

controller.simulation

# Class Simulation

java.lang.Object  
└─ controller.simulation.Simulation

Direct Known Subclasses:  
[TrafficLightSimulationController](#), [VehicleSimulationController](#)

```
public abstract class Simulation
extends java.lang.Object
```

Basisklasse für alle Simulations-Controller

Field Summary	
<div>private</div> <a href="#">WorldModel</a>	<a href="#">world</a>

Constructor Summary	
<a href="#">Simulation</a>	()

Method Summary	
<a href="#">WorldModel</a>	<a href="#">getWorld</a> ()
void	<a href="#">setWorld</a> ( <a href="#">WorldModel</a> world)
void	<a href="#">update</a> () Aktualisiert die Daten in der Welt

Methods inherited from class java.lang.Object	
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait	

## Field Detail

### world

private [WorldModel](#) world

## Constructor Detail

## Simulation

```
public Simulation()
```

### Method Detail

#### getWorld

```
public WorldModel getWorld()
```

#### setWorld

```
public void setWorld(WorldModel world)
```

#### update

```
public void update()
```

Aktualisiert die Daten in der Welt

controller.simulation

## Class SimulationController

```
java.lang.Object
└─ controller.simulation.SimulationController
```

```
public class SimulationController
extends java.lang.Object
```

Kümmert sich um die Simulation

### Field Summary

private boolean	<a href="#">running</a>
private <a href="#">TrafficLightSimulationController</a>	<a href="#">trafficLightSim</a>
private <a href="#">VehicleSimulationController</a>	<a href="#">vehicleSim</a>

### Constructor Summary

<a href="#">SimulationController</a> ( )
--

Method Summary	
boolean	<a href="#">isRunning</a> ()
void	<a href="#">setRunning</a> (boolean running)
void	<a href="#">start</a> () Startet die Simulation
void	<a href="#">stop</a> () Stoppt die Simulation

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### running

private boolean **running**

---

### trafficLightSim

private [TrafficLightSimulationController](#) **trafficLightSim**

---

### vehicleSim

private [VehicleSimulationController](#) **vehicleSim**

## Constructor Detail

### SimulationController

public **SimulationController**()

## Method Detail

### isRunning

public boolean **isRunning**()

---

### setRunning

public void **setRunning**(boolean running)

---

start

```
public void start()

    Startet die Simulation
```

stop

```
public void stop()

    Stoppt die Simulation
```

controller.simulation

Class TrafficLightSimulationController

```
java.lang.Object
├── controller.simulation.Simulation
│   └── controller.simulation.TrafficLightSimulationController
```

```
public class TrafficLightSimulationController
extends Simulation
```

Controller für die Ampelschaltung

Ablauf einer Ampelsimulation:

- Aus dem WorldModel holt sich der Controller alle platzierten Kacheln ([WorldModel.getPlacedTiles\(\)](#))
- Wenn diese Kacheln über eine Ampel verfügt und diese auch aktiv ist ([PlacedTileModel.isTrafficlightEnabled\(\)](#)) werden alle Strecken ([RouteModel](#)) der Kachel ([TileModel.getRoutes\(\)](#)) durchgegangen und dort die Ampeln ([PlacedTrafficlightModel](#)) entsprechend des hier definiert Ablaufes geschaltet.
- Der Controller merkt sich dazu, ob der Ampelverbund einer Kachel bereits initialisiert wurde und setzt dann die Ampeln in die entsprechende Phase gesetzt [PlacedTrafficlightModel.setPhase\(TrafficlightPhase\)](#)

Field Summary	
private int	<a href="#">greenPhaseDuration</a>
private int	<a href="#">redPhaseDuration</a>
private int	<a href="#">redYellowPhaseDuration</a>
private int	<a href="#">yellowDuration</a>

Constructor Summary	
	<a href="#">TrafficLightSimulationController</a> ( )

--

## Method Summary

int	<a href="#">getGreenPhaseDuration()</a>
int	<a href="#">getRedPhaseDuration()</a>
int	<a href="#">getRedYellowPhaseDuration()</a>
int	<a href="#">getYellowDuration()</a>
void	<a href="#">setGreenPhaseDuration(int greenPhaseDuration)</a>
void	<a href="#">setRedPhaseDuration(int redPhaseDuration)</a>
void	<a href="#">setRedYellowPhaseDuration(int redYellowPhaseDuration)</a>
void	<a href="#">setYellowDuration(int yellowDuration)</a>

### Methods inherited from class controller.simulation.[Simulation](#)

[getWorld](#), [setWorld](#), [update](#)

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### redPhaseDuration

private int **redPhaseDuration**

### redYellowPhaseDuration

private int **redYellowPhaseDuration**

### greenPhaseDuration

private int **greenPhaseDuration**

### yellowDuration

```
private int yellowDuration
```

Constructor Detail

TrafficLightSimulationController

```
public TrafficLightSimulationController()
```

Method Detail

getRedPhaseDuration

```
public int getRedPhaseDuration()
```

setRedPhaseDuration

```
public void setRedPhaseDuration(int redPhaseDuration)
```

getRedYellowPhaseDuration

```
public int getRedYellowPhaseDuration()
```

setRedYellowPhaseDuration

```
public void setRedYellowPhaseDuration(int redYellowPhaseDuration)
```

getGreenPhaseDuration

```
public int getGreenPhaseDuration()
```

setGreenPhaseDuration

```
public void setGreenPhaseDuration(int greenPhaseDuration)
```

getYellowDuration

```
public int getYellowDuration()
```

setYellowDuration

```
public void setYellowDuration(int yellowDuration)
```

controller.simulation

# Class VehicleSimulationController

```
java.lang.Object
├── controller.simulation.Simulation
│   └── controller.simulation.VehicleSimulationController
```

```
public class VehicleSimulationController
extends Simulation
```

## Controller für das Fahren der Fahrzeuge

Ablauf einer Fahrsimulation:

- Aus dem WorldModel holt sich der Controller alle platzierten Kacheln ([WorldModel.getPlacedTiles\(\)](#)) und arbeitet sie nacheinander ab.
- Wenn eine Kachel über platzierte Fahrzeuge verfügt werden alle Fahrzeuge ([PlacedVehicleModel](#)) der Kachel ([PlacedTileModel.getPlacedVehicles\(\)](#)) durchgegangen und das Fahren wird Simuliert. ([driveVehicle\(PlacedVehicleModel\)](#))

## Constructor Summary

```
VehicleSimulationController()
```

## Method Summary

void	<a href="#">checkTile</a> ( <a href="#">PlacedVehicleModel</a> vehicle) Überprüft, ob das Fahrzeug seine Kachel wechselt
void	<a href="#">checkWay</a> ( <a href="#">PlacedVehicleModel</a> vehicle) Überprüft Weg für das Fahrzeug.
void	<a href="#">driveVehicle</a> ( <a href="#">PlacedVehicleModel</a> vehicle) Lässt Fahrzeuge auf Welt fahren
void	<a href="#">vehiclesGo</a> () Lässt alle Fahrzeuge auf der Welt fahren

## Methods inherited from class controller.simulation.Simulation

```
getWorld, setWorld, update
```

## Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

## Constructor Detail

### VehicleSimulationController

```
public VehicleSimulationController()
```

Method Detail

vehiclesGo

```
public void vehiclesGo()
```

Lässt alle Fahrzeuge auf der Welt fahren

driveVehicle

```
public void driveVehicle(PlacedVehicleModel vehicle)
```

Lässt Fahrzeuge auf Welt fahren

Parameters:

- vehicle -
- top -
- left -
- rotation -

checkTile

```
public void checkTile(PlacedVehicleModel vehicle)
```

Überprüft, ob das Fahrzeug seine Kachel wechselt

Parameters:

- vehicle -

checkWay

```
public void checkWay(PlacedVehicleModel vehicle)
```

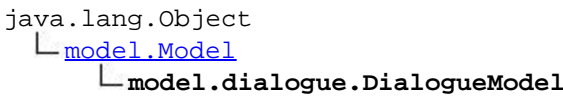
Überprüft Weg für das Fahrzeug. Kachel kann verschiedene Abbiegungen haben, oder ein Ende, and dem das Fahrzeug wieder umkehrt.

Parameters:

- vehicle -

model.dialogue

Class DialogueModel



Direct Known Subclasses:

[ErrorDialogueModel](#), [HelpDialogueModel](#), [LoadDialogueModel](#), [NewDialogueModel](#)



```
public abstract class DialogueModel
extends Model
```

Basisklasse für alle Dialoge

Field Summary	
<div>private java.lang.String</div>	<a href="#">cancelCloseButton</a>
<div>private java.lang.String</div>	<a href="#">title</a>

Constructor Summary	
<a href="#">DialogueModel</a> ( )	

Method Summary	
<div>java.lang.String</div>	<a href="#">getCancelCloseButton</a> ( )
<div>java.lang.String</div>	<a href="#">getTitle</a> ( )
<div>void</div>	<a href="#">setCancelCloseButton</a> (java.lang.String cancelCloseButton)
<div>void</div>	<a href="#">setTitle</a> (java.lang.String title)

Methods inherited from class java.lang.Object	
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait	

## Field Detail

### title

```
private java.lang.String title
```

### cancelCloseButton

```
private java.lang.String cancelCloseButton
```

## Constructor Detail

### DialogueModel

```
public DialogueModel()
```

## Method Detail

### getTitle

```
public java.lang.String getTitle()
```

### setTitle

```
public void setTitle(java.lang.String title)
```

### getCancelCloseButton

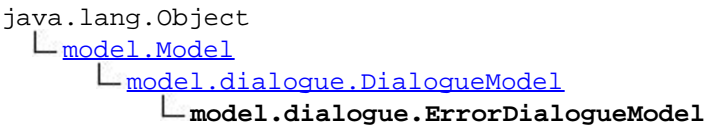
```
public java.lang.String getCancelCloseButton()
```

### setCancelCloseButton

```
public void setCancelCloseButton(java.lang.String cancelCloseButton)
```

model.dialogue

## Class ErrorDialogueModel



```
public class ErrorDialogueModel
extends DialogueModel
```

Model für die [ErrorDialogueView](#)

## Field Summary

<div>private</div> <div>java.lang.String</div>	<a href="#"><code>errorMessage</code></a>
--	---

## Constructor Summary

[ErrorDialogueModel](#)( )

## Method Summary

java.lang.String

	<a href="#">getErrorMessage()</a>
void	<a href="#">setErrorMessage()</a> (java.lang.String errorMessage)

Methods inherited from class model.dialogue.[DialogueModel](#)

[getCancelCloseButton](#), [getTitle](#), [setCancelCloseButton](#), [setTitle](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### errorMessage

```
private java.lang.String errorMessage
```

## Constructor Detail

### ErrorDialogueModel

```
public ErrorDialogueModel()
```

## Method Detail

### getErrorMessage

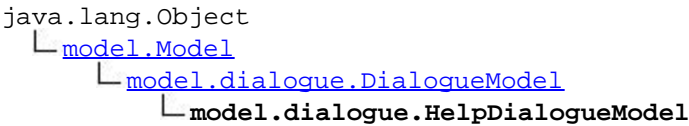
```
public java.lang.String getErrorMessage()
```

### setErrorMessage

```
public void setErrorMessage(java.lang.String errorMessage)
```

model.dialogue

## Class HelpDialogueModel



```
public class HelpDialogueModel
extends DialogueModel
```

Model für die [HelpDialogueView](#)

## Field Summary

<code>private java.lang.String</code>	<a href="#">authors</a>
<code>private java.lang.String</code>	<a href="#">helpInfo</a>
<code>private java.lang.String</code>	<a href="#">version</a>

## Constructor Summary

[HelpDialogueModel](#)( )

## Method Summary

<code>java.lang.String</code>	<a href="#">getAuthors</a> ( )
<code>java.lang.String</code>	<a href="#">getHelpInfo</a> ( )
<code>java.lang.String</code>	<a href="#">getVersion</a> ( )
<code>void</code>	<a href="#">setAuthors</a> ( java.lang.String authors )
<code>void</code>	<a href="#">setHelpInfo</a> ( java.lang.String helpInfo )
<code>void</code>	<a href="#">setVersion</a> ( java.lang.String version )

### Methods inherited from class model.dialogue.[DialogueModel](#)

[getCancelButton](#), [getTitle](#), [setCancelButton](#), [setTitle](#)

### Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

## Field Detail

### helpInfo

`private java.lang.String helpInfo`

### authors

```
private java.lang.String authors
```

---

**version**

```
private java.lang.String version
```

Constructor Detail

**HelpDialogueModel**

```
public HelpDialogueModel()
```

Method Detail

**getHelpInfo**

```
public java.lang.String getHelpInfo()
```

---

**setHelpInfo**

```
public void setHelpInfo(java.lang.String helpInfo)
```

---

**getAuthors**

```
public java.lang.String getAuthors()
```

---

**setAuthors**

```
public void setAuthors(java.lang.String authors)
```

---

**getVersion**

```
public java.lang.String getVersion()
```

---

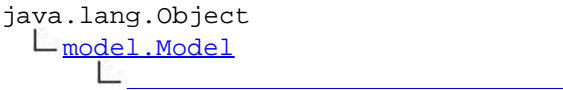
**setVersion**

```
public void setVersion(java.lang.String version)
```

---

model.dialogue

**Class LoadDialogueModel**



```
model.dialogue.DialogueModel
└─ model.dialogue.LoadDialogueModel
```

Direct Known Subclasses:  
[SaveDialogueModel](#)

```
public class LoadDialogueModel
extends DialogueModel
```

Model für die [LoadDialogueView](#)

Field Summary	
<div>private java.lang.String</div>	<a href="#">filename</a>
<div>private java.lang.String</div>	<a href="#">okButton</a>

Constructor Summary	
<a href="#">LoadDialogueModel</a> ( )	

Method Summary	
<div>java.lang.String</div>	<a href="#">getFilename</a> ( )
<div>java.lang.String</div>	<a href="#">getOkButton</a> ( )
<div>void</div>	<a href="#">setFilename</a> (java.lang.String filename)
<div>void</div>	<a href="#">setOkButton</a> (java.lang.String okButton)

Methods inherited from class model.dialogue. <a href="#">DialogueModel</a>	
<a href="#">getCancelCloseButton</a> , <a href="#">getTitle</a> , <a href="#">setCancelCloseButton</a> , <a href="#">setTitle</a>	

Methods inherited from class java.lang.Object	
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait	

Field Detail
--------------

**okButton**

```
private java.lang.String okButton
```

filename

```
private java.lang.String filename
```

Constructor Detail

LoadDialogueModel

```
public LoadDialogueModel()
```

Method Detail

getOkButton

```
public java.lang.String getOkButton()
```

setOkButton

```
public void setOkButton(java.lang.String okButton)
```

getFilename

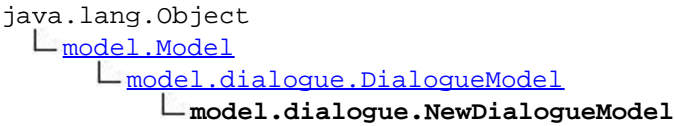
```
public java.lang.String getFilename()
```

setFilename

```
public void setFilename(java.lang.String filename)
```

model.dialogue

Class NewDialogueModel



```
public class NewDialogueModel
extends DialogueModel
```

Model für die [NewDialogueView](#)

Field Summary	
private int	<a href="#">maxHorTiles</a>

<pre>private int</pre>	<a href="#">maxVerTiles</a>
<pre>private java.lang.String</pre>	<a href="#">okButton</a>

## Constructor Summary

[NewDialogueModel](#)()

## Method Summary

<pre>int</pre>	<a href="#">getMaxHorTiles</a> ()
<pre>int</pre>	<a href="#">getMaxVerTiles</a> ()
<pre>java.lang.String</pre>	<a href="#">getOkButton</a> ()
<pre>void</pre>	<a href="#">setMaxHorTiles</a> (int maxHorTiles)
<pre>void</pre>	<a href="#">setMaxVerTiles</a> (int maxVerTiles)
<pre>void</pre>	<a href="#">setOkButton</a> (java.lang.String okButton)

### Methods inherited from class model.dialogue.[DialogueModel](#)

[getCancelCloseButton](#), [getTitle](#), [setCancelCloseButton](#), [setTitle](#)

### Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

## Field Detail

### okButton

```
private java.lang.String okButton
```

### maxHorTiles

```
private int maxHorTiles
```

### maxVerTiles

```
private int maxVerTiles
```



# Constructor Detail

## NewDialogueModel

```
public NewDialogueModel()
```

# Method Detail

## getOkButton

```
public java.lang.String getOkButton()
```

---

## setOkButton

```
public void setOkButton(java.lang.String okButton)
```

---

## getMaxHorTiles

```
public int getMaxHorTiles()
```

---

## setMaxHorTiles

```
public void setMaxHorTiles(int maxHorTiles)
```

---

## getMaxVerTiles

```
public int getMaxVerTiles()
```

---

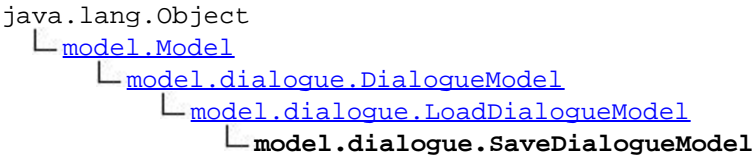
## setMaxVerTiles

```
public void setMaxVerTiles(int maxVerTiles)
```

---

model.dialogue

# Class SaveDialogueModel



```
public class SaveDialogueModel
extends LoadDialogueModel
```

Model für die [SaveDialogueView](#)

# Constructor Summary

<a href="#">SaveDialogueModel</a> ( )
---------------------------------------

# Method Summary

## Methods inherited from class model.dialogue.[LoadDialogueModel](#)

<a href="#">getFilename</a> , <a href="#">getOkButton</a> , <a href="#">setFilename</a> , <a href="#">setOkButton</a>
---

## Methods inherited from class model.dialogue.[DialogueModel](#)

<a href="#">getCancelCloseButton</a> , <a href="#">getTitle</a> , <a href="#">setCancelCloseButton</a> , <a href="#">setTitle</a>
---

## Methods inherited from class java.lang.Object

<a href="#">clone</a> , <a href="#">equals</a> , <a href="#">finalize</a> , <a href="#">getClass</a> , <a href="#">hashCode</a> , <a href="#">notify</a> , <a href="#">notifyAll</a> , <a href="#">toString</a> , <a href="#">wait</a> , <a href="#">wait</a> , <a href="#">wait</a>
--

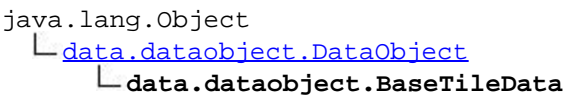
# Constructor Detail

## SaveDialogueModel

```
public SaveDialogueModel()
```

data.dataobject

# Class BaseTileData



## Direct Known Subclasses:

[TileData](#)

```
public class BaseTileData
extends DataObject
```

Data-Klasse für Basis-Kachel

# Field Summary

<div>private</div> java.lang.String	<a href="#">source</a>
-------------------------------------	------------------------

## Constructor Summary

[BaseTileData](#)()

## Method Summary

java.lang.String	<a href="#">getSource</a> ()
void	<a href="#">setSource</a> (java.lang.String source)

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### source

```
private java.lang.String source
```

## Constructor Detail

### BaseTileData

```
public BaseTileData()
```

## Method Detail

### getSource

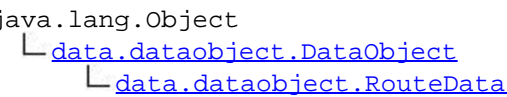
```
public java.lang.String getSource()
```

### setSource

```
public void setSource(java.lang.String source)
```

data.dataobject

## Class CurveData



```
public class CurveData
extends RouteData
```

Data-Klasse für eine Kurve

## Field Summary

private LocationData	corner
-------------------------	--------

## Constructor Summary

CurveData()
-------------

## Method Summary

LocationData	getCorner()
void	setCorner(LocationData corner)

### Methods inherited from class data.dataobject.RouteData

getEnd, getStart, setEnd, setStart
------------------------------------

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
--

## Field Detail

### corner

```
private LocationData corner
```

## Constructor Detail

### CurveData

```
public CurveData()
```

## Method Detail

### getCorner

```
public LocationData getCorner()
```

Returns:

### setCorner

```
public void setCorner(LocationData corner)
```

Parameters:

corner -

data.dataobject

## Class DataObject

```
java.lang.Object
└─ data.dataobject.DataObject
```

Direct Known Subclasses:

[BaseTileData](#), [LocationData](#), [RouteData](#), [TextData](#), [TrafficlightData](#), [VehicleData](#), [VehicleSpeedData](#), [WorldData](#)

```
public abstract class DataObject
extends java.lang.Object
```

Basisklasse für alle Data-Klassen

### Constructor Summary

```
DataObject()
```

### Method Summary

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Constructor Detail

### DataObject

```
public DataObject()
```

data.dataobject

# Class LocationData

```
java.lang.Object
├── data.dataobject.DataObject
│   └── data.dataobject.LocationData
```

```
public class LocationData
extends DataObject
```

Data-Klasse für ein Punkt eines Strassenstückes

Field Summary	
private boolean	<a href="#">trafficlight</a>
private java.lang.String	<a href="#">type</a>

Constructor Summary	
<a href="#">LocationData</a> (java.lang.String type, boolean trafficlight)	

Method Summary	
boolean	<a href="#">hasTrafficlight</a> ()
boolean	<a href="#">isCenter</a> ()
boolean	<a href="#">isEast</a> ()
boolean	<a href="#">isNorth</a> ()
boolean	<a href="#">isNorthEast</a> ()
boolean	<a href="#">isNorthWest</a> ()
boolean	<a href="#">isSouth</a> ()
boolean	<a href="#">isSouthEast</a> ()
boolean	<a href="#">isSouthWest</a> ()
boolean	<a href="#">isWest</a> ()

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### type

private java.lang.String **type**

---

### trafficlight

private boolean **trafficlight**

## Constructor Detail

### LocationData

```
public LocationData(java.lang.String type,
                    boolean trafficlight)
```

**Parameters:**

- type -
- trafficlight -

## Method Detail

### isNorth

```
public boolean isNorth()
```

**Returns:**

---

### isEast

```
public boolean isEast()
```

**Returns:**

---

### isSouth

```
public boolean isSouth()
```

**Returns:**

---

### isWest

```
public boolean isWest()
```

Returns:

---

isCenter

```
public boolean isCenter()
```

Returns:

---

isNorthEast

```
public boolean isNorthEast()
```

Returns:

---

isSouthEast

```
public boolean isSouthEast()
```

Returns:

---

isSouthWest

```
public boolean isSouthWest()
```

Returns:

---

isNorthWest

```
public boolean isNorthWest()
```

Returns:

---

hasTrafficlight

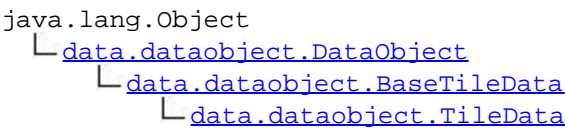
```
public boolean hasTrafficlight()
```

Returns:

---

data.dataobject

Class PlacedTileData





```
public class PlacedTileData
extends TileData
```

Data-Klasse für eine platzierte Klasse

Field Summary	
private int	<a href="#">left</a>
private int	<a href="#">rotation</a>
private int	<a href="#">top</a>
java.util.ArrayList< <a href="#">PlacedVehicleData</a> >	<a href="#">vehicles</a>

Constructor Summary
<a href="#">PlacedTileData</a> ()

Method Summary	
int	<a href="#">getLeft</a> ()
int	<a href="#">getRotation</a> ()
int	<a href="#">getTop</a> ()
<a href="#">PlacedVehicleData</a> []	<a href="#">getVehicles</a> ()
void	<a href="#">setLeft</a> (int left)
void	<a href="#">setRotation</a> (int rotation)
void	<a href="#">setTop</a> (int top)
void	<a href="#">setVehicles</a> ( <a href="#">PlacedVehicleData</a> [] vehicles)

Methods inherited from class data.dataobject. <a href="#">TileData</a>
<a href="#">getDescription</a> , <a href="#">getId</a> , <a href="#">getName</a> , <a href="#">getRoutes</a> , <a href="#">setDescription</a> , <a href="#">setId</a> , <a href="#">setName</a> , <a href="#">setRoutes</a>

Methods inherited from class data.dataobject. <a href="#">BaseTileData</a>
--

[getSource](#), [setSource](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

left

private int left

top

private int top

rotation

private int rotation

vehicles

private java.util.ArrayList<[PlacedVehicleData](#)> vehicles

Constructor Detail

PlacedTileData

public PlacedTileData()

Method Detail

getLeft

public int getLeft()

setLeft

public void setLeft(int left)

getTop

public int getTop()

## setTop

```
public void setTop(int top)
```

## getRotation

```
public int getRotation()
```

## setRotation

```
public void setRotation(int rotation)
```

## getVehicles

```
public PlacedVehicleData[] getVehicles()
```

Returns:

## setVehicles

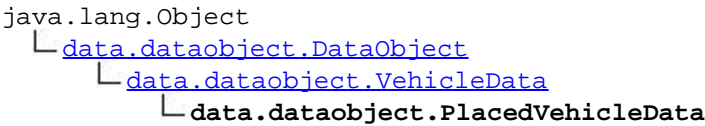
```
public void setVehicles(PlacedVehicleData[] vehicles)
```

Parameters:

vehicles -

data.dataobject

# Class PlacedVehicleData



```
public class PlacedVehicleData
extends VehicleData
```

Data-Klasse für ein platziertes Fahrzeug

Field Summary	
private int	<a href="#">left</a>
private int	<a href="#">rotation</a>
private int	<a href="#">top</a>

## Constructor Summary

[PlacedVehicleData\(\)](#)

## Method Summary

int	<a href="#">getLeft()</a>
int	<a href="#">getRotation()</a>
int	<a href="#">getTop()</a>
void	<a href="#">setLeft()</a> (int left)
void	<a href="#">setRotation()</a> (int rotation)
void	<a href="#">setTop()</a> (int top)

### Methods inherited from class data.dataobject.VehicleData

[getDescription\(\)](#), [getId\(\)](#), [getName\(\)](#), [getSource\(\)](#), [getSpeed\(\)](#), [setDescription\(\)](#), [setId\(\)](#), [setName\(\)](#), [setSource\(\)](#), [setSpeed\(\)](#)

### Methods inherited from class java.lang.Object

[clone\(\)](#), [equals\(\)](#), [finalize\(\)](#), [getClass\(\)](#), [hashCode\(\)](#), [notify\(\)](#), [notifyAll\(\)](#), [toString\(\)](#), [wait\(\)](#), [wait\(\)](#), [wait\(\)](#)

## Field Detail

### left

private int **left**

### top

private int **top**

### rotation

private int **rotation**

## Constructor Detail

## PlacedVehicleData

```
public PlacedVehicleData()
```

### Method Detail

#### getLeft

```
public int getLeft()
```

#### setLeft

```
public void setLeft(int left)
```

#### getTop

```
public int getTop()
```

#### setTop

```
public void setTop(int top)
```

#### getRotation

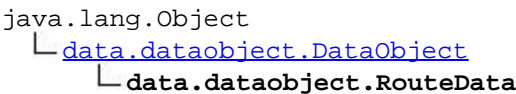
```
public int getRotation()
```

#### setRotation

```
public void setRotation(int rotation)
```

data.dataobject

## Class RouteData



### Direct Known Subclasses:

[CurveData](#), [StraightData](#)

```
public abstract class RouteData
extends DataObject
```

Data-Klasse für ein Strassenstück

## Field Summary

<code>private <a href="#">LocationData</a></code>	<code><a href="#">end</a></code>
<code>private <a href="#">LocationData</a></code>	<code><a href="#">start</a></code>

## Constructor Summary

`RouteData()`

## Method Summary

<code><a href="#">LocationData</a></code>	<code><a href="#">getEnd</a>()</code>
<code><a href="#">LocationData</a></code>	<code><a href="#">getStart</a>()</code>
<code>void</code>	<code><a href="#">setEnd</a>(<a href="#">LocationData</a> end)</code>
<code>void</code>	<code><a href="#">setStart</a>(<a href="#">LocationData</a> start)</code>

### Methods inherited from class java.lang.Object

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

## Field Detail

### start

```
private LocationData start
```

### end

```
private LocationData end
```

## Constructor Detail

### RouteData

```
public RouteData()
```

## Method Detail

## getStart

```
public LocationData getStart()
```

Returns:

---

## getEnd

```
public LocationData getEnd()
```

Returns:

---

## setStart

```
public void setStart(LocationData start)
```

Parameters:

start -

---

## setEnd

```
public void setEnd(LocationData end)
```

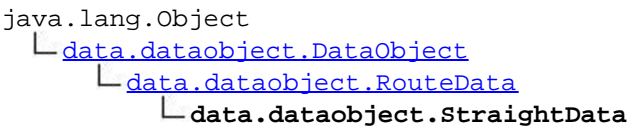
Parameters:

end -

---

data.dataobject

# Class StraightData



```
public class StraightData
extends RouteData
```

Data-Klasse für ein gerades Strassenstück

---

Constructor Summary

[StraightData](#)()

Method Summary

Methods inherited from class data.dataobject.[RouteData](#)

[getEnd](#), [getStart](#), [setEnd](#), [setStart](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

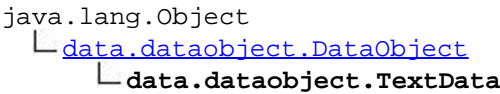
Constructor Detail

StraightData

```
public StraightData()
```

data.dataobject

Class TextData



```
public class TextData
extends DataObject
```

Data-Klasse für ein Text

Field Summary

<div>private java.lang.String</div>	<a href="#">id</a>
<div>private java.lang.String</div>	<a href="#">text</a>

Constructor Summary

[TextData](#)()

Method Summary

<div>java.lang.String</div>	<a href="#">getId</a> ()
<div>java.lang.String</div>	<a href="#">getText</a> ()
<div>void</div>	<a href="#">setId</a> (java.lang.String id)
<div>void</div>	



	<a href="#">setText</a> (java.lang.String text)
--	---

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### id

```
private java.lang.String id
```

### text

```
private java.lang.String text
```

## Constructor Detail

### TextData

```
public TextData()
```

## Method Detail

### getId

```
public java.lang.String getId()
```

### setId

```
public void setId(java.lang.String id)
```

### getText

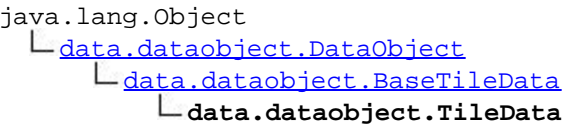
```
public java.lang.String getText()
```

### setText

```
public void setText(java.lang.String text)
```

data.dataobject

## Class TileData



Direct Known Subclasses:

[PlacedTileData](#)

```
public class TileData
extends BaseTileData
```

Data-Klasse für eine Kachel mit Straße

Field Summary	
private java.lang.String	<a href="#">description</a>
private java.lang.String	<a href="#">id</a>
private java.lang.String	<a href="#">name</a>
private java.util.ArrayList< <a href="#">RouteData</a> >	<a href="#">routes</a>

Constructor Summary	
<a href="#">TileData</a> ( )	

Method Summary	
java.lang.String	<a href="#">getDescription</a> ( )
java.lang.String	<a href="#">getId</a> ( )
java.lang.String	<a href="#">getName</a> ( )
<a href="#">RouteData</a> [ ]	<a href="#">getRoutes</a> ( ) Gibt die Strecken dieser Kacheln zurück
void	<a href="#">setDescription</a> (java.lang.String description)
void	<a href="#">setId</a> (java.lang.String id)
void	<a href="#">setName</a> (java.lang.String name)
void	<a href="#">setRoutes</a> ( <a href="#">RouteData</a> [ ] routes) Setzt die Strecken dieser Kachel

<b>Methods inherited from class data.dataobject.<a href="#">BaseTileData</a></b>
<a href="#">getSource</a> , <a href="#">setSource</a>

<b>Methods inherited from class java.lang.Object</b>
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### id

```
private java.lang.String id
```

### name

```
private java.lang.String name
```

### description

```
private java.lang.String description
```

### routes

```
private java.util.ArrayList<RouteData> routes
```

## Constructor Detail

### TileData

```
public TileData()
```

## Method Detail

### getId

```
public java.lang.String getId()
```

### setId

```
public void setId(java.lang.String id)
```

### getName

```
public java.lang.String getName()
```

setName

```
public void setName(java.lang.String name)
```

getDescription

```
public java.lang.String getDescription()
```

setDescription

```
public void setDescription(java.lang.String description)
```

getRoutes

```
public RouteData[] getRoutes()
```

Gibt die Strecken dieser Kacheln zurück

Returns:

setRoutes

```
public void setRoutes(RouteData[] routes)
```

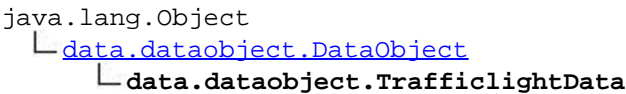
Setzt die Strecken dieser Kachel

Parameters:

routes -

data.dataobject

Class TrafficlightData



```
public class TrafficlightData
extends DataObject
```

Data-Klasse für eine Ampel

Field Summary	
private java.lang.String	<a href="#">greenSource</a>

<div>private java.lang.String</div>	<a href="#">offSource</a>
<div>private java.lang.String</div>	<a href="#">redSource</a>
<div>private java.lang.String</div>	<a href="#">redYellowSource</a>
<div>private java.lang.String</div>	<a href="#">yellowSource</a>

## Constructor Summary

[TrafficlightData](#)( )

## Method Summary

<div>java.lang.String</div>	<a href="#">getGreenSource</a> ( )
<div>java.lang.String</div>	<a href="#">getOffSource</a> ( )
<div>java.lang.String</div>	<a href="#">getRedSource</a> ( )
<div>java.lang.String</div>	<a href="#">getRedYellowSource</a> ( )
<div>java.lang.String</div>	<a href="#">getYellowSource</a> ( )
<div>void</div>	<a href="#">setGreenSource</a> (java.lang.String greenSource)
<div>void</div>	<a href="#">setOffSource</a> (java.lang.String offSource)
<div>void</div>	<a href="#">setRedSource</a> (java.lang.String redSource)
<div>void</div>	<a href="#">setRedYellowSource</a> (java.lang.String redYellowSource)
<div>void</div>	<a href="#">setYellowSource</a> (java.lang.String yellowSource)

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

**offSource**

```
private java.lang.String offSource
```

---

**redSource**

```
private java.lang.String redSource
```

---

**redYellowSource**

```
private java.lang.String redYellowSource
```

---

**greenSource**

```
private java.lang.String greenSource
```

---

**yellowSource**

```
private java.lang.String yellowSource
```

Constructor Detail

**TrafficlightData**

```
public TrafficlightData()
```

Method Detail

**getOffSource**

```
public java.lang.String getOffSource()
```

---

**setOffSource**

```
public void setOffSource(java.lang.String offSource)
```

---

**getRedSource**

```
public java.lang.String getRedSource()
```

---

**setRedSource**

```
public void setRedSource(java.lang.String redSource)
```

---

**getRedYellowSource**

```
public java.lang.String getRedYellowSource()
```

### setRedYellowSource

```
public void setRedYellowSource(java.lang.String redYellowSource)
```

### getGreenSource

```
public java.lang.String getGreenSource()
```

### setGreenSource

```
public void setGreenSource(java.lang.String greenSource)
```

### getYellowSource

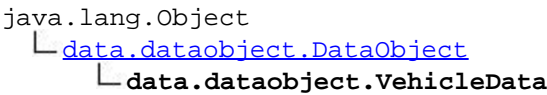
```
public java.lang.String getYellowSource()
```

### setYellowSource

```
public void setYellowSource(java.lang.String yellowSource)
```

data.dataobject

## Class VehicleData



#### Direct Known Subclasses:

[PlacedVehicleData](#)

```
public class VehicleData
extends DataObject
```

Data-Klasse für ein Fahrzeug

Field Summary	
<div>private java.lang.String</div>	<a href="#">description</a>
<div>private java.lang.String</div>	<a href="#">id</a>
<div>private</div>	<a href="#">name</a>

java.lang.String	
private java.lang.String	<a href="#">source</a>
private <a href="#">VehicleSpeedData</a>	<a href="#">speed</a>

## Constructor Summary

[VehicleData](#)()

## Method Summary

java.lang.String	<a href="#">getDescription</a> ()
java.lang.String	<a href="#">getId</a> ()
java.lang.String	<a href="#">getName</a> ()
java.lang.String	<a href="#">getSource</a> ()
<a href="#">VehicleSpeedData</a>	<a href="#">getSpeed</a> ()
void	<a href="#">setDescription</a> (java.lang.String description)
void	<a href="#">setId</a> (java.lang.String id)
void	<a href="#">setName</a> (java.lang.String name)
void	<a href="#">setSource</a> (java.lang.String source)
void	<a href="#">setSpeed</a> ( <a href="#">VehicleSpeedData</a> speed)

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

id

private java.lang.String id



name

```
private java.lang.String name
```

description

```
private java.lang.String description
```

source

```
private java.lang.String source
```

speed

```
private VehicleSpeedData speed
```

Constructor Detail

VehicleData

```
public VehicleData()
```

Method Detail

getId

```
public java.lang.String getId()
```

setId

```
public void setId(java.lang.String id)
```

getName

```
public java.lang.String getName()
```

setName

```
public void setName(java.lang.String name)
```

getDescription

```
public java.lang.String getDescription()
```

## setDescription

```
public void setDescription(java.lang.String description)
```

## getSource

```
public java.lang.String getSource()
```

## setSource

```
public void setSource(java.lang.String source)
```

## getSpeed

```
public VehicleSpeedData getSpeed()
```

Returns:

## setSpeed

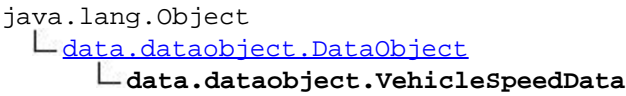
```
public void setSpeed(VehicleSpeedData speed)
```

Parameters:

speed -

data.dataobject

# Class VehicleSpeedData



```
public class VehicleSpeedData
extends DataObject
```

Data-Klasse für die Geschwindigkeit eines Fahrzeuges

Field Summary	
<div>private java.lang.String</div>	<a href="#"><u>id</u></a>
<div>private float</div>	<a href="#"><u>seconds</u></a>

## Constructor Summary

[VehicleSpeedData\(\)](#)

Method Summary

java.lang.String	<a href="#">getId()</a>
float	<a href="#">getSeconds()</a>
void	<a href="#">setId()</a> (java.lang.String id)
void	<a href="#">setSeconds()</a> (float seconds)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

id

private java.lang.String **id**

seconds

private float **seconds**

Constructor Detail

VehicleSpeedData

public **VehicleSpeedData()**

Method Detail

getId

public java.lang.String **getId()**

setId

public void **setId**(java.lang.String id)

getSeconds

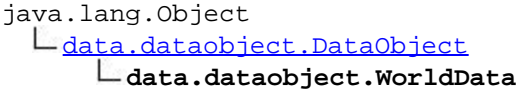
```
public float getSeconds()
```

**setSeconds**

```
public void setSeconds(float seconds)
```

data.dataobject

**Class WorldData**



```
public class WorldData
extends DataObject
```

Data-Klasse für eine Welt

Field Summary	
private <a href="#">BaseTileData</a>	<a href="#">baseTile</a>
private int	<a href="#">height</a>
private java.util.ArrayList< <a href="#">PlacedTileData</a> >	<a href="#">placedTiles</a>
private java.util.ArrayList< <a href="#">TileData</a> >	<a href="#">tiles</a>
private java.util.ArrayList< <a href="#">VehicleData</a> >	<a href="#">vehicles</a>
private int	<a href="#">width</a>

Constructor Summary	
<a href="#">WorldData</a>	( )

Method Summary	
<a href="#">BaseTileData</a>	<a href="#">getBasetile</a> ( )
int	<a href="#">getHeight</a> ( )
<a href="#">PlacedTileData</a> [ ]	

	<a href="#">getPlacedTiles</a> ()
<a href="#">TileData</a> []	<a href="#">getTiles</a> ()
<a href="#">VehicleData</a> []	<a href="#">getVehicleData</a> ()
int	<a href="#">getWidth</a> ()
void	<a href="#">setBasetile</a> ( <a href="#">BaseTileData</a> basetile)
void	<a href="#">setHeight</a> (int height)
void	<a href="#">setPlacedTiles</a> ( <a href="#">PlacedTileData</a> [] placedTiles)
void	<a href="#">setTiles</a> ( <a href="#">TileData</a> [] tiles)
void	<a href="#">setVehicleData</a> ( <a href="#">VehicleData</a> [] vehicles)
void	<a href="#">setWidth</a> (int width)

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### width

private int **width**

### height

private int **height**

### placedTiles

private java.util.ArrayList<[PlacedTileData](#)> **placedTiles**

### baseTile

private [BaseTileData](#) **baseTile**

tiles

```
private java.util.ArrayList<TileData> tiles
```

vehicles

```
private java.util.ArrayList<VehicleData> vehicles
```

Constructor Detail

WorldData

```
public WorldData()
```

Method Detail

getWidth

```
public int getWidth()
```

setWidth

```
public void setWidth(int width)
```

getHeight

```
public int getHeight()
```

setHeight

```
public void setHeight(int height)
```

getBasetile

```
public BaseTileData getBasetile()
```

Returns:

setBasetile

```
public void setBasetile(BaseTileData basetile)
```

Parameters:

basetile -

## getTiles

```
public TileData[] getTiles()
```

Returns:

---

## setTiles

```
public void setTiles(TileData[] tiles)
```

Parameters:  
tiles -

---

## getPlacedTiles

```
public PlacedTileData[] getPlacedTiles()
```

Returns:

---

## setPlacedTiles

```
public void setPlacedTiles(PlacedTileData[] placedTiles)
```

Parameters:  
placedTiles -

---

## getVehicleData

```
public VehicleData[] getVehicleData()
```

Returns:

---

## setVehicleData

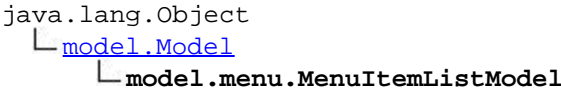
```
public void setVehicleData(VehicleData[] vehicles)
```

Parameters:  
vehicles -

---

model.menu

# Class MenuItemListModel



```
public class MenuItemListModel
```

extends [Model](#)

Enthält die Einträge der Menüleiste

## Field Summary

<code>private java.lang.String[]</code>	<a href="#">items</a> Enthält die Einträge des Menüs
---	---

## Constructor Summary

<a href="#">MenuItemListModel</a> ( )
---------------------------------------

## Method Summary

<code>java.lang.String[]</code>	<a href="#">getItems</a> ( )
<code>void</code>	<a href="#">setItems</a> ( java.lang.String[] items)

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### items

```
private java.lang.String[] items
```

Enthält die Einträge des Menüs

## Constructor Detail

### MenuItemListModel

```
public MenuItemListModel()
```

## Method Detail

### getItems

```
public java.lang.String[] getItems()
```

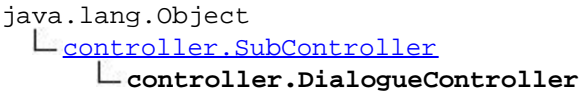
### setItems



```
public void setItems(java.lang.String[] items)
```

controller

# Class DialogueController



```
public class DialogueController
extends SubController
```

Kümmert sich um die Anzeige der verschiedenen Dialoge

Field Summary	
<div>private <a href="#">ErrorDialogueView</a></div>	<a href="#">error</a>
<div>private <a href="#">HelpDialogueView</a></div>	<a href="#">help</a>
<div>private <a href="#">LoadDialogueView</a></div>	<a href="#">load</a>
<div>private <a href="#">NewDialogueView</a></div>	<a href="#">newWorld</a>
<div>private <a href="#">SaveDialogueView</a></div>	<a href="#">save</a>

Constructor Summary	
<a href="#">DialogueController</a> ( )	Konstruktor

Method Summary	
<div>void</div>	<div><a href="#">closeAll</a>( ) Schließt alle offenen Dialoge</div>
<div><a href="#">SaveDialogueView</a></div>	<div><a href="#">getSaveDialogue</a>( ) Gibt den Save-Dialog zurück</div>
<div>void</div>	<div><a href="#">showErrorDialogue</a>( <a href="#">ErrorDialogueModel</a> model ) Zeigt den Fehler-Dialog an.</div>
<div>void</div>	<div><a href="#">showHelpDialogue</a>( ) Zeigt den Hilfe-Dialog an</div>
<div>void</div>	<div><a href="#">showLoadDialogue</a>( ) Zeigt den Dialog zum Laden einer Welt an</div>
<div>void</div>	<div><a href="#">showNewDialogue</a>( )</div>

	Zeigt den Dialog zum erzeugen einer neuen Welt an
void	<a href="#">showSaveDialogue()</a> Zeigt den Dialog zum Speichern einer Welt an

<b>Methods inherited from class controller.<a href="#">SubController</a></b>
<a href="#">getDataFactory</a> , <a href="#">getMaster</a> , <a href="#">getView</a> , <a href="#">setDataFactory</a> , <a href="#">setMaster</a> , <a href="#">setView</a>

<b>Methods inherited from class java.lang.Object</b>
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

error

private [ErrorDialogueView](#) error

help

private [HelpDialogueView](#) help

load

private [LoadDialogueView](#) load

save

private [SaveDialogueView](#) save

newWorld

private [NewDialogueView](#) newWorld

Constructor Detail

DialogueController

public DialogueController()

Konstruktor

Method Detail

showLoadDialogue

```
public void showLoadDialogue()
```

Zeigt den Dialog zum Laden einer Welt an

---

## **showSaveDialogue**

```
public void showSaveDialogue()
```

Zeigt den Dialog zum Speichern einer Welt an

---

## **showHelpDialogue**

```
public void showHelpDialogue()
```

Zeigt den Hilfe-Dialog an

---

## **showNewDialogue**

```
public void showNewDialogue()
```

Zeigt den Dialog zum erzeugen einer neuen Welt an

---

## **showErrorDialoge**

```
public void showErrorDialoge(ErrorDialogueModel model)
```

Zeigt den Fehler-Dialog an.

### **Parameters:**

model -

---

## **closeAll**

```
public void closeAll()
```

Schließt alle offenen Dialoge

---

## **getSaveDialogue**

```
public SaveDialogueView getSaveDialogue()
```

Gibt den Save-Dialog zurück

### **Returns:**

---

**controller**

# Class GUIController

```
java.lang.Object
└─controller.GUIController
```

```
public class GUIController
extends java.lang.Object
```

Basis-Klasse der Anwendung Der GUIController erzeugt die [SubController](#) und übergibt ihnen die [DataFactory](#) sowie die [view](#) mit der sie arbeiten

## Field Summary

<div>private <a href="#">DialogueController</a></div>	<a href="#">dialogue</a>
<div>private java.lang.String</div>	<a href="#">language</a>
<div>private int</div>	<a href="#">maxHorTiles</a>
<div>private int</div>	<a href="#">maxVerTiles</a>
<div>private <a href="#">MenuController</a></div>	<a href="#">menu</a>
<div>private <a href="#">SimulationController</a></div>	<a href="#">simulation</a>
<div>private <a href="#">ToolBarController</a></div>	<a href="#">toolbar</a>
<div>private <a href="#">AppView</a></div>	<a href="#">view</a>
<div>private <a href="#">WorldController</a></div>	<a href="#">world</a>

## Constructor Summary

<a href="#">GUIController</a> ( ) Erzeugt den Controller und die dazugehörigen Untercontroller
---

## Method Summary

<div>protected <a href="#">DialogueController</a></div>	<a href="#">getDialogueController</a> ( ) Gibt den Dialog-Controller zurück
<div>java.lang.String</div>	<a href="#">getLanguage</a> ( )
<div>int</div>	<a href="#">getMaxHorTiles</a> ( )
<div>int</div>	<a href="#">getMaxVerTiles</a> ( )

void	<a href="#">loadWorldAction()</a> Öffnet den Dialiog zum Laden einer Welt und lädt dann anschließend die Welt
void	<a href="#">setLanguage()</a> (java.lang.String language)

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

toolbar

```
private ToolBarController toolbar
```

---

menu

```
private MenuController menu
```

---

dialogue

```
private DialogueController dialogue
```

---

world

```
private WorldController world
```

---

simulation

```
private SimulationController simulation
```

---

view

```
private AppView view
```

---

maxVerTiles

```
private int maxVerTiles
```

---

maxHorTiles

```
private int maxHorTiles
```

---

language

```
private java.lang.String language
```

Constructor Detail

GUIController

```
public GUIController()
```

Erzeugt den Controller und die dazugehörigen Untercontroller

Method Detail

getMaxVerTiles

```
public int getMaxVerTiles()
```

---

getMaxHorTiles

```
public int getMaxHorTiles()
```

---

getLanguage

```
public java.lang.String getLanguage()
```

---

setLanguage

```
public void setLanguage(java.lang.String language)
```

---

getDialogueController

```
protected DialogueController getDialogueController()
```

Gibt den Dialog-Controller zurück

**Returns:**

---

loadWorldAction

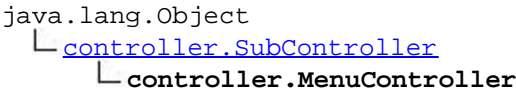
```
public void loadWorldAction()
```

Öffnet den Dialiog zum Laden einer Welt und lädt dann anschließend die Welt

---

controller

# Class MenuController



```
public class MenuController
extends SubController
```

Kontroller für die Menüleiste

Field Summary	
<div>private</div> <div><a href="#">MenuItemListModel</a></div>	<a href="#">menuModel</a>
<div>private</div> <div><a href="#">MenuView</a></div>	<a href="#">menuView</a>

Constructor Summary	
<a href="#">MenuController</a> ()	Konstruktor

Method Summary	
<div>void</div>	<a href="#">menuClicked</a> ( <a href="#">MenuItemListModel</a> menuItem) Ruft dem angeklickten Menüpunkt entsprechend einen Dialog auf

Methods inherited from class controller.SubController	
<a href="#">getDataFactory</a> , <a href="#">getMaster</a> , <a href="#">getView</a> , <a href="#">setDataFactory</a> , <a href="#">setMaster</a> , <a href="#">setView</a>	

Methods inherited from class java.lang.Object	
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait	

## Field Detail

### menuModel

```
private MenuItemListModel menuModel
```

### menuView

```
private MenuView menuView
```

# Constructor Detail

## MenuController

```
public MenuController()
```

Konstruktor

# Method Detail

## menuClicked

```
public void menuClicked(MenuItemListModel menuItem)
```

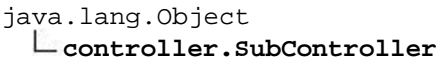
Ruft dem angeklickten Menüpunkt entsprechend einen Dialog auf

**Parameters:**

menuItem -

controller

## Class SubController



**Direct Known Subclasses:**

[DialogueController](#), [MenuController](#), [ToolBarController](#), [WorldController](#)

```
public abstract class SubController
extends java.lang.Object
```

Basisklasse für alle Untercontroller

# Field Summary

private <a href="#">DataFactory</a>	<a href="#">dataFactory</a>
private <a href="#">GUIController</a>	<a href="#">master</a>
private <a href="#">View</a>	<a href="#">view</a>

# Constructor Summary

[SubController](#) ( )



## Method Summary

<a href="#">DataFactory</a>	<a href="#">getDataFactory</a> ()
<a href="#">GUIController</a>	<a href="#">getMaster</a> ()
<a href="#">View</a>	<a href="#">getView</a> ()
void	<a href="#">setDataFactory</a> ( <a href="#">DataFactory</a> dataFactory)
void	<a href="#">setMaster</a> ( <a href="#">GUIController</a> master)
void	<a href="#">setView</a> ( <a href="#">View</a> view)

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### dataFactory

private [DataFactory](#) dataFactory

### view

private [View](#) view

### master

private [GUIController](#) master

## Constructor Detail

### SubController

public SubController()

## Method Detail

### getDataFactory

public [DataFactory](#) getDataFactory()

## setDataFactory

```
public void setDataFactory(DataFactory dataFactory)
```

## getView

```
public View getView()
```

## setView

```
public void setView(View view)
```

## getMaster

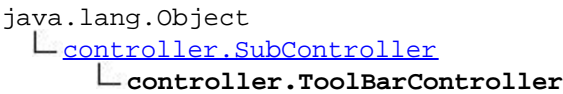
```
public GUIController getMaster()
```

## setMaster

```
public void setMaster(GUIController master)
```

controller

# Class ToolBarController



```
public class ToolBarController
extends SubController
```

Controller für die Werkzeugleiste

Field Summary	
<div>private</div> <div><a href="#">ToolBarView</a></div>	<a href="#">toolbar</a>

Constructor Summary	
<a href="#">ToolBarController</a> ( )	

Method Summary	

<b>Methods inherited from class controller.<a href="#">SubController</a></b>
<a href="#">getDataFactory</a> , <a href="#">getMaster</a> , <a href="#">getView</a> , <a href="#">setDataFactory</a> , <a href="#">setMaster</a> , <a href="#">setView</a>

<b>Methods inherited from class java.lang.Object</b>
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

toolbar

```
private ToolbarView toolbar
```

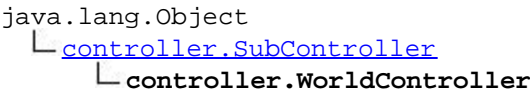
Constructor Detail

ToolBarController

```
public ToolBarController()
```

controller

Class WorldController



```
public class WorldController
extends SubController
```

Controller für die Welt

Field Summary

<small>private</small> <a href="#">WorldManager</a>	<a href="#">manager</a>
<small>private</small> <a href="#">WorldModel</a>	<a href="#">model</a>
<small>private</small> <a href="#">WorldData</a>	<a href="#">worldData</a>
<small>private</small> <a href="#">WorldView</a>	<a href="#">worldView</a>

Constructor Summary

<a href="#">WorldController</a> ( )
-------------------------------------

Konstruktor
-------------

## Method Summary

void	<a href="#">addTileAt</a> ( <a href="#">TileModel</a> tile, int left, int top, int rotation) Fügt eine Kachel an der Stelle left, top hinzu
void	<a href="#">addVehicleAt</a> ( <a href="#">VehicleModel</a> vehicle, int left, int top, int rotation) Fügt einer Kachel ein Fahrzeug hinzu
void	<a href="#">enableTrafficlight</a> ( <a href="#">PlacedTileModel</a> model)
void	<a href="#">removeTile</a> ( <a href="#">PlacedTileModel</a> placedTile) Entfernt eine Kachel
void	<a href="#">removeVehicle</a> ( <a href="#">PlacedVehicleModel</a> placedVehicle) Entfernt eine Kachel
void	<a href="#">saveWorld</a> () Speichert die aktuelle Welt

Methods inherited from class controller. <a href="#">SubController</a>
<a href="#">getDataFactory</a> , <a href="#">getMaster</a> , <a href="#">getView</a> , <a href="#">setDataFactory</a> , <a href="#">setMaster</a> , <a href="#">setView</a>

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### manager

private [WorldManager](#) manager

### worldView

private [WorldView](#) worldView

### worldData

private [WorldData](#) worldData

### model

private [WorldModel](#) model

## Constructor Detail

# WorldController

```
public WorldController()
```

Konstruktor

## Method Detail

### addTileAt

```
public void addTileAt(TileModel tile,
                      int left,
                      int top,
                      int rotation)
```

Fügt eine Kachel an der Stelle left, top hinzu

**Parameters:**

- tile -
- left -
- top -
- rotation -

### saveWorld

```
public void saveWorld()
```

Speichert die aktuelle Welt

### removeTile

```
public void removeTile(PlacedTileModel placedTile)
```

Entfernt eine Kachel

**Parameters:**

- placedTile -

### removeVehicle

```
public void removeVehicle(PlacedVehicleModel placedVehicle)
```

Entfernt eine Kachel

**Parameters:**

- placedVehicle -

### addVehicleAt

```
public void addVehicleAt(VehicleModel vehicle,
                          int left,
```

```
int top,  
int rotation)
```

Fügt einer Kachel ein Fahrzeug hinzu

Parameters:

- vehicle -
- left -
- top -
- rotation -

enableTrafficlight

```
public void enableTrafficlight(PlacedTileModel model)
```

Parameters:

- model -

data.datamanager

Class Manager

```
java.lang.Object  
└─ data.datamanager.Manager
```

Direct Known Subclasses:

[WorldManager](#)

```
public abstract class Manager  
extends java.lang.Object
```

Basisklasse aller Manager für Daten

Constructor Summary

[Manager](#)()

Method Summary

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

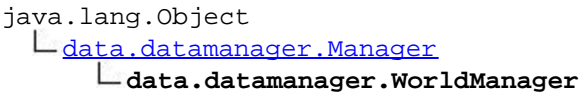
Constructor Detail

Manager

```
public Manager()
```

data.datamanager

# Class WorldManager



```
public class WorldManager
extends Manager
```

Enthält die Logik zum Manipulieren einer World

## Constructor Summary

[WorldManager\(\)](#)

## Method Summary

void	<a href="#">saveWorld</a> ( <a href="#">WorldData</a> world, java.lang.String filename) Speichert eine Welt in die Datei filename
------	--

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

### WorldManager

```
public WorldManager()
```

## Method Detail

### saveWorld

```
public void saveWorld(WorldData world,
                     java.lang.String filename)
```

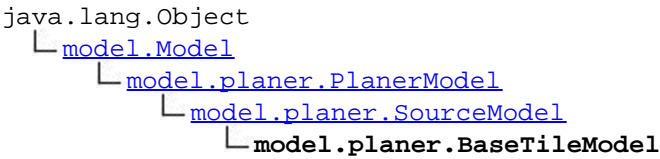
Speichert eine Welt in die Datei filename

**Parameters:**

- world -
- filename -

model.planer

# Class BaseTileModel



## Direct Known Subclasses:

[TileModel](#)

```
public class BaseTileModel
extends SourceModel
```

Model für eine Basis-Kachel ("leere Kachel")

Field Summary	
<div>private</div> <div><a href="#">WorldModel</a></div>	<div><b><a href="#">baseTile</a></b></div>

Constructor Summary	
<div><b><a href="#">BaseTileModel</a></b></div>	<div><b>()</b></div>

Method Summary	
Methods inherited from class model.planer. <a href="#">SourceModel</a>	
<a href="#">getSource</a> , <a href="#">setSource</a>	
Methods inherited from class java.lang.Object	
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait	

Field Detail	
<b>baseTile</b>	
<div>private</div> <div><a href="#">WorldModel</a></div>	<div><b>baseTile</b></div>

Constructor Detail	
--------------------	--

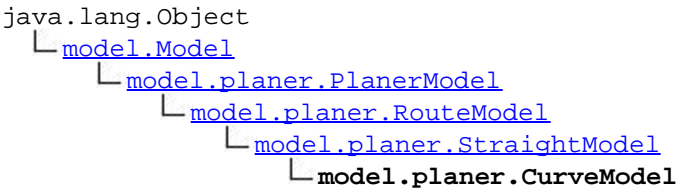
## BaseTileModel



```
public BaseTileModel()
```

model.planer

# Class CurveModel



```
public class CurveModel
extends StraightModel
```

Model für ein Kurvenstück.

## Field Summary

<div>private</div> <div><a href="#">LocationModel</a></div>	<div><a href="#">corner</a></div> <div>"Corner" gibt die Ecke an, um die sich die Kurve bewegt</div>
---	--

## Constructor Summary

<div><a href="#">CurveModel</a></div> <div>()</div>
---

## Method Summary

<div><a href="#">LocationModel</a></div>	<div><a href="#">getCorner</a></div> <div>()</div>
<div>void</div>	<div><a href="#">setCorner</a></div> <div>(<a href="#">LocationModel</a> corner)</div>

### Methods inherited from class model.planer.[RouteModel](#)

<div><a href="#">getEnd</a>, <a href="#">getStart</a>, <a href="#">setEnd</a>, <a href="#">setStart</a></div>
---

### Methods inherited from class java.lang.Object

<div>clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait</div>
---

## Field Detail

### corner

```
private LocationModel corner
```

"Corner" gibt die Ecke an, um die sich die Kurve bewegt

## Constructor Detail

### CurveModel

```
public CurveModel()
```

## Method Detail

### getCorner

```
public LocationModel getCorner()
```

Returns:

### setCorner

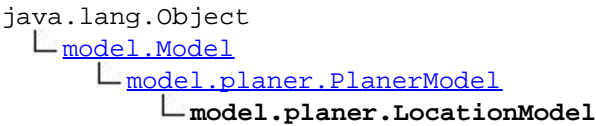
```
public void setCorner(LocationModel corner)
```

Parameters:

corner -

model.planer

## Class LocationModel



```
public class LocationModel
extends PlannerModel
```

Model für ein Start-/Endpunkt eines Strassenstückes.

## Field Summary

private boolean	<a href="#">trafficlight</a>
private java.lang.String	<a href="#">type</a>

## Constructor Summary

```
LocationModel()
```

# Method Summary

java.lang.String	<a href="#">getType</a> ()
boolean	<a href="#">hasTrafficLight</a> ()
boolean	<a href="#">isCenter</a> ()
boolean	<a href="#">isEast</a> ()
boolean	<a href="#">isNorth</a> ()
boolean	<a href="#">isNorthEast</a> ()
boolean	<a href="#">isNorthWest</a> ()
boolean	<a href="#">isSouth</a> ()
boolean	<a href="#">isSouthEast</a> ()
boolean	<a href="#">isSouthWest</a> ()
boolean	<a href="#">isWest</a> ()
void	<a href="#">setType</a> (java.lang.String type)

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# Field Detail

## type

private java.lang.String **type**

## trafficlight

private boolean **trafficlight**

# Constructor Detail

# LocationModel

```
public LocationModel()
```

Method Detail

## getType

```
public java.lang.String getType()
```

## setType

```
public void setType(java.lang.String type)
```

## hasTrafficLight

```
public boolean hasTrafficLight()
```

Returns:

## isNorth

```
public boolean isNorth()
```

Returns:

## isEast

```
public boolean isEast()
```

Returns:

## isSouth

```
public boolean isSouth()
```

Returns:

## isWest

```
public boolean isWest()
```

Returns:

## isCenter

```
public boolean isCenter()
```

Returns:

## isNorthEast

```
public boolean isNorthEast()
```

Returns:

## isSouthEast

```
public boolean isSouthEast()
```

Returns:

## isSouthWest

```
public boolean isSouthWest()
```

Returns:

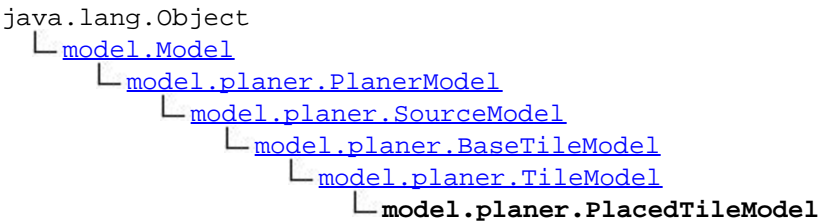
## isNorthWest

```
public boolean isNorthWest()
```

Returns:

model.planer

# Class PlacedTileModel



```
public class PlacedTileModel
extends TileModel
```

Model für eine platzierte Kachel

Field Summary	
private int	<a href="#">left</a>

<code>private <a href="#">PlacedVehicleModel</a>[]</code>	<a href="#">placedVehicles</a>
<code>private int</code>	<a href="#">rotation</a>
<code>private int</code>	<a href="#">top</a>
<code>private boolean</code>	<a href="#">trafficlightEnabled</a>

## Constructor Summary

<a href="#">PlacedTileModel</a> ()
------------------------------------

## Method Summary

<code>void</code>	<a href="#">addVehicle</a> ( <a href="#">PlacedVehicleModel</a> vehicle) Fügt ein Fahrzeug einer Kachel hinzu
<code>int</code>	<a href="#">getLeft</a> ()
<code><a href="#">PlacedVehicleModel</a>[]</code>	<a href="#">getPlacedVehicles</a> ()
<code>int</code>	<a href="#">getRotation</a> ()
<code>int</code>	<a href="#">getTop</a> ()
<code>boolean</code>	<a href="#">isTrafficlightEnabled</a> ()
<code>void</code>	<a href="#">next</a> () Schaltet die Ampel eine Phase weiter
<code>void</code>	<a href="#">removeVehicle</a> ( <a href="#">PlacedVehicleModel</a> vehicle) Lässt ein Fahrzeug aus der Kachel nehmen
<code>void</code>	<a href="#">setLeft</a> (int left)
<code>void</code>	<a href="#">setPlacedVehicles</a> ( <a href="#">PlacedVehicleModel</a> [] placedVehicles)
<code>void</code>	<a href="#">setRotation</a> (int rotation)
<code>void</code>	<a href="#">setTop</a> (int top)
<code>void</code>	<a href="#">setTrafficlightEnabled</a> (boolean trafficlightEnabled)

## Methods inherited from class model.planer.[TileModel](#)

<a href="#">getDescription</a> , <a href="#">getName</a> , <a href="#">getRoutes</a> , <a href="#">hasTrafficlight</a> , <a href="#">setDescription</a> , <a href="#">setName</a> , <a href="#">setRoutes</a>
---

<b>Methods inherited from class model.planer.<a href="#">SourceModel</a></b>
<a href="#">getSource</a> , <a href="#">setSource</a>
<b>Methods inherited from class java.lang.Object</b>
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### left

```
private int left
```

### top

```
private int top
```

### rotation

```
private int rotation
```

### placedVehicles

```
private PlacedVehicleModel[] placedVehicles
```

### trafficlightEnabled

```
private boolean trafficlightEnabled
```

## Constructor Detail

### PlacedTileModel

```
public PlacedTileModel()
```

## Method Detail

### getLeft

```
public int getLeft()
```

### setLeft

```
public void setLeft(int left)
```

---

**getTop**

```
public int getTop()
```

---

**setTop**

```
public void setTop(int top)
```

---

**getRotation**

```
public int getRotation()
```

---

**setRotation**

```
public void setRotation(int rotation)
```

---

**getPlacedVehicles**

```
public PlacedVehicleModel[] getPlacedVehicles()
```

---

**setPlacedVehicles**

```
public void setPlacedVehicles(PlacedVehicleModel[] placedVehicles)
```

---

**isTrafficlightEnabled**

```
public boolean isTrafficlightEnabled()
```

---

**setTrafficlightEnabled**

```
public void setTrafficlightEnabled(boolean trafficlightEnabled)
```

---

**addVehicle**

```
public void addVehicle(PlacedVehicleModel vehicle)
```

Fügt ein Fahrzeug einer Kachel hinzu

**Parameters:**

vehicle -

---

**removeVehicle**



```
public void removeVehicle(PlacedVehicleModel vehicle)
```

Lässt ein Fahrzeug aus der Kachel nehmen

**Parameters:**  
vehicle -

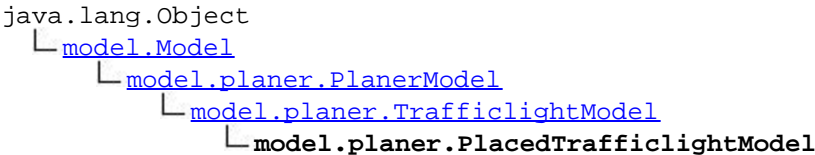
next

```
public void next()
```

Schaltet die Ampel eine Phase weiter

model.planer

Class **PlacedTrafficlightModel**



```
public class PlacedTrafficlightModel
extends TrafficlightModel
```

Model einer platzierten Ampel

Field Summary	
<a href="#">TrafficlightPhase</a>	private <a href="#">phase</a>

Constructor Summary	
<a href="#">PlacedTrafficlightModel</a> ( )	

Method Summary	
<a href="#">TrafficlightPhase</a>	<a href="#">getPhase</a> ( )
java.lang.String	<a href="#">getSourceForCurrentPhase</a> ( ) Gibt die Quelldatei für die aktuelle Phase zurück
java.lang.String	<a href="#">getSourceForPhase</a> ( <a href="#">TrafficlightPhase</a> phase) Gibt die Quelldatei für eine bestimmte Phase zurück
void	<a href="#">setPhase</a> ( <a href="#">TrafficlightPhase</a> phase)

Methods inherited from class model.planer.[TrafficlightModel](#)

[getGreenSource](#), [getOffSource](#), [getRedSource](#), [getRedYellowSource](#), [getYellowSource](#), [setGreenSource](#), [setOffSource](#), [setRedSource](#), [setRedYellowSource](#), [setYellowSource](#)

Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Field Detail

phase

private [TrafficlightPhase](#) phase

Constructor Detail

PlacedTrafficlightModel

public **PlacedTrafficlightModel**()

Method Detail

getPhase

public [TrafficlightPhase](#) **getPhase**()

setPhase

public void **setPhase**([TrafficlightPhase](#) phase)

getSourceForCurrentPhase

public java.lang.String **getSourceForCurrentPhase**()

Gibt die Quelldatei für die aktuelle Phase zurück

**Returns:**

getSourceForPhase

public java.lang.String **getSourceForPhase**([TrafficlightPhase](#) phase)

Gibt die Quelldatei für eine bestimmte Phase zurück

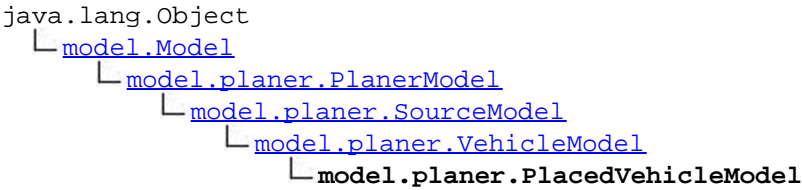
**Parameters:**

phase -

Returns:

model.planer

Class PlacedVehicleModel



```
public class PlacedVehicleModel
extends VehicleModel
```

Model für ein platziertes Fahrzeug

Field Summary	
private int	<a href="#">left</a>
private int	<a href="#">rotation</a>
private <a href="#">PlacedTileModel</a>	<a href="#">tile</a>
private int	<a href="#">top</a>

Constructor Summary	
<a href="#">PlacedVehicleModel</a>	()

Method Summary	
int	<a href="#">getLeft</a> ()
int	<a href="#">getRotation</a> ()
<a href="#">PlacedTileModel</a>	<a href="#">getTile</a> ()
int	<a href="#">getTop</a> ()
void	<a href="#">setLeft</a> (int left)
void	<a href="#">setRotation</a> (int rotation)

void	<a href="#">setTile</a> ( <a href="#">PlacedTileModel</a> tile)
void	<a href="#">setTop</a> (int top)

Methods inherited from class model.planer. <a href="#">VehicleModel</a>
<a href="#">getDescription</a> , <a href="#">getName</a> , <a href="#">getSpeed</a> , <a href="#">setDescription</a> , <a href="#">setName</a> , <a href="#">setSpeed</a>

Methods inherited from class model.planer. <a href="#">SourceModel</a>
<a href="#">getSource</a> , <a href="#">setSource</a>

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### left

private int **left**

### top

private int **top**

### rotation

private int **rotation**

### tile

private [PlacedTileModel](#) **tile**

## Constructor Detail

### PlacedVehicleModel

public **PlacedVehicleModel**()

## Method Detail

### getLeft

```
public int getLeft()
```

---

**setLeft**

```
public void setLeft(int left)
```

---

**getTop**

```
public int getTop()
```

---

**setTop**

```
public void setTop(int top)
```

---

**getRotation**

```
public int getRotation()
```

---

**setRotation**

```
public void setRotation(int rotation)
```

---

**getTile**

```
public PlacedTileModel getTile()
```

---

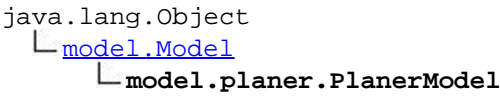
**setTile**

```
public void setTile(PlacedTileModel tile)
```

---

model.planer

**Class PlanerModel**



**Direct Known Subclasses:**

[LocationModel](#), [RouteModel](#), [SourceModel](#), [TrafficlightModel](#), [WorldModel](#)

---

```
public abstract class PlanerModel
extends Model
```

Basisklasse für alle Planer-Models

---

## Constructor Summary

[PlanerModel](#)( )

## Method Summary

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

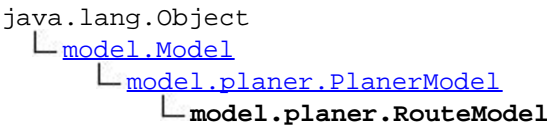
## Constructor Detail

### PlanerModel

```
public PlanerModel()
```

model.planer

## Class RouteModel



Direct Known Subclasses:  
[StraightModel](#)

```
public class RouteModel
extends PlanerModel
```

Model für ein Strassenstück

## Field Summary

private <a href="#">LocationModel</a>	<a href="#">end</a>
private <a href="#">LocationModel</a>	<a href="#">start</a>

## Constructor Summary

[RouteModel](#)( )

## Method Summary

<a href="#">LocationModel</a>	<a href="#">getEnd</a> ( )
<a href="#">LocationModel</a>	<a href="#">getStart</a> ( )
void	<a href="#">setEnd</a> ( <a href="#">LocationModel</a> location)
void	<a href="#">setStart</a> ( <a href="#">LocationModel</a> location)

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### start

```
private LocationModel start
```

### end

```
private LocationModel end
```

## Constructor Detail

### RouteModel

```
public RouteModel()
```

## Method Detail

### getStart

```
public LocationModel getStart()
```

**Returns:**

### setStart

```
public void setStart(LocationModel location)
```

**Parameters:**

location -

## getEnd

```
public LocationModel getEnd()
```

Returns:

## setEnd

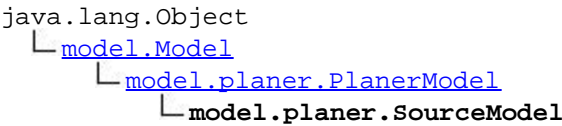
```
public void setEnd(LocationModel location)
```

Parameters:

location -

model.planer

# Class SourceModel



Direct Known Subclasses:

[BaseTileModel](#), [TrashModel](#), [VehicleModel](#)

```
public abstract class SourceModel
extends PlannerModel
```

Basisklasse für alle Models, die eine Quelle besitzen

Field Summary	
private java.lang.String	<a href="#">source</a>

Constructor Summary	
<a href="#">SourceModel</a> ()	

Method Summary	
java.lang.String	<a href="#">getSource</a> ()
void	<a href="#">setSource</a> (java.lang.String source)

Methods inherited from class java.lang.Object



clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### source

```
private java.lang.String source
```

## Constructor Detail

### SourceModel

```
public SourceModel()
```

## Method Detail

### getSource

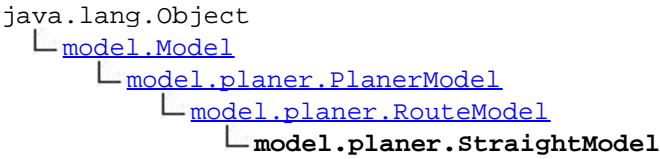
```
public java.lang.String getSource()
```

### setSource

```
public void setSource(java.lang.String source)
```

model.planer

## Class StraightModel



### Direct Known Subclasses:

[CurveModel](#)

```
public class StraightModel
extends RouteModel
```

Model für ein gerades Straßenstück

## Constructor Summary

```
StraightModel( )
```

## Method Summary

Methods inherited from class `model.planer.RouteModel`

[getEnd](#), [getStart](#), [setEnd](#), [setStart](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

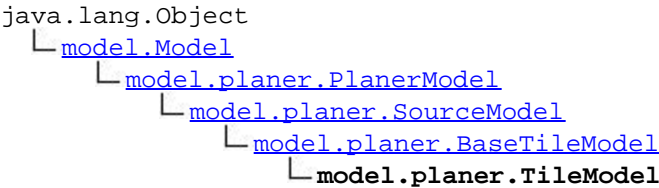
## Constructor Detail

### StraightModel

```
public StraightModel()
```

`model.planer`

## Class TileModel



Direct Known Subclasses:  
[PlacedTileModel](#)

```
public class TileModel
extends BaseTileModel
```

Model für eine Kachel mir Straßen

## Field Summary

<code>private java.lang.String</code>	<a href="#">description</a>
<code>private java.lang.String</code>	<a href="#">name</a>
<code>private java.util.ArrayList&lt;<a href="#">RouteModel</a>&gt;</code>	<a href="#">routes</a>

## Constructor Summary

[TileModel](#)()

--

## Method Summary

java.lang.String	<a href="#">getDescription()</a>
java.lang.String	<a href="#">getName()</a>
<a href="#">RouteModel</a> []	<a href="#">getRoutes()</a>
boolean	<a href="#">hasTrafficlight()</a> Gibt an, ob es eine Ampel-Version dieser Kachel gibt. Leitet sich aus allen Strecken dieser Kachel ab <a href="#">getRoutes()</a> , und ob deren Punkte <a href="#">RouteModel.getStart()</a> , <a href="#">RouteModel.getEnd()</a> eine Ampel haben <a href="#">LocationModel.hasTrafficLight()</a>
void	<a href="#">setDescription</a> (java.lang.String description)
void	<a href="#">setName</a> (java.lang.String name)
void	<a href="#">setRoutes</a> ( <a href="#">RouteModel</a> [] routes)

Methods inherited from class model.planer. <a href="#">SourceModel</a>
<a href="#">getSource</a> , <a href="#">setSource</a>

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### name

private java.lang.String **name**

### description

private java.lang.String **description**

### routes

private java.util.ArrayList<[RouteModel](#)> **routes**

## Constructor Detail

### TileModel

```
public TileModel()
```

Method Detail

getName

```
public java.lang.String getName()
```

setName

```
public void setName(java.lang.String name)
```

getDescription

```
public java.lang.String getDescription()
```

setDescription

```
public void setDescription(java.lang.String description)
```

getRoutes

```
public RouteModel[] getRoutes()
```

Returns:

setRoutes

```
public void setRoutes(RouteModel[] routes)
```

Parameters:

routes -

hasTrafficlight

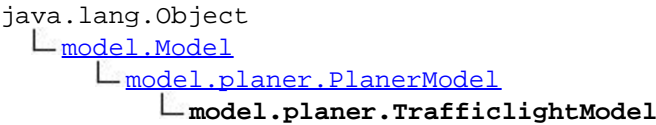
```
public boolean hasTrafficlight()
```

Gibt an, ob es eine Ampel-Version dieser Kachel gibt

Leitet sich aus allen Strecken dieser Kachel ab [getRoutes\(\)](#), und ob deren Punkte [RouteModel.getStart\(\)](#), [RouteModel.getEnd\(\)](#) eine Ampel haben [LocationModel.hasTrafficLight\(\)](#)

Returns:

# Class TrafficlightModel



Direct Known Subclasses:

[PlacedTrafficlightModel](#)

```
public class TrafficlightModel
extends PlanerModel
```

Model einer Ampel

Field Summary	
<div>private</div> <div>java.lang.String</div>	<a href="#">greenSource</a>
<div>private</div> <div>java.lang.String</div>	<a href="#">offSource</a>
<div>private</div> <div>java.lang.String</div>	<a href="#">redSource</a>
<div>private</div> <div>java.lang.String</div>	<a href="#">redYellowSource</a>
<div>private</div> <div>java.lang.String</div>	<a href="#">yellowSource</a>

Constructor Summary	
	<a href="#">TrafficlightModel</a> ( )

Method Summary	
<div>java.lang.String</div>	<a href="#">getGreenSource</a> ( )
<div>java.lang.String</div>	<a href="#">getOffSource</a> ( )
<div>java.lang.String</div>	<a href="#">getRedSource</a> ( )
<div>java.lang.String</div>	<a href="#">getRedYellowSource</a> ( )
<div>java.lang.String</div>	<a href="#">getYellowSource</a> ( )
<div>void</div>	<a href="#">setGreenSource</a> ( java.lang.String greenSource )

void	<a href="#">setOffSource</a> (java.lang.String offSource)
void	<a href="#">setRedSource</a> (java.lang.String redSource)
void	<a href="#">setRedYellowSource</a> (java.lang.String redYellowSource)
void	<a href="#">setYellowSource</a> (java.lang.String yellowSource)

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### offSource

```
private java.lang.String offSource
```

### redSource

```
private java.lang.String redSource
```

### redYellowSource

```
private java.lang.String redYellowSource
```

### greenSource

```
private java.lang.String greenSource
```

### yellowSource

```
private java.lang.String yellowSource
```

## Constructor Detail

### TrafficlightModel

```
public TrafficlightModel()
```

## Method Detail

**getOffSource**

```
public java.lang.String getOffSource()
```

---

**setOffSource**

```
public void setOffSource(java.lang.String offSource)
```

---

**getRedSource**

```
public java.lang.String getRedSource()
```

---

**setRedSource**

```
public void setRedSource(java.lang.String redSource)
```

---

**getRedYellowSource**

```
public java.lang.String getRedYellowSource()
```

---

**setRedYellowSource**

```
public void setRedYellowSource(java.lang.String redYellowSource)
```

---

**getGreenSource**

```
public java.lang.String getGreenSource()
```

---

**setGreenSource**

```
public void setGreenSource(java.lang.String greenSource)
```

---

**getYellowSource**

```
public java.lang.String getYellowSource()
```

---

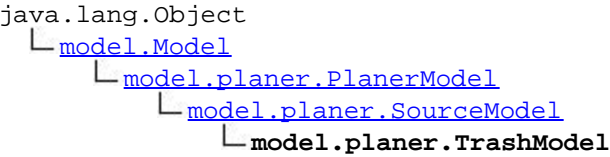
**setYellowSource**

```
public void setYellowSource(java.lang.String yellowSource)
```

---

model.planer

**Class TrashModel**



```
public class TrashModel
extends SourceModel
```

Model für den Mülleimer

Constructor Summary

[TrashModel](#)()

Method Summary

Methods inherited from class `model.planer.SourceModel`  
[getSource](#), [setSource](#)

Methods inherited from class `java.lang.Object`

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

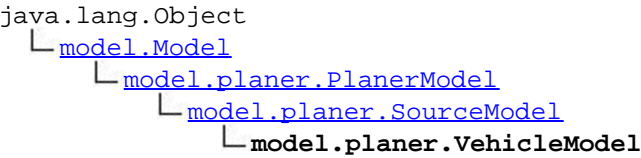
Constructor Detail

TrashModel

```
public TrashModel()
```

model.planer

# Class VehicleModel



Direct Known Subclasses:  
[PlacedVehicleModel](#)

```
public class VehicleModel
extends SourceModel
```

Model für ein Auto



## Field Summary

<code>private java.lang.String</code>	<a href="#">description</a>
<code>private java.lang.String</code>	<a href="#">name</a>
<code>private float</code>	<a href="#">speed</a>

## Constructor Summary

<a href="#">VehicleModel</a> ( )
----------------------------------

## Method Summary

<code>java.lang.String</code>	<a href="#">getDescription</a> ( )
<code>java.lang.String</code>	<a href="#">getName</a> ( )
<code>float</code>	<a href="#">getSpeed</a> ( )
<code>void</code>	<a href="#">setDescription</a> (java.lang.String description)
<code>void</code>	<a href="#">setName</a> (java.lang.String name)
<code>void</code>	<a href="#">setSpeed</a> (float speed)

### Methods inherited from class model.planer.[SourceModel](#)

<a href="#">getSource</a> , <a href="#">setSource</a>
---

### Methods inherited from class java.lang.Object

<code>clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait</code>
---

## Field Detail

### name

`private java.lang.String name`

### description

```
private java.lang.String description
```

---

**speed**

```
private float speed
```

Constructor Detail

**VehicleModel**

```
public VehicleModel()
```

Method Detail

**getName**

```
public java.lang.String getName()
```

---

**setName**

```
public void setName(java.lang.String name)
```

---

**getDescription**

```
public java.lang.String getDescription()
```

---

**setDescription**

```
public void setDescription(java.lang.String description)
```

---

**getSpeed**

```
public float getSpeed()
```

---

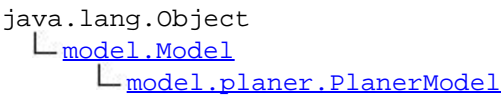
**setSpeed**

```
public void setSpeed(float speed)
```

---

**model.planer**

**Class WorldModel**



```
public class WorldModel
extends PlanerModel
```

Model für eine Welt

Field Summary	
private int	<a href="#">height</a>
java.util.ArrayList< <a href="#">PlacedTileModel</a> >	<a href="#">placedTiles</a>
private java.util.ArrayList< <a href="#">TileModel</a> >	<a href="#">tiles</a>
private java.util.ArrayList< <a href="#">VehicleModel</a> >	<a href="#">vehicles</a>
private int	<a href="#">width</a>

Constructor Summary
<a href="#">WorldModel</a> ()

Method Summary	
void	<a href="#">addPlacedTile</a> ( <a href="#">PlacedTileModel</a> tile)
<a href="#">BaseTileModel</a>	<a href="#">getBasetile</a> ()
int	<a href="#">getHeight</a> ()
<a href="#">PlacedTileModel</a> []	<a href="#">getPlacedTiles</a> ()
<a href="#">TileModel</a> []	<a href="#">getTiles</a> () Gibt die Kacheln einer Welt zurück
<a href="#">VehicleModel</a> []	<a href="#">getVehicles</a> ()
int	<a href="#">getWidth</a> ()
void	<a href="#">removeFromPlacedTiles</a> ( <a href="#">PlacedTileModel</a> tile)
void	<a href="#">removePlacedTile</a> ( <a href="#">PlacedTileModel</a> placedTile) Entfernt die Kachel placedTile aus der Welt
void	<a href="#">setBaseTile</a> ( <a href="#">BaseTileModel</a> baseTile)

void	<a href="#">setHeight</a> (int height)
void	<a href="#">setPlacedTiles</a> ( <a href="#">PlacedTileModel</a> [] placedTiles)
void	<a href="#">setTiles</a> ( <a href="#">TileModel</a> [] tiles)
void	<a href="#">setVehicles</a> ( <a href="#">VehicleModel</a> [] vehicles)
void	<a href="#">setWidth</a> (int width)

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### height

```
private int height
```

### width

```
private int width
```

### vehicles

```
private java.util.ArrayList<VehicleModel> vehicles
```

### placedTiles

```
private java.util.ArrayList<PlacedTileModel> placedTiles
```

### tiles

```
private java.util.ArrayList<TileModel> tiles
```

## Constructor Detail

### WorldModel

```
public WorldModel()
```

# Method Detail

## getHeight

```
public int getHeight()
```

## setHeight

```
public void setHeight(int height)
```

## getWidth

```
public int getWidth()
```

## setWidth

```
public void setWidth(int width)
```

## getBasetile

```
public BaseTileModel getBasetile()
```

Returns:

## setBaseTile

```
public void setBaseTile(BaseTileModel baseTile)
```

Parameters:

baseTile -

## getTiles

```
public TileModel[] getTiles()
```

Gibt die Kacheln einer Welt zurück

Returns:

## setTiles

```
public void setTiles(TileModel[] tiles)
```

Parameters:

tiles -

## getVehicles

```
public VehicleModel[] getVehicles()
```

**Returns:**

---

## setVehicles

```
public void setVehicles(VehicleModel[] vehicles)
```

**Parameters:**

vehicles -

---

## getPlacedTiles

```
public PlacedTileModel[] getPlacedTiles()
```

**Returns:**

---

## setPlacedTiles

```
public void setPlacedTiles(PlacedTileModel[] placedTiles)
```

**Parameters:**

placedTiles -

---

## removeFromPlacedTiles

```
public void removeFromPlacedTiles(PlacedTileModel tile)
```

**Parameters:**

tile -

---

## removePlacedTile

```
public void removePlacedTile(PlacedTileModel placedTile)
```

Entfernt die Kachel placedTile aus der Welt

**Parameters:**

placedTile -

---

## addPlacedTile

```
public void addPlacedTile(PlacedTileModel tile)
```

**Parameters:**

tile -

model

# Class Model

java.lang.Object  
└─model.Model

## Direct Known Subclasses:

[DialogueModel](#), [MenuItemListModel](#), [PlanerModel](#)

```
public abstract class Model
extends java.lang.Object
```

Basisklasse für alle Models

## Constructor Summary

[Model](#)()

## Method Summary

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

### Model

```
public Model()
```

data.datasource.xml

# Class LanguageXMLSource

java.lang.Object  
└─[data.datasource.xml.XMLSource](#)  
└─data.datasource.xml.LanguageXMLSource

```
public class LanguageXMLSource
extends XMLSource
```

XML-Quelle zur Internationalisierung

## Constructor Summary

[LanguageXMLSource](#)()

## Method Summary

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

### LanguageXMLSource

```
public LanguageXMLSource()
```

data.datasource.xml

## Class TileXMLSource

```
java.lang.Object
├── data.datasource.xml.XMLSource
│   └── data.datasource.xml.TileXMLSource
```

```
public class TileXMLSource
extends XMLSource
```

XML-Quelle für Kacheln

## Constructor Summary

[TileXMLSource](#)()

## Method Summary

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

### TileXMLSource



```
public TileXMLSource()
```

data.datasources.xml

# Class WorldXMLSource

```
java.lang.Object
├─ data.datasources.xml.XMLSource
│   └─ data.datasources.xml.WorldXMLSource
```

```
public class WorldXMLSource
extends XMLSource
```

XML-Quelle einer Welt

## Constructor Summary

```
WorldXMLSource()
```

## Method Summary

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

### WorldXMLSource

```
public WorldXMLSource()
```

data.datasources.xml

# Class XMLDataSource

```
java.lang.Object
├─ data.datasources.xml.XMLDataSource
```

### All Implemented Interfaces:

[DataSource](#)

```
public class XMLDataSource
extends java.lang.Object
implements DataSource
```

XML-Datenquelle

## Field Summary

<code>private <a href="#">LanguageXMLSource</a></code>	<code><a href="#">language</a></code>
<code>private <a href="#">TileXMLSource</a></code>	<code><a href="#">tile</a></code>
<code>private <a href="#">WorldXMLSource</a></code>	<code><a href="#">world</a></code>

## Constructor Summary

<code><a href="#">XMLDataSource</a>()</code>
--

## Method Summary

<code><a href="#">TextData</a>[]</code>	<code><a href="#">getTexts</a>(java.lang.String language)</code> Lädt die Texte aus der lang.xml
<code><a href="#">TileData</a>[]</code>	<code><a href="#">getTiles</a>()</code> Lädt die Liste der Kacheln aus der tiles.xml
<code><a href="#">VehicleData</a>[]</code>	<code><a href="#">getVehicles</a>()</code> Lädt die Liste der Fahrzeuge aus der tiles.xml
<code><a href="#">WorldData</a></code>	<code><a href="#">getWorld</a>(java.lang.String filename)</code>
<code>void</code>	<code><a href="#">save</a>(<a href="#">DataObject</a> dataObject)</code> Speichert ein Datenobjekt als XML

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### tile

`private TileXMLSource tile`

### language

`private LanguageXMLSource language`

### world

`private WorldXMLSource world`

## Constructor Detail

### XMLDataSource

```
public XMLDataSource()
```

## Method Detail

### getVehicles

```
public VehicleData[] getVehicles()
```

Lädt die Liste der Fahrzeuge aus der tiles.xml

**Specified by:**

[getVehicles](#) in interface [DataSource](#)

**Returns:**

---

### getTiles

```
public TileData[] getTiles()
```

Lädt die Liste der Kacheln aus der tiles.xml

**Specified by:**

[getTiles](#) in interface [DataSource](#)

**Returns:**

---

### save

```
public void save(DataObject dataObject)
```

Speichert ein Datenobjekt als XML

**Specified by:**

[save](#) in interface [DataSource](#)

**Parameters:**

dataObject -

---

### getWorld

```
public WorldData getWorld(java.lang.String filename)
```

**Specified by:**

[getWorld](#) in interface [DataSource](#)

**Parameters:**

filename -

Returns:

getTexts

```
public TextData[] getTexts(java.lang.String language)
```

Lädt die Texte aus der lang.xml

Specified by:

[getTexts](#) in interface [DataSource](#)

Parameters:

language -

Returns:

data.datasources.xml

Class XMLSource

```
java.lang.Object
└─ data.datasources.xml.XMLSource
```

Direct Known Subclasses:

[LanguageXMLSource](#), [TileXMLSource](#), [WorldXMLSource](#)

```
public abstract class XMLSource
extends java.lang.Object
```

Basisklasse aller XML-Quellen

Constructor Summary

[XMLSource](#)()

Method Summary

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

XMLSource

```
public XMLSource()
```

data

# Class DataFactory

java.lang.Object  
└─ data.DataFactory

## All Implemented Interfaces:

[DataSource](#)

public abstract class **DataFactory**  
extends java.lang.Object  
implements [DataSource](#)

Erzeugt [DataObject](#)

Field Summary	
<div>private</div> <a href="#">DataSource</a>	<a href="#">dataSource</a>

Constructor Summary	
<a href="#">DataFactory</a>	()

Method Summary	
<a href="#">BaseTileData</a>	<a href="#">getBaseTile</a> () Gibt die Standard-Basiskacheln zurück
<a href="#">DataSource</a>	<a href="#">getDataSource</a> ()
<a href="#">WorldData</a>	<a href="#">getNewWorld</a> (int maxHorTiles, int maxVerTiles) Erzeugt ein neues Welt-Objekt mit der angegeben Breite und Höhe in Kacheln
<a href="#">TextData</a>	<a href="#">getText</a> (java.lang.String id, java.lang.String language) Gibt den übersetzten Text mit der ID id zurück
<a href="#">TextData[]</a>	<a href="#">getTexts</a> (java.lang.String language) Gibt die (übersetzten Texte zurück)
<a href="#">TileData[]</a>	<a href="#">getTiles</a> () Gibt die Standard-Liste mit allen Kacheln zurück
<a href="#">TrafficlightData</a>	<a href="#">getTrafficlight</a> () Gibt die Standard-Ampel zurück
<a href="#">VehicleData[]</a>	<a href="#">getVehicles</a> () Gibt die Standard-Liste mit allen Fahrzeugen zurück
<a href="#">WorldData</a>	<a href="#">getWorld</a> (java.lang.String filename)
	void

	<a href="#">save</a> ( <a href="#">DataObject</a> dataObject) Speichert ein Daten-Objekt
void	<a href="#">setDataSource</a> ( <a href="#">DataSource</a> dataSource)

<b>Methods inherited from class java.lang.Object</b>
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### dataSource

private [DataSource](#) dataSource

## Constructor Detail

### DataFactory

public **DataFactory**()

## Method Detail

### getDataSource

public [DataSource](#) getDataSource()

### setDataSource

public void **setDataSource**([DataSource](#) dataSource)

### getVehicles

public [VehicleData](#)[] **getVehicles**()

Gibt die Standard-Liste mit allen Fahrzeugen zurück

**Specified by:**  
[getVehicles](#) in interface [DataSource](#)

**Returns:**

### getTiles

public [TileData](#)[] **getTiles**()

Gibt die Standard-Liste mit allen Kacheln zurück

**Specified by:**

[getTiles](#) in interface [DataSource](#)

**Returns:**

---

## save

```
public void save(DataObject dataObject)
```

Speichert ein Daten-Objekt

**Specified by:**

[save](#) in interface [DataSource](#)

**Parameters:**

dataObject -

---

## getNewWorld

```
public WorldData getNewWorld(int maxHorTiles,  
                               int maxVerTiles)
```

Erzeugt ein neues Welt-Objekt mit der angegeben Breite und Höhe in Kacheln

**Parameters:**

maxHorTiles -

maxVerTiles -

**Returns:**

---

## getBaseTile

```
public BaseTileData getBaseTile()
```

Gibt die Standard-Basiskacheln zurück

**Returns:**

---

## getTrafficlight

```
public TrafficlightData getTrafficlight()
```

Gibt die Standard-Ampel zurück

**Returns:**

---

## getTexts

```
public TextData[] getTexts(java.lang.String language)
```

Gibt die (übersetzten Texte zurück)

**Specified by:**

[getTexts](#) in interface [DataSource](#)

**Parameters:**

language -

**Returns:**

---

**getText**

```
public TextData getText( java.lang.String id,
                        java.lang.String language)
```

Gibt den übersetzten Text mit der ID id zurück

**Parameters:**

id -

language -

**Returns:**

---

**getWorld**

```
public WorldData getWorld( java.lang.String filename)
```

**Specified by:**

[getWorld](#) in interface [DataSource](#)

**Parameters:**

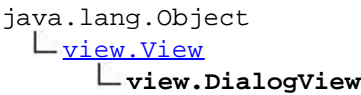
filename -

**Returns:**

---

view

**Class DialogView**



**Direct Known Subclasses:**

[ErrorDialogueView](#), [HelpDialogueView](#), [LoadDialogueView](#), [NewDialogueView](#)

---

```
public abstract class DialogView
extends View
```

Basisklasse für Dialoge

---

Field Summary	
private	



<div>int</div>	<div><div><a href="#">height</a></div><div>Höhe des Dialoges in Prozent</div></div>
<div><div>private</div><div>boolean</div></div>	<div><div><a href="#">visible</a></div></div>
<div><div>private</div><div>int</div></div>	<div><div><div><a href="#">width</a></div><div>Breite des Dialoges in Prozent</div></div></div>

## Constructor Summary

[DialogView](#)( )

## Method Summary

<div>int</div>	<div><div><a href="#">getHeight</a>( )</div></div>
<div>int</div>	<div><div><a href="#">getWidth</a>( )</div></div>
<div>void</div>	<div><div><div><a href="#">hide</a>( )</div><div>Verbirgt den Dialog</div></div></div>
<div>boolean</div>	<div><div><a href="#">isVisible</a>( )</div></div>
<div>void</div>	<div><div><a href="#">setHeight</a>(int height)</div></div>
<div>void</div>	<div><div><a href="#">setVisible</a>(boolean visible)</div></div>
<div>void</div>	<div><div><a href="#">setWidth</a>(int width)</div></div>
<div>void</div>	<div><div><div><a href="#">show</a>( )</div><div>Zeigt den Dialog an</div></div></div>

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### visible

private boolean **visible**

### width

private int **width**

Breite des Dialoges in Prozent

---

## height

```
private int height
```

Höhe des Dialoges in Prozent

Constructor Detail

## DialogView

```
public DialogView()
```

Method Detail

## isVisible

```
public boolean isVisible()
```

## setVisible

```
public void setVisible(boolean visible)
```

## getWidth

```
public int getWidth()
```

## setWidth

```
public void setWidth(int width)
```

## getHeight

```
public int getHeight()
```

## setHeight

```
public void setHeight(int height)
```

## show

```
public void show()
```

Zeigt den Dialog an

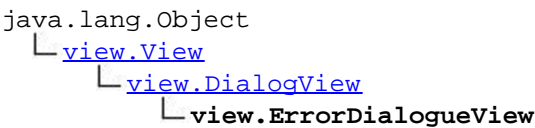
hide

```
public void hide()
```

Verbirgt den Dialog

view

Class **ErrorDialogView**



```
public class ErrorDialogView
extends DialogView
```

View für den Fehler-Dialog

Field Summary	
<div>private</div> <a href="#">ErrorDialogueModel</a>	<a href="#">model</a>

Constructor Summary	
<a href="#">ErrorDialogView</a> ()	

Method Summary	
void	<a href="#">setModel</a> ( <a href="#">ErrorDialogueModel</a> model)

Methods inherited from class view. <a href="#">DialogView</a>	
<a href="#">getHeight</a> , <a href="#">getWidth</a> , <a href="#">hide</a> , <a href="#">isVisible</a> , <a href="#">setHeight</a> , <a href="#">setVisible</a> , <a href="#">setWidth</a> , <a href="#">show</a>	

Methods inherited from class java.lang.Object	
<a href="#">clone</a> , <a href="#">equals</a> , <a href="#">finalize</a> , <a href="#">getClass</a> , <a href="#">hashCode</a> , <a href="#">notify</a> , <a href="#">notifyAll</a> , <a href="#">toString</a> , <a href="#">wait</a> , <a href="#">wait</a> , <a href="#">wait</a>	

Field Detail

model

```
private ErrorDialogueModel model
```

# Constructor Detail

## ErrorDialogueView

```
public ErrorDialogueView()
```

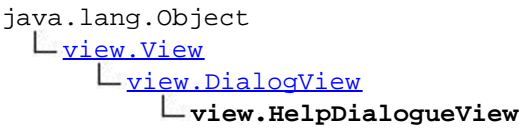
# Method Detail

## setModel

```
public void setModel(ErrorDialogueModel model)
```

view

## Class HelpDialogueView



```
public class HelpDialogueView
extends DialogView
```

View für den Hilfe-Dialog

# Field Summary

<div>private</div> <div><a href="#">HelpDialogueModel</a></div>	<div><a href="#">model</a></div>
---	----------------------------------

# Constructor Summary

```
HelpDialogueView()
```

# Method Summary

<div>void</div>	<div><a href="#">setModel</a>(<a href="#">HelpDialogueModel</a> model)</div>
-----------------	--

## Methods inherited from class view.[DialogView](#)

[getHeight](#), [getWidth](#), [hide](#), [isVisible](#), [setHeight](#), [setVisible](#), [setWidth](#), [show](#)

## Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

## Field Detail

### model

```
private HelpDialogueModel model
```

## Constructor Detail

### HelpDialogueView

```
public HelpDialogueView()
```

## Method Detail

### setModel

```
public void setModel(HelpDialogueModel model)
```

view

## Class LoadDialogueView

```
java.lang.Object
├── view.View
│   ├── view.DialogView
│   │   └── view.LoadDialogueView
```

```
public class LoadDialogueView
extends DialogView
```

View für den Welt-Laden-Dialog

## Field Summary

<pre>private <a href="#">LoadDialogueModel</a></pre>	<pre><a href="#">model</a></pre>
--	----------------------------------

## Constructor Summary

```
LoadDialogueView( )
```

## Method Summary

<pre>void</pre>	<pre><a href="#">setModel</a>(<a href="#">LoadDialogueModel</a> model)</pre>
-----------------	--

--	--

Methods inherited from class <a href="#">view.DialogView</a>
<a href="#">getHeight</a> , <a href="#">getWidth</a> , <a href="#">hide</a> , <a href="#">isVisible</a> , <a href="#">setHeight</a> , <a href="#">setVisible</a> , <a href="#">setWidth</a> , <a href="#">show</a>

Methods inherited from class <a href="#">java.lang.Object</a>
<a href="#">clone</a> , <a href="#">equals</a> , <a href="#">finalize</a> , <a href="#">getClass</a> , <a href="#">hashCode</a> , <a href="#">notify</a> , <a href="#">notifyAll</a> , <a href="#">toString</a> , <a href="#">wait</a> , <a href="#">wait</a> , <a href="#">wait</a>

## Field Detail

### model

private [LoadDialogueModel](#) **model**

## Constructor Detail

### LoadDialogueView

public **LoadDialogueView**()

## Method Detail

### setModel

public void **setModel**([LoadDialogueModel](#) model)

view

## Class MenuView

java.lang.Object  
└─ [view.View](#)  
    └─ **view.MenuView**

public class **MenuView**  
extends [View](#)

View für das Menü

Field Summary
<div><div>private</div><div><a href="#">MenuItemListModel</a> <b>model</b></div></div>

## Constructor Summary

[MenuView](#)()

Method Summary

void	<a href="#">setModel</a> ( <a href="#">MenuItemListModel</a> model)
------	---

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

model

private [MenuItemListModel](#) model

Constructor Detail

MenuView

public **MenuView**()

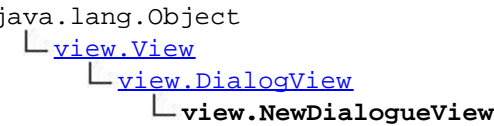
Method Detail

setModel

public void **setModel**([MenuItemListModel](#) model)

view

Class NewDialogueView



```
public class NewDialogueView
extends DialogView
```

View für den Neue-Welt-Dialog

Field Summary

private	<a href="#">_____</a>
---------	-----------------------

<a href="#">NewDialogueModel</a>	<code>model</code>
----------------------------------	--------------------

## Constructor Summary

[NewDialogueView](#)()

## Method Summary

<code>void</code>	<a href="#">setModel</a> ( <a href="#">NewDialogueModel</a> model)
-------------------	--

Methods inherited from class `view.DialogView`

[getHeight](#), [getWidth](#), [hide](#), [isVisible](#), [setHeight](#), [setVisible](#), [setWidth](#), [show](#)

Methods inherited from class `java.lang.Object`

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

## Field Detail

### model

`private NewDialogueModel model`

## Constructor Detail

### NewDialogueView

`public NewDialogueView()`

## Method Detail

### setModel

`public void setModel(NewDialogueModel model)`

`view`

## Class SaveDialogueView

`java.lang.Object`  
└─ `view.SaveDialogueView`

`public class SaveDialogueView`



extends java.lang.Object

View für den Welt-Speichern-Dialog

## Field Summary

<code>private <a href="#">SaveDialogueModel</a></code>	<code><a href="#">model</a></code>
--	------------------------------------

## Constructor Summary

<code><a href="#">SaveDialogueView</a>()</code>
---

## Method Summary

<code>java.lang.String</code>	<code><a href="#">getFilename</a>()</code> Gibt den ausgewählten Dateinamen zurück
<code>void</code>	<code><a href="#">setModel</a>(<a href="#">SaveDialogueModel</a> model)</code>

### Methods inherited from class java.lang.Object

<code>clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait</code>
---

## Field Detail

### model

`private SaveDialogueModel model`

## Constructor Detail

### SaveDialogueView

`public SaveDialogueView()`

## Method Detail

### setModel

`public void setModel(SaveDialogueModel model)`

### getFilename

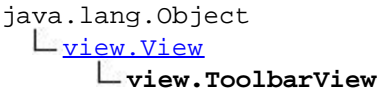
`public java.lang.String getFilename()`

Gibt den ausgewählten Dateinamen zurück

Returns:

view

# Class ToolbarView



```
public class ToolbarView
extends View
```

View für die Werkzeugleiste

Field Summary	
<div>private</div> <div><a href="#">TileModel</a>[]</div>	<a href="#">tiles</a>
<div>private</div> <div><a href="#">TrashModel</a></div>	<a href="#">trash</a>
<div>private</div> <div><a href="#">VehicleModel</a>[]</div>	<a href="#">vehicles</a>

Constructor Summary	
<a href="#">ToolbarView</a> ( )	

Method Summary	
<div>void</div>	<a href="#">setTiles</a> ( <a href="#">TileModel</a> [] tiles)
<div>void</div>	<a href="#">setTrash</a> ( <a href="#">TrashModel</a> trash)
<div>void</div>	<a href="#">setVehicles</a> ( <a href="#">VehicleModel</a> [] vehicles)

Methods inherited from class java.lang.Object	
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait	

## Field Detail

trash

```
private TrashModel trash
```

tiles

```
private TileModel[] tiles
```

vehicles

```
private VehicleModel[] vehicles
```

Constructor Detail

ToolBarView

```
public ToolbarView()
```

Method Detail

setTrash

```
public void setTrash(TrashModel trash)
```

setTiles

```
public void setTiles(TileModel[] tiles)
```

setVehicles

```
public void setVehicles(VehicleModel[] vehicles)
```

view

Class View

```
java.lang.Object
└─view.View
```

Direct Known Subclasses:

[AppView](#), [DialogView](#), [MenuView](#), [ToolBarView](#), [WorldTileView](#), [WorldView](#)

```
public abstract class View
extends java.lang.Object
```

Basisklasse für alle Views

# Constructor Summary

[View\(\)](#)

# Method Summary

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

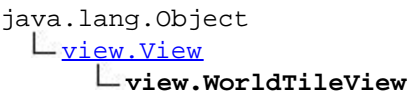
# Constructor Detail

## View

```
public View()
```

view

# Class WorldTileView



```
public class WorldTileView
extends View
```

## Verwaltet die Ansicht der einzelnen Kacheln

Wenn die Ampel-Version der Kachel aktiv ist [PlacedTileModel.isTrafficlightEnabled\(\)](#) werden zu allen Strecken [TileModel.getRoutes\(\)](#), die über eine Ampel verfügen [LocationModel.hasTrafficLight\(\)](#) Ampeln gezeichnet.

Dies geschieht, in dem in Fahrtrichtung Rechts neben den Endpunkt einer Strecke [RouteModel](#) die Ampel in der jeweils aktuellen Phase [PlacedTrafficlightModel.getPhase\(\)](#) eine Grafik gezeichnet wird [PlacedTrafficlightModel.getSourceForCurrentPhase\(\)](#).

# Field Summary

private <a href="#">PlacedTileModel</a>	<a href="#">model</a>
private <a href="#">PlacedTrafficlightModel</a> []	<a href="#">trafficLights</a>
private <a href="#">WorldView</a>	<a href="#">world</a>

## Constructor Summary

[WorldTileView](#)()

## Method Summary

<a href="#">PlacedTileModel</a>	<a href="#">getModel</a> ()
<a href="#">WorldView</a>	<a href="#">getWorld</a> ()
void	<a href="#">setModel</a> ( <a href="#">PlacedTileModel</a> model)
void	<a href="#">setWorld</a> ( <a href="#">WorldView</a> world)

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### world

private [WorldView](#) world

### model

private [PlacedTileModel](#) model

### trafficLights

private [PlacedTrafficlightModel](#)[] trafficLights

## Constructor Detail

### WorldTileView

public **WorldTileView**()

## Method Detail

### getWorld

public [WorldView](#) ()

`getWorld`

**setWorld**

```
public void setWorld(WorldView world)
```

**getModel**

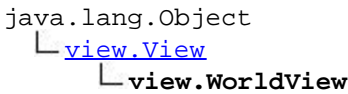
```
public PlacedTileModel getModel()
```

**setModel**

```
public void setModel(PlacedTileModel model)
```

view

**Class WorldView**



```
public class WorldView
extends View
```

Verwaltet die Kartenansicht

Field Summary	
private int	<a href="#">height</a>
private <a href="#">WorldModel</a>	<a href="#">model</a>
private <a href="#">WorldTileView</a> []	<a href="#">tiles</a>
private int	<a href="#">width</a>

Constructor Summary	
<a href="#">WorldView</a>	()

Method Summary	
int	<a href="#">getHeight</a> ()

<a href="#">WorldModel</a>	<a href="#">getModel()</a>
int	<a href="#">getWidth()</a>
void	<a href="#">setHeight</a> (int height)
void	<a href="#">setModel</a> ( <a href="#">WorldModel</a> model)
void	<a href="#">setWidth</a> (int width)

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### width

private int **width**

### height

private int **height**

### model

private [WorldModel](#) **model**

### tiles

private [WorldTileView](#)[] **tiles**

## Constructor Detail

### WorldView

public **WorldView**()

## Method Detail

### getWidth

```
public int getWidth()
```

---

## **setWidth**

```
public void setWidth(int width)
```

---

## **getHeight**

```
public int getHeight()
```

---

## **setHeight**

```
public void setHeight(int height)
```

---

## **getModel**

```
public WorldModel getModel()
```

---

## **setModel**

```
public void setModel(WorldModel model)
```

---