RE QUEST OF THE GET_RECT (

THE KOLLAN AWARENS

and the FRUM of Secreta

Samuel Håkansson, Felix Jansson, Jesper Lindström & Simon Sundström

INTRODUCTION & STRUCTURE

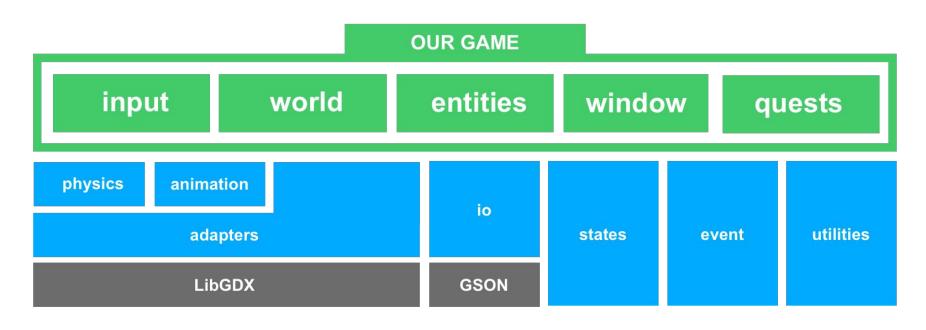
- Demonstration
- Technical solutions
 - Game heirarcy
 - Design patterns
 - Features
- Results
- Questions



DEMO TIME!



GAME HIERARCHY

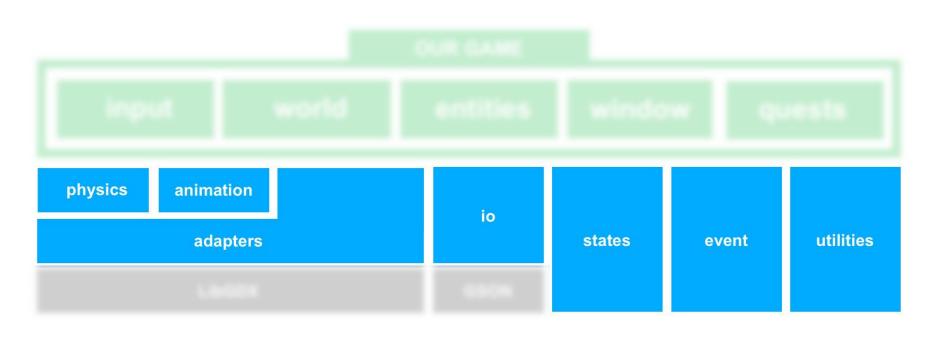






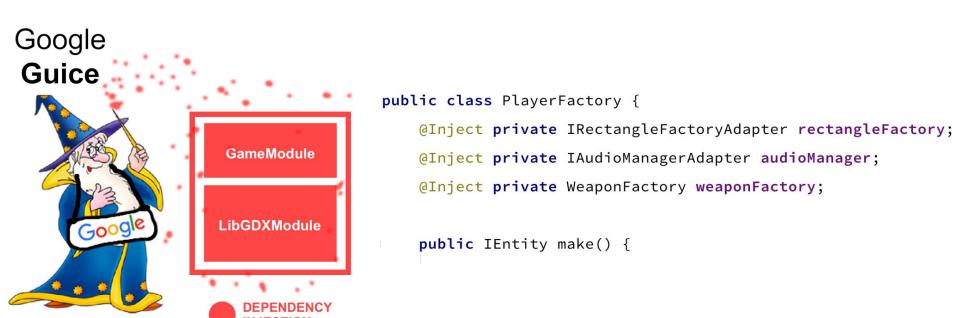


SUBSYSTEMS





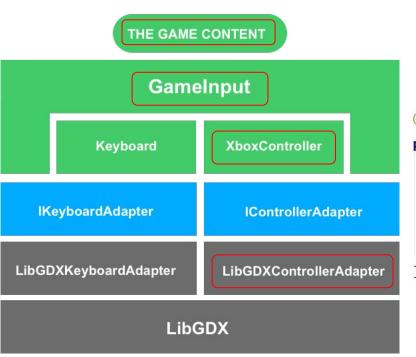
DEPENDENCY INJECTION



GAME WORLDS AND WINDOWS



INPUT MANAGEMENT



```
keys = new HashMap<>();
    public boolean isKeyJustPressed(Actions key) {
                                                                 ) {
         if (key equals(Actions SHOOT))
@Override
public boolean isKeyJustPressed(Keys key) {
    boolean status = keyMap.containsKey(key) && controller
             != null && releasedMap.get(keyMap.get(key));
    releasedMap.put(keyMap.get(key), false);
    return status;
     keys.put(Actions.comrikm, icontrotterinputAdapter.neys.A);
     keys.put(Actions.MENU, IControllerInputAdapter.Keys.START);
     keys.put(Actions.EXIT_MENU, IControllerInputAdapter.Keys.B);
     keys.put(Actions.RESPAWN, IControllerInputAdapter.Keys.BACK);
```

LOADING AND SAVING DATA WITH JSON

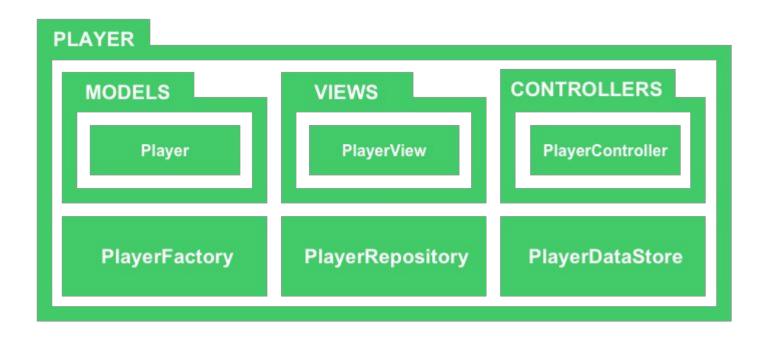
Enemies WorldLoader **EnemyRepository** "type": "zombie", **IOFacade** "x": 1200, "y": 1500 **IOStrategy** }, **JsonIOStrategy** GSON "type": "zombie",

"x": 1500,

```
Weapons
"type": "wand_fire",
"speed" : 100,
"damage": 100,
"cooldown": 20
"type": "wand_arcane",
"speed" : 100,
```

"damage" 50

GAME ENTITIES



QUEST SYSTEM



```
"id": 1,
 "title": "The first one is free",
  "acceptText": "Hello Nollan! I am Rekoil, the Linux dealer her
 "completionText": "Thanks a lot! Here, be discrete... I don't
 "objectives": [
     "type": "computer",
     "action": "installed arch",
     "requiredCount": 6,
     "infoText": "Install Arch Linux"
},
```

AUTOMATED TESTS

94%

42 models, 4002 lines of code









CONCLUSION

EXTENSIBLE RPG GAME FRAMEWORK

NPCs Worlds

Quests Weapons Enemies

