My Project

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

Chapter 2

Class Index

2.1 Class List

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

Chapter 3

File Index

3.1 File List

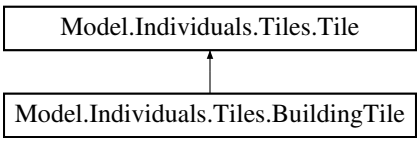
Here is a list of all documented files with brief descriptions:

Chapter 4

Class Documentation

4.1 Model.Individuals.Tiles.BuildingTile Class Reference

Inheritance diagram for Model.Individuals.Tiles.BuildingTile:



Public Member Functions

- **BuildingTile** (int nCitycents)
- BuildingTile makeCopy ()
- int **getCITIZENS** ()
- int getValue (TileType type)
- String toString ()

Public Member Functions inherited from Model.Individuals.Tiles.Tile

- int **getValue** ()
- boolean **isVoid** ()
- boolean **isBuilding** ()
- boolean **isPark** ()
- boolean **isRoad** ()
- boolean **canBuild** ()

Static Public Attributes

- static final int **MAXCITIZEN** = 100
- static final int **MINCITIZEN** = 5

Static Public Attributes inherited from Model.Individuals.Tiles.Tile

- static int **NOVALUETILE** = 0

4.1.1 Detailed Description

Author

gabriel

4.1.2 Member Function Documentation

4.1.2.1 getValue()

```
int Model.Individuals.Tiles.BuildingTile.getValue (
            TileType type )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.1.2.2 makeCopy()

```
BuildingTile Model.Individuals.Tiles.BuildingTile.makeCopy ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.1.2.3 toString()

```
String Model.Individuals.Tiles.BuildingTile.toString ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

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

- src/Model/Individuals/Tiles/BuildingTile.java

4.2 Model.CityParameters Class Reference

Class containing parameters for inizalitation of cities.

Public Member Functions

- **CityParameters** (int s, int rd, int bd, int ps, int pp)
- int **getSize** ()
- int **getRoadDensity** ()
- int **getBuildingDensity** ()
- int **getParkSpreadness** ()
- int **getParksPercentage** ()

Static Public Attributes

- static final int **DEFAULTSIZE** = 200
- static final int **MINSIZE** = 10
- static final int **MAXSIZE** = 400
- static final int **NEIGHBORHOODSIZE** = 50
- static int **MINPERCENTAGEOFPARKS**
- static int **MAXPERCENTAGEOFPARKS**
- static final int **PERCENTAGERANGE** = 1
- static final int **DEFPARKSPARCENTAGE** = 7
- static final int **MINSEPARATIONOFROADS** = 4
- static final int **MINROADDENSITY** = 1
- static final int **DEFROADDENSITY** = 20
- static final int **MAXROADDENSITY** = 50
- static final int **MINBUILDINGDENSITY** = 10
- static final int **DEFBUILDINGDENSITY** = 70
- static final int **MAXBUILDINGDENSITY** = 100
- static final int **MAXBUILDINGSIZE** = MINSEPARATIONOFROADS $*$ 2
- static final int **MINBUILDINGSIZE** = MINSEPARATIONOFROADS / 2
- static int **DEFPARKSPREADNESS** = 1
- static int **MAXPARKSPREADNESS** = 1000
- static int **MINPARKSPREADNESS** = 1
- static int **STOPTRYSPAND** = 100

4.2.1 Detailed Description

Class containing parameters for inizalitation of cities.

Author

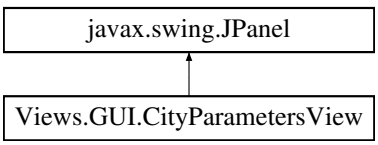
gabriel

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

- src/Model/CityParameters.java

4.3 Views.GUI.CityParametersView Class Reference

Inheritance diagram for Views.GUI.CityParametersView:



Public Member Functions

- CityParametersView ()
- int **getCitySizeValue** ()
- int **getRoadDensity** ()
- int **getBuildingDensity** ()
- int **getParkSpreadness** ()
- int **getParksPercentage** ()

4.3.1 Detailed Description

Author

gabriel

4.3.2 Constructor & Destructor Documentation

4.3.2.1 CityParametersView()

```
Views.GUI.CityParametersView.CityParametersView ( )  [inline]
```

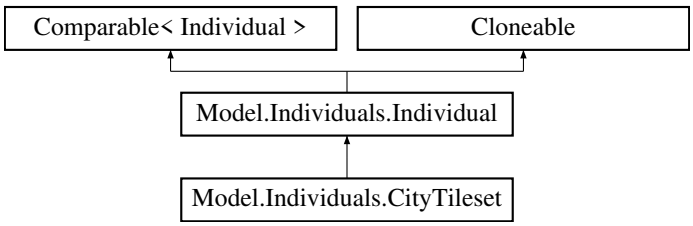
Creates new form CityParametersView

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

- src/Views/GUI/CityParametersView.java

4.4 Model.Individuals.CityTileset Class Reference

Inheritance diagram for Model.Individuals.CityTileset:



Public Member Functions

- **CityTileset** (int size)
- **CityTileset** (CityTileset cp)
- **CityTileset** (ArrayList< ArrayList< Tile > > tiles)
- Position **getMaxPark** ()
- int **getDisponibleTiles** ()
- void **setDisponibleTiles** (int i)
- double **getPercentageOfParks** ()
- int **getFreeTiles** ()
- void **setFreeTiles** (int ft)
- int **getId** ()
- int **getNparkTiles** ()
- Position **getParkTile** (int i)
- List< Position > **getArrayOfParkPositions** ()
- Tile **getTile** (Position pos)
- Tile **getTile** (int x, int y)
- ArrayList< ArrayList< Tile > > **getTiles** (Position topLeft, Position botRight)
- ArrayList< ArrayList< Tile > > **getNeighborhoodTiles** (Position pos)
- void **setTiles** (Position topLeft, ArrayList< ArrayList< Tile > > tiles)
- int **getSize** ()
- int **getNNeighborhood** ()
- int **getNeighborhoodNParks** (Position pos)
- boolean **NewParkTile** (Position pos)
- boolean **NewParkTile** (Position pos, Position neighbour)
- int **getValueOfPark** (Position pos)
- void **removeParkTile** (Position pos)
- boolean **extendPark** (Position pos)
- void **NewBuildingTile** (Position pos)
- void **NewBuildingTile** (Position pos, Tile bt)
- boolean **canBuild** (Position pos)
- void **NewRoadTile** (Position pos)
- String toString ()

Public Member Functions inherited from Model.Individuals.Individual

- double **getFitness** ()
- void **setFitness** (double fitness)
- int **compareTo** (Individual other)
- Individual **clone** () throws CloneNotSupportedException

Additional Inherited Members

Protected Attributes inherited from Model.Individuals.Individual

- double **fitness**

4.4.1 Detailed Description

Author

Gabriel Sanchez

4.4.2 Member Function Documentation

4.4.2.1 toString()

```
String Model.Individuals.CityTileset.toString ( )  [inline]
```

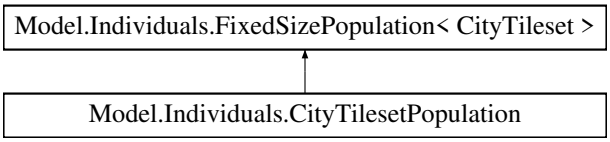
Reimplemented from Model.Individuals.Individual.

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

- src/Model/Individuals/CityTileset.java

4.5 Model.Individuals.CityTilesetPopulation Class Reference

Inheritance diagram for Model.Individuals.CityTilesetPopulation:



Public Member Functions

- **CityTilesetPopulation** (long id, int maxSize)
- int **getMaxParkValue** ()
- List< CityTileset > **sortPopulationByFitness** ()

Public Member Functions inherited from Model.Individuals.FixedSizePopulation< CityTileset >

- **FixedSizePopulation** (long id, int maxSize)
- int **getMaxSize** ()
- boolean **add** (T individual)

Additional Inherited Members

Static Public Attributes inherited from Model.Individuals.FixedSizePopulation< CityTileset >

- static final int **MAXSIZE**
- static final int **MINSIZE**

4.5.1 Detailed Description

Author

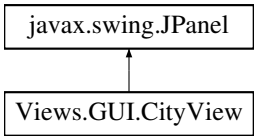
gabriel

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

- src/Model/Individuals/CityTilesetPopulation.java

4.6 Views.GUI.CityView Class Reference

Inheritance diagram for Views.GUI.CityView:



Public Member Functions

- CityTileset **getCt** ()
- BufferedImage **createCityImage** (CityTileset ct, int aumFactor)
- BufferedImage **createCityImage** (CityTileset ct)
- void **updateView** ()

4.6.1 Detailed Description

Author

gabriel

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

- src/Views/GUI/CityView.java

4.7 Model.Inicializer.CloseToBuildingsParkInicializer Class Reference

Public Member Functions

- void **Inicialize** ()

4.7.1 Detailed Description

Author

gabriel

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

- src/Model/Inicializer/CloseToBuildingsParkInicializer.java

4.8 Model.operators.crossover.CrossoverController Class Reference

Public Member Functions

- **CrossoverController** (ModelParameters mp)
- Population< CityTileset > **apply** (CityTilesetPopulation pop)

Static Public Attributes

- static int **REPETITIONS** = 2

4.8.1 Detailed Description

Author

gabriel

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

- src/Model/operators/crossover/CrossoverController.java

4.9 Model.operators.crossover.CrossoverOperator< T extends Individual > Class Template Reference

Classes

- class **Pairing**

Protected Member Functions

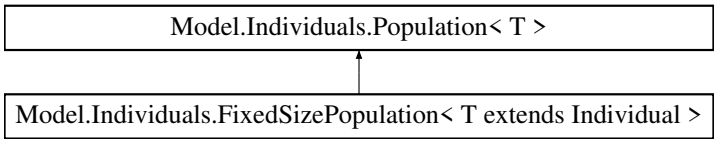
- ArrayList< Pairing > **makeRandomPairings** (Population< T > population)

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

- src/Model/operators/crossover/CrossoverOperator.java

4.10 Model.Individuals.FixedSizePopulation< T extends Individual > Class Template Reference

Inheritance diagram for Model.Individuals.FixedSizePopulation< T extends Individual >:



Public Member Functions

- **FixedSizePopulation** (long id, int maxSize)
- int **getMaxSize** ()
- boolean **add** (T individual)

Public Member Functions inherited from Model.Individuals.Population< T >

- **Population** (long id)
- **Population** (Population p)
- long **getId** ()
- void **setId** (long id)
- T **getBestIndividual** ()
- void **setBestIndividual** (T bestIndividual)
- double **getAverageFitness** ()
- ArrayList< T > **getArrayList** ()
- int **compareTo** (Population other)
- Population< T > **clone** ()
- boolean **equals** (Object o)
- int **hashCode** ()

Static Public Attributes

- static final int **MAXSIZE** = 500
- static final int **MINSIZE** = 2

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

- src/Model/Individuals/FixedSizePopulation.java

4.11 Model.operators.crossover.GeometricalCrossover Class Reference

Public Member Functions

- void **apply** ()

4.11.1 Detailed Description

Author

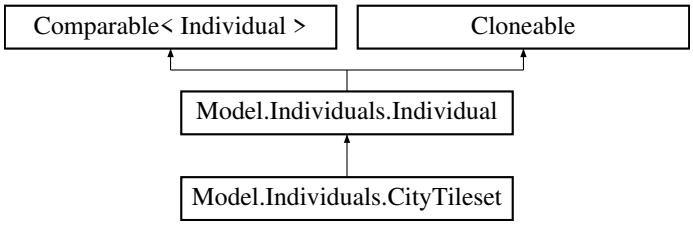
gabriel

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

- src/Model/operators/crossover/GeometricalCrossover.java

4.12 Model.Individuals.Individual Class Reference

Inheritance diagram for Model.Individuals.Individual:



Public Member Functions

- double **getFitness** ()
- void **setFitness** (double fitness)
- int **compareTo** (Individual other)
- Individual **clone** () throws CloneNotSupportedException
- String **toString** ()

Protected Attributes

- double **fitness**

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

- src/Model/Individuals/Individual.java

4.13 Model.Inicializer.InicializerController Class Reference

Public Member Functions

- **InicializerController** (CityParameters _cp, ModelParameters _mp)
- CityTilesetPopulation **Inicialize** ()
- CityTilesetPopulation **InicializeCities** ()

4.13.1 Detailed Description

Author

gabriel

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

- src/Model/Inicializer/InicializerController.java

4.14 Model.operators.selection.KWayTournamentSelection Class Reference

Public Member Functions

- void **apply** ()

4.14.1 Detailed Description

Author

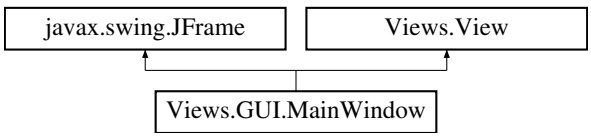
gabriel

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

- src/Model/operators/selection/KWayTournamentSelection.java

4.15 Views.GUI.MainWindow Class Reference

Inheritance diagram for Views.GUI.MainWindow:



Public Member Functions

- void updateView ()
- void **setPopulationCT** (Population< CityTileset > p)
- void showView ()
- String getAppName ()

4.15.1 Detailed Description

Author

gabriel

4.15.2 Member Function Documentation

4.15.2.1 getAppName()

```
String Views.GUI.MainWindow.getAppName ( )  [inline]
```

Implements Views.View.

4.15.2.2 showView()

```
void Views.GUI.MainWindow.showView ( )  [inline]
```

Implements Views.View.

4.15.2.3 updateView()

```
void Views.GUI.MainWindow.updateView ( )  [inline]
```

Implements Views.View.

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

- src/Views/GUI/MainWindow.java

4.16 Model.ModelParameters Class Reference

Public Member Functions

- **ModelParameters** (int popSize, int moneyPond)
- int **getPOPULATIONSIZE** ()
- int **getMONEYPONDERATION** ()
- double **getCROSSOVERPROB** ()
- int **getCROSSOVERINTENSITY** ()
- boolean **getUSEELITISM** ()
- boolean **getUSETRUNCATE** ()
- double **getTRUNCATESIZE** ()

4.16.1 Detailed Description

Author

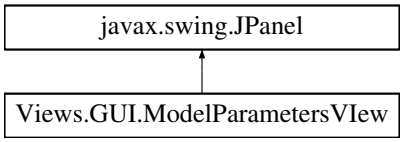
gabriel

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

- src/Model/ModelParameters.java

4.17 Views.GUI.ModelParametersVIew Class Reference

Inheritance diagram for Views.GUI.ModelParametersVIew:



Public Member Functions

- ModelParametersVIew ()
- int **getPopSizeValue** ()
- int **getMoneyPonderationValue** ()

4.17.1 Detailed Description

Author

gabriel

4.17.2 Constructor & Destructor Documentation

4.17.2.1 ModelParametersVIew()

```
Views.GUI.ModelParametersVIew.ModelParametersVIew ( )  [inline]
```

Creates new form ModelParametersVIew

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

- src/Views/GUI/ModelParametersVIew.java

4.18 Model.fitness.MoneyFunction Class Reference

Static Public Member Functions

- static double **Evaluate** (CityTileset city)

4.18.1 Detailed Description

Author

gabriel

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

- src/Model/fitness/MoneyFunction.java

4.19 Model.operators.mutation.MutationController Class Reference

Public Member Functions

- void **apply** (Population< CityTileset > pop)

4.19.1 Detailed Description

Author

gabriel

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

- src/Model/operators/mutation/MutationController.java

4.20 Model.Individuals.Neighborhood Class Reference

Static Public Attributes

- static final int **DEFAULTMAXPARKS** = Integer.MAX_VALUE

Protected Member Functions

- **Neighborhood** (int _maxParks, int _size)
- **Neighborhood** (Neighborhood cp)
- int **getTotalValue** ()
- void **setTotalValue** (int tv)
- void **setNParks** (int nparks)
- int **getNParks** ()
- int **getSize** ()
- boolean **addPark** (ParkTile p)
- boolean **canAddPark** ()
- boolean **deletePark** (ParkTile p)

4.20.1 Detailed Description

Author

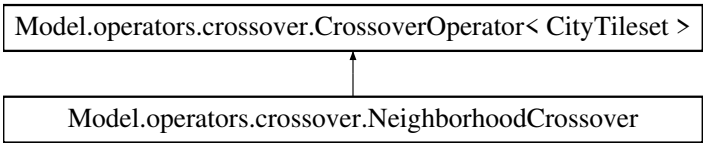
gabriel

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

- src/Model/Individuals/Neighborhood.java

4.21 Model.operators.crossover.NeighborhoodCrossover Class Reference

Inheritance diagram for Model.operators.crossover.NeighborhoodCrossover:



Public Member Functions

- Population< CityTileset > **apply** (CityTilesetPopulation pop, Random generator)

Additional Inherited Members

Protected Member Functions inherited from Model.operators.crossover.CrossoverOperator< CityTileset >

- ArrayList< Pairing > **makeRandomPairings** (Population< T > population)

4.21.1 Detailed Description

Author

gabriel

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

- src/Model/operators/crossover/NeighborhoodCrossover.java

4.22 Model.operators.mutation.NeighborhoodMutation Class Reference

4.22.1 Detailed Description

Author

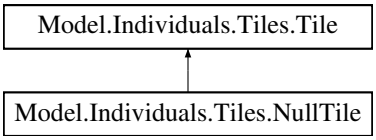
gabriel

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

- src/Model/operators/mutation/NeighborhoodMutation.java

4.23 Model.Individuals.Tiles.NullTile Class Reference

Inheritance diagram for Model.Individuals.Tiles.NullTile:



Public Member Functions

- NullTile makeCopy ()
- int getValue (TileType t)
- String toString ()

Public Member Functions inherited from Model.Individuals.Tiles.Tile

- int **getValue** ()
- boolean **isVoid** ()
- boolean **isBuilding** ()
- boolean **isPark** ()
- boolean **isRoad** ()
- boolean **canBuild** ()

Additional Inherited Members

Static Public Attributes inherited from Model.Individuals.Tiles.Tile

- static int **NOVALUETILE** = 0

4.23.1 Detailed Description

Author

gabriel

4.23.2 Member Function Documentation

4.23.2.1 getValue()

```
int Model.Individuals.Tiles.NullTile.getValue (
            TileType t )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.23.2.2 makeCopy()

```
NullTile Model.Individuals.Tiles.NullTile.makeCopy ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.23.2.3 toString()

```
String Model.Individuals.Tiles.NullTile.toString ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

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

- src/Model/Individuals/Tiles/NullTile.java

4.24 Model.operators.mutation.ParkExpansionMutation Class Reference

4.24.1 Detailed Description

Author

gabriel

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

- src/Model/operators/mutation/ParkExpansionMutation.java

4.25 parksincity_geneticalgorithms.ParksInCity_GeneticAlgorithms Class Reference

Static Public Member Functions

- static void main (String[ ] args)

4.25.1 Detailed Description

Author

gabriel

4.25.2 Member Function Documentation

4.25.2.1 main()

```
static void parksincity_geneticalgorithms.ParksInCity_GeneticAlgorithms.main (
            String[ ] args )  [inline], [static]
```

Parameters

args	the command line arguments

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

- src/parksincity_geneticalgorithms/ParksInCity_GeneticAlgorithms.java

4.26 Model.ParksInCityGA Class Reference

Public Member Functions

- **ParksInCityGA** (CityParameters cp, ModelParameters mp)
- void **run** ()
- CityTilesetPopulation **getPopulation** ()
- void **applyCrossover** ()
- void **applyFitness** ()
- void **applySelection** ()
- Population **savePopulation** ()

4.26.1 Detailed Description

Author

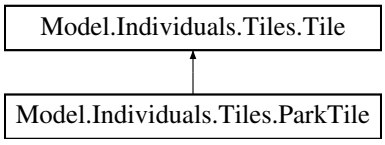
gabriel

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

- src/Model/ParksInCityGA.java

4.27 Model.Individuals.Tiles.ParkTile Class Reference

Inheritance diagram for Model.Individuals.Tiles.ParkTile:



Public Member Functions

- **ParkTile** (int v)
- ParkTile makeCopy ()
- int getValue (TileType type)
- void **addValue** (int v)
- String toString ()

Public Member Functions inherited from Model.Individuals.Tiles.Tile

- int **getValue** ()
- boolean **isVoid** ()
- boolean **isBuilding** ()
- boolean **isPark** ()
- boolean **isRoad** ()
- boolean **canBuild** ()

Static Public Member Functions

- static int **getAreaOfEffect** ()

Additional Inherited Members

Static Public Attributes inherited from Model.Individuals.Tiles.Tile

- static int **NOVALUETILE** = 0

4.27.1 Detailed Description

Author

gabriel

4.27.2 Member Function Documentation

4.27.2.1 getValue()

```
int Model.Individuals.Tiles.ParkTile.getValue (
            TileType type )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.27.2.2 makeCopy()

```
ParkTile Model.Individuals.Tiles.ParkTile.makeCopy ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.27.2.3 toString()

```
String Model.Individuals.Tiles.ParkTile.toString ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

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

- src/Model/Individuals/Tiles/ParkTile.java

4.28 Model.fitness.PonderatedFunction Class Reference

Public Member Functions

- **PonderatedFunction** (int moneyPoneration)
- void **evaluate** (CityTilesetPopulation pop)

4.28.1 Detailed Description

Author

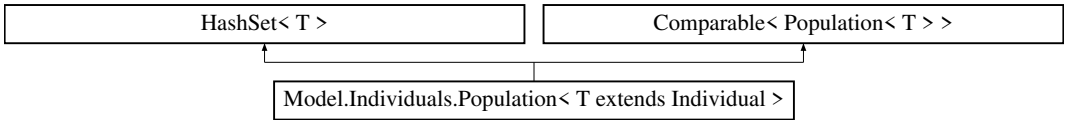
gabriel

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

- src/Model/fitness/PonderatedFunction.java

4.29 Model.Individuals.Population< T extends Individual > Class Template Reference

Inheritance diagram for Model.Individuals.Population< T extends Individual >:



Public Member Functions

- **Population** (long id)
- **Population** (Population p)
- long **getId** ()
- void **setId** (long id)
- T **getBestIndividual** ()
- void **setBestIndividual** (T bestIndividual)
- double **getAverageFitness** ()
- ArrayList< T > **getArrayList** ()
- int **compareTo** (Population other)
- Population< T > **clone** ()
- boolean **equals** (Object o)
- int **hashCode** ()

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

- src/Model/Individuals/Population.java

4.30 Basics.Position Class Reference

Public Member Functions

- Position ()
- Position (int n)
- Position (int _x, int _y)
- Position (Position p)
- int getX ()
- int getY ()
- void setX (int _x)
- void setY (int _y)
- void setPos (int _x, int _y)
- Position mult (int m)
- Position div (int d)
- boolean inRange (Position topRight, Position botLeft)
- boolean isEqual (Position pos)
- String toString ()

Static Public Member Functions

- static Position subtract (Position pos1, Position pos2)
- static Position sum (Position pos1, Position pos2)
- static Position mul (Position pos1, int num)

Static Public Attributes

- static final Position **ZERO** = new Position(0)

  Default position. Origin.

4.30.1 Detailed Description

Author

gabriel Position Represents a 2D point, and has methods to operate with them

4.30.2 Constructor & Destructor Documentation

4.30.2.1 Position() [1/4]

```
Basics.Position.Position ( )  [inline]
```

Default constructor

4.30.2.2 Position() [2/4]

```
Basics.Position.Position (
            int n )  [inline]
```

Constructor with one parameter

4.30.2.3 Position() [3/4]

```
Basics.Position.Position (
            int _x,
            int _y )  [inline]
```

Constructor with two parameters

4.30.2.4 Position() [4/4]

```
Basics.Position.Position (
            Position p )  [inline]
```

Copy constructor

4.30.3 Member Function Documentation

4.30.3.1 div()

```
Position Basics.Position.div (
            int d )  [inline]
```

Division of the position with an integer

Parameters

d	

Returns

4.30.3.2 getX()

```
int Basics.Position.getX ( )  [inline]
```

Getter of x

Returns

4.30.3.3 getY()

```
int Basics.Position.getY ( )  [inline]
```

Getter of y

Returns

4.30.3.4 inRange()

```
boolean Basics.Position.inRange (
            Position topRight,
            Position botLeft )  [inline]
```

Checks if the point is "inside" the square made by the two corners given

Parameters

topRight	
botLeft	

Returns

4.30.3.5 isEqual()

```
boolean Basics.Position.isEqual (
            Position pos )  [inline]
```

Checks if two points have the same coordinates

Parameters

pos	

Returns

4.30.3.6 mul()

```
static Position Basics.Position.mul (
            Position pos1,
            int num )  [inline], [static]
```

Static function to multiply a position with a number (integer)

Parameters

pos1	
num	

Returns

4.30.3.7 mult()

```
Position Basics.Position.mult (
            int m )  [inline]
```

Multiplication of the position with a integer

Parameters

m	

Returns

4.30.3.8 setPos()

```
void Basics.Position.setPos (
            int _x,
            int _y )  [inline]
```

Setter for a position

Parameters

↩ _↩ *x*	
↩ _↩ *y*	

4.30.3.9 setX()

```
void Basics.Position.setX (
            int _x )  [inline]
```

Setter of x

Parameters

↩ _↩ *x*	

4.30.3.10 setY()

```
void Basics.Position.setY (
            int _y )  [inline]
```

Setter of y

Parameters

↩ _↩ *y*	

4.30.3.11 subtract()

```
static Position Basics.Position.subtract (
            Position pos1,
            Position pos2 )  [inline], [static]
```

Static method to subtract position

Parameters

pos1	
pos2	

4.30.3.12 sum()

```
static Position Basics.Position.sum (
            Position pos1,
            Position pos2 )  [inline], [static]
```

Static method to sum positions

Parameters

pos1	
pos2	

Returns

4.30.3.13 toString()

```
String Basics.Position.toString ( )  [inline]
```

toString method for Position format: (x,y)

Returns

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

- src/Basics/Position.java

4.31 Model.Inicializer.RandomCityInicializer Class Reference

Public Member Functions

- void **setCt** (CityTileset _ct)
- void **setNewBuildingProb** (double nbp)
- void **inicialize** (CityTileset _ct, int n_nodes)
- void **generateNodes** (int n_nodes)
- void **createBuildings** ()
- void **createBuildings** (int n_buildings, boolean type)
- void **createRoads** ()

4.31.1 Detailed Description

Author

gabriel

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

- src/Model/Inicializer/RandomCityInicializer.java

4.32 Model.Inicializer.RandomParkInicializer Class Reference

Public Member Functions

- **RandomParkInicializer** (int spreadness)
- void **setSpreadness** (int sp)
- void **Inicialize** (CityTileset ct)

Public Attributes

- int **maxParks**
- int **minParks**

4.32.1 Detailed Description

Author

gabriel

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

- src/Model/Inicializer/RandomParkInicializer.java

4.33 Model.operators.mutation.RandomParkMutation Class Reference

Public Member Functions

- void **apply** (Population< CityTileset > pop)

4.33.1 Detailed Description

Author

gabriel

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

- src/Model/operators/mutation/RandomParkMutation.java

4.34 Model.operators.selection.RankSelection Class Reference

Public Member Functions

- Population< CityTileset > **apply** (CityTilesetPopulation pop, boolean useElitism, boolean truncate, Random generator, double truncateSize)

4.34.1 Detailed Description

Author

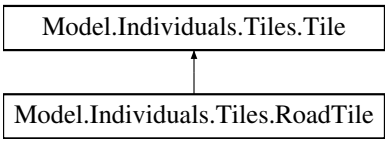
gabriel

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

- src/Model/operators/selection/RankSelection.java

4.35 Model.Individuals.Tiles.RoadTile Class Reference

Inheritance diagram for Model.Individuals.Tiles.RoadTile:



Public Member Functions

- RoadTile makeCopy ()
- int getValue (TileType type)
- String toString ()

Public Member Functions inherited from Model.Individuals.Tiles.Tile

- int **getValue** ()
- boolean **isVoid** ()
- boolean **isBuilding** ()
- boolean **isPark** ()
- boolean **isRoad** ()
- boolean **canBuild** ()

Additional Inherited Members

Static Public Attributes inherited from Model.Individuals.Tiles.Tile

- static int **NOVALUETILE** = 0

4.35.1 Detailed Description

Author

gabriel

4.35.2 Member Function Documentation

4.35.2.1 getValue()

```
int Model.Individuals.Tiles.RoadTile.getValue (
            TileType type )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.35.2.2 makeCopy()

```
RoadTile Model.Individuals.Tiles.RoadTile.makeCopy ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.35.2.3 toString()

```
String Model.Individuals.Tiles.RoadTile.toString ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

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

- src/Model/Individuals/Tiles/RoadTile.java

4.36 Model.operators.selection.SelectionController Class Reference

Public Member Functions

- **SelectionController** (ModelParameters mp)
- Population< CityTileset > **apply** (CityTilesetPopulation pop)

4.36.1 Detailed Description

Author

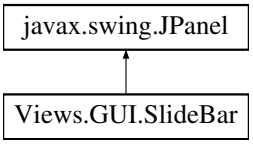
gabriel

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

- src/Model/operators/selection/SelectionController.java

4.37 Views.GUI.SlideBar Class Reference

Inheritance diagram for Views.GUI.SlideBar:



Public Member Functions

- SlideBar ()
- void **setLimits** (int max, int min)
- void **setDefault** (int def)
- int **getValue** ()

4.37.1 Detailed Description

Author

gabriel

4.37.2 Constructor & Destructor Documentation

4.37.2.1 SlideBar()

```
Views.GUI.SlideBar.SlideBar ( )  [inline]
```

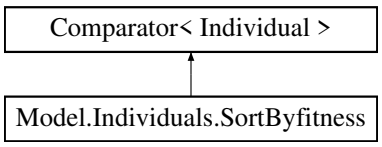
Creates new form prueba

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

- src/Views/GUI/SlideBar.java

4.38 Model.Individuals.SortByfitness Class Reference

Inheritance diagram for Model.Individuals.SortByfitness:



Public Member Functions

- int **compare** (Individual a, Individual b)

4.38.1 Detailed Description

Author

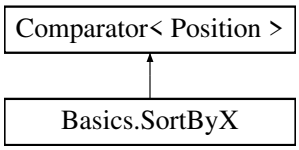
gabriel

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

- src/Model/Individuals/SortByfitness.java

4.39 Basics.SortByX Class Reference

Inheritance diagram for Basics.SortByX:



Public Member Functions

- int **compare** (Position a, Position b)

4.39.1 Detailed Description

Author

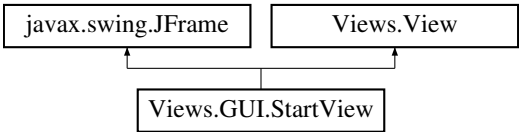
gabriel

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

- src/Basics/SortByX.java

4.40 Views.GUI.StartView Class Reference

Inheritance diagram for Views.GUI.StartView:



Public Member Functions

- StartView ()
- MainWindow **generateMainWindow** ()
- void updateView ()
- void showView ()
- String getAppName ()

4.40.1 Detailed Description

Author

gabriel

4.40.2 Constructor & Destructor Documentation

4.40.2.1 StartView()

```
Views.GUI.StartView.StartView ( )  [inline]
```

Creates new form StartView

4.40.3 Member Function Documentation

4.40.3.1 getAppName()

```
String Views.GUI.StartView.getAppName ( )  [inline]
```

Implements Views.View.

4.40.3.2 showView()

```
void Views.GUI.StartView.showView ( )  [inline]
```

Implements Views.View.

4.40.3.3 updateView()

```
void Views.GUI.StartView.updateView ( )  [inline]
```

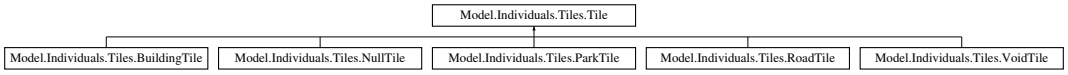
Implements Views.View.

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

- src/Views/GUI/StartView.java

4.41 Model.Individuals.Tiles.Tile Class Reference

Inheritance diagram for Model.Individuals.Tiles.Tile:



Public Member Functions

- abstract Tile **makeCopy** ()
- int **getValue** ()
- abstract int **getValue** (TileType type)
- boolean **isVoid** ()
- boolean **isBuilding** ()
- boolean **isPark** ()
- boolean **isRoad** ()
- boolean **canBuild** ()
- abstract String **toString** ()

Static Public Attributes

- static int **NOVALUETILE** = 0

4.41.1 Detailed Description

Author

gabriel

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

- src/Model/Individuals/Tiles/Tile.java

4.42 Model.Individuals.Tiles.TileType Enum Reference

Public Attributes

- **BUILDING**
- **PARK**
- **ROAD**
- **VOID**

4.42.1 Detailed Description

Author

gabriel

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

- src/Model/Individuals/Tiles/TileType.java

4.43 Model.fitness.ValueFunction Class Reference

Static Public Member Functions

- static Double **Evaluate** (CityTileset city)

4.43.1 Detailed Description

Author

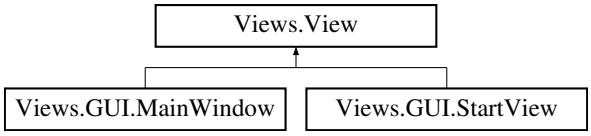
gabriel

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

- src/Model/fitness/ValueFunction.java

4.44 Views.View Interface Reference

Inheritance diagram for Views.View:



Public Member Functions

- void **updateView** ()
- void **showView** ()
- String **getAppName** ()

4.44.1 Detailed Description

Author

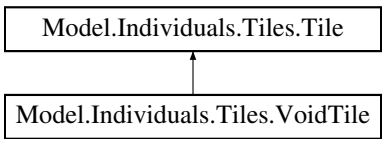
Profe

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

- src/Views/View.java

4.45 Model.Individuals.Tiles.VoidTile Class Reference

Inheritance diagram for Model.Individuals.Tiles.VoidTile:



Public Member Functions

- VoidTile makeCopy ()
- int getValue (TileType type)
- String toString ()

Public Member Functions inherited from Model.Individuals.Tiles.Tile

- int **getValue** ()
- boolean **isVoid** ()
- boolean **isBuilding** ()
- boolean **isPark** ()
- boolean **isRoad** ()
- boolean **canBuild** ()

Additional Inherited Members

Static Public Attributes inherited from Model.Individuals.Tiles.Tile

- static int **NOVALUETILE** = 0

4.45.1 Detailed Description

Author

gabriel

4.45.2 Member Function Documentation

4.45.2.1 getValue()

```
int Model.Individuals.Tiles.VoidTile.getValue (
            TileType type )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.45.2.2 makeCopy()

```
VoidTile Model.Individuals.Tiles.VoidTile.makeCopy ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

4.45.2.3 toString()

```
String Model.Individuals.Tiles.VoidTile.toString ( )  [inline]
```

Reimplemented from Model.Individuals.Tiles.Tile.

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

- src/Model/Individuals/Tiles/VoidTile.java

Chapter 5

File Documentation

5.1 src/Basics/Position.java File Reference

Classes

- class Basics.Position

Index