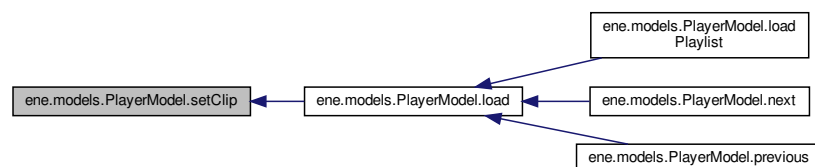
<i>clip</i>	Clip instance.
-------------	----------------

Definition at line 79 of file PlayerModel.java.

References ene.models.PlayerModel.clip.

Referenced by ene.models.PlayerModel.load().

Here is the caller graph for this function:



### 7.22.2.13 setCurrentTrack()

```
void ene.models.PlayerModel.setCurrentTrack (
    TrackModel track ) [protected]
```

Sets the current track model instance.

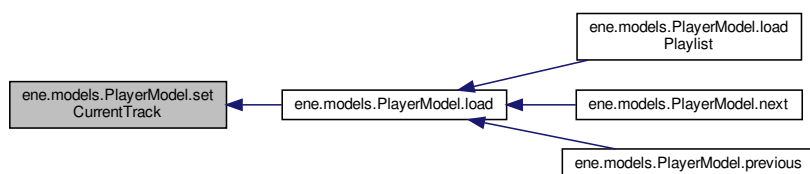
#### Parameters

<i>track</i>	Track model instance.
--------------	-----------------------

Definition at line 45 of file PlayerModel.java.

Referenced by ene.models.PlayerModel.load().

Here is the caller graph for this function:



### 7.22.2.14 setLastEvent()

```
void ene.models.PlayerModel.setLastEvent (
    LineEvent event ) [protected]
```

Sets the last event.

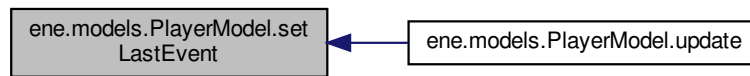
#### Parameters

<i>event</i>	Line event instance.
--------------	----------------------

Definition at line 95 of file PlayerModel.java.

Referenced by ene.models.PlayerModel.update().

Here is the caller graph for this function:



#### 7.22.2.15 setPlaylist()

```
void ene.models.PlayerModel.setPlaylist (
    PlaylistModel playlist ) [protected]
```

Sets the playlist model instance.

##### Parameters

<i>playlist</i>	Playlist model instance.
-----------------	--------------------------

Definition at line 62 of file PlayerModel.java.

References `ene.models.PlayerModel.playlist`.

Referenced by `ene.models.PlayerModel.loadPlaylist()`.

Here is the caller graph for this function:



#### 7.22.2.16 setTrackPosition()

```
void ene.models.PlayerModel.setTrackPosition (
    int position )
```

Sets the current track position.

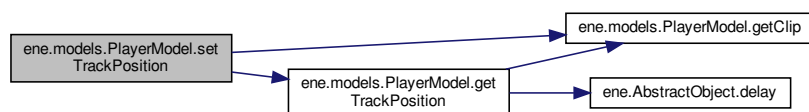
**Parameters**

<i>position</i>	Track position in seconds.
-----------------	----------------------------

Definition at line 120 of file PlayerModel.java.

References ene.models.PlayerModel.getClip(), and ene.models.PlayerModel.getTrackPosition().

Here is the call graph for this function:

**7.22.2.17 start()**

```
boolean ene.models.PlayerModel.start ( )
```

Start playing.

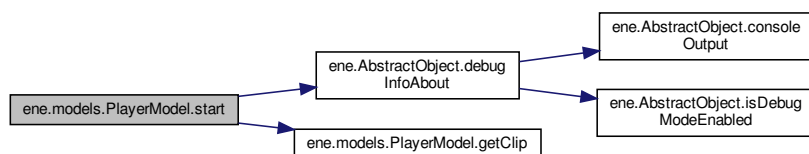
**Returns**

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 181 of file PlayerModel.java.

References ene.AbstractObject.debugInfoAbout(), and ene.models.PlayerModel.getClip().

Here is the call graph for this function:



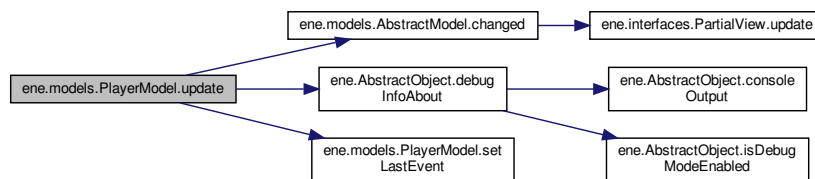
## 7.22.2.18 update()

```
void ene.models.PlayerModel.update (
    LineEvent event )
```

Definition at line 238 of file PlayerModel.java.

References ene.models.AbstractModel.changed(), ene.AbstractObject.debugInfoAbout(), and ene.models.PlayerModel.setLastEvent().

Here is the call graph for this function:



## 7.22.3 Member Data Documentation

## 7.22.3.1 clip

```
Clip ene.models.PlayerModel.clip [package]
```

Clip instance.

Definition at line 34 of file PlayerModel.java.

Referenced by ene.models.PlayerModel.getClip(), and ene.models.PlayerModel.setClip().

## 7.22.3.2 currentTrack

```
TrackModel ene.models.PlayerModel.currentTrack [package]
```

Current track instance.

Definition at line 24 of file PlayerModel.java.

Referenced by ene.models.PlayerModel.getCurrentTrack().

### 7.22.3.3 lastEvent

```
LineEvent ene.models.PlayerModel.lastEvent [package]
```

Line event instance.

Definition at line 39 of file PlayerModel.java.

Referenced by ene.models.PlayerModel.getLastEvent().

### 7.22.3.4 playlist

```
PlaylistModel ene.models.PlayerModel.playlist [package]
```

Playlist model instance.

Definition at line 29 of file PlayerModel.java.

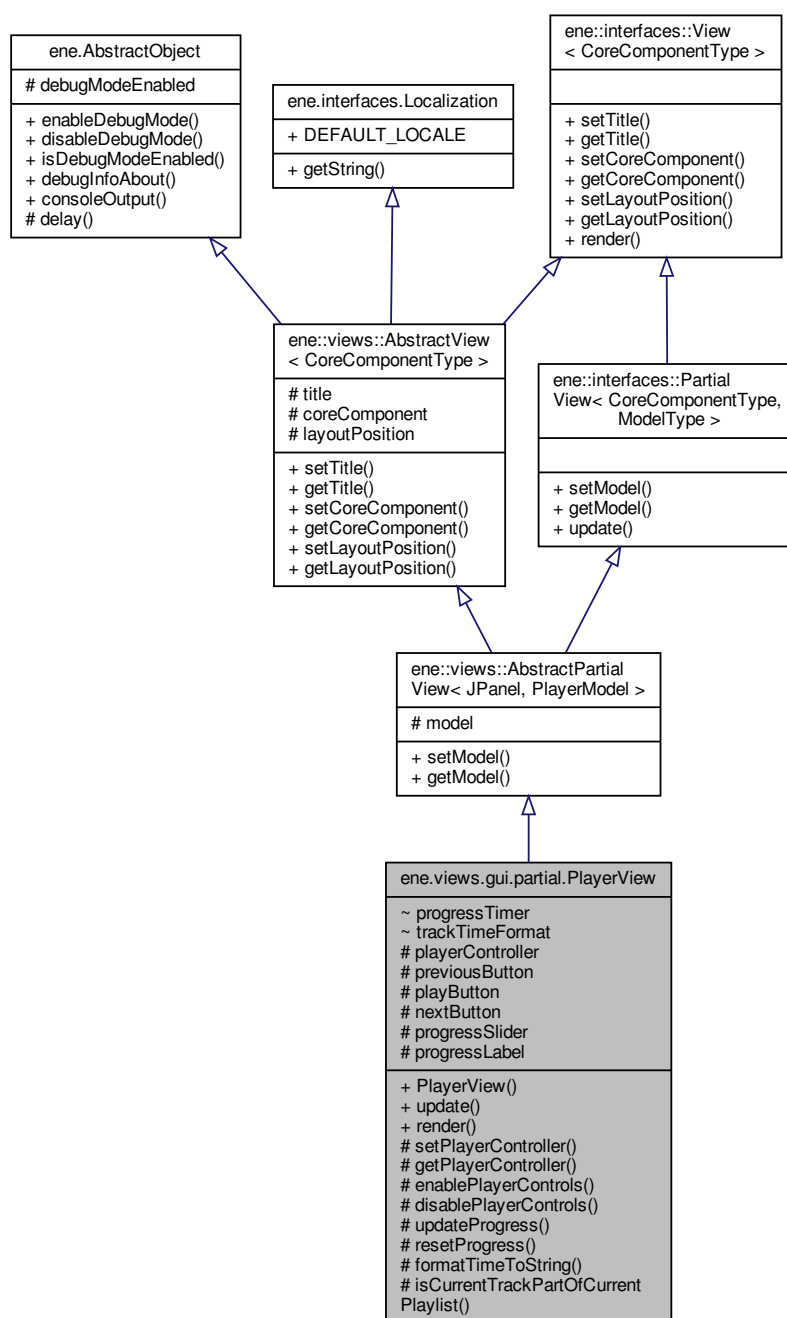
Referenced by ene.models.PlayerModel.getPlaylist(), and ene.models.PlayerModel.setPlaylist().

The documentation for this class was generated from the following file:

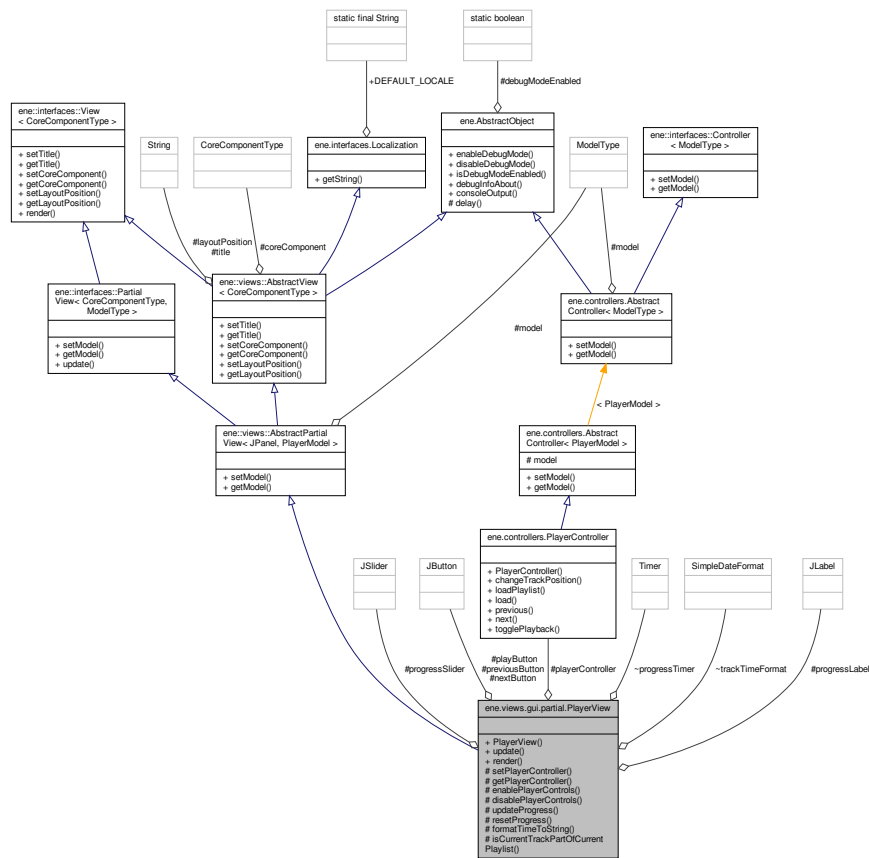
- src/ene/models/[PlayerModel.java](#)

## 7.23 ene.views.gui.partial.PlayerView Class Reference

Inheritance diagram for ene.views.gui.partial.PlayerView:



Collaboration diagram for `ene.views.gui.partial.PlayerView`:



### Public Member Functions

- `PlayerView` (Model model, Controller playerController)
- void `update` ()
- void `render` ()

### Protected Member Functions

- void `setPlayerController` (Controller playerController)
- `PlayerController` `getPlayerController` ()
- void `enablePlayerControls` ()
- void `disablePlayerControls` ()
- void `updateProgress` ()
- void `resetProgress` ()
- String `formatTimeToString` (int timeInSeconds)
- boolean `isCurrentTrackPartOfCurrentPlaylist` (PlayerModel player)

### Protected Attributes

- `PlayerController` `playerController`
- JButton `previousButton`
- JButton `playButton`
- JButton `nextButton`
- JSlider `progressSlider`
- JLabel `progressLabel`



### Package Attributes

- Timer [progressTimer](#)
- SimpleDateFormat [trackTimeFormat](#)

### Additional Inherited Members

#### 7.23.1 Detailed Description

Player view.

#### Version

2.2.1

Definition at line 26 of file `PlayerView.java`.

#### 7.23.2 Constructor & Destructor Documentation

##### 7.23.2.1 `PlayerView()`

```
ene.views.gui.partial.PlayerView.PlayerView (
    Model model,
    Controller playerController )
```

Constructor.

#### Parameters

<i>model</i>	Player model instance.
<i>playerController</i>	Player controller instance.

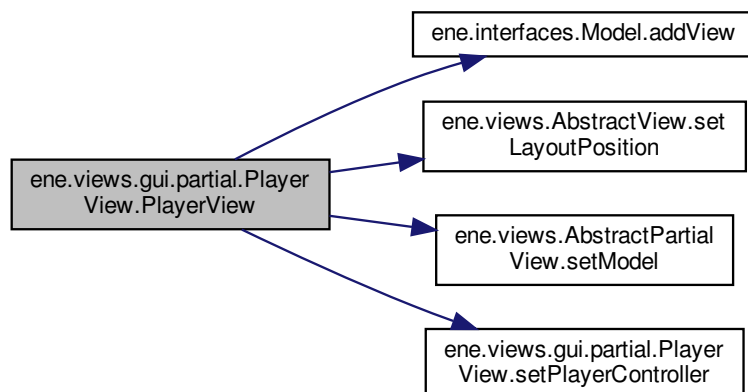
#### Version

1.1.0

Definition at line 89 of file `PlayerView.java`.

References `ene.interfaces.Model.addView()`, `ene.views.AbstractView< CoreComponentType >.setLayout()`, `ene.views.AbstractPartialView< CoreComponentType, ModelType >.setModel()`, and `ene.views.gui.partial.PlayerView.setPlayerController()`.

Here is the call graph for this function:



### 7.23.3 Member Function Documentation

#### 7.23.3.1 disablePlayerControls()

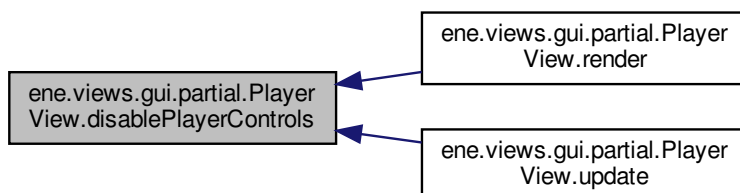
```
void ene.views.gui.partial.PlayerView.disablePlayerControls ( ) [protected]
```

Disables player controls.

Definition at line 112 of file `PlayerView.java`.

Referenced by `ene.views.gui.partial.PlayerView.render()`, and `ene.views.gui.partial.PlayerView.update()`.

Here is the caller graph for this function:



## 7.23.3.2 enablePlayerControls()

```
void ene.views.gui.partial.PlayerView.enablePlayerControls ( ) [protected]
```

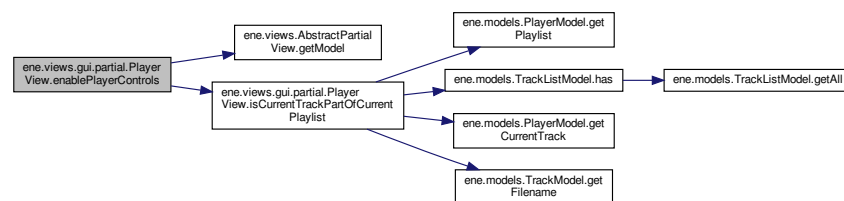
Enables player controls.

Definition at line 99 of file PlayerView.java.

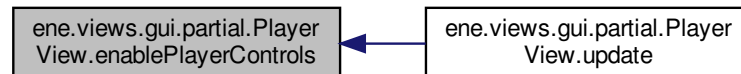
References `ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel()`, and `ene.views.gui.partial.PlayerView.isCurrentTrackPartOfCurrentPlaylist()`.

Referenced by `ene.views.gui.partial.PlayerView.update()`.

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.23.3.3 formatTimeToString()

```
String ene.views.gui.partial.PlayerView.formatTimeToString (
    int timeInSeconds ) [protected]
```

Returns a string representation of the time.

## Parameters

<i>timeInSeconds</i>	Time in seconds.
----------------------	------------------

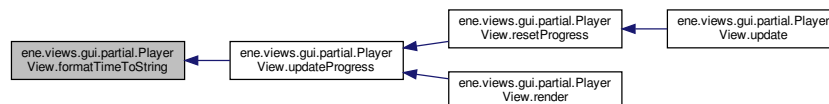
**Returns**

String representation of the time.

Definition at line 148 of file `PlayerView.java`.

Referenced by `ene.views.gui.partial.PlayerView.updateProgress()`.

Here is the caller graph for this function:

**7.23.3.4 getPlayerController()**

```
PlayerController ene.views.gui.partial.PlayerView.getPlayerController ( ) [protected]
```

Returns the player controller instance.

**Returns**

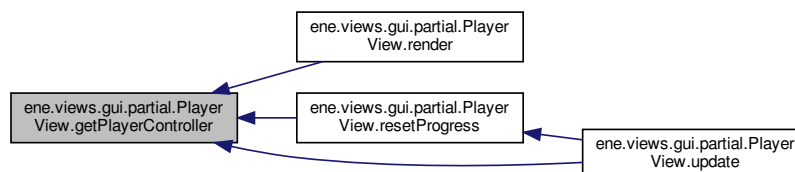
Player controller instance.

Definition at line 79 of file `PlayerView.java`.

References `ene.views.gui.partial.PlayerView.playerController`.

Referenced by `ene.views.gui.partial.PlayerView.render()`, `ene.views.gui.partial.PlayerView.resetProgress()`, and `ene.views.gui.partial.PlayerView.update()`.

Here is the caller graph for this function:



## 7.23.3.5 isCurrentTrackPartOfCurrentPlaylist()

```
boolean ene.views.gui.partial.PlayerView.isCurrentTrackPartOfCurrentPlaylist (
    PlayerModel player ) [protected]
```

Checks, if the current track a part of the current playlist is.

## Returns

Returns TRUE, if it is a part of. Otherwise FALSE.

## Since

1.0.0

## Version

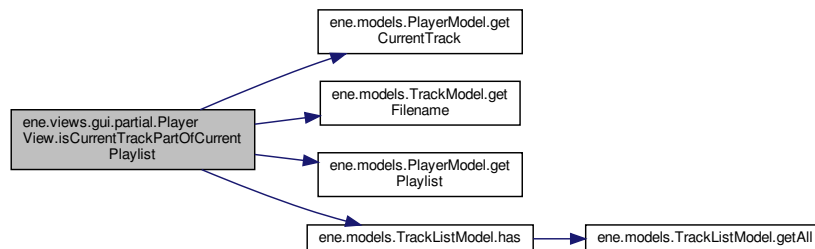
1.0.0

Definition at line 190 of file PlayerView.java.

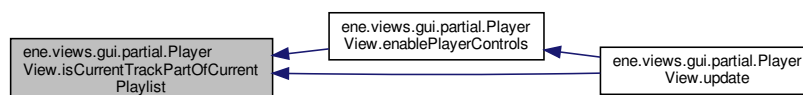
References [ene.models.PlayerModel.getCurrentTrack\(\)](#), [ene.models.TrackModel.getFilename\(\)](#), [ene.models.PlayerModel.getPlaylist\(\)](#), and [ene.models.TrackListModel.has\(\)](#).

Referenced by [ene.views.gui.partial.PlayerView.enablePlayerControls\(\)](#), and [ene.views.gui.partial.PlayerView.update\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.23.3.6 render()

```
void ene.views.gui.partial.PlayerView.render ( )
```

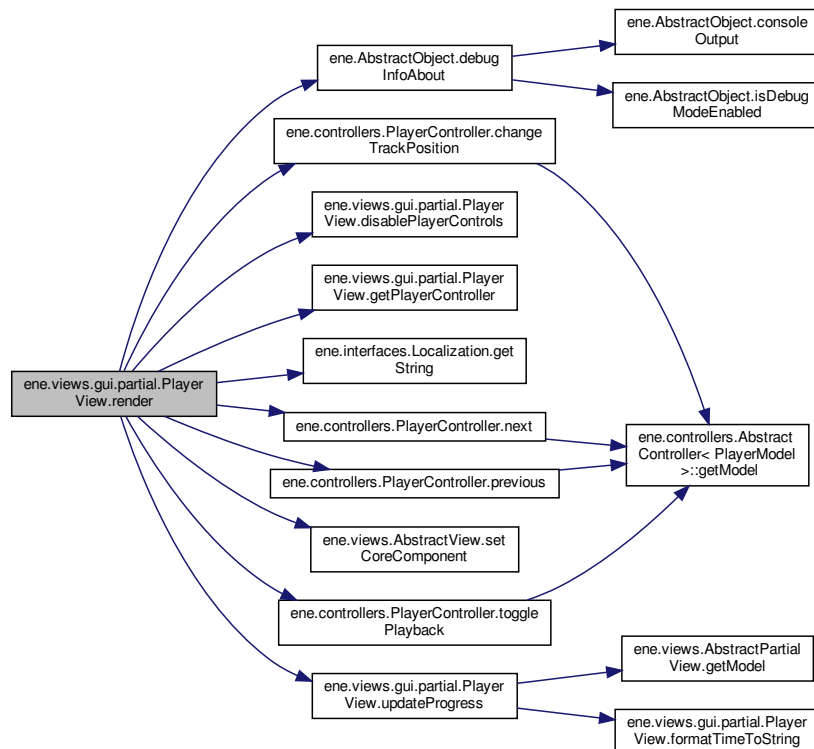
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 203 of file PlayerView.java.

References [ene.controllers.PlayerController.changeTrackPosition\(\)](#), [ene.AbstractObject.debugInfoAbout\(\)](#), [ene.views.gui.partial.PlayerView.disablePlayerControls\(\)](#), [ene.views.gui.partial.PlayerView.getPlayerController\(\)](#), [ene.interfaces.Localization.getString\(\)](#), [ene.controllers.PlayerController.next\(\)](#), [ene.controllers.PlayerController.previous\(\)](#), [ene.views.AbstractView< CoreComponentType >.setCoreComponent\(\)](#), [ene.controllers.PlayerController.togglePlayback\(\)](#), and [ene.views.gui.partial.PlayerView.updateProgress\(\)](#).

Here is the call graph for this function:



### 7.23.3.7 resetProgress()

```
void ene.views.gui.partial.PlayerView.resetProgress ( ) [protected]
```

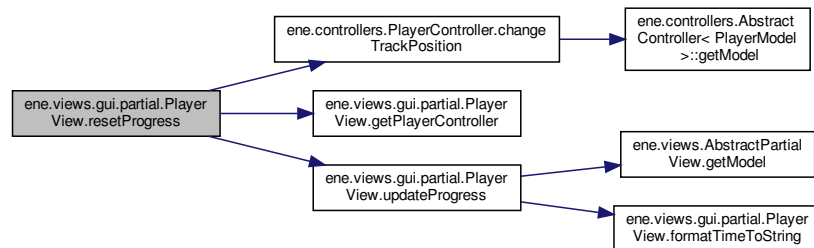
Resets the track progress.

Definition at line 138 of file PlayerView.java.

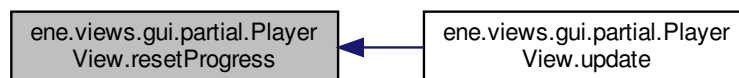
References ene.controllers.PlayerController.changeTrackPosition(), ene.views.gui.partial.PlayerView.getPlayerController(), and ene.views.gui.partial.PlayerView.updateProgress().

Referenced by ene.views.gui.partial.PlayerView.update().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.23.3.8 setPlayerController()

```
void ene.views.gui.partial.PlayerView.setPlayerController (
    Controller playerController ) [protected]
```

Sets the player controller instance.

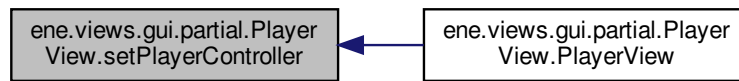
#### Parameters

<i>playerController</i>	Player controller instance.
-------------------------	-----------------------------

Definition at line 71 of file `PlayerView.java`.

Referenced by `ene.views.gui.partial.PlayerView.PlayerView()`.

Here is the caller graph for this function:



### 7.23.3.9 update()

```
void ene.views.gui.partial.PlayerView.update ( )
```

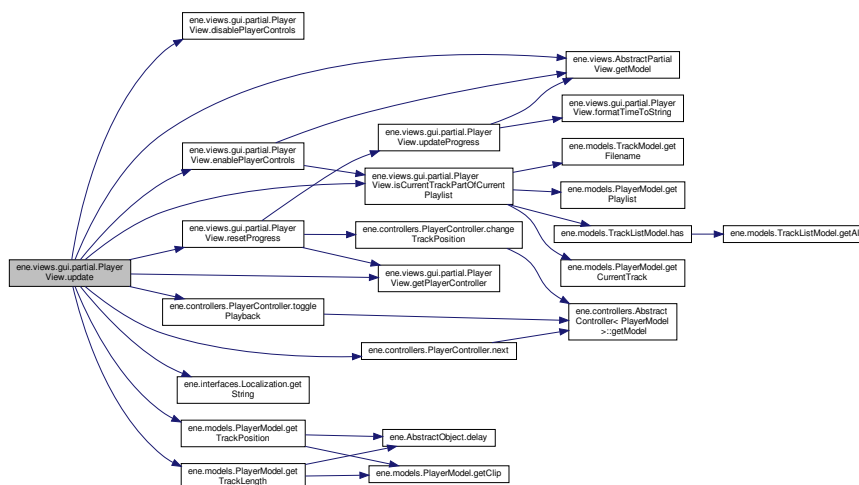
Request update.

Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 153 of file PlayerView.java.

References [ene.views.gui.partial.PlayerView.disablePlayerControls\(\)](#), [ene.views.gui.partial.PlayerView.enablePlayerControls\(\)](#), [ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel\(\)](#), [ene.views.gui.partial.PlayerView.getPlayerController\(\)](#), [ene.interfaces.Localization.getString\(\)](#), [ene.models.PlayerModel.getTrackLength\(\)](#), [ene.models.PlayerModel.getTrackPosition\(\)](#), [ene.views.gui.partial.PlayerView.isCurrentTrackPartOfCurrentPlaylist\(\)](#), [ene.controllers.PlayerController.next\(\)](#), [ene.views.gui.partial.PlayerView.resetProgress\(\)](#), and [ene.controllers.PlayerController.togglePlayback\(\)](#).

Here is the call graph for this function:





## 7.23.3.10 updateProgress()

```
void ene.views.gui.partial.PlayerView.updateProgress ( ) [protected]
```

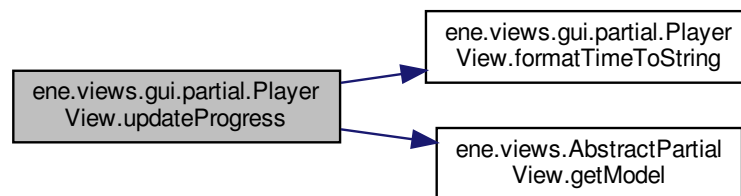
Updates the progress slider and label.

Definition at line 123 of file PlayerView.java.

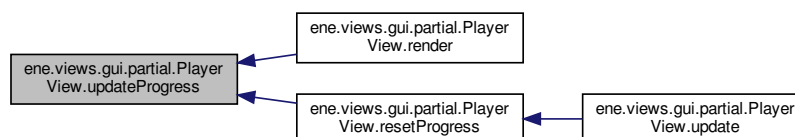
References `ene.views.gui.partial.PlayerView.formatTimeToString()`, and `ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel()`.

Referenced by `ene.views.gui.partial.PlayerView.render()`, and `ene.views.gui.partial.PlayerView.resetProgress()`.

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.23.4 Member Data Documentation

## 7.23.4.1 nextButton

```
JButton ene.views.gui.partial.PlayerView.nextButton [protected]
```

Next button.

Definition at line 45 of file PlayerView.java.

#### 7.23.4.2 playButton

```
JButton ene.views.gui.partial.PlayerView.playButton [protected]
```

Play/Pause button.

Definition at line 40 of file PlayerView.java.

#### 7.23.4.3 playerController

```
PlayerController ene.views.gui.partial.PlayerView.playerController [protected]
```

Player controller instance.

Definition at line 30 of file PlayerView.java.

Referenced by ene.views.gui.partial.PlayerView.getPlayerController().

#### 7.23.4.4 previousButton

```
JButton ene.views.gui.partial.PlayerView.previousButton [protected]
```

Previous button.

Definition at line 35 of file PlayerView.java.

#### 7.23.4.5 progressLabel

```
JLabel ene.views.gui.partial.PlayerView.progressLabel [protected]
```

Progress label.

Definition at line 55 of file PlayerView.java.

#### 7.23.4.6 progressSlider

```
JSlider ene.views.gui.partial.PlayerView.progressSlider [protected]
```

Progress slider.

Definition at line 50 of file PlayerView.java.

## 7.23.4.7 progressTimer

Timer ene.views.gui.partial.PlayerView.progressTimer [package]

Progress refresh timer.

Definition at line 60 of file PlayerView.java.

## 7.23.4.8 trackTimeFormat

SimpleDateFormat ene.views.gui.partial.PlayerView.trackTimeFormat [package]

Track time format instance.

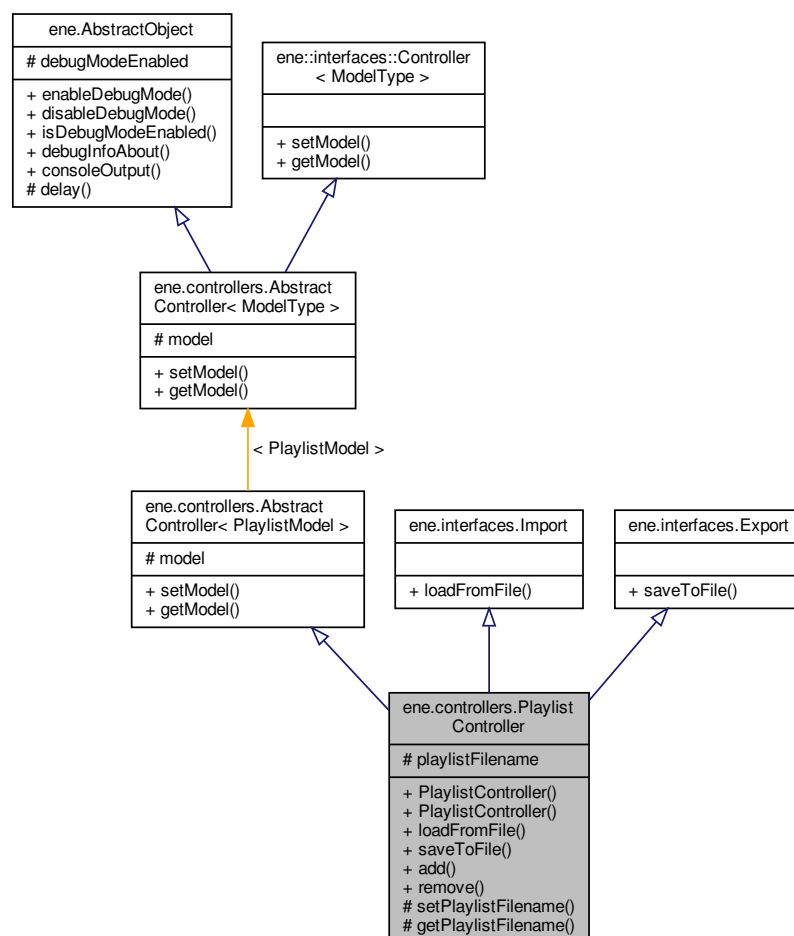
Definition at line 65 of file PlayerView.java.

The documentation for this class was generated from the following file:

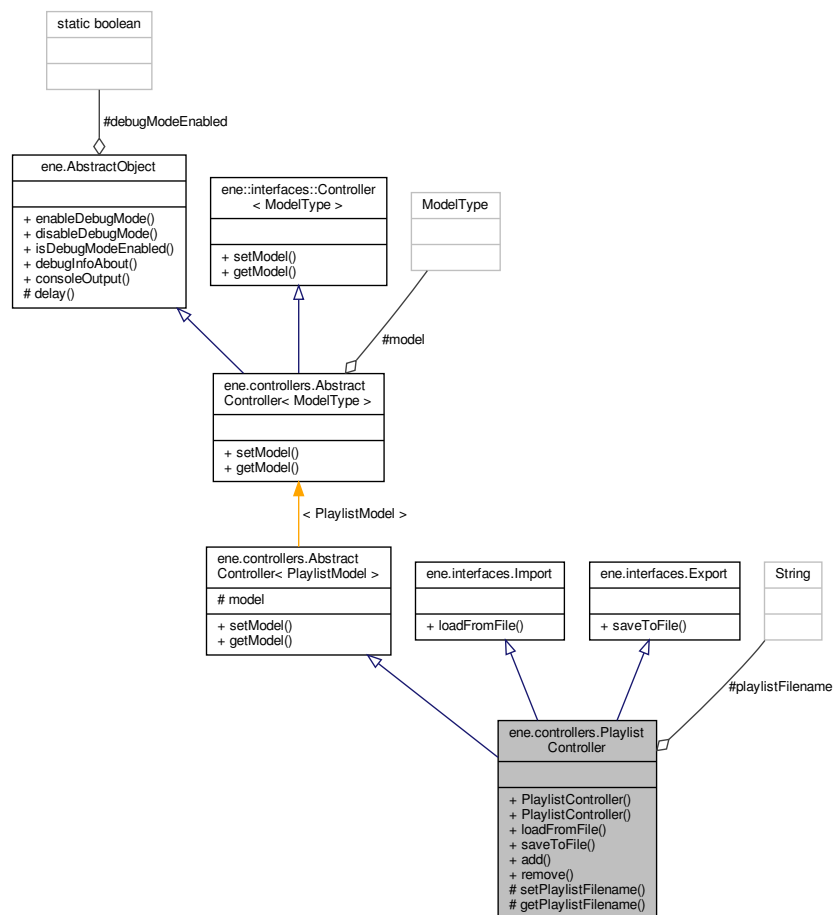
- [src/ene/views/gui/partial/PlayerView.java](#)

## 7.24 ene.controllers.PlaylistController Class Reference

Inheritance diagram for ene.controllers.PlaylistController:



Collaboration diagram for ene.controllers.PlaylistController:



## Public Member Functions

- [PlaylistController \(Model model\)](#)
- [PlaylistController \(Model model, String playlistFilename\)](#)
- `boolean` [loadFromFile](#) (String filename)
- `boolean` [saveToFile](#) (String filename)
- `boolean` [add](#) ([TrackModel](#) track)
- `boolean` [remove](#) (String filename)

## Protected Member Functions

- `void` [setPlaylistFilename](#) (String filename)
- `String` [getPlaylistFilename](#) ()

## Protected Attributes

- `String` [playlistFilename](#)

### 7.24.1 Detailed Description

Playlist controller.

Since

1.0.0

Version

1.0.0

Definition at line 21 of file PlaylistController.java.

### 7.24.2 Constructor & Destructor Documentation

#### 7.24.2.1 PlaylistController() [1/2]

```
ene.controllers.PlaylistController.PlaylistController (  
    Model model )
```

Constructor.

Parameters

<i>model</i>	Playlist model instance.
--------------	--------------------------

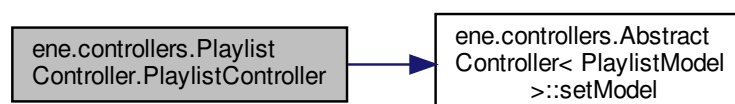
Version

1.0.0

Definition at line 48 of file PlaylistController.java.

References ene.controllers.AbstractController< PlaylistModel >.setModel().

Here is the call graph for this function:



### 7.24.2.2 PlaylistController() [2/2]

```
ene.controllers.PlaylistController.PlaylistController (
    Model model,
    String playlistFilename )
```

Constructor.

#### Parameters

<i>model</i>	Playlist model instance.
<i>playlistFilename</i>	Playlist file path.

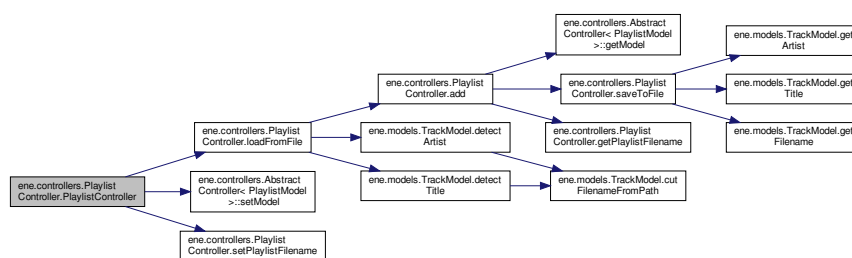
#### Version

1.0.0

Definition at line 58 of file PlaylistController.java.

References `ene.controllers.PlaylistController.loadFromFile()`, `ene.controllers.AbstractController< PlaylistModel >.setModel()`, and `ene.controllers.PlaylistController.setPlaylistFilename()`.

Here is the call graph for this function:



## 7.24.3 Member Function Documentation

### 7.24.3.1 add()

```
boolean ene.controllers.PlaylistController.add (
    TrackModel track )
```

Adds a track to the playlist.

#### Parameters

<i>track</i>	Track model instance.
--------------	-----------------------

**Returns**

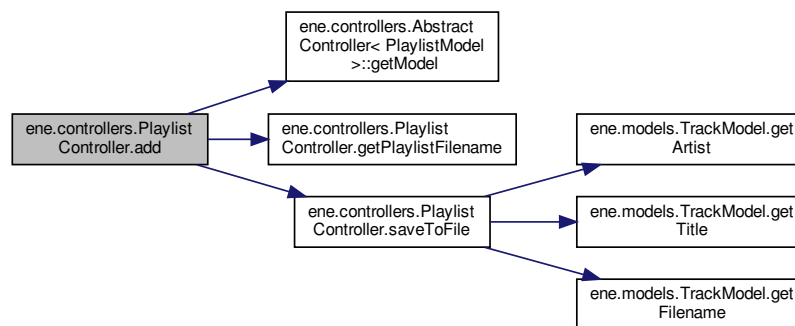
Returns TRUE, if successful. Otherwise FALSE.

Definition at line 123 of file PlaylistController.java.

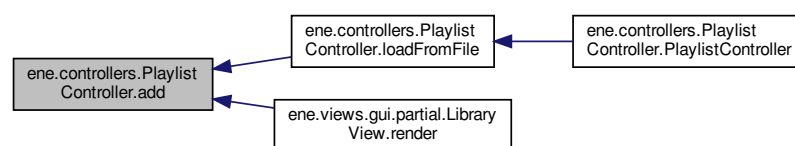
References ene.controllers.AbstractController< PlaylistModel >.getModel(), ene.controllers.PlaylistController.getPlaylistFilename(), and ene.controllers.PlaylistController.saveToFile().

Referenced by ene.controllers.PlaylistController.loadFromFile(), and ene.views.gui.partial.LibraryView.render().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.24.3.2 getPlaylistFilename()**

```
String ene.controllers.PlaylistController.getPlaylistFilename ( ) [protected]
```

Returns the playlist file path.

**Returns**

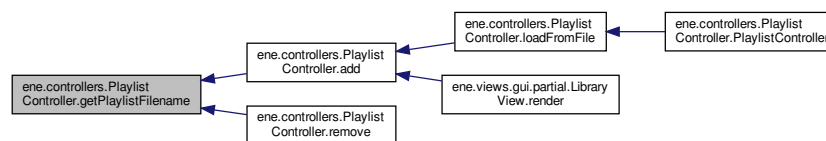
Playlist file path.

Definition at line 39 of file PlaylistController.java.

References ene.controllers.PlaylistController.playlistFilename.

Referenced by ene.controllers.PlaylistController.add(), and ene.controllers.PlaylistController.remove().

Here is the caller graph for this function:

**7.24.3.3 loadFromFile()**

```
boolean ene.controllers.PlaylistController.loadFromFile (
    String filename )
```

Loads data from a file.

**Parameters**

<i>filename</i>	File path.
-----------------	------------

**Returns**

Returns TRUE if successful. Otherwise FALSE.

Implements [ene.interfaces.Import](#).

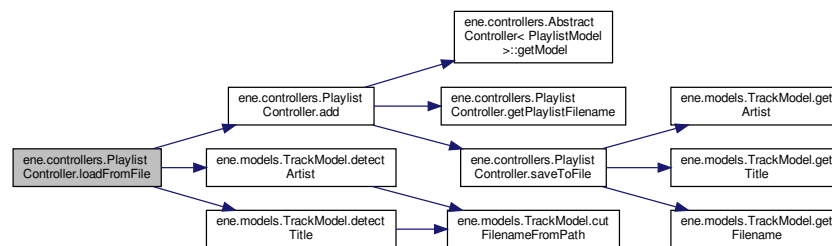
Definition at line 65 of file PlaylistController.java.

References ene.controllers.PlaylistController.add(), ene.models.TrackModel.detectArtist(), and ene.models.Track↔Model.detectTitle().

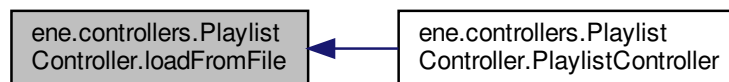
Referenced by ene.controllers.PlaylistController.PlaylistController().



Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.24.3.4 remove()

```
boolean ene.controllers.PlaylistController.remove (
    String filename )
```

Removes a track from the playlist.

##### Parameters

<i>filename</i>	File path.
-----------------	------------

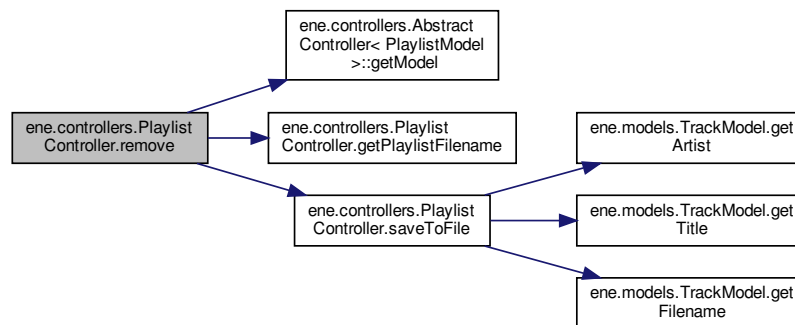
##### Returns

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 133 of file PlaylistController.java.

References `ene.controllers.AbstractController< PlaylistModel >.getModel()`, `ene.controllers.PlaylistController.getPlaylistFilename()`, and `ene.controllers.PlaylistController.saveToFile()`.

Here is the call graph for this function:



#### 7.24.3.5 saveToFile()

```
boolean ene.controllers.PlaylistController.saveToFile (
    String filename )
```

Saves data to a file.

##### Parameters

<i>filename</i>	File path.
-----------------	------------

##### Returns

Returns TRUE if successful. Otherwise FALSE.

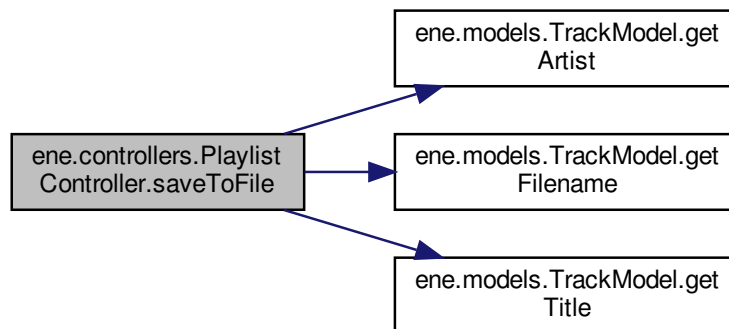
Implements [ene.interfaces.Export](#).

Definition at line 100 of file PlaylistController.java.

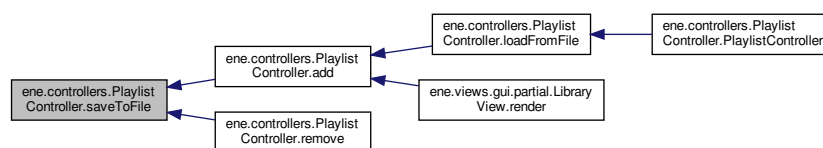
References [ene.models.TrackModel.getArtist\(\)](#), [ene.models.TrackModel.getFilename\(\)](#), and [ene.models.TrackModel.getTitle\(\)](#).

Referenced by [ene.controllers.PlaylistController.add\(\)](#), and [ene.controllers.PlaylistController.remove\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.24.3.6 setPlaylistFilename()

```
void ene.controllers.PlaylistController.setPlaylistFilename (
    String filename ) [protected]
```

Sets the playlist file path.

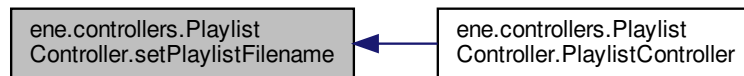
##### Parameters

<i>filename</i>	Playlist file path.
-----------------	---------------------

Definition at line 31 of file `PlaylistController.java`.

Referenced by `ene.controllers.PlaylistController.PlaylistController()`.

Here is the caller graph for this function:



#### 7.24.4 Member Data Documentation

##### 7.24.4.1 playlistFilename

```
String ene.controllers.PlaylistController.playlistFilename [protected]
```

Playlist file path.

Definition at line 25 of file PlaylistController.java.

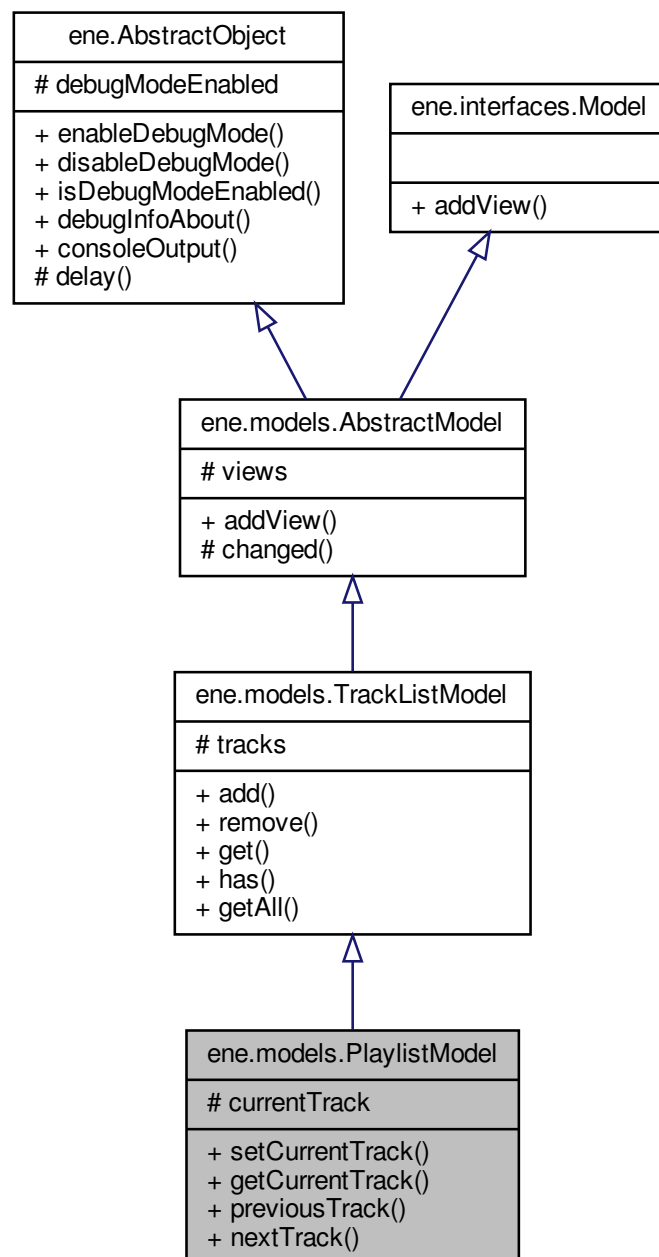
Referenced by ene.controllers.PlaylistController.getPlaylistFilename().

The documentation for this class was generated from the following file:

- src/ene/controllers/[PlaylistController.java](#)

## 7.25 ene.models.PlaylistModel Class Reference

Inheritance diagram for ene.models.PlaylistModel:





## Additional Inherited Members

### 7.25.1 Detailed Description

Playlist model.

#### Since

0.14.0

#### Version

2.0.0

Definition at line 10 of file PlaylistModel.java.

### 7.25.2 Member Function Documentation

#### 7.25.2.1 getCurrentTrack()

```
TrackModel ene.models.PlaylistModel.getCurrentTrack ( )
```

Returns the current track.

#### Returns

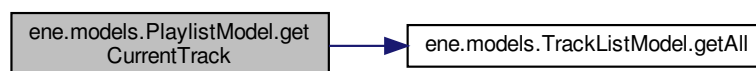
The current track model instance.

Definition at line 29 of file PlaylistModel.java.

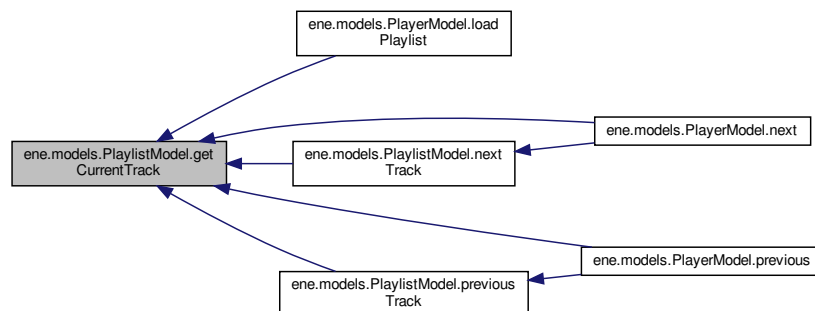
References ene.models.PlaylistModel.currentTrack, and ene.models.TrackListModel.getAll().

Referenced by ene.models.PlayerModel.loadPlaylist(), ene.models.PlayerModel.next(), ene.models.PlaylistModel.nextTrack(), ene.models.PlayerModel.previous(), and ene.models.PlaylistModel.previousTrack().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.25.2.2 nextTrack()

```
void ene.models.PlaylistModel.nextTrack ( )
```

Jumps to the next track.

#### Returns

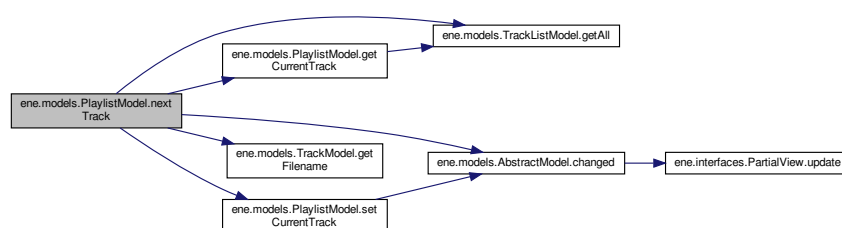
The next track model instance.

Definition at line 56 of file PlaylistModel.java.

References `ene.models.AbstractModel.changed()`, `ene.models.TrackListModel.getAll()`, `ene.models.PlaylistModel.getCurrentTrack()`, `ene.models.TrackModel.getFilename()`, and `ene.models.PlaylistModel.setCurrentTrack()`.

Referenced by `ene.models.PlayerModel.next()`.

Here is the call graph for this function:



Here is the caller graph for this function:





## 7.25.2.3 previousTrack()

```
void ene.models.PlaylistModel.previousTrack ( )
```

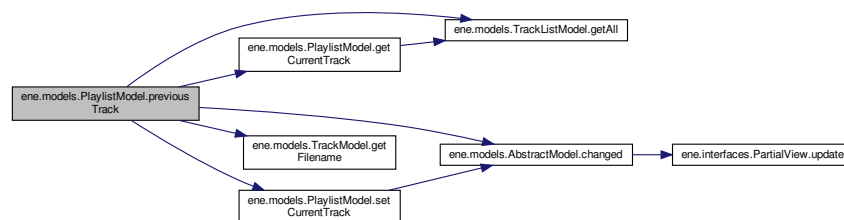
Jumps to the previous track.

Definition at line 40 of file PlaylistModel.java.

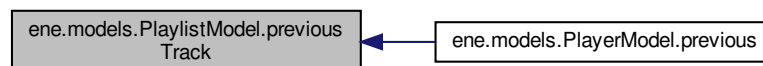
References `ene.models.AbstractModel.changed()`, `ene.models.TrackListModel.getAll()`, `ene.models.PlaylistModel.getCurrentTrack()`, `ene.models.TrackModel.getFilename()`, and `ene.models.PlaylistModel.setCurrentTrack()`.

Referenced by `ene.models.PlayerModel.previous()`.

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.25.2.4 setCurrentTrack()

```
void ene.models.PlaylistModel.setCurrentTrack (
    String filename )
```

Sets the current track.

## Parameters

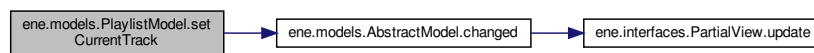
<i>filename</i>	File path.
-----------------	------------

Definition at line 20 of file PlaylistModel.java.

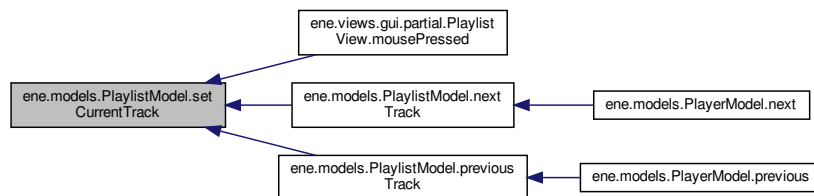
References `ene.models.AbstractModel.changed()`.

Referenced by `ene.views.gui.partial.PlaylistView.mousePressed()`, `ene.models.PlaylistModel.nextTrack()`, and `ene.models.PlaylistModel.previousTrack()`.

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.25.3 Member Data Documentation

#### 7.25.3.1 currentTrack

```
TrackModel ene.models.PlaylistModel.currentTrack = null [protected]
```

The current track model instance.

Definition at line 14 of file `PlaylistModel.java`.

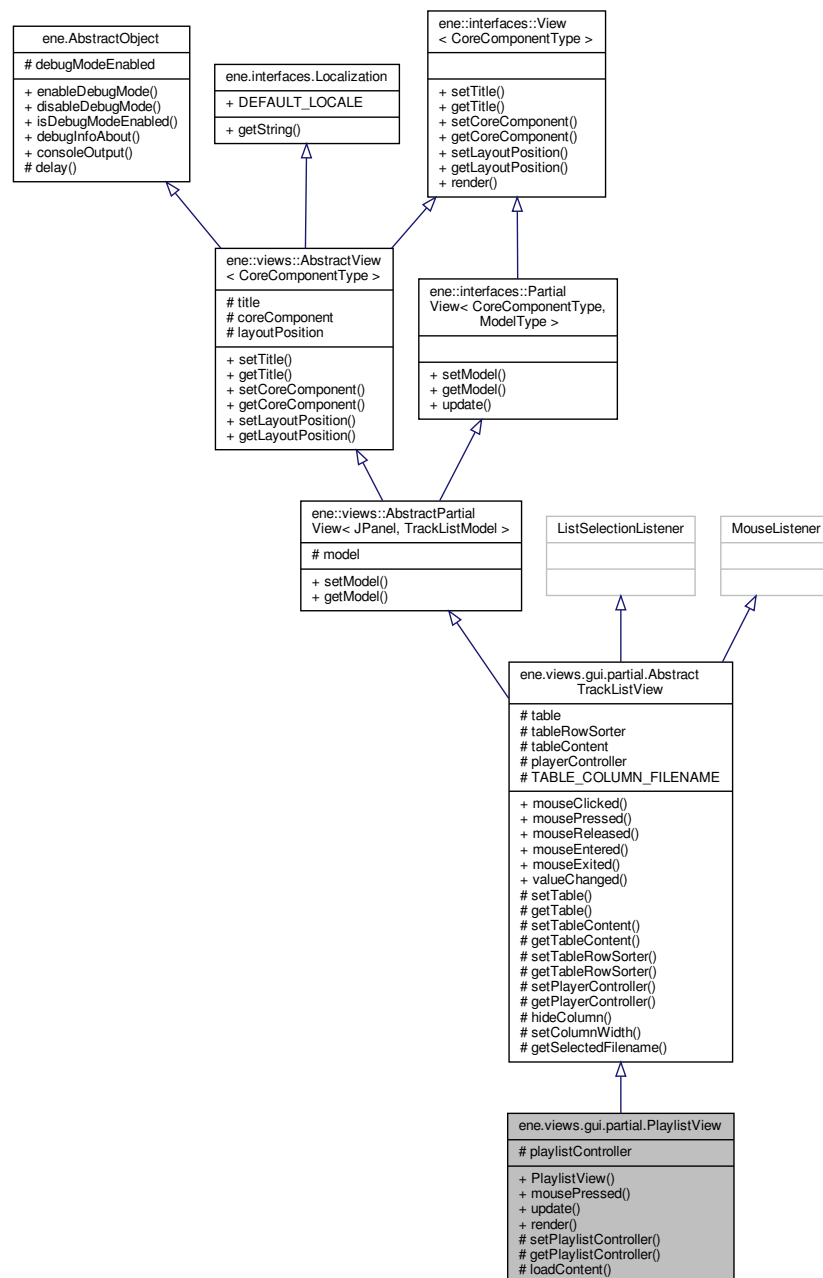
Referenced by `ene.models.PlaylistModel.getCurrentTrack()`.

The documentation for this class was generated from the following file:

- `src/ene/models/PlaylistModel.java`

## 7.26 ene.views.gui.partial.PlaylistView Class Reference

Inheritance diagram for ene.views.gui.partial.PlaylistView:





## Additional Inherited Members

### 7.26.1 Detailed Description

Playlist view.

#### Version

1.0.0

#### Since

1.0.0

Definition at line 32 of file `PlaylistView.java`.

### 7.26.2 Constructor & Destructor Documentation

#### 7.26.2.1 PlaylistView()

```
ene.views.gui.partial.PlaylistView.PlaylistView (
    Model model,
    Controller playlistController,
    Controller playerController )
```

Constructor.

#### Parameters

<i>model</i>	Playlist model instance.
<i>playlistController</i>	Playlist controller instance.
<i>playerController</i>	Player controller instance.

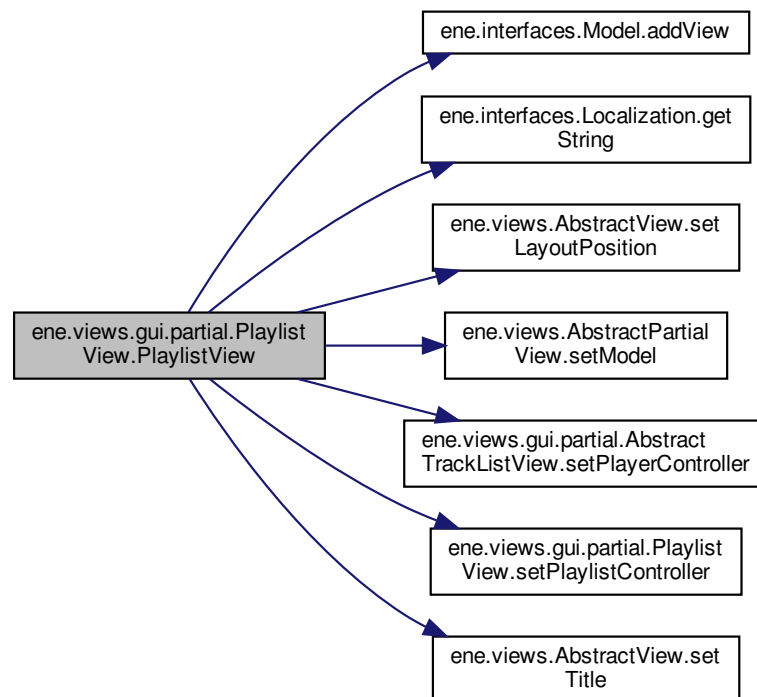
#### Version

1.1.0

Definition at line 61 of file `PlaylistView.java`.

References `ene.interfaces.Model.addView()`, `ene.interfaces.Localization.getString()`, `ene.views.AbstractView< CoreComponentType >.setLayoutPosition()`, `ene.views.AbstractPartialView< CoreComponentType, ModelType >.setModel()`, `ene.views.gui.partial.AbstractTrackListView.setPlayerController()`, `ene.views.gui.partial.PlaylistView.setPlaylistController()`, and `ene.views.AbstractView< CoreComponentType >.setTitle()`.

Here is the call graph for this function:



### 7.26.3 Member Function Documentation

#### 7.26.3.1 `getPlaylistController()`

```
PlaylistController ene.views.gui.partial.PlaylistView.getPlaylistController ( ) [protected]
```

Returns the playlist controller instance.

#### Returns

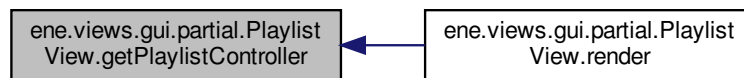
Playlist controller instance.

Definition at line 50 of file `PlaylistView.java`.

References `ene.views.gui.partial.PlaylistView.playlistController`.

Referenced by `ene.views.gui.partial.PlaylistView.render()`.

Here is the caller graph for this function:



### 7.26.3.2 loadContent()

```
void ene.views.gui.partial.PlaylistView.loadContent (
    Map< String, TrackModel > tracks ) [protected]
```

Loads the table content from the model.

#### Parameters

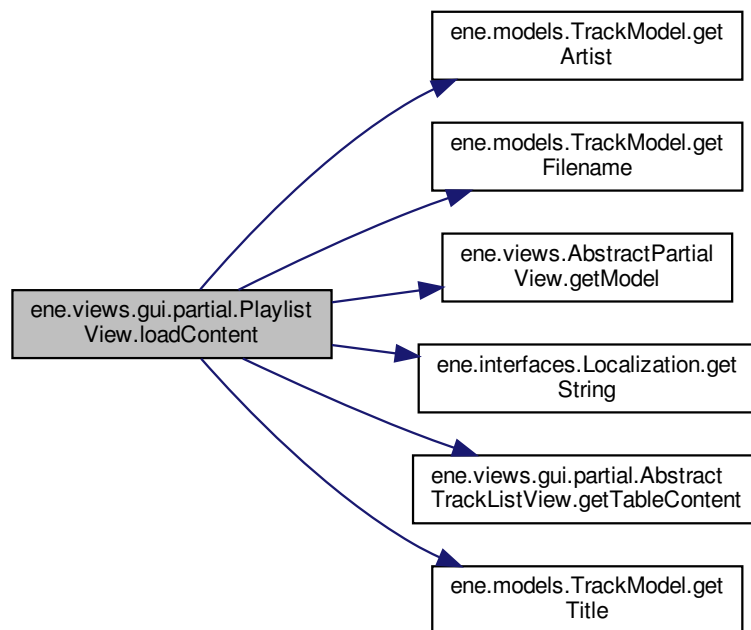
<i>tracks</i>	Map of Tracks.
---------------	----------------

Definition at line 74 of file `PlaylistView.java`.

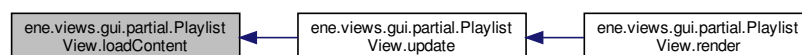
References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, `ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel()`, `ene.interfaces.Localization.getString()`, `ene.views.gui.partial.AbstractTrackListView.getTableContent()`, `ene.models.TrackModel.getTitle()`, and `ene.views.gui.partial.AbstractTrackListView.tableContent`.

Referenced by `ene.views.gui.partial.PlaylistView.update()`.

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.26.3.3 mousePressed()

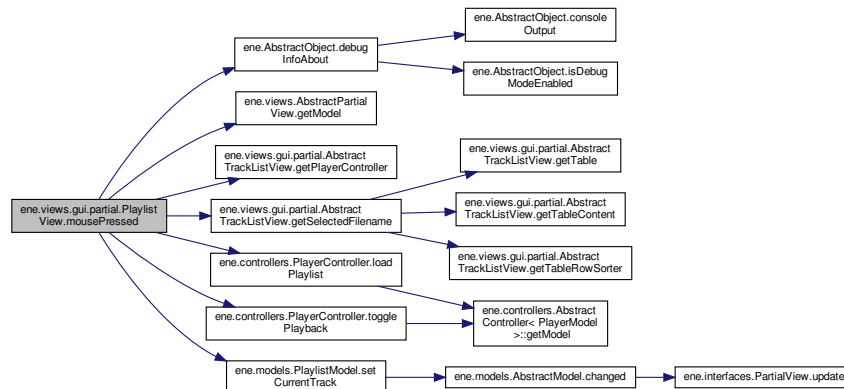
```
void ene.views.gui.partial.PlaylistView.mousePressed (
    MouseEvent event )
```

Definition at line 85 of file `PlaylistView.java`.

References `ene.AbstractObject.debugInfoAbout()`, `ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel()`, `ene.views.gui.partial.AbstractTrackListView.getPlayerController()`, `ene.views.gui.partial.AbstractTrackListView.getSelectedFilename()`, `ene.controllers.PlayerController.loadPlaylist()`, `ene.views.gui.partial.AbstractTrackListView.playerController`, `ene.models.PlaylistModel.setCurrentTrack()`, and `ene.controllers.PlayerController.togglePlayback()`.



Here is the call graph for this function:



#### 7.26.3.4 render()

```
void ene.views.gui.partial.PlaylistView.render ( )
```

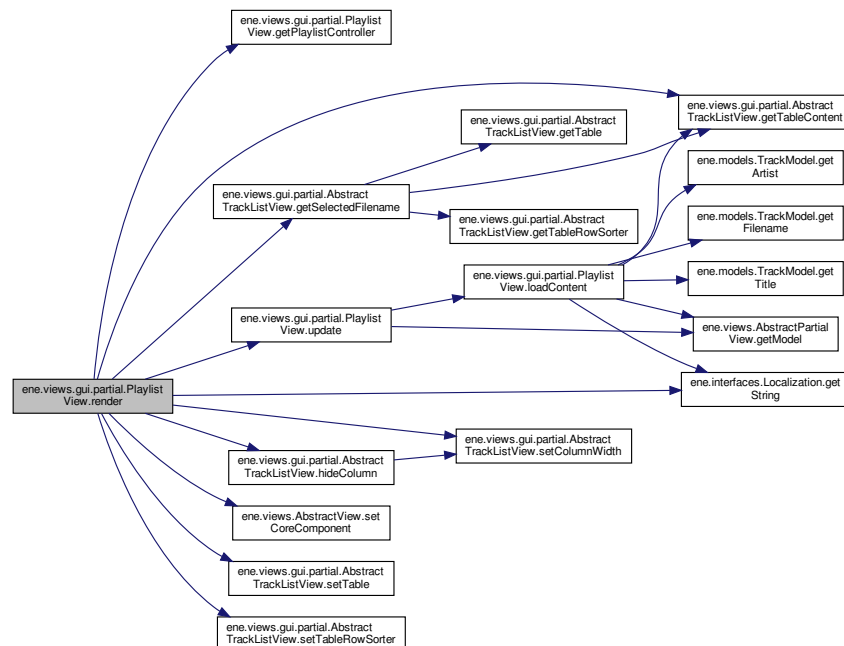
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 102 of file PlaylistView.java.

References [ene.views.gui.partial.PlaylistView.getPlayerController\(\)](#), [ene.views.gui.partial.AbstractTrackListView.getSelectedFilename\(\)](#), [ene.interfaces.Localization.getString\(\)](#), [ene.views.gui.partial.AbstractTrackListView.getTableContent\(\)](#), [ene.views.gui.partial.AbstractTrackListView.hideColumn\(\)](#), [ene.views.gui.partial.AbstractTrackListView.setColumnWidth\(\)](#), [ene.views.AbstractView< CoreComponentType >.setCoreComponent\(\)](#), [ene.views.gui.partial.AbstractTrackListView.setTable\(\)](#), [ene.views.gui.partial.AbstractTrackListView.setTableRowSorter\(\)](#), [ene.views.gui.partial.AbstractTrackListView.table](#), [ene.views.gui.partial.AbstractTrackListView.TABLE\\_COLUMN\\_FILENAME](#), [ene.views.gui.partial.AbstractTrackListView.tableContent](#), [ene.views.gui.partial.AbstractTrackListView.tableRowSorter](#), and [ene.views.gui.partial.PlaylistView.update\(\)](#).

Here is the call graph for this function:



### 7.26.3.5 setPlaylistController()

```
void ene.views.gui.partial.PlaylistView.setPlaylistController (
    Controller playlistController ) [protected]
```

Sets the playlist controller instance.

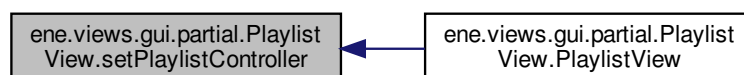
#### Parameters

<i>playlistController</i>	Playlist controller instance.
---------------------------	-------------------------------

Definition at line 42 of file PlaylistView.java.

Referenced by ene.views.gui.partial.PlaylistView.PlaylistView().

Here is the caller graph for this function:



## 7.26.3.6 update()

```
void ene.views.gui.partial.PlaylistView.update ( )
```

Request update.

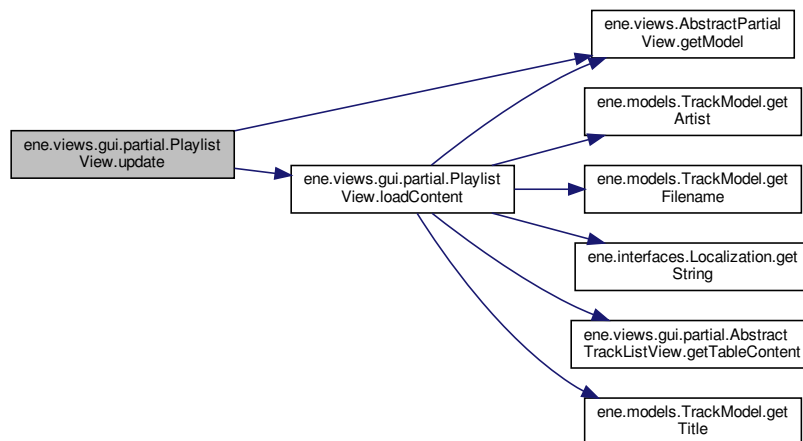
Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 97 of file PlaylistView.java.

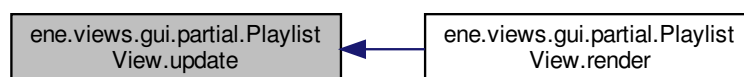
References [ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel\(\)](#), and [ene.views.gui.partial.PlaylistView.loadContent\(\)](#).

Referenced by [ene.views.gui.partial.PlaylistView.render\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



## 7.26.4 Member Data Documentation

#### 7.26.4.1 playlistController

`PlaylistController` ene.views.gui.partial.PlaylistView.playlistController [protected]

Playlist controller instance.

Definition at line 36 of file PlaylistView.java.

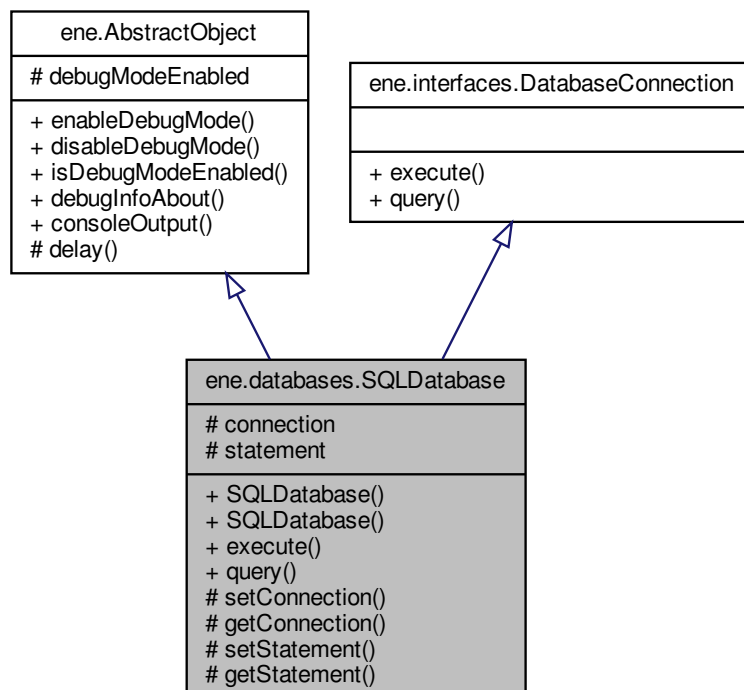
Referenced by ene.views.gui.partial.PlaylistView.getPlaylistController().

The documentation for this class was generated from the following file:

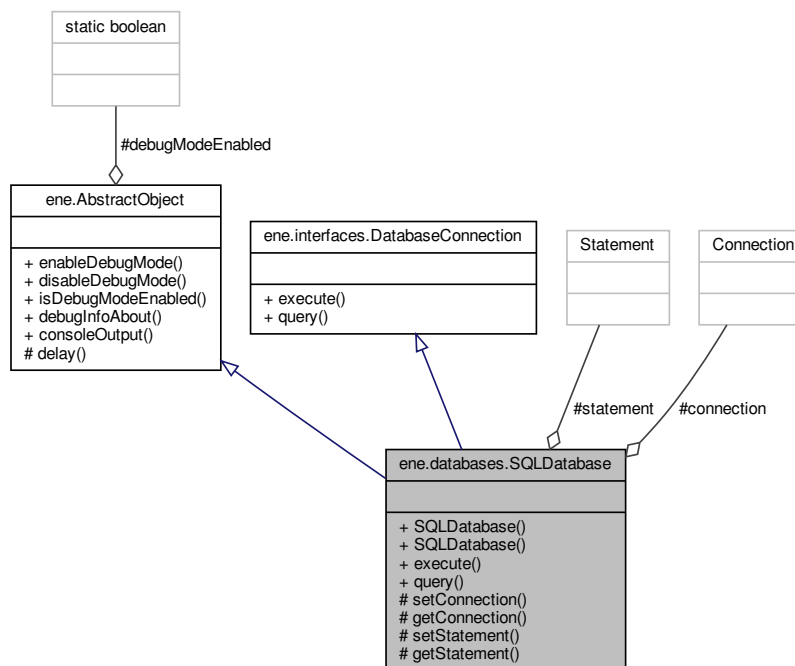
- src/ene/views/gui/partial/[PlaylistView.java](#)

### 7.27 ene.databases.SQLDatabase Class Reference

Inheritance diagram for ene.databases.SQLDatabase:



Collaboration diagram for ene.databases.SQLDatabase:



#### Public Member Functions

- [SQLDatabase](#) (String url, int statementTimeout) throws Exception
- [SQLDatabase](#) (String url, int statementTimeout, Properties properties) throws Exception
- int [execute](#) (String [statement](#)) throws Exception
- List< Map< String, String > > [query](#) (String [statement](#)) throws Exception

#### Protected Member Functions

- void [setConnection](#) (Connection [connection](#))
- Connection [getConnection](#) ()
- void [setStatement](#) (Statement [statement](#))
- Statement [getStatement](#) ()

#### Protected Attributes

- Connection [connection](#) = null
- Statement [statement](#) = null

#### Additional Inherited Members

##### 7.27.1 Detailed Description

JDBC SQL database.

#### Version

1.1.0

Definition at line 20 of file SQLDatabase.java.

## 7.27.2 Constructor & Destructor Documentation

### 7.27.2.1 SQLiteDatabase() [1/2]

```
ene.databases.SQLiteDatabase.SQLiteDatabase (
    String url,
    int statementTimeout ) throws Exception
```

Constructor.

Parameters

<i>url</i>	A database url of the form jdbc:subprotocol:subname.
<i>statementTimeout</i>	Statement timeout in seconds.

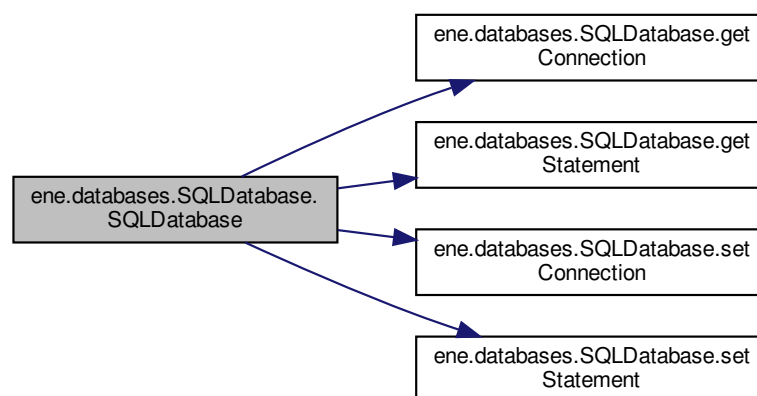
Version

1.0.0

Definition at line 69 of file SQLiteDatabase.java.

References `ene.databases.SQLiteDatabase.getConnection()`, `ene.databases.SQLiteDatabase.getStatement()`, `ene.databases.SQLiteDatabase.setConnection()`, and `ene.databases.SQLiteDatabase.setStatement()`.

Here is the call graph for this function:



### 7.27.2.2 SQLiteDatabase() [2/2]

```
ene.databases.SQLiteDatabase.SQLiteDatabase (
    String url,
    int statementTimeout,
    Properties properties ) throws Exception
```

Constructor.

## Parameters

<i>url</i>	A database url of the form jdbc:subprotocol:subname.
<i>statementTimeout</i>	Statement timeout in seconds.
<i>properties</i>	Properties instance.

## Since

0.16.0

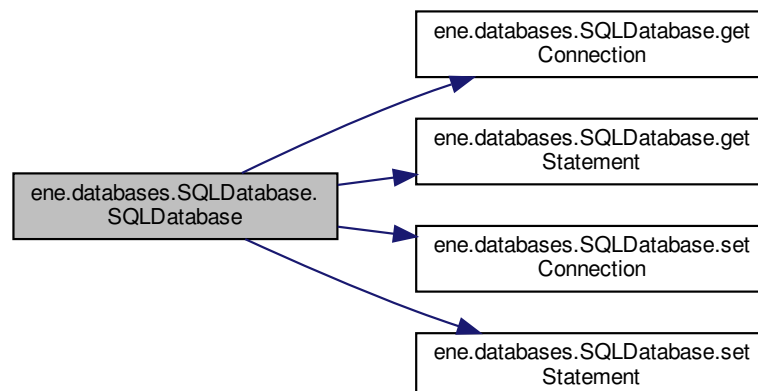
## Version

1.0.0

Definition at line 83 of file SQLDatabase.java.

References `ene.databases.SQLDatabase.getConnection()`, `ene.databases.SQLDatabase.getStatement()`, `ene.databases.SQLDatabase.setConnection()`, and `ene.databases.SQLDatabase.setStatement()`.

Here is the call graph for this function:



### 7.27.3 Member Function Documentation

#### 7.27.3.1 execute()

```
int ene.databases.SQLDatabase.execute (
    String statement ) throws Exception
```

Executes statement.

**Parameters**

<i>statement</i>	Statement.
------------------	------------

**Returns**

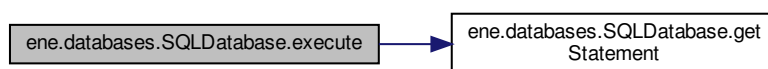
Number of affected rows.

Implements [ene.interfaces.DatabaseConnection](#).

Definition at line 90 of file SQLiteDatabase.java.

References `ene.databases.SQLiteDatabase.createStatement()`.

Here is the call graph for this function:

**7.27.3.2 getConnection()**

```
Connection ene.databases.SQLiteDatabase.getConnection ( ) [protected]
```

Returns the connection instance.

**Returns**

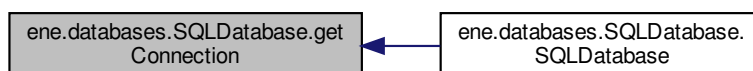
Connection instance.

Definition at line 43 of file SQLiteDatabase.java.

References `ene.databases.SQLiteDatabase.connection`.

Referenced by `ene.databases.SQLiteDatabase.SQLiteDatabase()`.

Here is the caller graph for this function:





7.27.3.3 `getStatement()`

```
Statement ene.databases.SQLDatabase.getStatement ( ) [protected]
```

Returns the statement instance.

**Returns**

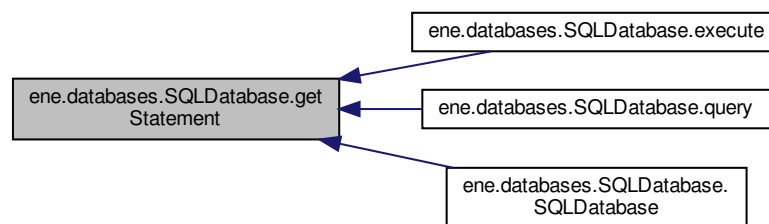
Statement instance.

Definition at line 59 of file `SQLDatabase.java`.

References `ene.databases.SQLDatabase.statement`.

Referenced by `ene.databases.SQLDatabase.execute()`, `ene.databases.SQLDatabase.query()`, and `ene.databases.SQLDatabase.SQLDatabase()`.

Here is the caller graph for this function:

7.27.3.4 `query()`

```
List<Map<String,String> > ene.databases.SQLDatabase.query (
    String statement ) throws Exception
```

Query statement.

**Parameters**

<i>statement</i>	Statement.
------------------	------------

**Returns**

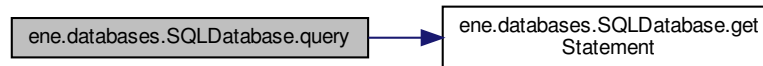
Returns a list of maps of rows.

Implements [ene.interfaces.DatabaseConnection](#).

Definition at line 95 of file `SQLDatabase.java`.

References ene.databases.SQLDatabase.createStatement().

Here is the call graph for this function:



### 7.27.3.5 setConnection()

```
void ene.databases.SQLDatabase.setConnection (
    Connection connection ) [protected]
```

Sets the connection instance.

#### Parameters

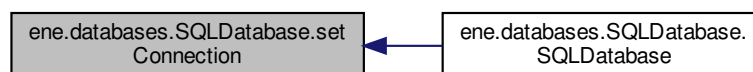
<i>connection</i>	Connection instance.
-------------------	----------------------

Definition at line 35 of file SQLDatabase.java.

References ene.databases.SQLDatabase.connection.

Referenced by ene.databases.SQLDatabase.SQLDatabase().

Here is the caller graph for this function:



### 7.27.3.6 setStatement()

```
void ene.databases.SQLDatabase.setStatement (
    Statement statement ) [protected]
```

Sets the statement instance.

## Parameters

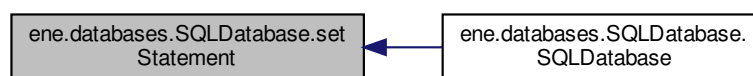
<i>statement</i>	Statement instance.
------------------	---------------------

Definition at line 51 of file SQLDatabase.java.

References ene.databases.SQLDatabase.statement.

Referenced by ene.databases.SQLDatabase.SQLDatabase().

Here is the caller graph for this function:



#### 7.27.4 Member Data Documentation

##### 7.27.4.1 connection

```
Connection ene.databases.SQLDatabase.connection = null [protected]
```

Connection instance.

Definition at line 24 of file SQLDatabase.java.

Referenced by ene.databases.SQLDatabase.getConnection(), and ene.databases.SQLDatabase.setConnection().

##### 7.27.4.2 statement

```
Statement ene.databases.SQLDatabase.statement = null [protected]
```

Statement instance.

Definition at line 29 of file SQLDatabase.java.

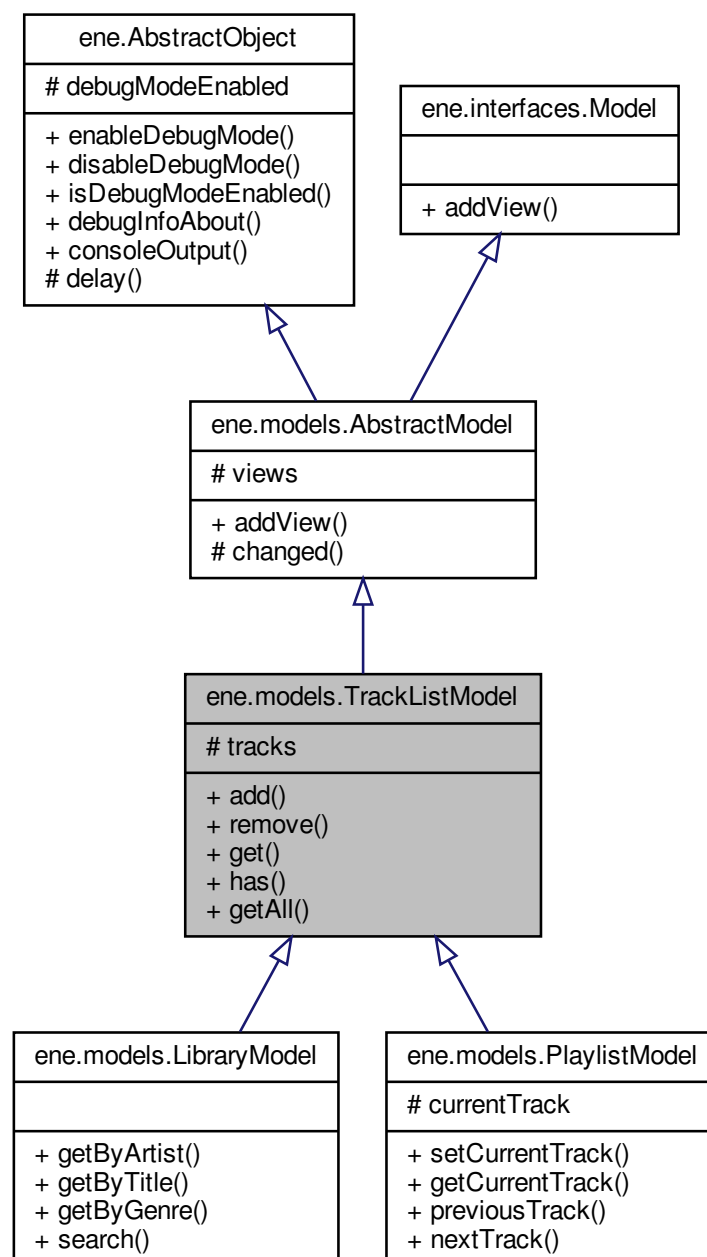
Referenced by ene.databases.SQLDatabase.getStatement(), and ene.databases.SQLDatabase.setStatement().

The documentation for this class was generated from the following file:

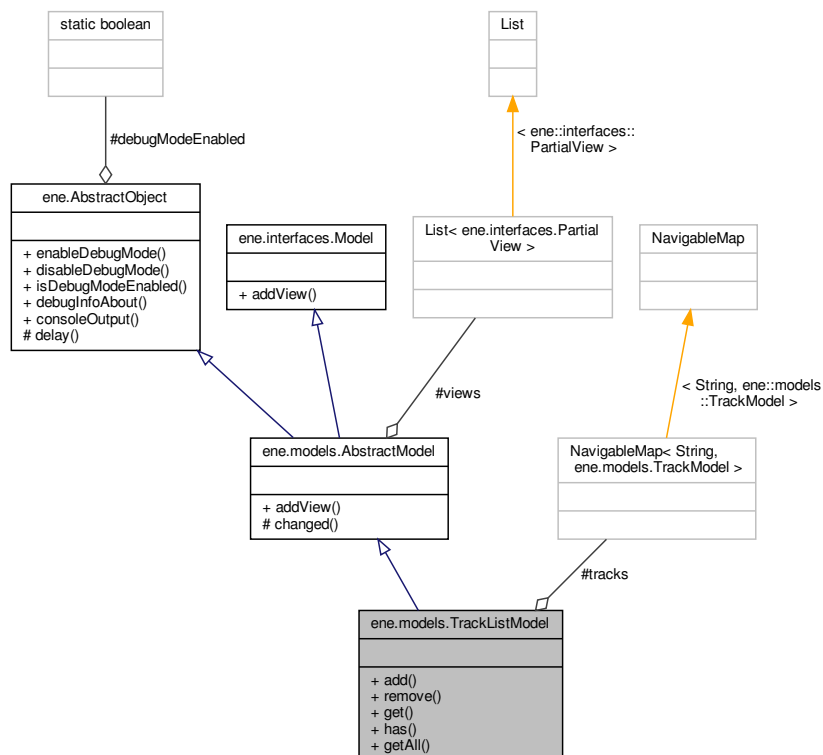
- src/ene/databases/[SQLDatabase.java](#)

## 7.28 ene.models.TrackListModel Class Reference

Inheritance diagram for ene.models.TrackListModel:



Collaboration diagram for ene.models.TrackListModel:



### Public Member Functions

- void [add](#) ([TrackModel](#) track)
- boolean [remove](#) (String filename)
- [TrackModel](#) [get](#) (String filename)
- boolean [has](#) (String filename)
- NavigableMap< String, [TrackModel](#) > [getAll](#) ()

### Protected Attributes

- NavigableMap< String, [TrackModel](#) > [tracks](#) = new TreeMap<>()

### Additional Inherited Members

#### 7.28.1 Detailed Description

Track list model.

Since

0.11.0

Version

2.0.0

Definition at line 12 of file TrackListModel.java.

## 7.28.2 Member Function Documentation

### 7.28.2.1 add()

```
void ene.models.TrackListModel.add (
    TrackModel track )
```

Adds a track.

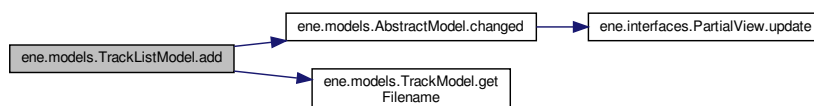
#### Parameters

<i>track</i>	Track model instance.
--------------	-----------------------

Definition at line 22 of file TrackListModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.getFilename().

Here is the call graph for this function:



### 7.28.2.2 get()

```
TrackModel ene.models.TrackListModel.get (
    String filename )
```

Returns track.

#### Parameters

<i>filename</i>	File path.
-----------------	------------

#### Returns

Track.

Definition at line 46 of file TrackListModel.java.

## 7.28.2.3 getAll()

```
NavigableMap<String, TrackModel> ene.models.TrackListModel.getAll ( )
```

Returns all tracks.

## Returns

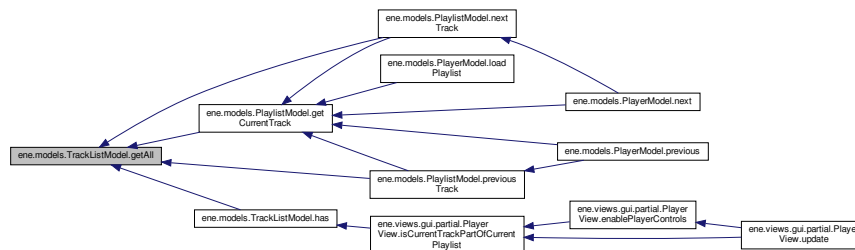
Tracks.

Definition at line 65 of file TrackListModel.java.

References ene.models.TrackListModel.tracks.

Referenced by ene.models.PlaylistModel.getCurrentTrack(), ene.models.TrackListModel.has(), ene.models.PlaylistModel.nextTrack(), and ene.models.PlaylistModel.previousTrack().

Here is the caller graph for this function:



## 7.28.2.4 has()

```
boolean ene.models.TrackListModel.has (
    String filename )
```

Checks if a track exists.

## Parameters

<i>filename</i>	File path.
-----------------	------------

## Returns

Returns TRUE, if exists. Otherwise FALSE.

## Since

1.0.0

**Version**

1.0.0

Definition at line 57 of file TrackListModel.java.

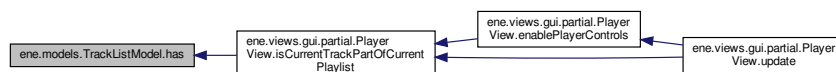
References ene.models.TrackListModel.getAll().

Referenced by ene.views.gui.partial.PlayerView.isCurrentTrackPartOfCurrentPlaylist().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.28.2.5 remove()**

```
boolean ene.models.TrackListModel.remove (
    String filename )
```

Removes a track.

**Parameters**

<i>filename</i>	File path.
-----------------	------------

**Returns**

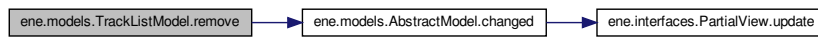
Returns TRUE, if successful. Otherwise FALSE.

Definition at line 32 of file TrackListModel.java.

References ene.models.AbstractModel.changed().



Here is the call graph for this function:



### 7.28.3 Member Data Documentation

#### 7.28.3.1 tracks

```
NavigableMap<String, TrackModel> ene.models.TrackListModel.tracks = new TreeMap<>() [protected]
```

All tracks.

Definition at line 16 of file `TrackListModel.java`.

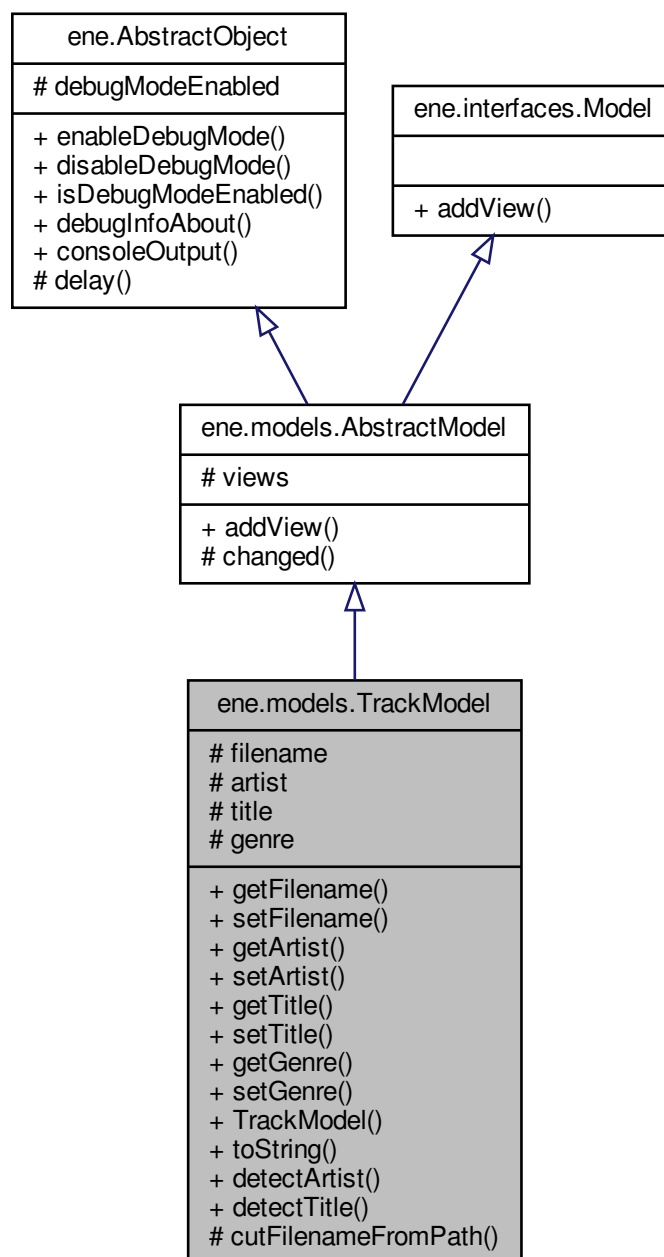
Referenced by `ene.models.TrackListModel.getAll()`, `ene.models.LibraryModel.getByArtist()`, `ene.models.LibraryModel.getByGenre()`, `ene.models.LibraryModel.getByTitle()`, and `ene.models.LibraryModel.search()`.

The documentation for this class was generated from the following file:

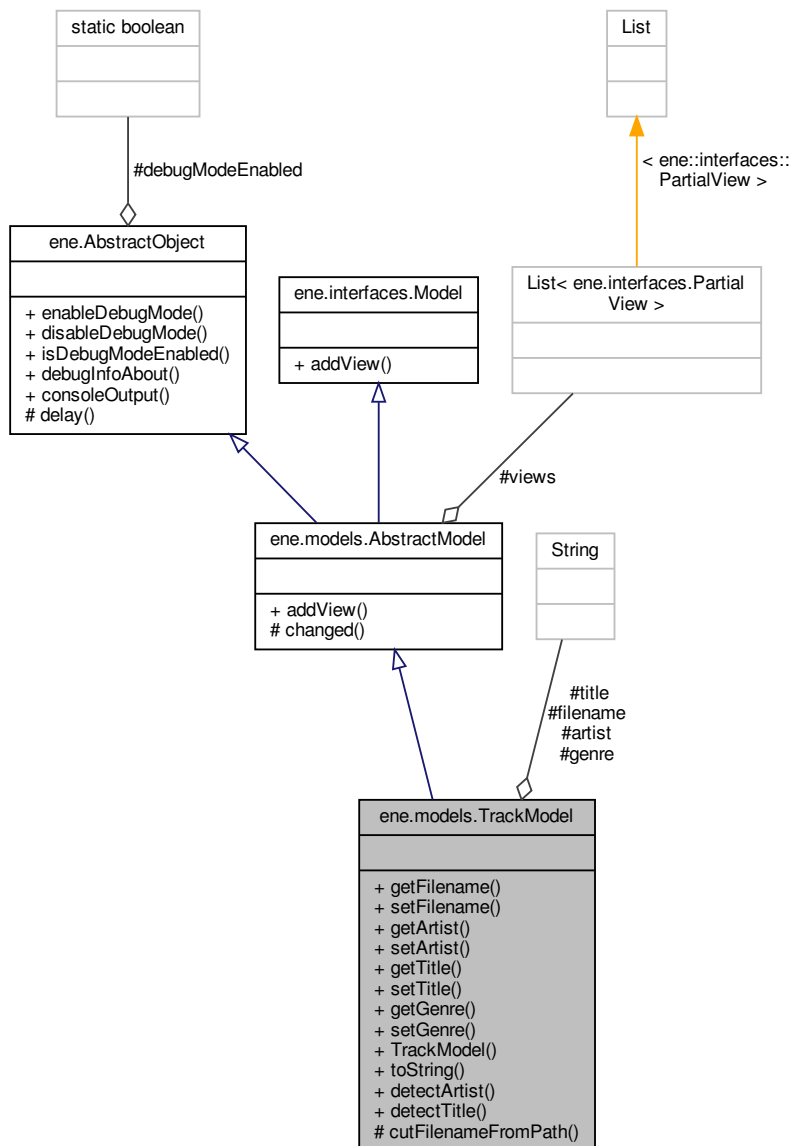
- `src/ene/models/TrackListModel.java`

## 7.29 ene.models.TrackModel Class Reference

Inheritance diagram for ene.models.TrackModel:



Collaboration diagram for ene.models.TrackModel:



#### Public Member Functions

- String [getFilename](#) ()
- void [setFilename](#) (String [filename](#))
- String [getArtist](#) ()
- void [setArtist](#) (String [artist](#))
- String [getTitle](#) ()
- void [setTitle](#) (String [title](#))
- String [getGenre](#) ()
- void [setGenre](#) (String [genre](#))
- [TrackModel](#) (String [filename](#), String [artist](#), String [title](#), String [genre](#))
- String [toString](#) ()

### Static Public Member Functions

- static String [detectArtist](#) (String [filename](#))
- static String [detectTitle](#) (String [filename](#))

### Static Protected Member Functions

- static String [cutFilenameFromPath](#) (String [path](#))

### Protected Attributes

- String [filename](#)
- String [artist](#)
- String [title](#)
- String [genre](#)

### Additional Inherited Members

#### 7.29.1 Detailed Description

Track model.

#### Version

2.1.1

Definition at line 9 of file `TrackModel.java`.

#### 7.29.2 Constructor & Destructor Documentation

##### 7.29.2.1 `TrackModel()`

```
ene.models.TrackModel.TrackModel (
    String filename,
    String artist,
    String title,
    String genre )
```

Constructor.

#### Parameters

<i>filename</i>	Filename.
<i>artist</i>	Artist.
<i>title</i>	Title.
<i>genre</i>	Genre.

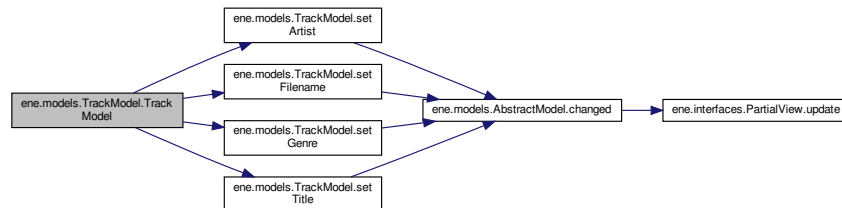
Since

0.10.0

Definition at line 106 of file TrackModel.java.

References ene.models.TrackModel.setArtist(), ene.models.TrackModel.setFilename(), ene.models.TrackModel.setGenre(), and ene.models.TrackModel.setTitle().

Here is the call graph for this function:



### 7.29.3 Member Function Documentation

#### 7.29.3.1 cutFilenameFromPath()

```
static String ene.models.TrackModel.cutFilenameFromPath (
    String path ) [static], [protected]
```

Cuts the filename from a given path.

**Parameters**

<i>path</i>	File path.
-------------	------------

**Returns**

Returns the filename without it's path.

Since

1.0.0

**Version**

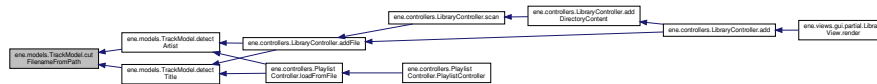
1.0.0

Definition at line 175 of file TrackModel.java.

References ene.models.TrackModel.filename.

Referenced by ene.models.TrackModel.detectArtist(), and ene.models.TrackModel.detectTitle().

Here is the caller graph for this function:



### 7.29.3.2 detectArtist()

```
static String ene.models.TrackModel.detectArtist (
    String filename ) [static]
```

Detects the artist by the filename.

#### Parameters

<i>filename</i>	The filename.
-----------------	---------------

#### Returns

Returns the artist or a empty string.

#### Since

0.10.1

#### Version

2.0.0

Definition at line 133 of file TrackModel.java.

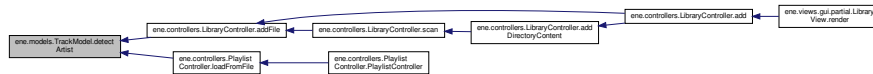
References ene.models.TrackModel.cutFilenameFromPath().

Referenced by ene.controllers.LibraryController.addFile(), and ene.controllers.PlaylistController.loadFromFile().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.29.3.3 detectTitle()

```
static String ene.models.TrackModel.detectTitle (
    String filename ) [static]
```

Detects the title by the filename.

#### Parameters

<i>filename</i>	The filename.
-----------------	---------------

#### Returns

Returns the title or a empty string.

#### Since

0.10.1

#### Version

2.0.0

Definition at line 150 of file TrackModel.java.

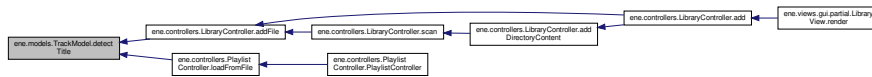
References ene.models.TrackModel.cutFilenameFromPath(), and ene.models.TrackModel.filename.

Referenced by ene.controllers.LibraryController.addFile(), and ene.controllers.PlaylistController.loadFromFile().

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.29.3.4 getArtist()

```
String ene.models.TrackModel.getArtist ( )
```

Get the artist.

#### Returns

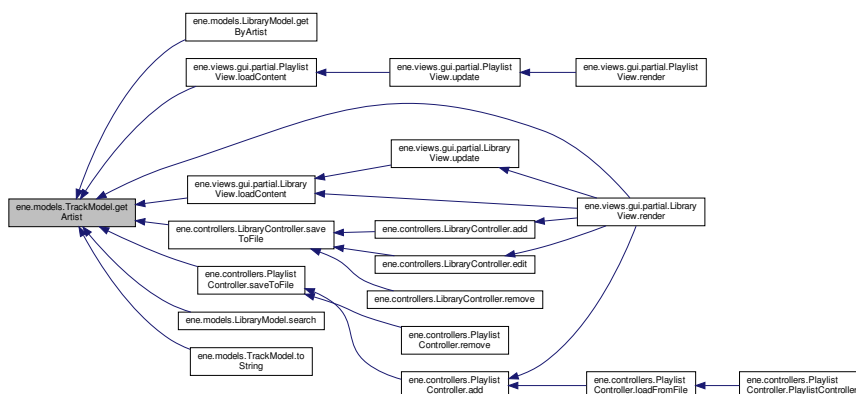
Artist.

Definition at line 51 of file TrackModel.java.

References ene.models.TrackModel.artist.

Referenced by ene.models.LibraryModel.getByArtist(), ene.views.gui.partial.PlaylistView.loadContent(), ene.views.gui.partial.LibraryView.loadContent(), ene.views.gui.partial.LibraryView.render(), ene.controllers.PlaylistController.saveToFile(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:





## 7.29.3.5 getFilename()

```
String ene.models.TrackModel.getFilename ( )
```

Get the filename.

## Returns

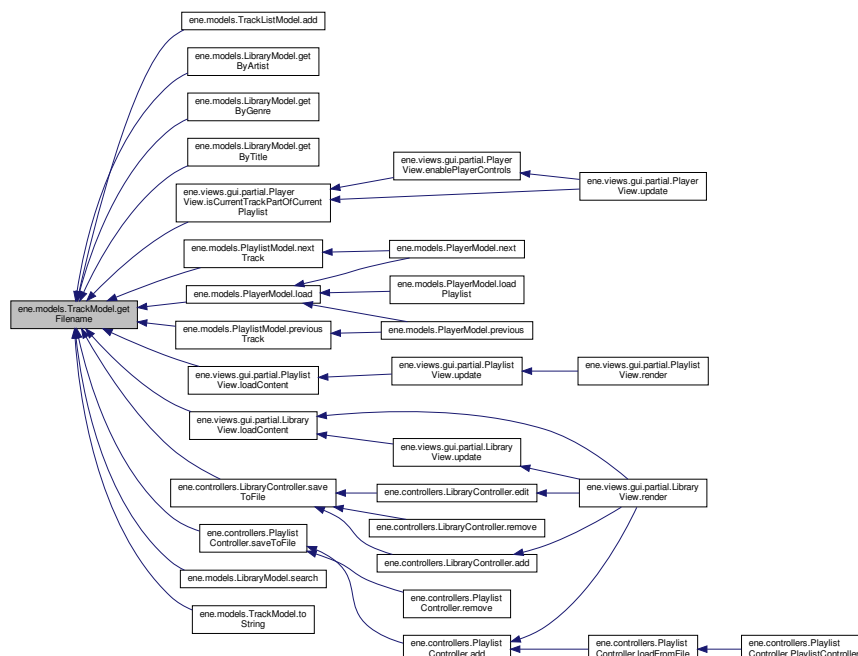
Filename.

Definition at line 34 of file TrackModel.java.

References ene.models.TrackModel.filename.

Referenced by ene.models.TrackListModel.add(), ene.models.LibraryModel.getByArtist(), ene.models.LibraryModel.getByGenre(), ene.models.LibraryModel.getByTitle(), ene.views.gui.partial.PlayerView.isCurrentTrackPartOfCurrentPlaylist(), ene.models.PlayerModel.load(), ene.views.gui.partial.PlaylistView.loadContent(), ene.views.gui.partial.LibraryView.loadContent(), ene.models.PlaylistModel.nextTrack(), ene.models.PlaylistModel.previousTrack(), ene.controllers.PlaylistController.saveToFile(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:



### 7.29.3.6 getGenre()

```
String ene.models.TrackModel.getGenre ( )
```

Get the genre.

#### Returns

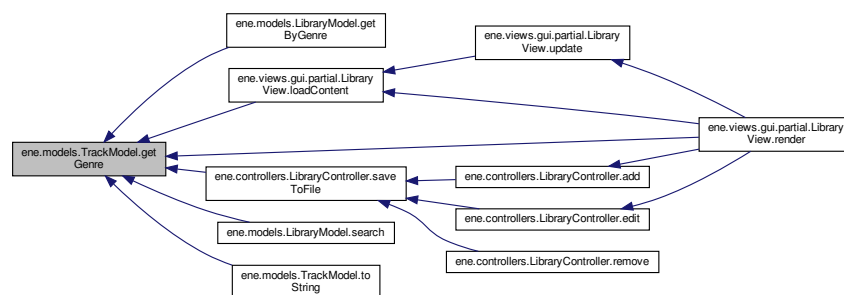
Genre.

Definition at line 85 of file TrackModel.java.

References ene.models.TrackModel.genre.

Referenced by ene.models.LibraryModel.getByGenre(), ene.views.gui.partial.LibraryView.loadContent(), ene.views.gui.partial.LibraryView.render(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:



### 7.29.3.7 getTitle()

```
String ene.models.TrackModel.getTitle ( )
```

Get the title.

#### Returns

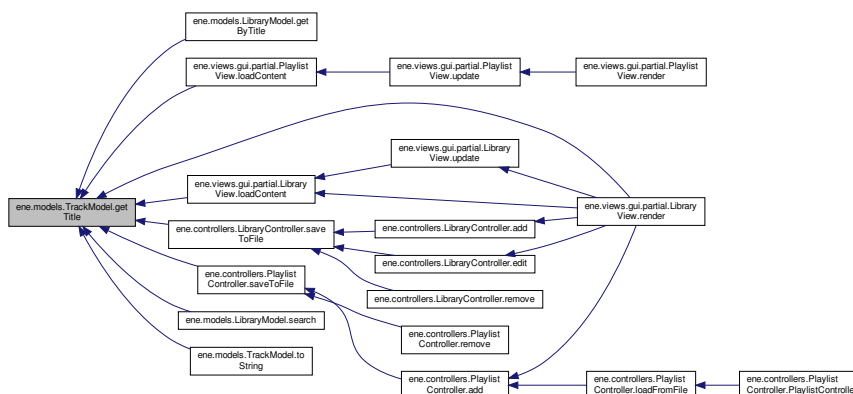
Title.

Definition at line 68 of file TrackModel.java.

References ene.models.TrackModel.title.

Referenced by ene.models.LibraryModel.getByTitle(), ene.views.gui.partial.PlaylistView.loadContent(), ene.views.gui.partial.LibraryView.loadContent(), ene.views.gui.partial.LibraryView.render(), ene.controllers.PlaylistController.saveToFile(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:



### 7.29.3.8 setArtist()

```
void ene.models.TrackModel.setArtist (
    String artist )
```

Set the artist.

#### Parameters

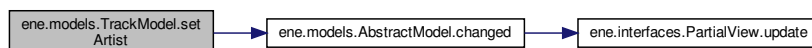
<i>artist</i>	Artist.
---------------	---------

Definition at line 59 of file TrackModel.java.

References ene.models.TrackModel.artist, and ene.models.AbstractModel.changed().

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.29.3.9 setFilename()

```
void ene.models.TrackModel.setFilename (
    String filename )
```

Set the filename.

#### Parameters

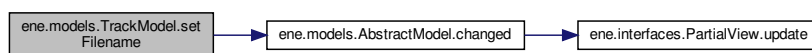
<i>filename</i>	Filename.
-----------------	-----------

Definition at line 42 of file TrackModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.filename.

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.29.3.10 setGenre()

```
void ene.models.TrackModel.setGenre (
    String genre )
```

Set the genre

#### Parameters

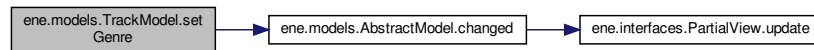
<i>genre</i>	Genre.
--------------	--------

Definition at line 93 of file TrackModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.genre.

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



### 7.29.3.11 setTitle()

```
void ene.models.TrackModel.setTitle (
    String title )
```

Set the title.

#### Parameters

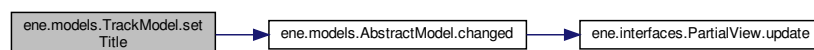
<i>title</i>	Title.
--------------	--------

Definition at line 76 of file TrackModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.title.

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.29.3.12 toString()

```
String ene.models.TrackModel.toString ( )
```

Returns a string representation of the object.

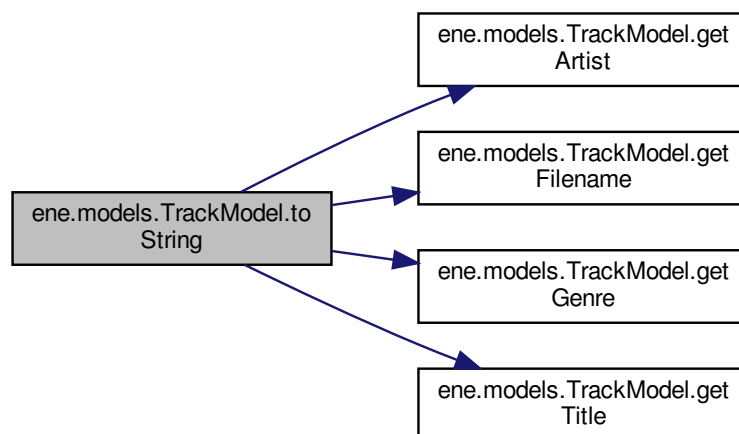
##### Returns

String representation of the object.

Definition at line 117 of file `TrackModel.java`.

References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, and `ene.models.TrackModel.getTitle()`.

Here is the call graph for this function:



#### 7.29.4 Member Data Documentation

#### 7.29.4.1 artist

```
String ene.models.TrackModel.artist [protected]
```

Artist.

Definition at line 18 of file TrackModel.java.

Referenced by ene.models.TrackModel.getArtist(), and ene.models.TrackModel.setArtist().

#### 7.29.4.2 filename

```
String ene.models.TrackModel.filename [protected]
```

Filename.

Definition at line 13 of file TrackModel.java.

Referenced by ene.models.TrackModel.cutFilenameFromPath(), ene.models.TrackModel.detectTitle(), ene.↵models.TrackModel.getFilename(), and ene.models.TrackModel.setFilename().

#### 7.29.4.3 genre

```
String ene.models.TrackModel.genre [protected]
```

Genre.

Definition at line 28 of file TrackModel.java.

Referenced by ene.models.TrackModel.getGenre(), and ene.models.TrackModel.setGenre().

#### 7.29.4.4 title

```
String ene.models.TrackModel.title [protected]
```

Title.

Definition at line 23 of file TrackModel.java.

Referenced by ene.models.TrackModel.getTitle(), and ene.models.TrackModel.setTitle().

The documentation for this class was generated from the following file:

- src/ene/models/[TrackModel.java](#)





### 7.30.1 Detailed Description

[View](#).

Version

2.1.0

Definition at line 7 of file View.java.

### 7.30.2 Member Function Documentation

#### 7.30.2.1 `getCoreComponent()`

CoreComponentType [ene.interfaces.View](#)< CoreComponentType >.getCoreComponent ( )

Returns the core component instance.

Returns

Core component instance.

Implemented in [ene.views.AbstractView](#)< CoreComponentType >.

#### 7.30.2.2 `getLayoutPosition()`

String [ene.interfaces.View](#)< CoreComponentType >.getLayoutPosition ( )

Returns the layout position.

Returns

Layout position.

Implemented in [ene.views.AbstractView](#)< CoreComponentType >.

#### 7.30.2.3 `getTitle()`

String [ene.interfaces.View](#)< CoreComponentType >.getTitle ( )

Returns the title.

Returns

Title.

Since

0.13.0

Implemented in [ene.views.AbstractView](#)< CoreComponentType >, and [ene.views.gui.WindowView](#).

#### 7.30.2.4 render()

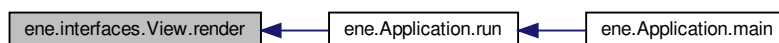
```
void ene.interfaces.View< CoreComponentType >.render ( )
```

Renders the view.

Implemented in [ene.views.gui.partial.PlayerView](#), [ene.views.gui.partial.LibraryView](#), [ene.views.gui.partial.PlaylistView](#), [ene.views.gui.WindowView](#), and [ene.views.gui.partial.ContentView](#).

Referenced by `ene.Application.run()`.

Here is the caller graph for this function:



#### 7.30.2.5 setCoreComponent()

```
void ene.interfaces.View< CoreComponentType >.setCoreComponent (
    CoreComponentType coreComponent )
```

Sets the core component instance.

##### Parameters

<i>coreComponent</i>	Core component instance.
----------------------	--------------------------

Implemented in [ene.views.AbstractView< CoreComponentType >](#).

#### 7.30.2.6 setLayoutPosition()

```
void ene.interfaces.View< CoreComponentType >.setLayoutPosition (
    String layoutPosition )
```

Sets the layout position.

##### Parameters

<i>layoutPosition</i>	Layout position.
-----------------------	------------------

Implemented in [ene.views.AbstractView< CoreComponentType >](#).

## 7.30.2.7 setTitle()

```
void ene.interfaces.View< CoreComponentType >.setTitle (
    String title )
```

Sets the title.

## Parameters

<i>title</i>	Title.
--------------	--------

## Since

0.13.0

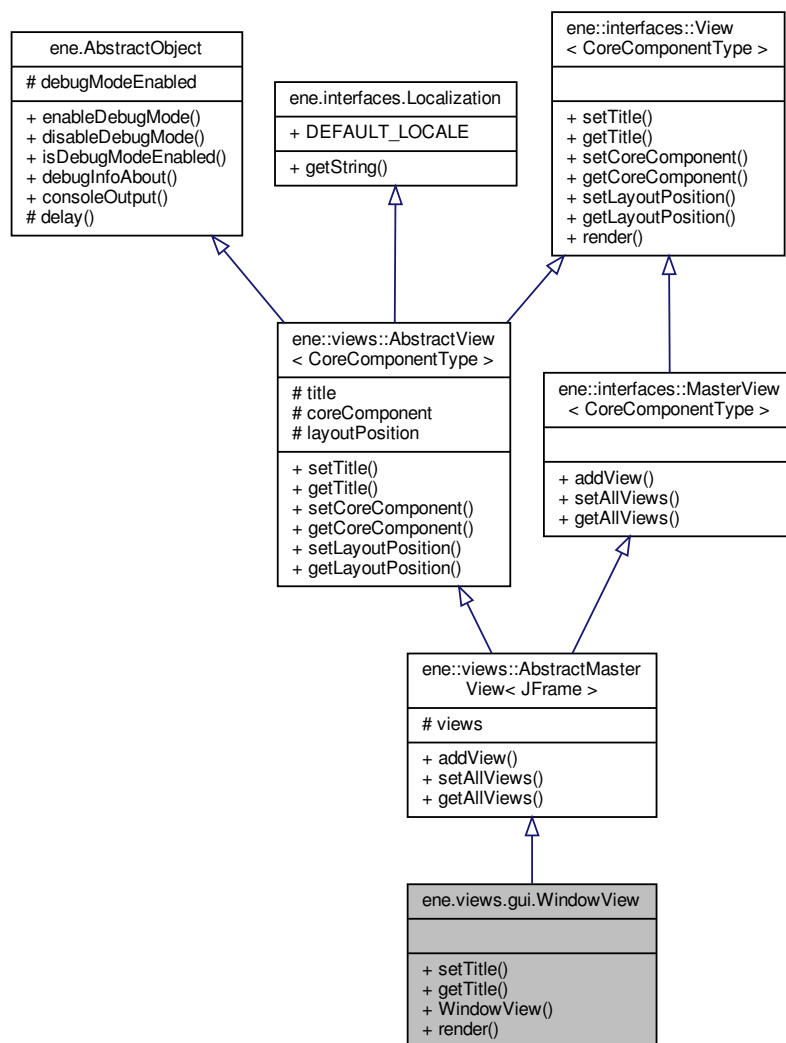
Implemented in [ene.views.AbstractView< CoreComponentType >](#), and [ene.views.gui.WindowView](#).

The documentation for this interface was generated from the following file:

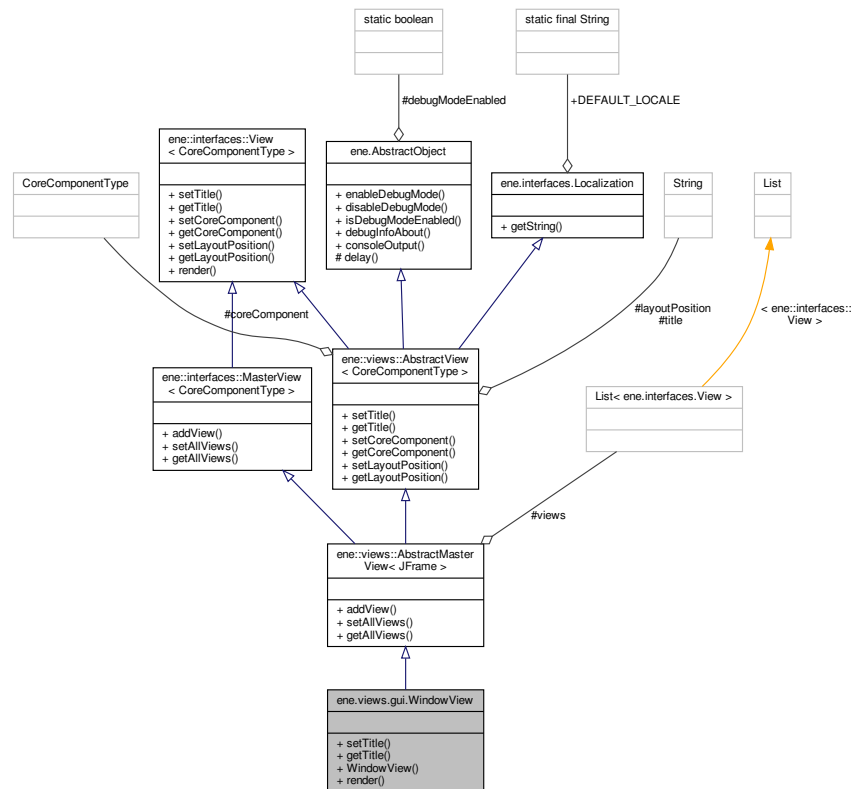
- [src/ene/interfaces/View.java](#)

## 7.31 ene.views.gui.WindowView Class Reference

Inheritance diagram for ene.views.gui.WindowView:



Collaboration diagram for ene.views.gui.WindowView:



## Public Member Functions

- void setTitle (String title)
- String getTitle ()
- WindowView (View ... views)
- void render ()

### Additional Inherited Members

### 7.31.1 Detailed Description

Window view.

## Version

### 1.3.0

Definition at line 20 of file WindowView.java.

### 7.31.2 Constructor & Destructor Documentation

### 7.31.2.1 WindowView()

```
ene.views.gui.WindowView.WindowView (
    View ... views )
```

Constructor.

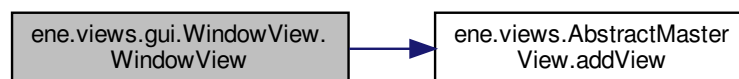
Parameters

<i>views</i>	View instances.
--------------	-----------------

Definition at line 35 of file WindowView.java.

References `ene.views.AbstractMasterView< CoreComponentType >.addView()`.

Here is the call graph for this function:



## 7.31.3 Member Function Documentation

### 7.31.3.1 getTitle()

```
String ene.views.gui.WindowView.getTitle ( )
```

Returns the title.

Returns

Title.

Since

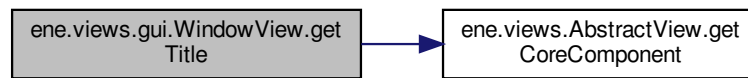
0.13.0

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 27 of file WindowView.java.

References `ene.views.AbstractView< CoreComponentType >.getCoreComponent()`.

Here is the call graph for this function:



### 7.31.3.2 render()

```
void ene.views.gui.WindowView.render ( )
```

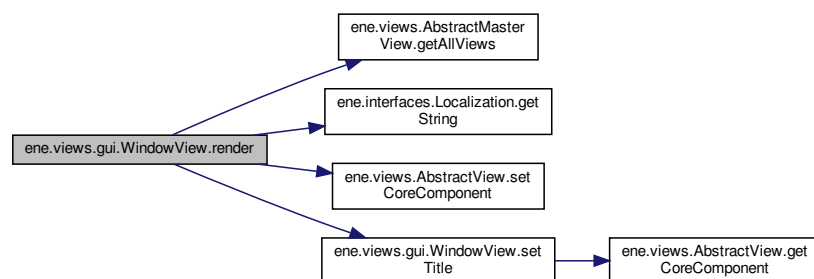
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 42 of file `WindowView.java`.

References `ene.views.AbstractMasterView< CoreComponentType >.getAllViews()`, `ene.interfaces.Localization.getString()`, `ene.views.AbstractView< CoreComponentType >.setCoreComponent()`, and `ene.views.gui.WindowView.setTitle()`.

Here is the call graph for this function:



### 7.31.3.3 setTitle()

```
void ene.views.gui.WindowView.setTitle (
    String title )
```

Sets the title.

**Parameters**

<i>title</i>	Title.
--------------	--------

**Since**

0.13.0

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 22 of file `WindowView.java`.

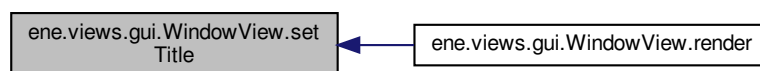
References `ene.views.AbstractView< CoreComponentType >.getCoreComponent()`.

Referenced by `ene.views.gui.WindowView.render()`.

Here is the call graph for this function:



Here is the caller graph for this function:



The documentation for this class was generated from the following file:

- `src/ene/views/gui/WindowView.java`

## 8 File Documentation

### 8.1 README.md File Reference

### 8.2 `src/ene/AbstractObject.java` File Reference

**Classes**

- class [ene.AbstractObject](#)



## Packages

- package [ene](#)

### 8.3 src/ene/Application.java File Reference

## Classes

- class [ene.Application](#)

## Packages

- package [ene](#)

### 8.4 src/ene/controllers/AbstractController.java File Reference

## Classes

- class [ene.controllers.AbstractController< ModelType >](#)

## Packages

- package [ene.controllers](#)

### 8.5 src/ene/controllers/LibraryController.java File Reference

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- class [ene.controllers.LibraryController](#)

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### 8.7 src/ene/databases/package-info.java File Reference

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## 8.9 src/ene/models/package-info.java File Reference

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- package [ene.models](#)

## 8.10 src/ene/package-info.java File Reference

### Packages

- package [ene](#)

## 8.11 src/ene/views/gui/package-info.java File Reference

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- package [ene.views.gui](#)

## 8.12 src/ene/views/gui/partial/package-info.java File Reference

### Packages

- package [ene.views.gui.partial](#)

## 8.13 src/ene/views/package-info.java File Reference

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- package [ene.views](#)

## 8.14 src/ene/controllers/PlayerController.java File Reference

### Classes

- class [ene.controllers.PlayerController](#)

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- package [ene.controllers](#)

## 8.15 src/ene/controllers/PlaylistController.java File Reference

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- class [ene.controllers.PlaylistController](#)

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- package [ene.controllers](#)

## 8.16 src/ene/databases/SQLDatabase.java File Reference

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- class [ene.databases.SQLDatabase](#)

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- package [ene.databases](#)

## 8.17 src/ene/interfaces/Controller.java File Reference

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- interface [ene.interfaces.Controller< ModelType >](#)

### Packages

- package [ene.interfaces](#)

## 8.18 src/ene/interfaces/DatabaseConnection.java File Reference

### Classes

- interface [ene.interfaces.DatabaseConnection](#)

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- package [ene.interfaces](#)

## 8.19 src/ene/interfaces/Export.java File Reference

### Classes

- interface [ene.interfaces.Export](#)

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#### Classes

- interface [ene.interfaces.Import](#)

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#### Classes

- interface [ene.interfaces.Localization](#)

#### Packages

- package [ene.interfaces](#)

### 8.22 src/ene/interfaces/MasterView.java File Reference

#### Classes

- interface [ene.interfaces.MasterView](#) < [CoreComponentType](#) >

#### Packages

- package [ene.interfaces](#)

### 8.23 src/ene/interfaces/Model.java File Reference

#### Classes

- interface [ene.interfaces.Model](#)

#### Packages

- package [ene.interfaces](#)

## 8.24 src/ene/interfaces/PartialView.java File Reference

### Classes

- interface [ene.interfaces.PartialView](#) < [CoreComponentType](#), [ModelType](#) >

### Packages

- package [ene.interfaces](#)

## 8.25 src/ene/interfaces/View.java File Reference

### Classes

- interface [ene.interfaces.View](#) < [CoreComponentType](#) >

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- package [ene.interfaces](#)

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- class [ene.models.AbstractModel](#)

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#### Classes

- class [ene.models.TrackModel](#)

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- package [ene.models](#)

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#### Classes

- class [ene.views.AbstractMasterView](#) < [CoreComponentType](#) >

#### Packages

- package [ene.views](#)

### 8.33 src/ene/views/AbstractPartialView.java File Reference

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- class [ene.views.AbstractPartialView](#)< [CoreComponentType](#), [ModelType](#) >

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- class [ene.views.AbstractView](#)< [CoreComponentType](#) >

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- class [ene.views.gui.partial.PlayerView](#)

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