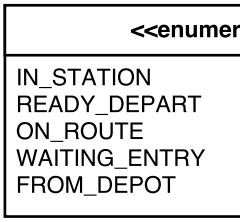
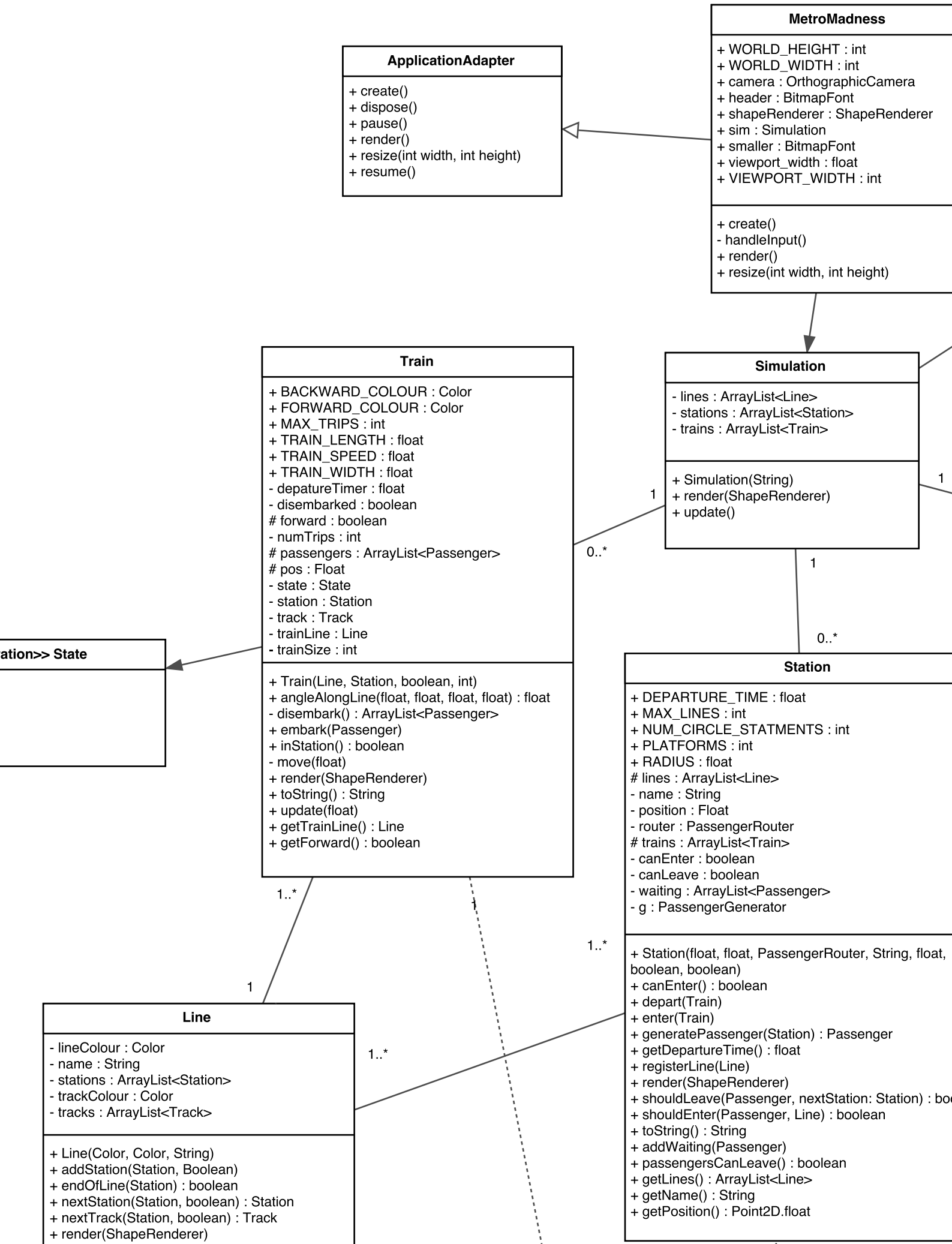
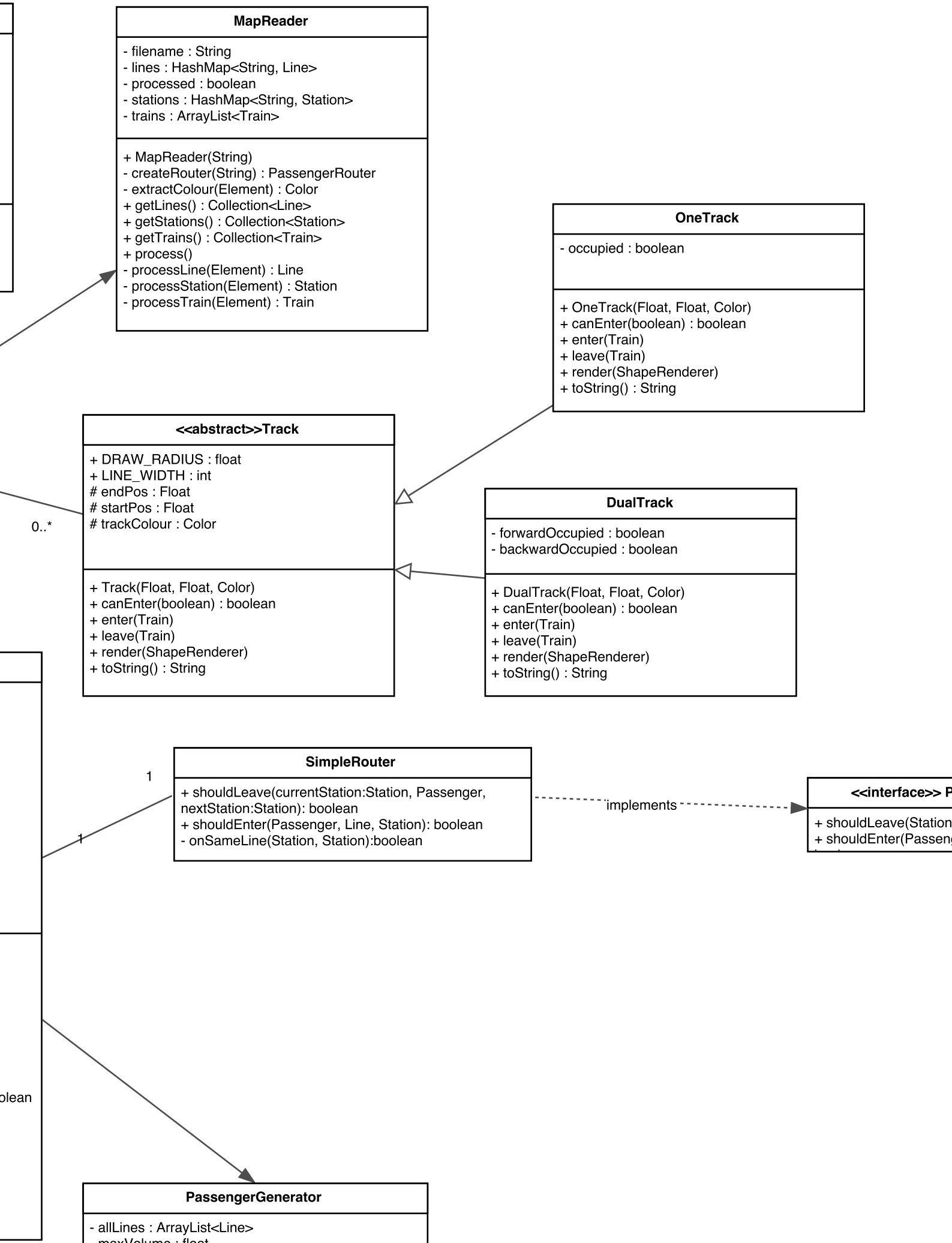
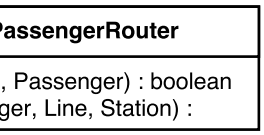
Metro Madne

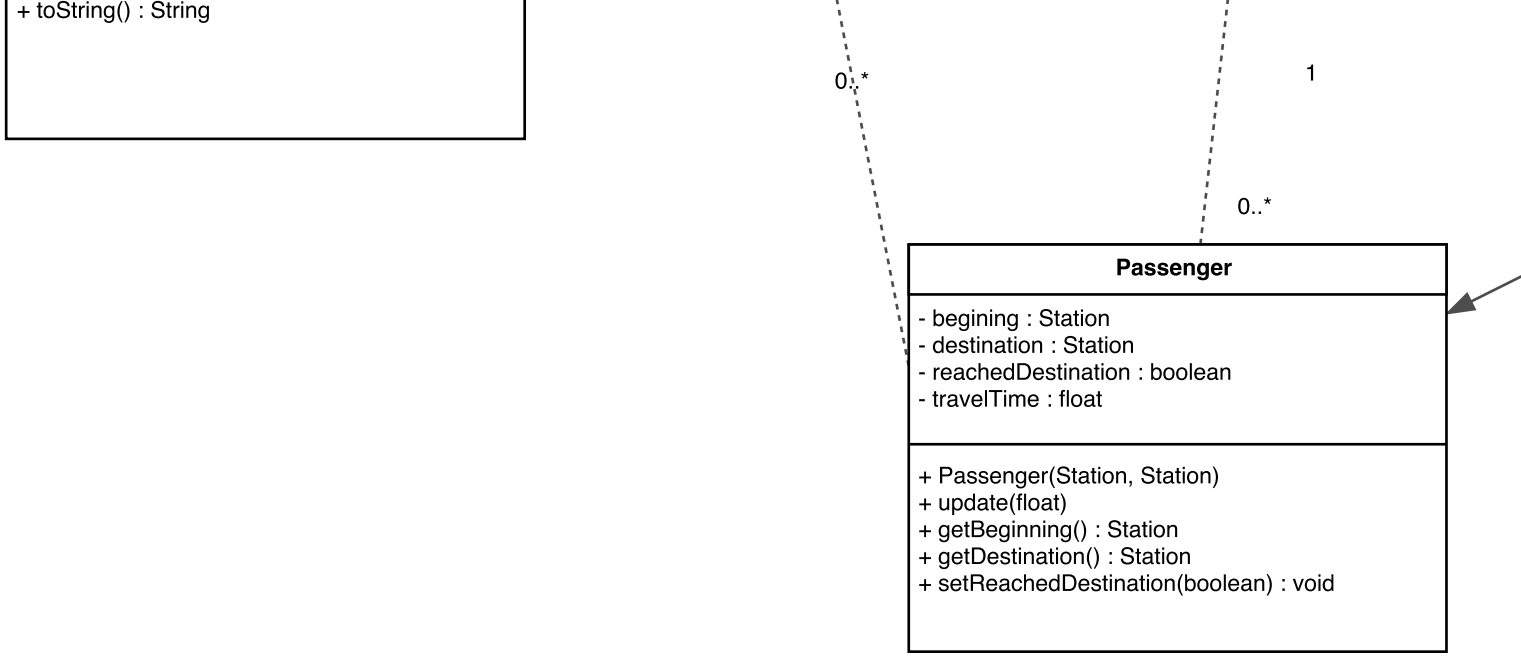

<<enumer
IN_STATION
READY_DEPART
ON_ROUTE
WAITING_ENTRY
FROM_DEPOT

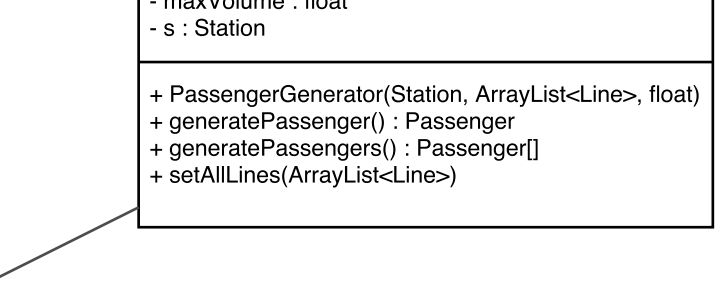
ess Class Diagram V1




MapReader
- filename : String
- lines : HashMap<String, Line>
- processed : boolean
- stations : HashMap<String, Station>
- trains : ArrayList<Train>
+ MapReader(String)
- createRouter(String) : PassengerRouter
- extractColour(Element) : Color
+ getLines() : Collection<Line>
+ getStations() : Collection<Station>
+ getTrains() : Collection<Train>
+ process()
- processLine(Element) : Line
- processStation(Element) : Station
- processTrain(Element) : Train
OneTrack
- occupied : boolean
+ OneTrack(Float, Float, Color)
+ canEnter(boolean) : boolean
+ enter(Train)
+ leave(Train)
+ render(ShapeRenderer)
+ toString() : String
<<abstract>>Track
+ DRAW_RADIUS : float
+ LINE_WIDTH : int
# endPos : Float
# startPos : Float
# trackColour : Color
+ Track(Float, Float, Color)
+ canEnter(boolean) : boolean
+ enter(Train)
+ leave(Train)
+ render(ShapeRenderer)
+ toString() : String
0..*
DualTrack
- forwardOccupied : boolean
- backwardOccupied : boolean
+ DualTrack(Float, Float, Color)
+ canEnter(boolean) : boolean
+ enter(Train)
+ leave(Train)
+ render(ShapeRenderer)
+ toString() : String
SimpleRouter
+ shouldLeave(currentStation:Station, Passenger, nextStation:Station): boolean
+ shouldEnter(Passenger, Line, Station): boolean
- onSameLine(Station, Station):boolean
1
1
implements
<<interface>> P
+ shouldLeave(Station
+ shouldEnter(Passen
olean
PassengerGenerator
- allLines : ArrayList<Line>


assengerRouter
, Passenger) : boolean
ger, Line, Station) :


+ toString() : String
0..*
1
0..*
Passenger
- begining : Station
- destination : Station
- reachedDestination : boolean
- travelTime : float
+ Passenger(Station, Station)
+ update(float)
+ getBeginning() : Station
+ getDestination() : Station
+ setReachedDestination(boolean) : void


- maxVolume : float
- s : Station
+ PassengerGenerator(Station, ArrayList<Line>, float)
+ generatePassenger() : Passenger
+ generatePassengers() : Passenger[]
+ setAllLines(ArrayList<Line>)