X - TD

SOEN 6441 - Build 1

#### Team 10

Cheng Long Zhang, Hai Yang Sun, Jean Raymond Daher, Mohammad Ali, Meng Yao Wang, Zhe Zhao

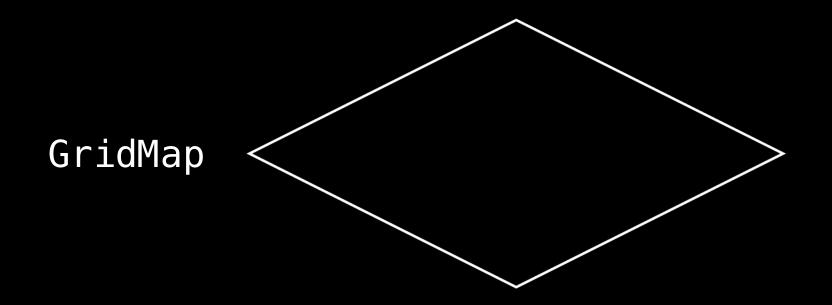
# Agenda

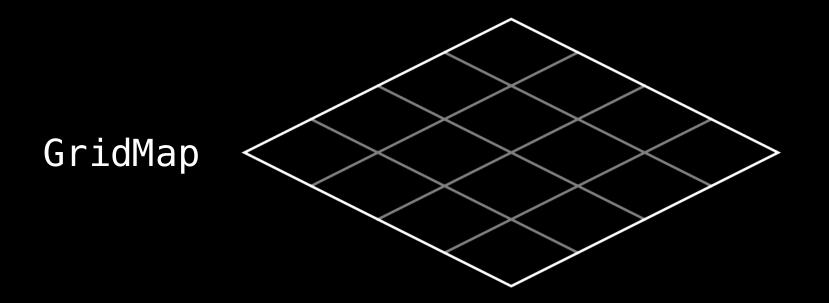
Architecture

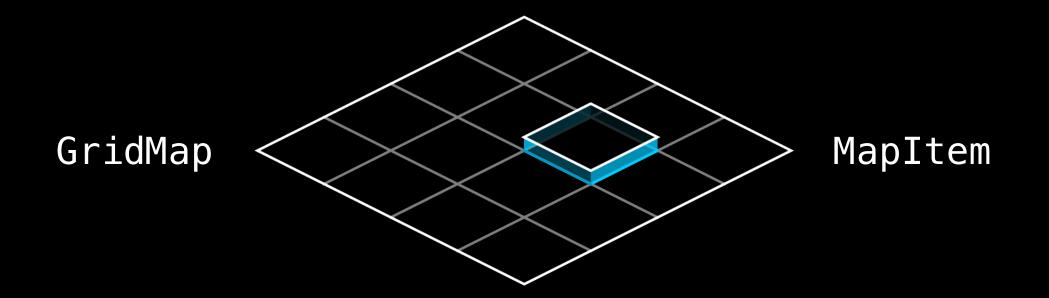
Demonstration

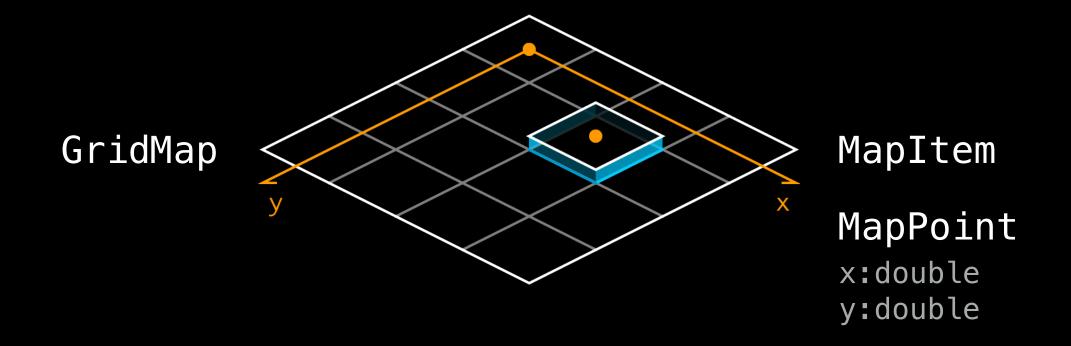
Team 10

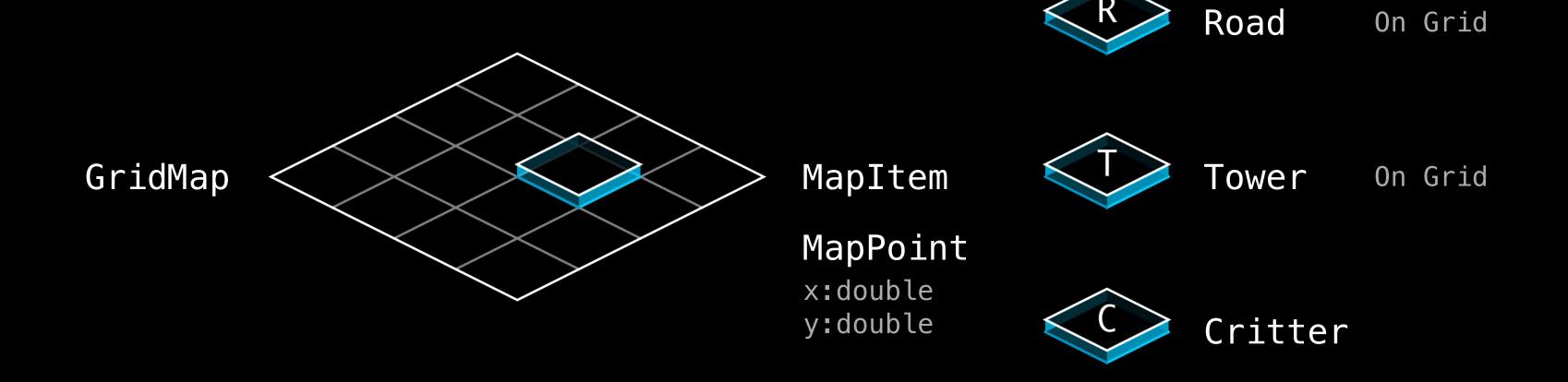
# Architecture

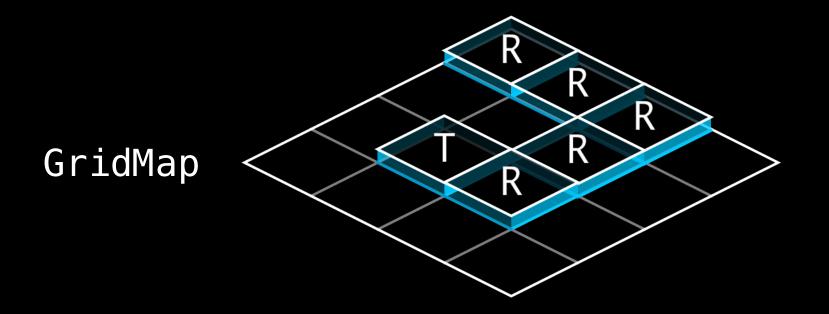


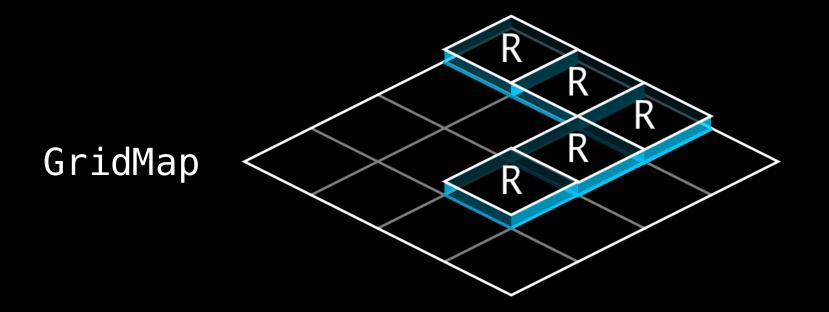








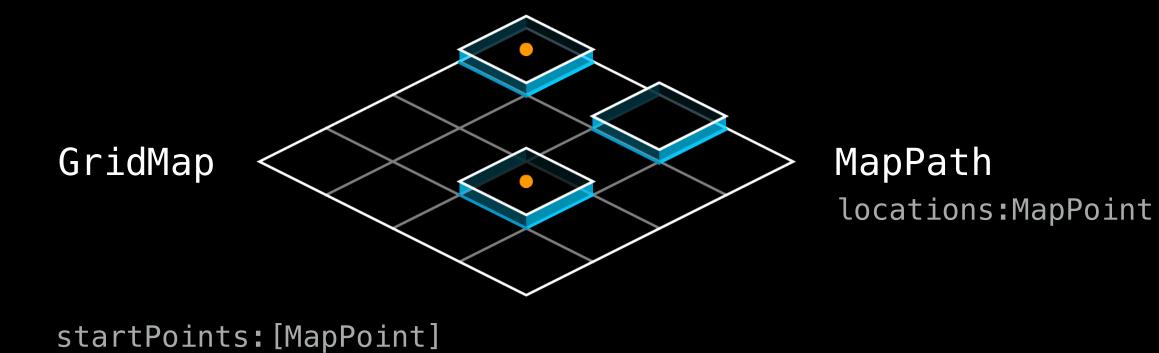




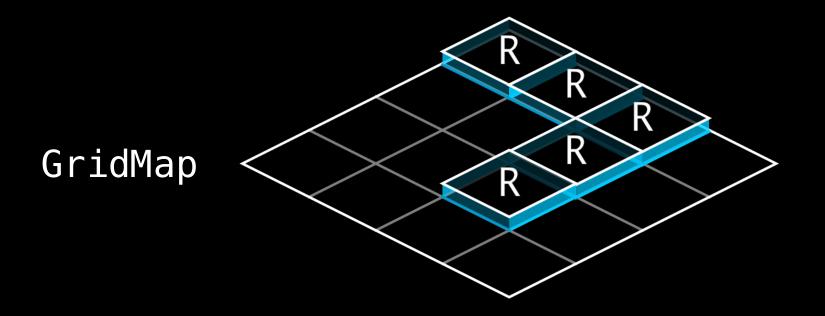


endPoints:[MapPoint]

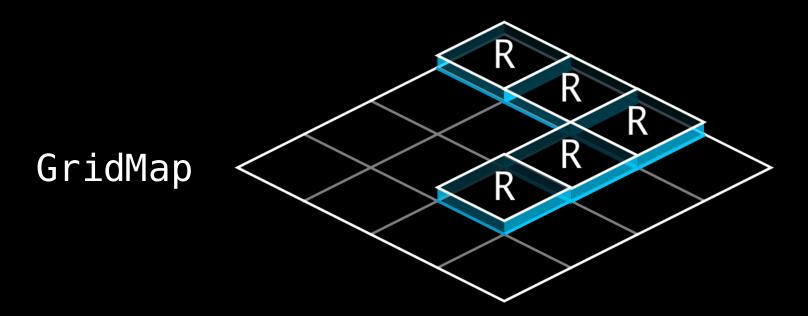
paths: [MapPath]



### Model Layer Saving & Loading a Map



### Model Layer Saving & Loading a Map



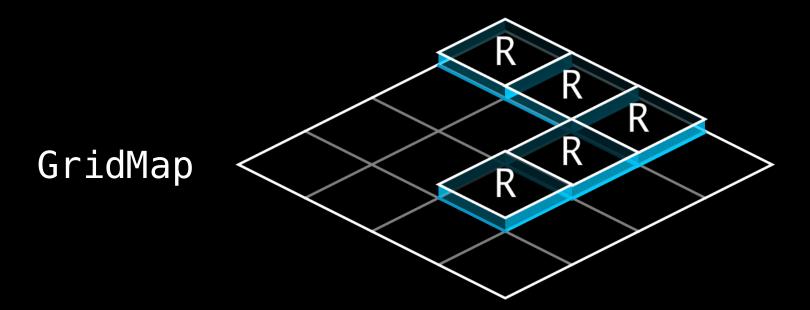
#### PathManager

gridMap:GridMap

validate()

validators:[PathValidator]

### Model Layer Saving & Loading a Map



#### PathManager

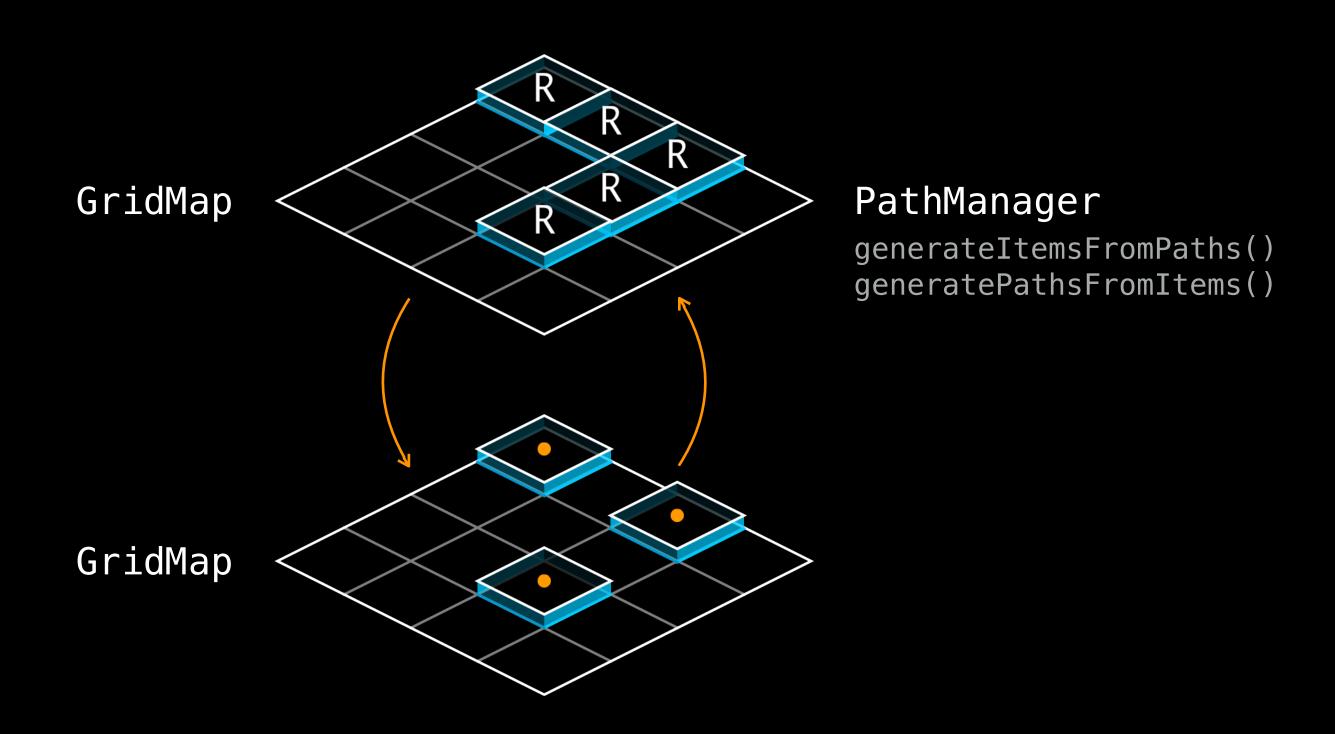
gridMap:GridMap
validate()

validators:[PathValidator]

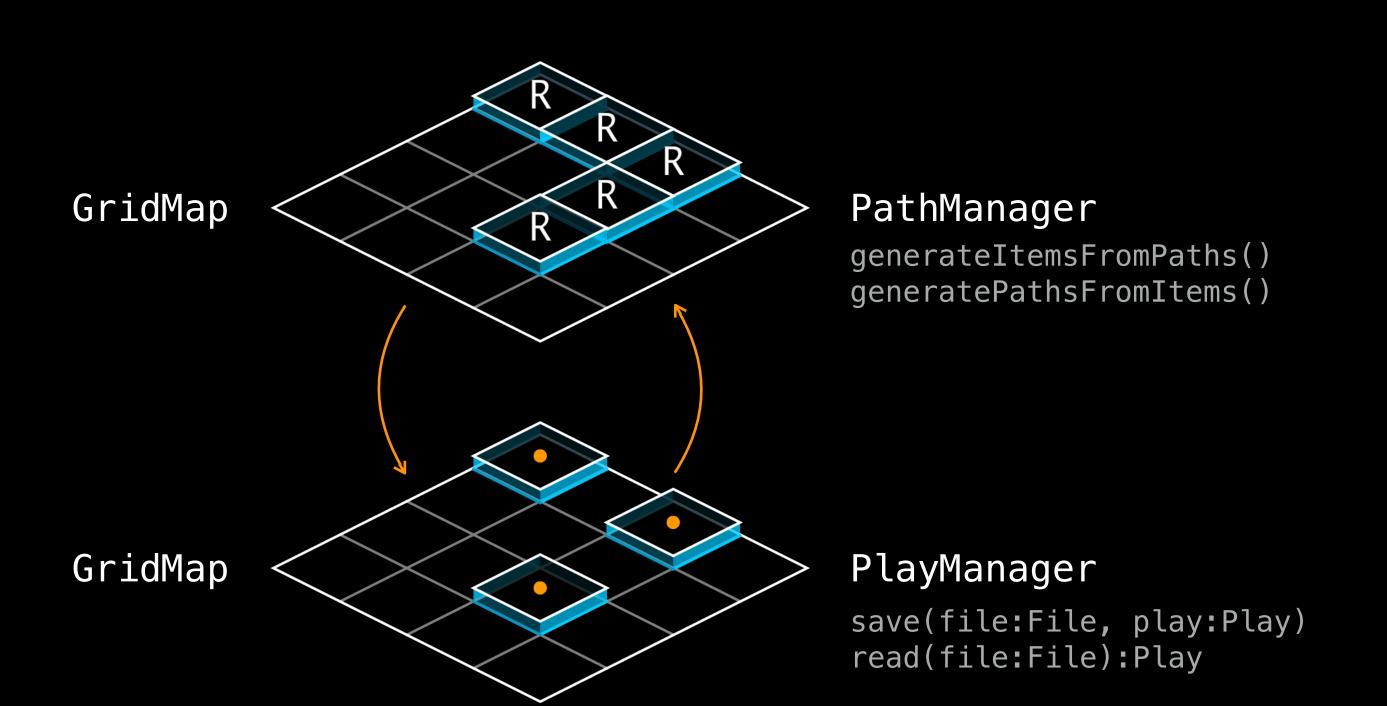
#### PathValidator

gridMap:GridMap
validate()

Saving & Loading a Map



Saving & Loading a Map



xml

### View Layer Parallel from Swing

**Custom Views** 

Swing

### View Layer Parallel from Swing

**Custom Views** 

Parallel

Swing

# View Layer Parallel from Swing

**Custom Views** 

ViewFlow, GridView, MapView, InspectorView

Parallel

Window, View, Label, Button, TextField

Swing

JFrame, JPanel, JLabel, JButton, JTextField

### Core Classes for Displaying

#### View

init()
initSubviews()
initEvents()

#### ViewFlow

views:[View]
push(view:View)
pop()

#### GridView & MapView

map displaying

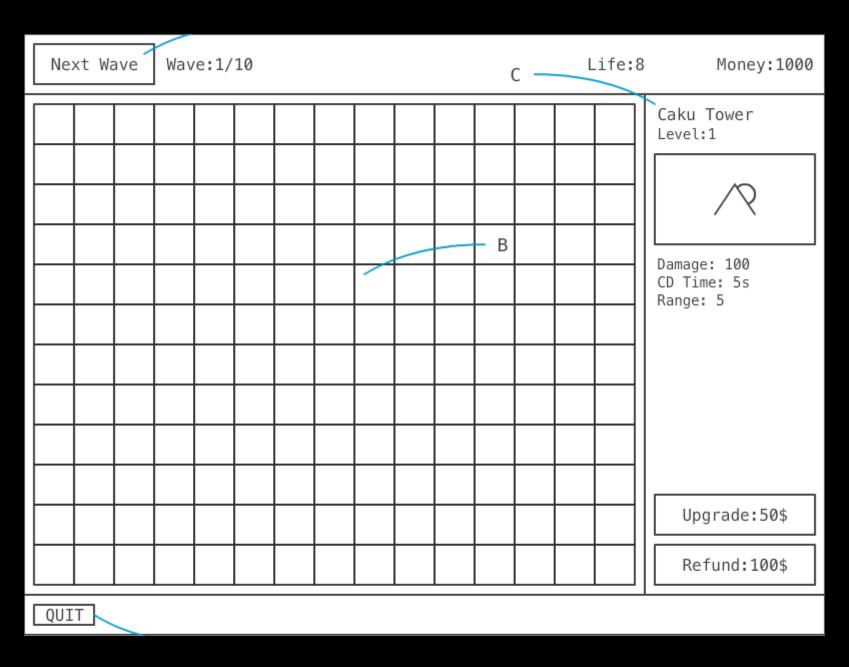
#### InspectorView

on:IInspectable

#### XxxxxxScene

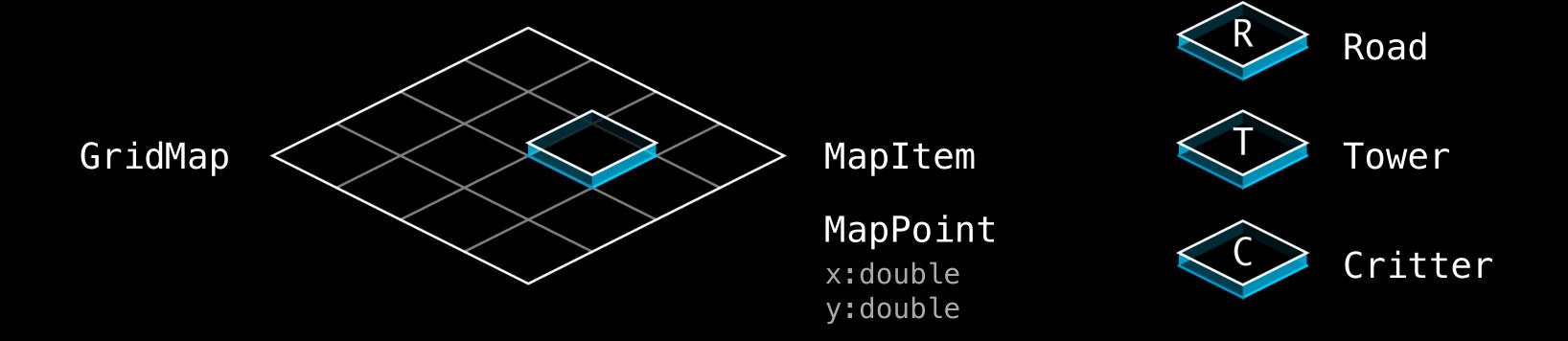
role as a controller assemble views coordinate with V & M

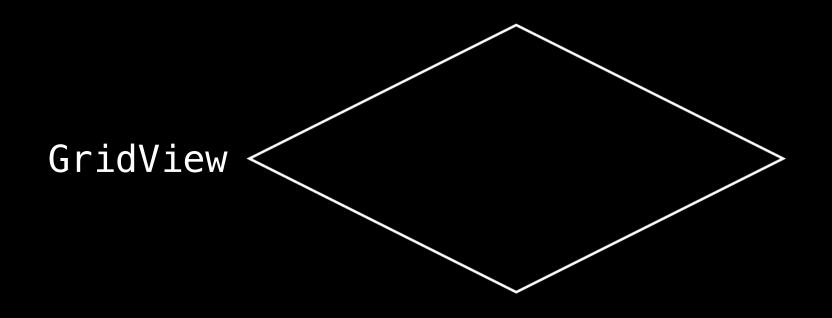
# View Layer Core Classes for Displaying

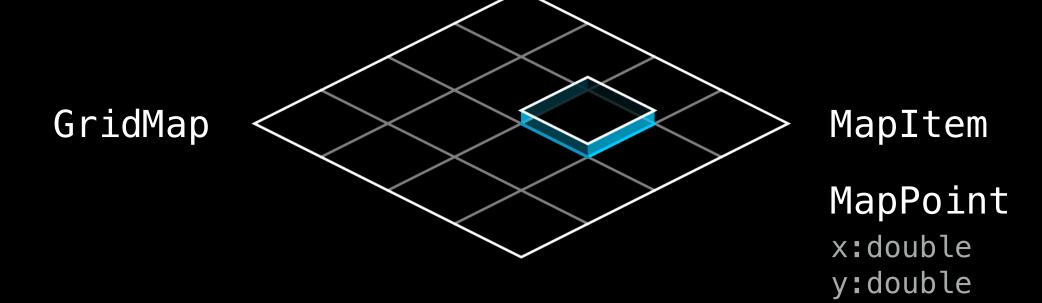


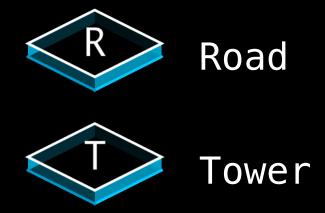
PlayingScene

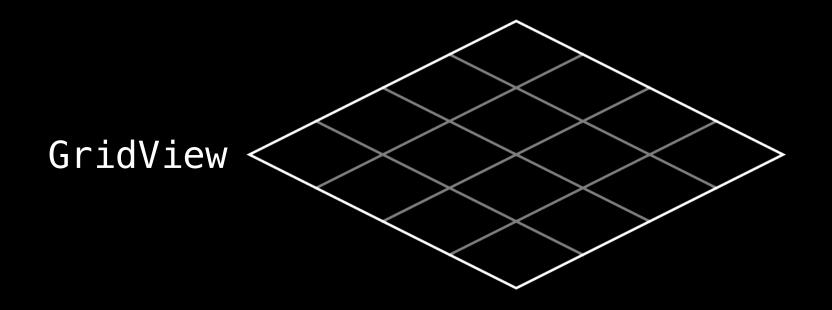
### View Layer Core Classes for Displaying a Map

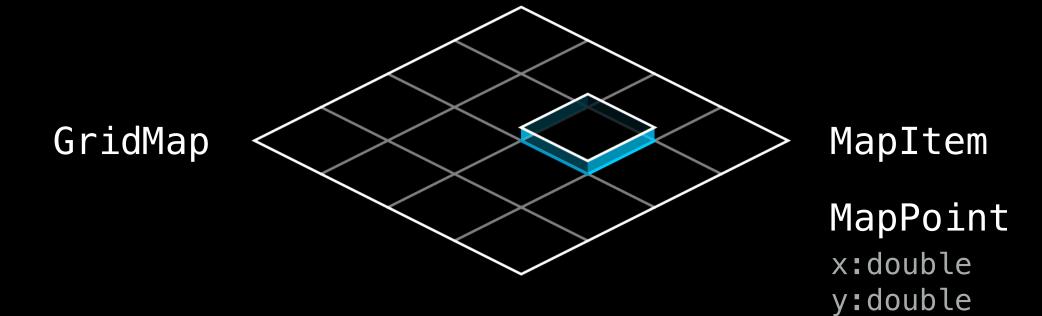






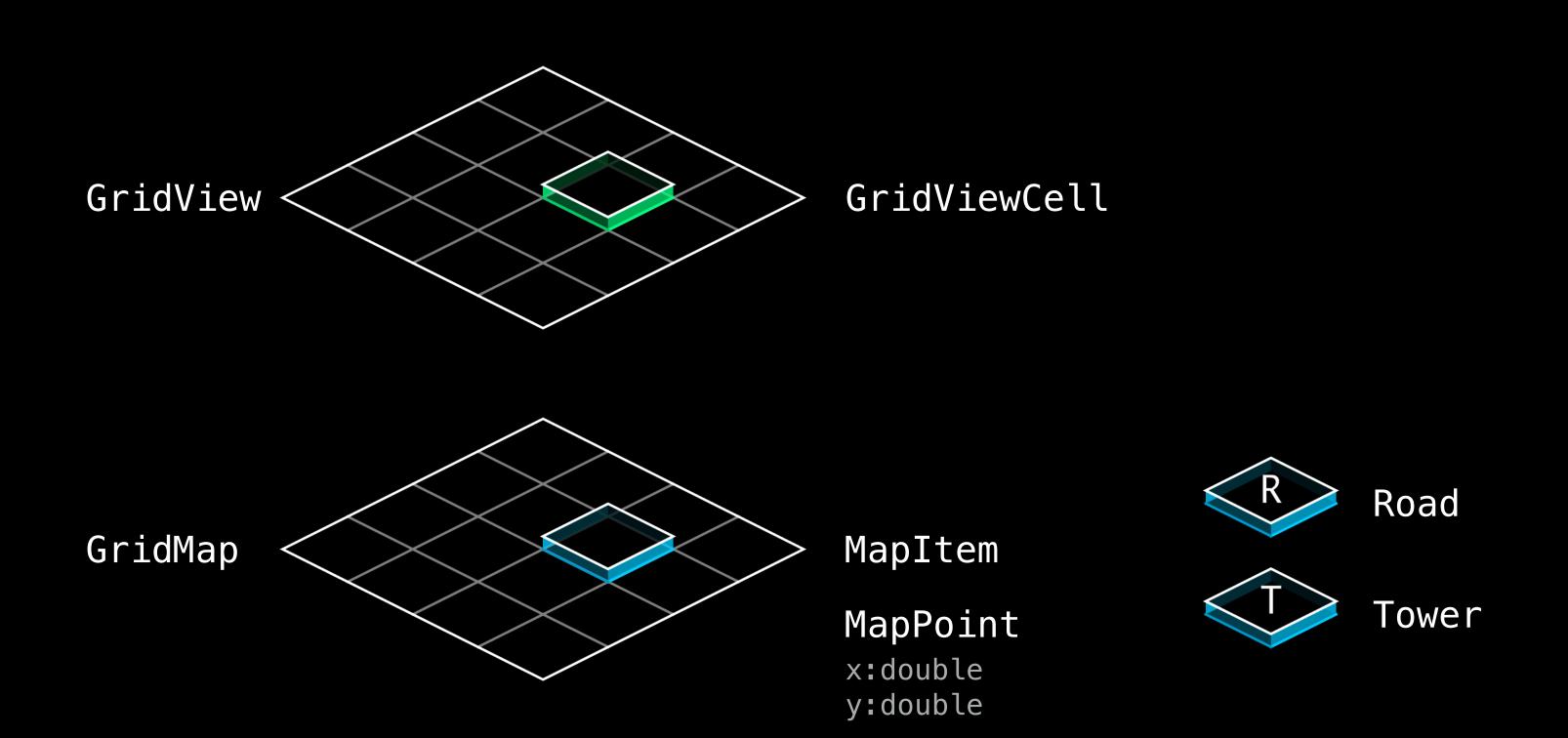




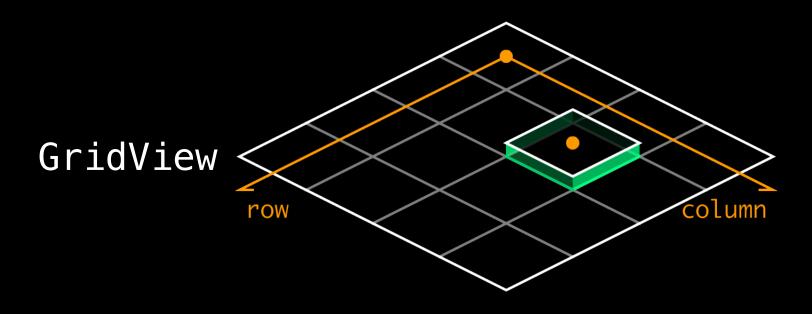








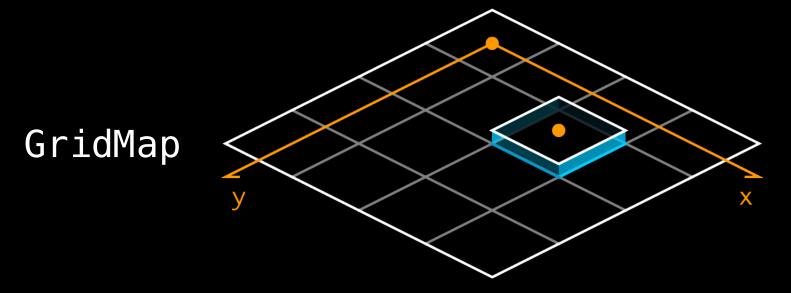
### Core Classes for Displaying a Map



GridViewCell

GridPoint

row:int
column:int



MapItem

MapPoint

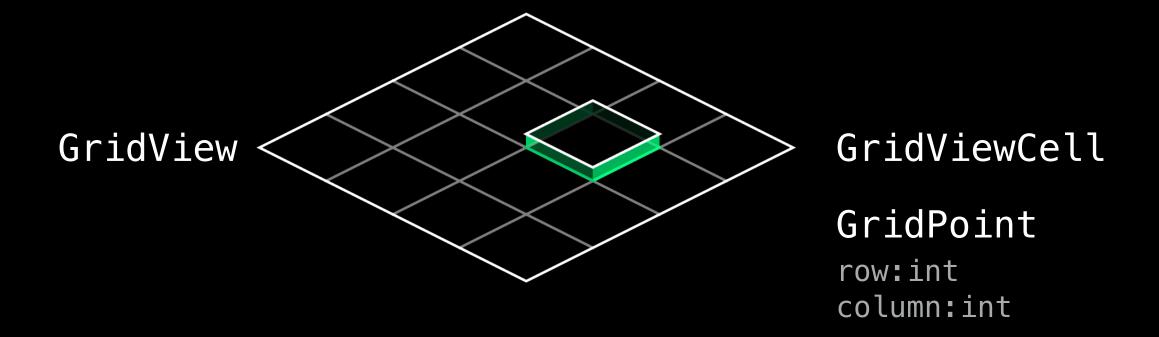
x:double
y:double

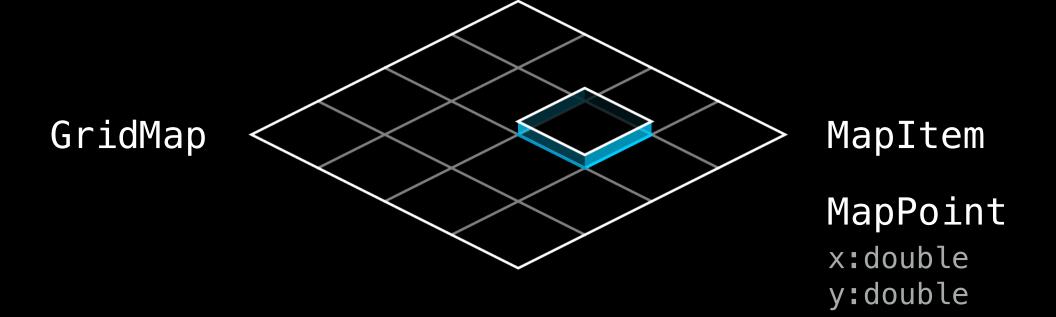


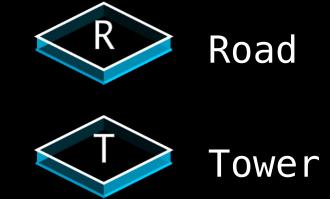
Road

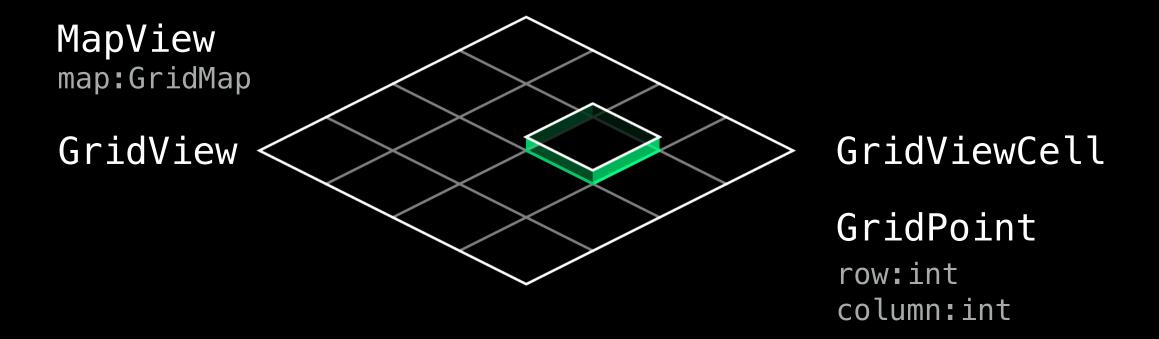


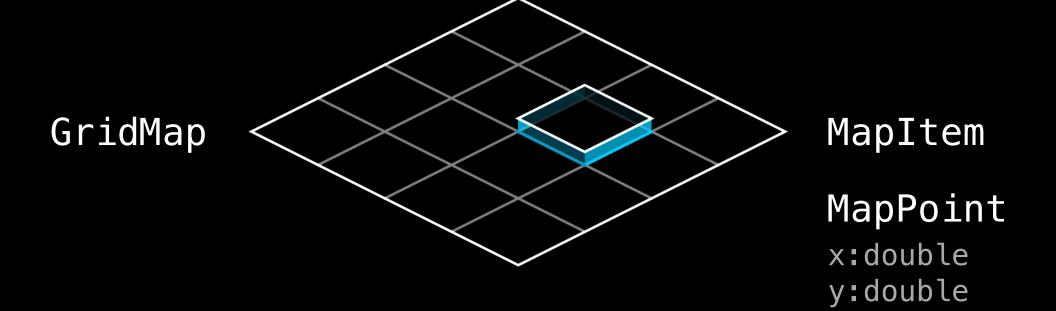
Tower

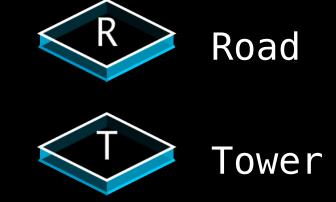


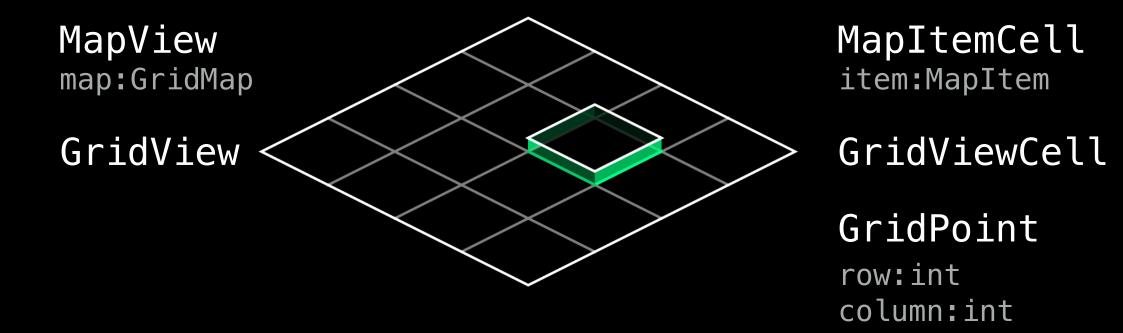


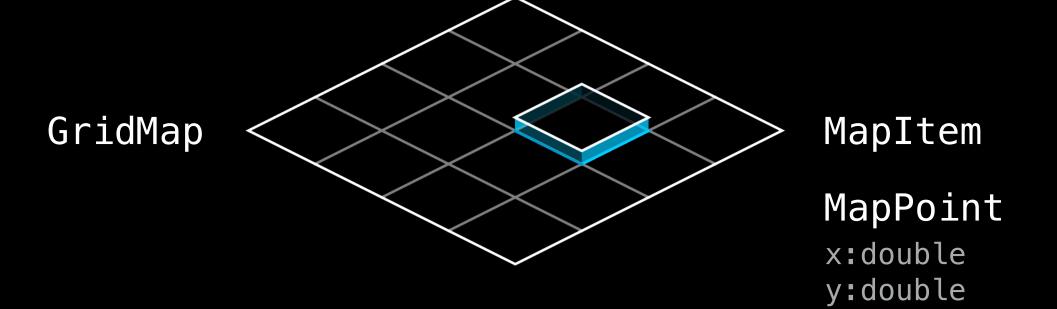


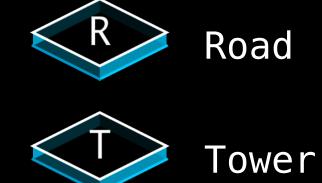




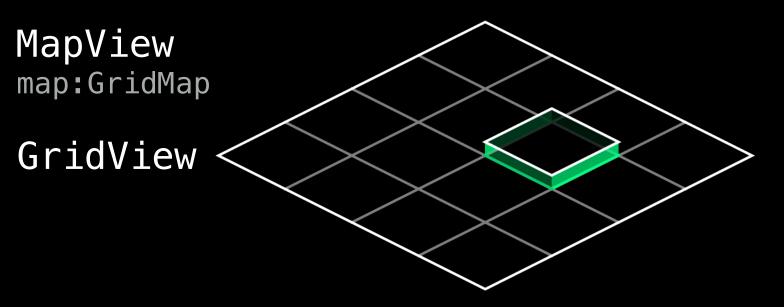








Core Classes for Displaying a Map



MapItemCell
item:MapItem

GridViewCell

GridPoint

row:int
column:int



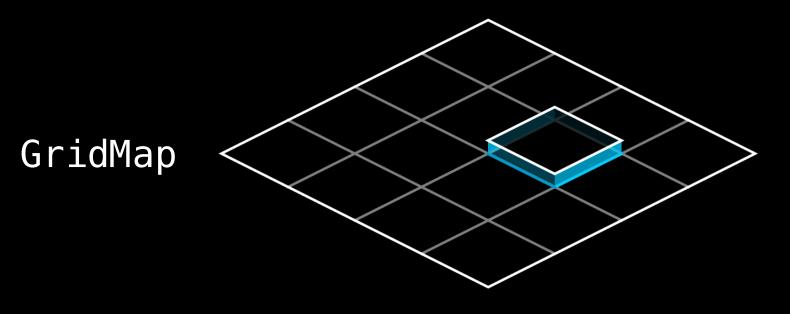
RoadCell



TowerCell



SceneryCell



MapItem

MapPoint

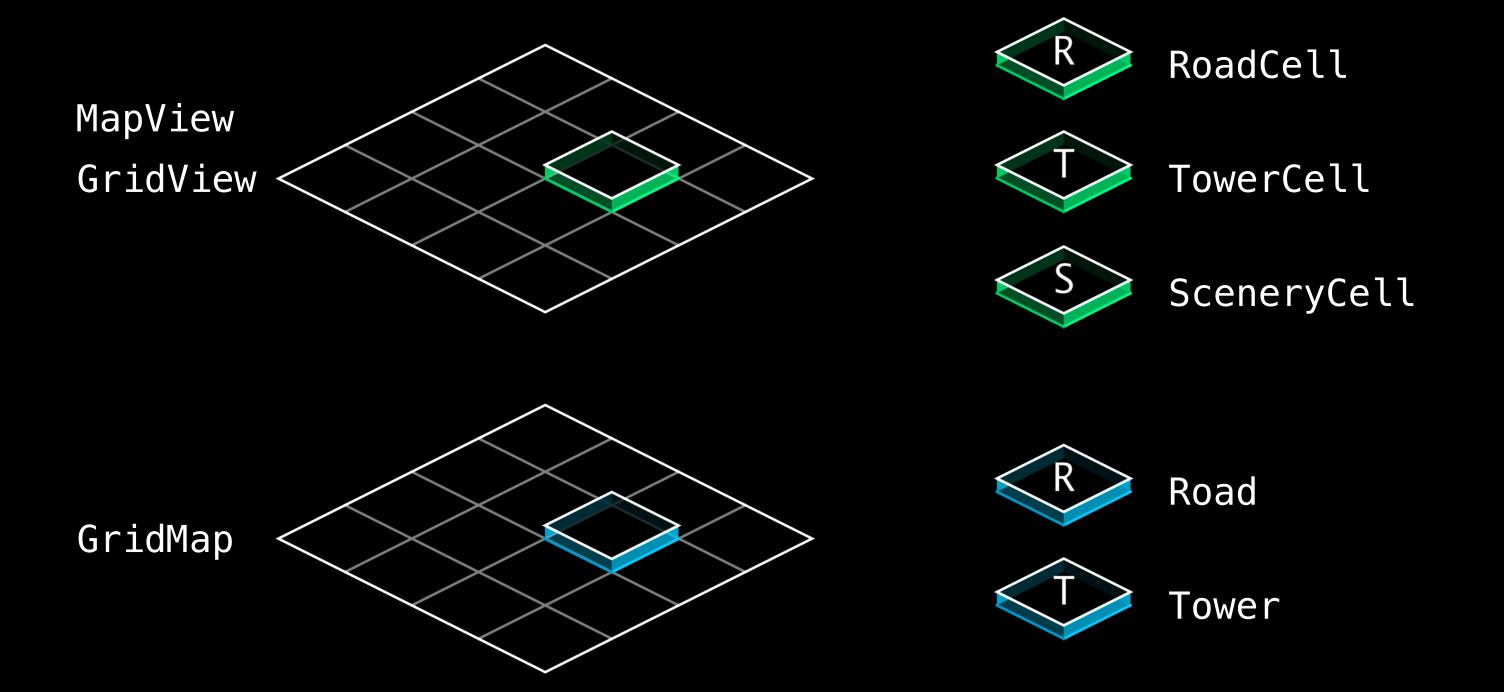
x:double
y:double

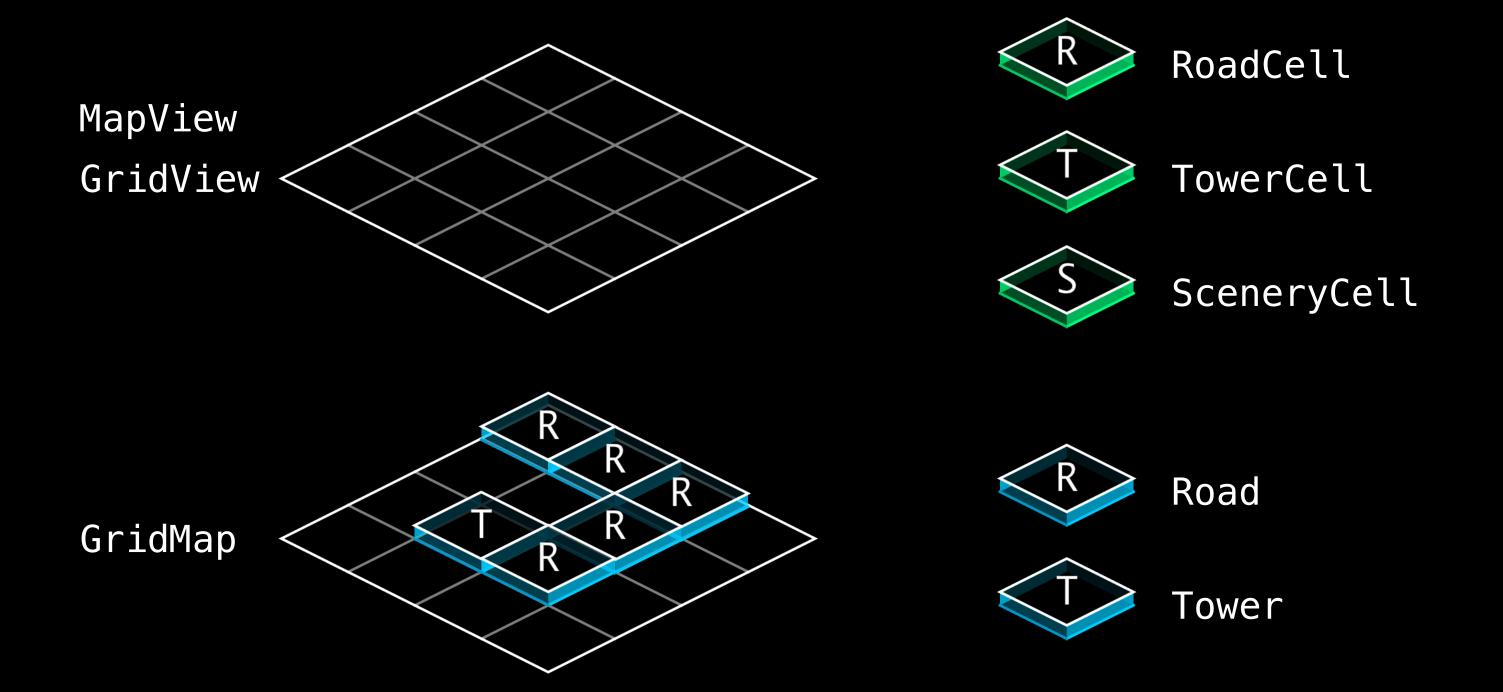


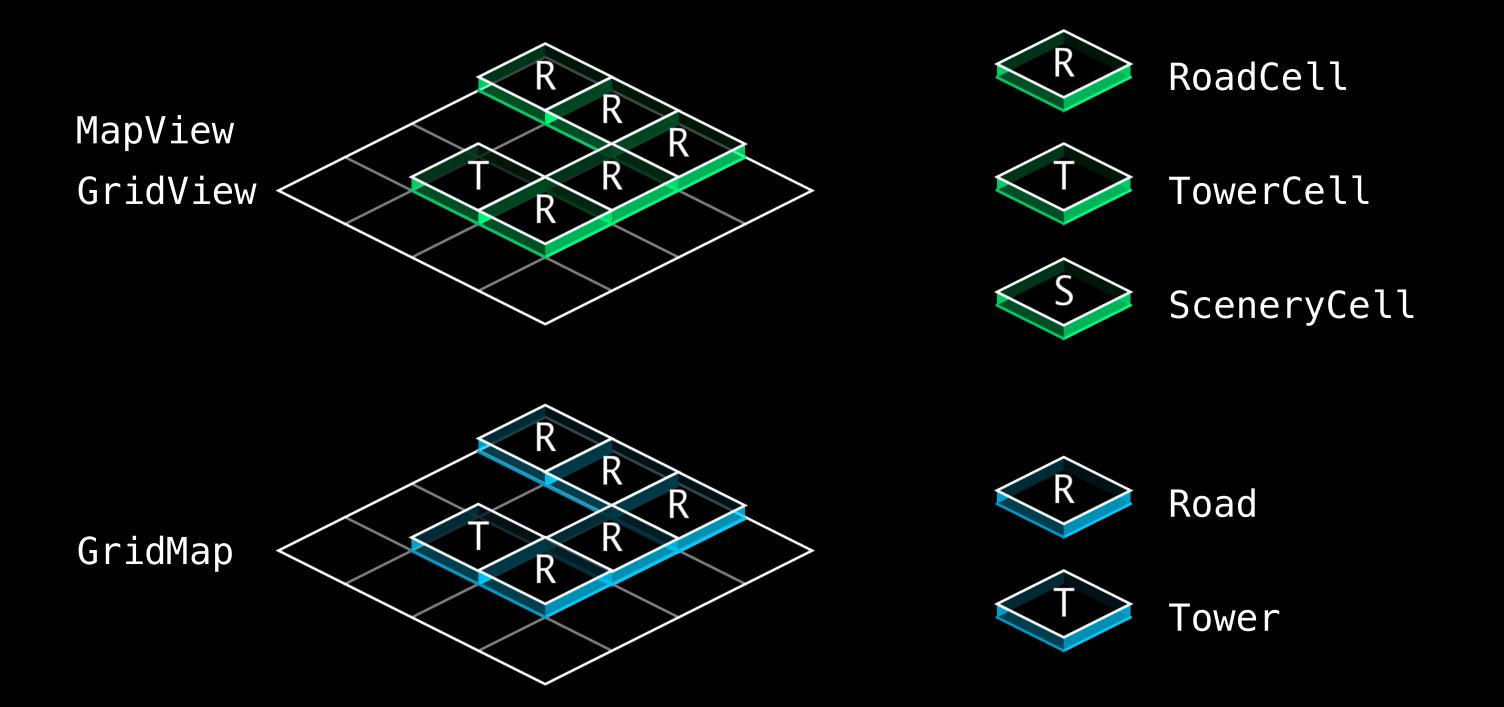
Road



Tower

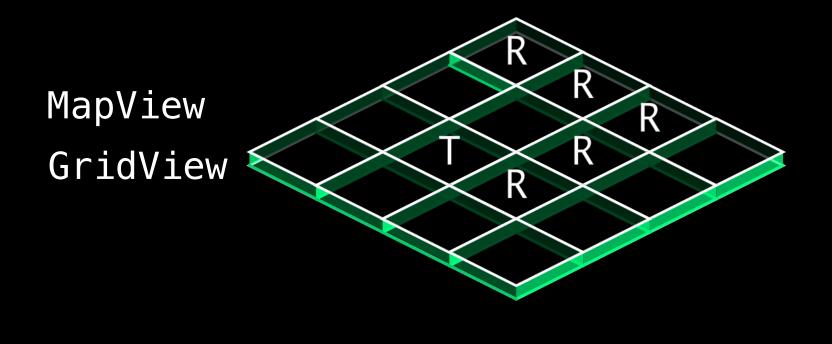


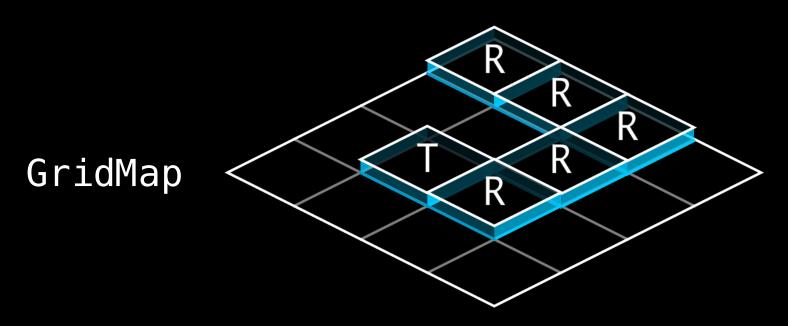




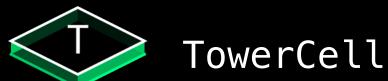
### View Layer

#### Core Classes for Displaying a Map





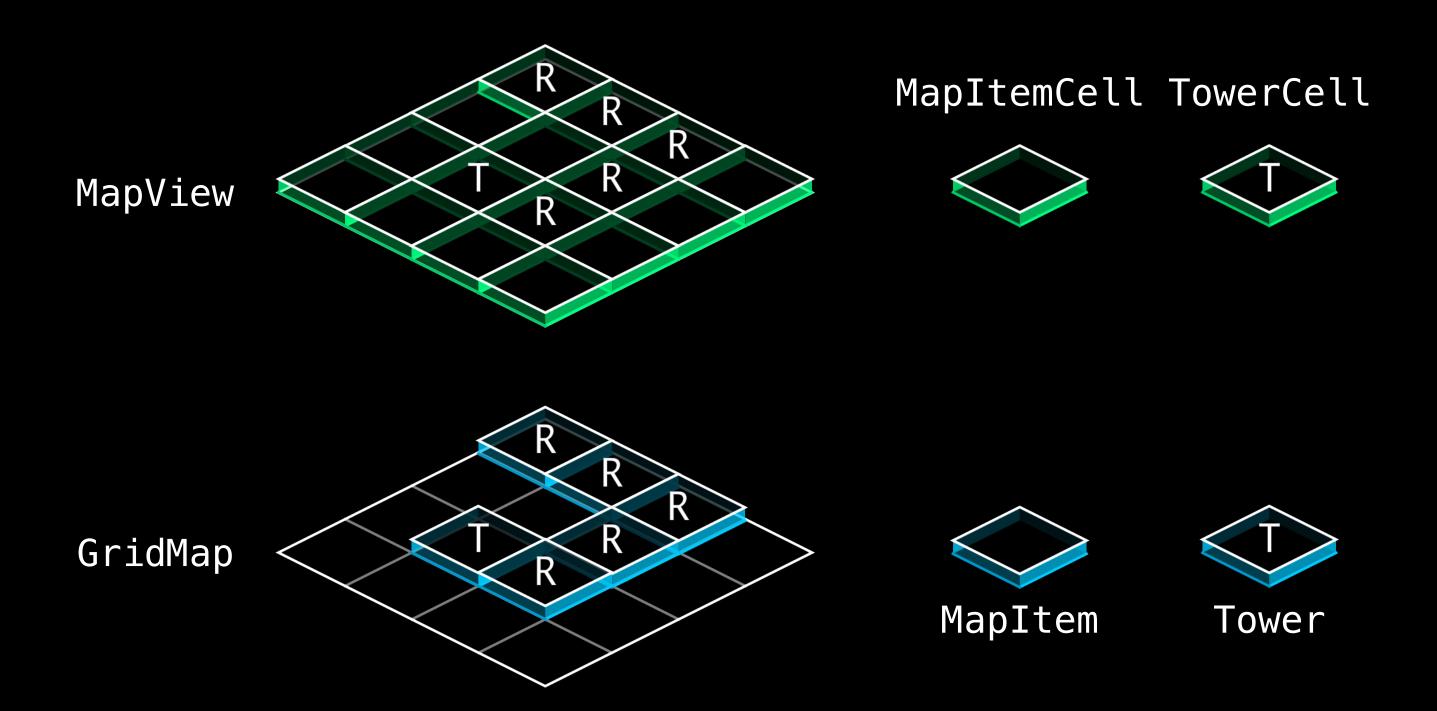


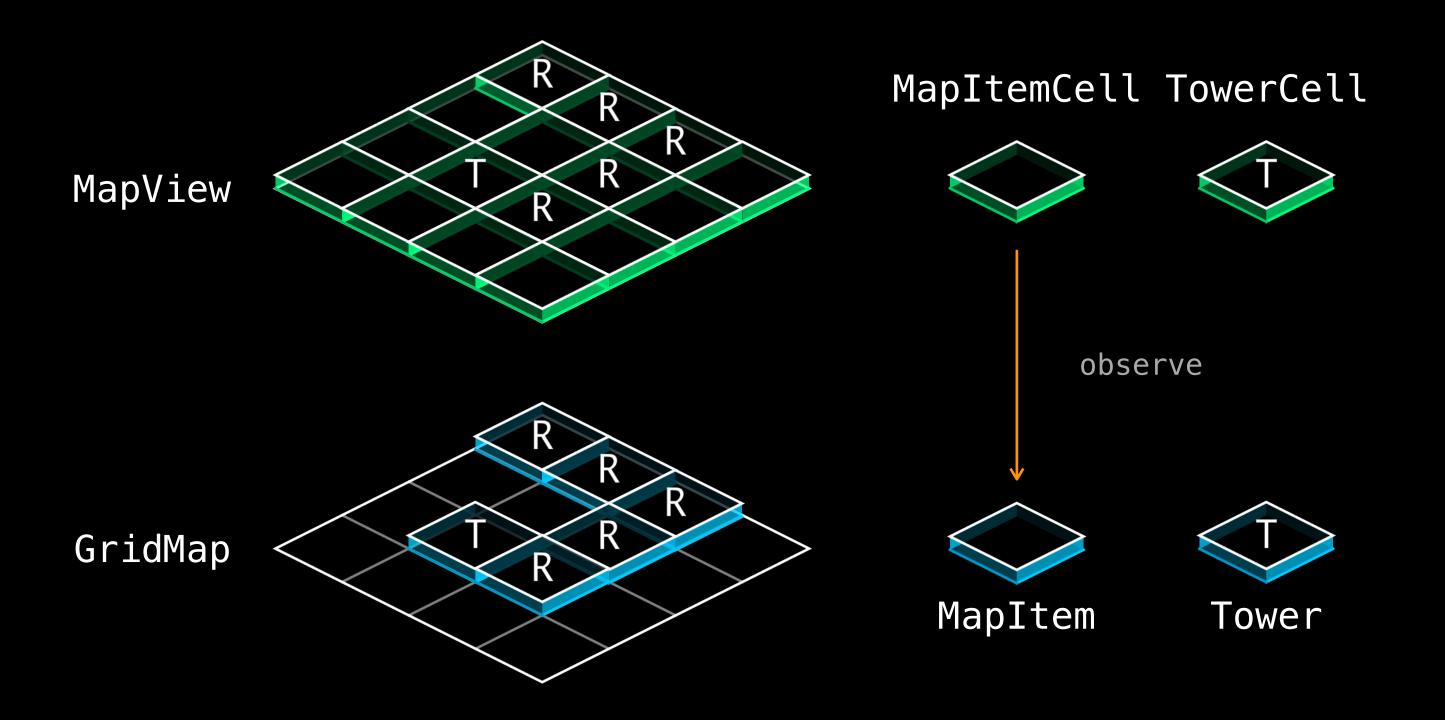


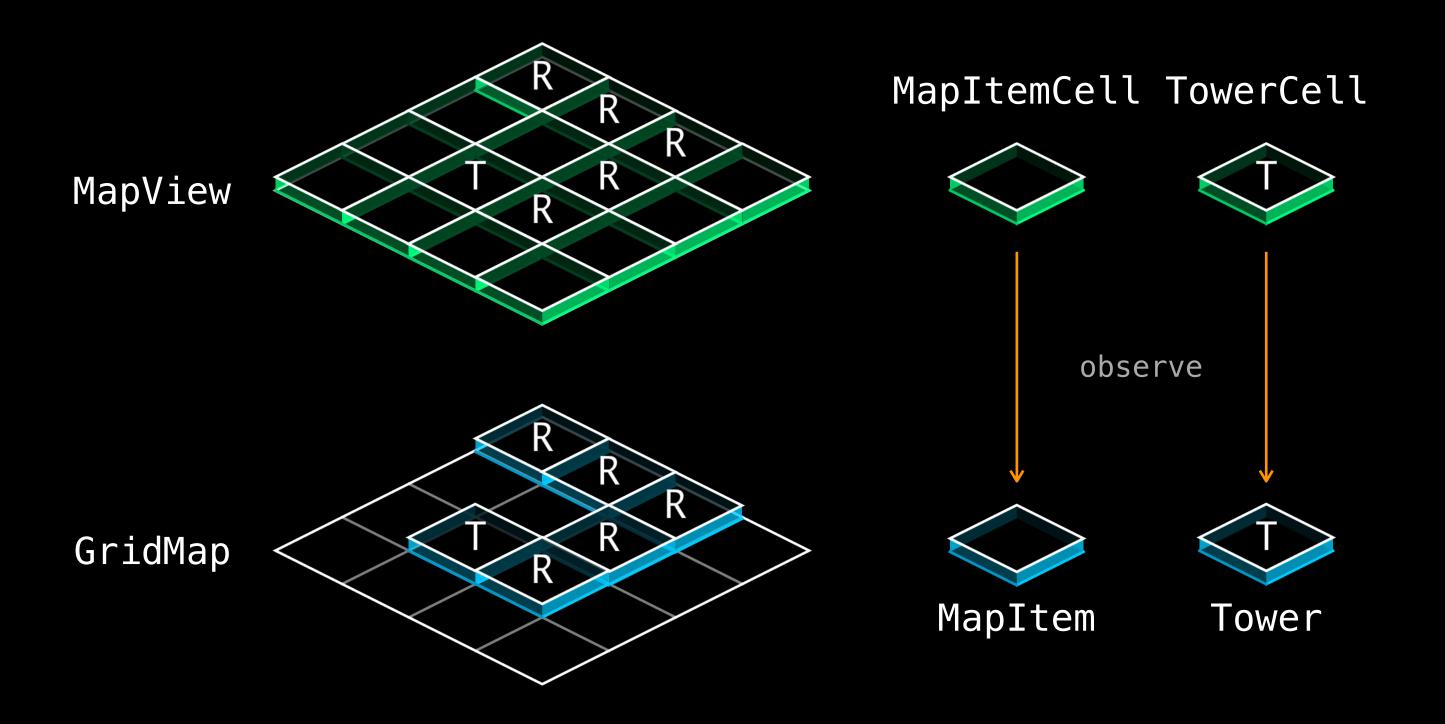


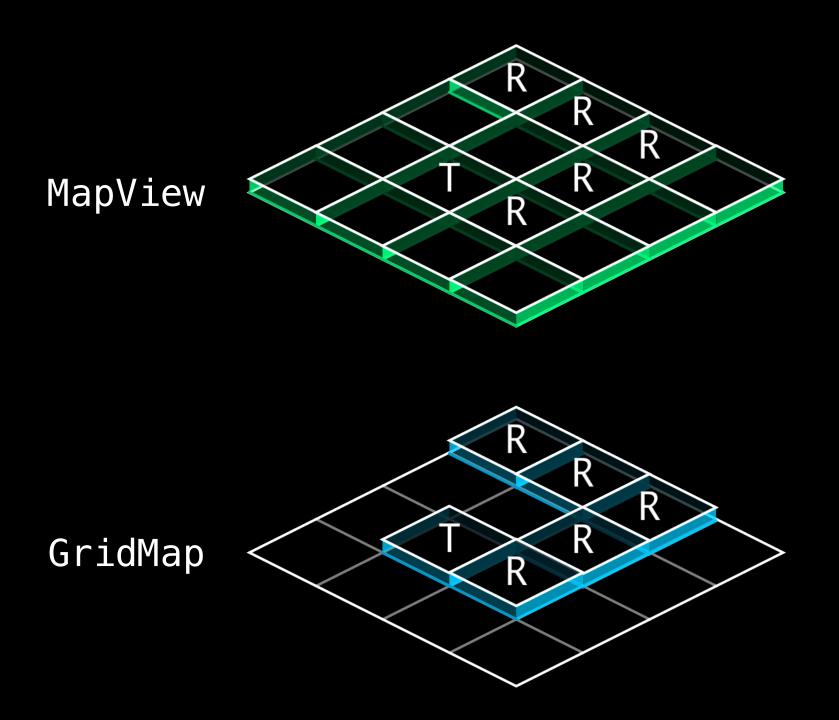








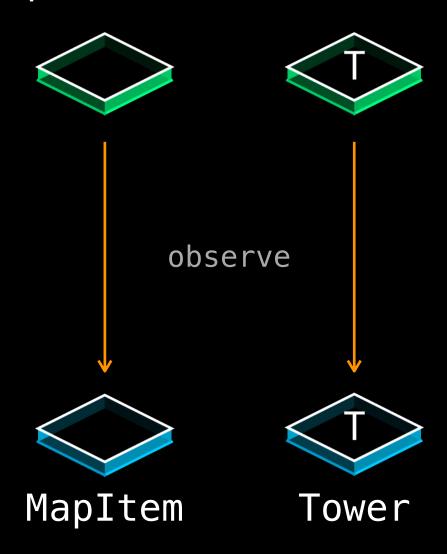




#### MapItemCellFactory

cellFromItem(item:MapItem):MapItemCell

#### MapItemCell TowerCell



# Other Design Pattern Usage

# Other Design Pattern Usage

#### Play

Singleton - a shared instance which has coins, life and map

## Other Design Pattern Usage

#### Play

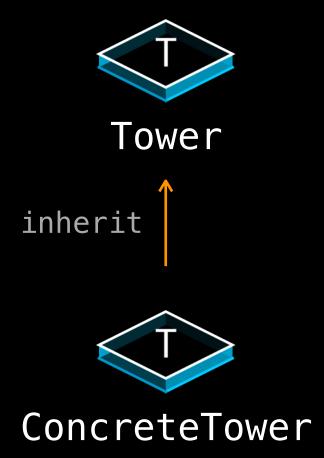
Singleton - a shared instance which has coins, life and map

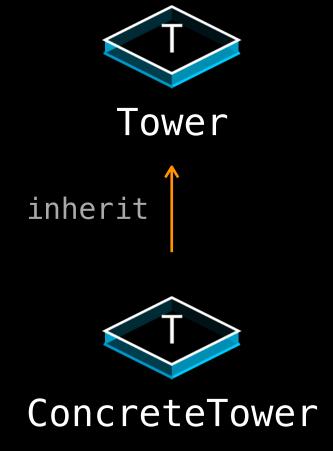
#### Scene

Observer - Watch the coins and life change on Play, and update labels

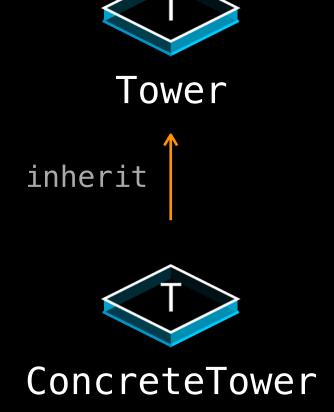
Adapter - Some inner classes is responsible for transferring MapItem to IInspectable



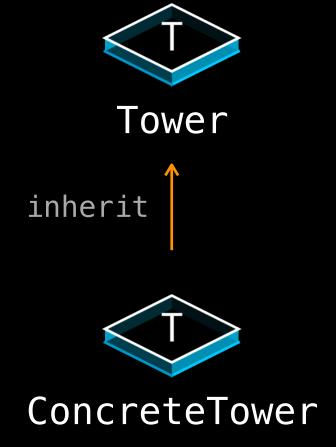


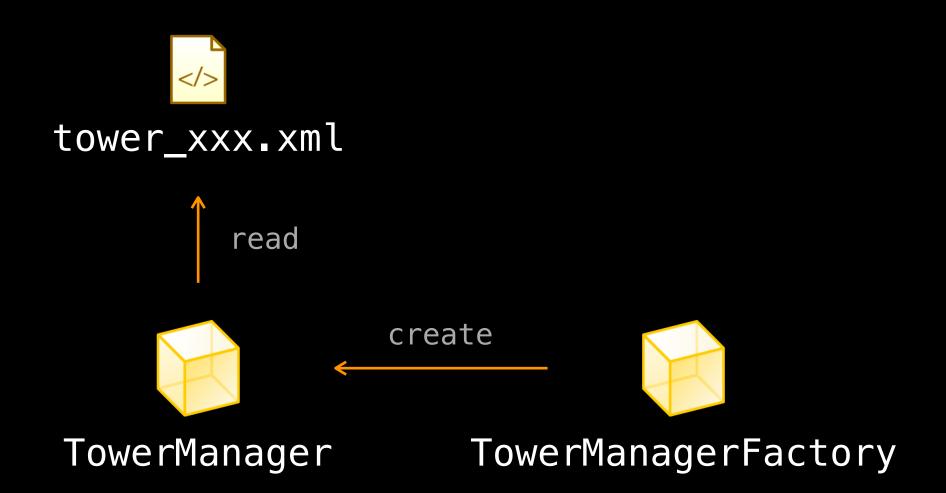


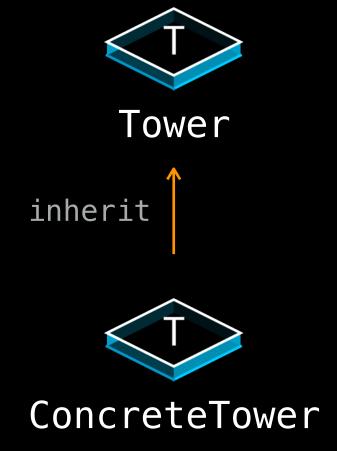


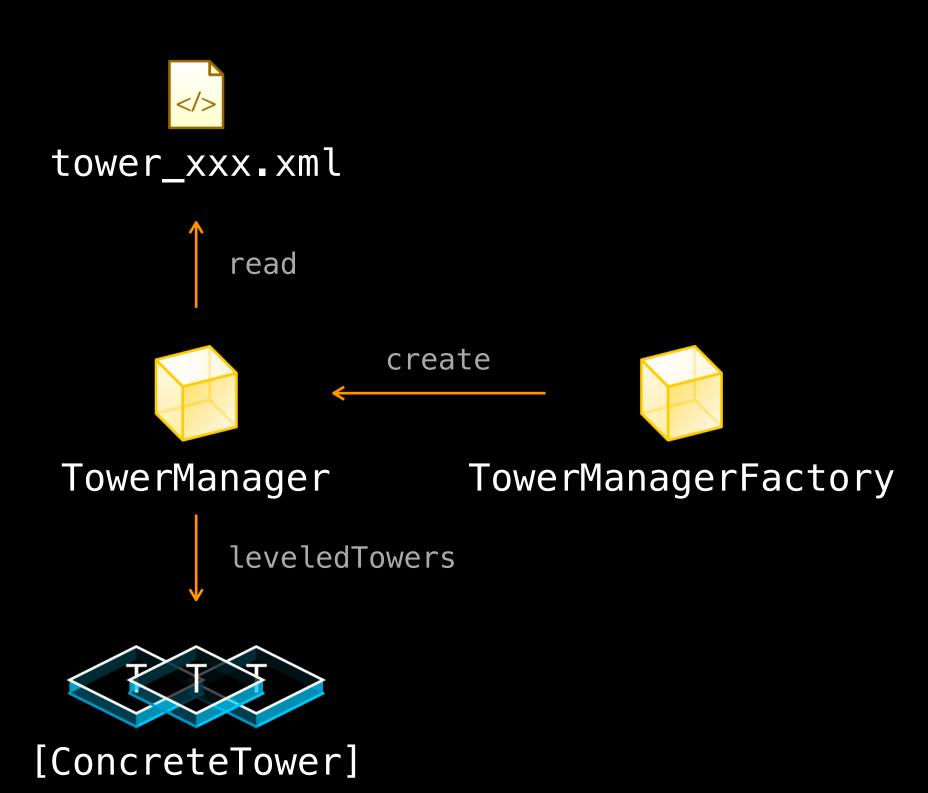


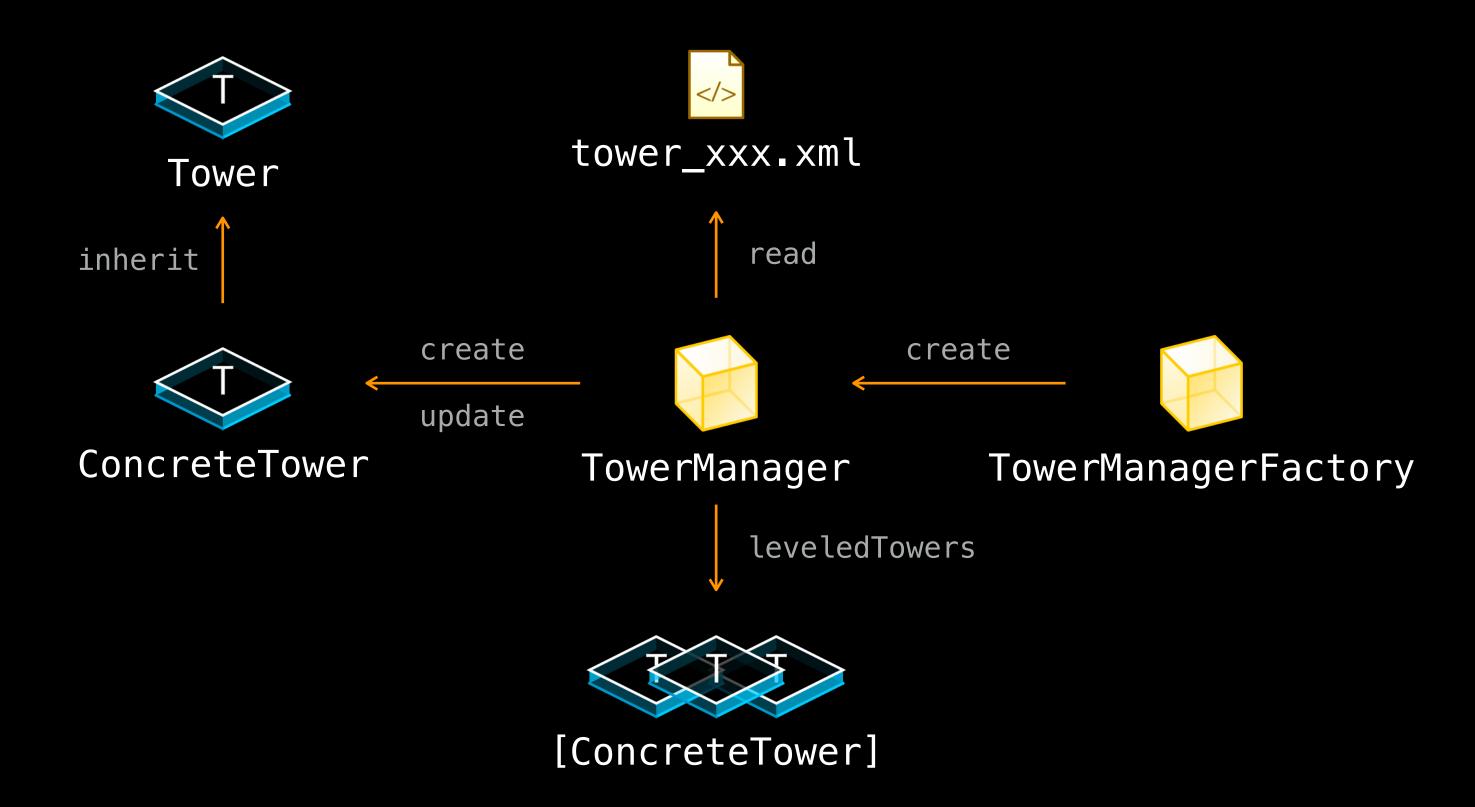


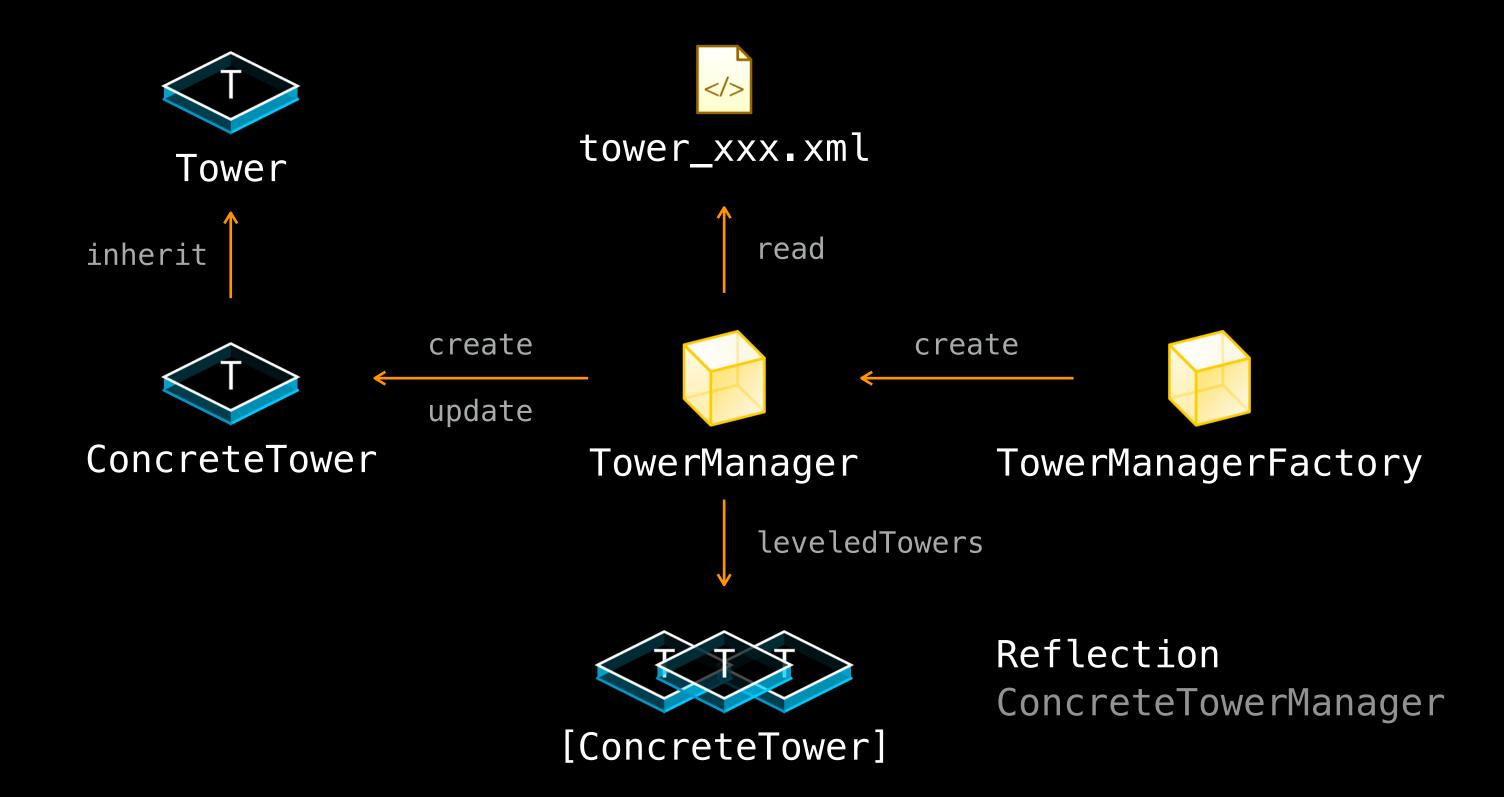












### Demonstration

## Team 10

### Team 10 Code, Doc, Test Everyone

Zhao Zhe

Architecture Design

Play / GridMap / MapView

Sun Hai Yang

**Tower Management** 

Tower File Reading

Mohammad Ali

Map Validation

Map File R & W

Jean Raymond Daher

GridView

EditingScene

Zhang Cheng Long

PlayingScene

Wang Meng Yao

View Flow

User Input Validation

#### Team 10 Artifacts

#### Required

GitHub

Documentation

Test Cases / Suites

Code Standard

#### Extra

Class Diagrams

**UI** Diagrams

**Process Control Diagrams** 

Package Diagrams

Meeting Records

Issue & Milestones

More Tags