

drawClassChart

lokale/globale Variablen und Attribute:  
classChart: ClassChart  
group: QGraphicsItemGroup  
classBoxes: map<Class,QGraphicsItemGroup>  
maxdim,radius: FKZ  
counter: GZ  
rect: Rect  
edgeLines: map<Edge\*,QGraphicsItemGroup\*>  
arrowhead: QGraphicsItem  
polygonItem: QGraphicsPolygonItem  
arrow: QGraphicsItemGroup

group ← new QGraphicsItemGroup()		
const unique_ptr < Class > class_ : classChart.getClasses()		
QGraphicsItemGroup* classBox ← generateClassBox(class_.get())		
group.addToGroup(classBox)		
classBoxes[class_.get()] ← classBox		
const pair < const Class*, QGraphicsItemGroup* > p : classBoxes		
rect ← p.second.boundingRect()		
wahr	maxdim < rect.width()	falsch
maxdim ← rect.width()	∅	
wahr	maxdim < rect.height()	falsch
maxdim ← rect.height()	∅	
radius ← 2.5 * maxdim		
counter ← 0		
const unique_ptr < Class > class_ : classChart.getClasses()		
classBoxes[class_.get()].setPos(radius + cos(2 * 3.14159 * (counter/float(classBoxes.size())) * radius, radius + sin(2 * 3.14159 * (counter/float(classBoxes.size())) * radius)		
counter ← counter + 1		
const unique_ptr < Edge > edge : classChart.getEdges()		
arrowhead ← nullptr		
wahr	dynamic_cast < Inheritance* > (edge.get())	falsch
polygonItem ← new QGraphicsPolygonItem(triangleArrowhead)	∅	
polygonItem.setBrush(QBrush(Qt::white))		
arrowhead ← polygonItem		
wahr	dynamic_cast < Association* > (edge.get())	falsch
QPainterPath painterPath	∅	
painterPath.addPolygon(triangleArrowhead)		
arrowhead ← new QGraphicsPathItem(painterPath)		
arrow ← drawArrow(classBoxes[edge.getTail()], classBoxes[edge.getHead()], nullptr, arrowhead)		
edgeLines[edge.get()] ← arrow		
group.addToGroup(arrow)		
return group		