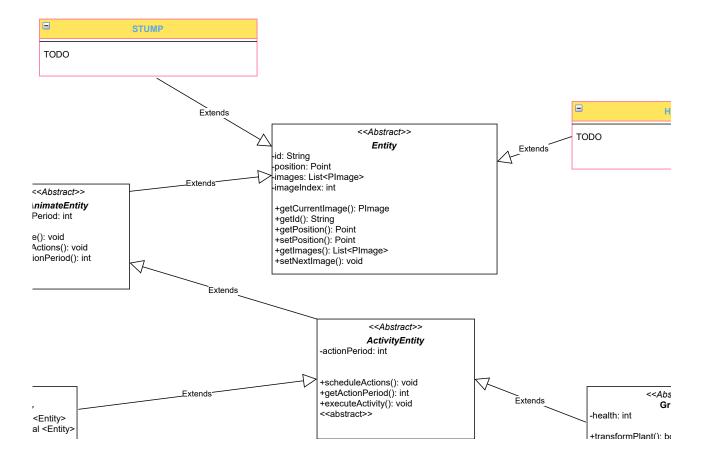
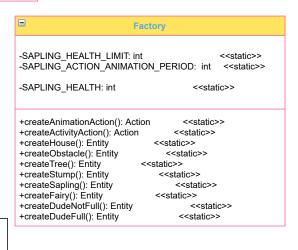


</Abstract>>
RobustEntity
+findNearest(): Optional
+nearestEntity(): Option



OUSE

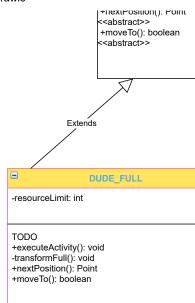


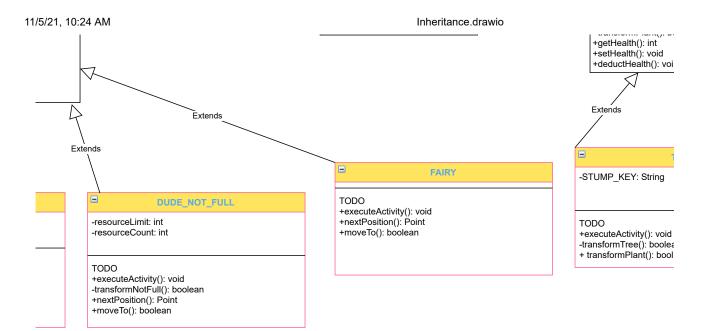
polean <<abstract>>

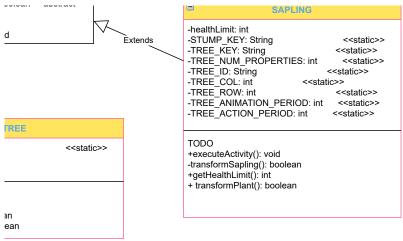
:tract>>

```
WorldModel
-numRows: int
-numCols: int
-background: Background[][]
-occupancy: Entity[][]
-entities: Set<Entity>
-PROPERTY_KEY: int -SAPLING_KEY: String
                                      <<static>>
                                       <<static>>
-SAPLING_HEALTH_LIMIT: int
                                                <<static>>
-SAPLING_NUM_PROPERTIES: int
                                               <<static>>
-SAPLING_ID: String
                                     <<static>>
-SAPLING_COL: int
                               <<static>>
-SAPLING_ROW: int
                                       <<static>>
-SAPLING_HEALTH: int
                                         <<static>>
-BGND_KEY: String
                                    <<static>>
-BGND_NUM_PROPERTIES: int
                                           <<static>>
-BGND_ID: int
                                 <<static>>
-BGND_COL: int
-BGND_ROW: int
                                   <<static>>
                                    <<static>>
-OBSTACLE_KEY: String
-OBSTACLE_NUM_PROPERTIES: int
-OBSTACLE_ID: int <<

<<static>>
                                       <<static>>
-DUDE_KEY: String
-DUDE_NUM_PROPERTIES: int
-DUDE_ID: String
                                      <<static>>
                                            <<static>>
                                <<static>>
-DUDE_COL: int
-DUDE_ROW: int
                           <<static>>
                                   <<static>>
-DUDE_LIMIT: int
                                   <<static>>
-DUDE ACTION PERIOD: int
                                     <<static>>
-DUDE_ANIMATION_PERIOD: int
                                       <<static>>
-HOUSE KEY: String
                                    <<static>>
-HOUSE_NUM_PROPERTIES: int
                                           <<static>>
-HOUSE_ID: String
                                  <<static>>
-HOUSE_COL: int
                                <<static>>
-HOUSE ROW: int
                                <<static>>
-FAIRY_KEY: String
                                    <<static>>
-FAIRY_NUM_PROPERTIES: int <static>>
-FAIRY_ID: String <<static>>
-FAIRY_COL: int <static>>
-FAIRY_ROW: int <<static>>
-FAIRY_ANIMATION_PERIOD: int <<static>>
                                  <<static>>
-FAIRY_ACTION_PERIOD: int <<static>>
```







Inheritance.drawio

<<static>>

-TREE_KEY: String
-TREE_NUM_PROPERTIES: int
-TREE_ID: String <<static>> <<static>> -TREE_COL: int -TREE_ROW: int <<static>> <<static>> -TREE_ANIMATION_PERIOD: int <<static>> -TREE_ACTION_PERIOD: int <<static>> TODO VirtualWorld -withinBounds(): boolean +isOccupied(): boolean -TIMER_ACTION_PERIOD: int <<static>> -VIEW_WIDTH: int -VIEW_HEIGHT: int <<static>> +getOccupancyCell(): Entity
-setBackgroundCell() <<static>> -TILE_WIDTH: int <<static>> -setBackground() -TILE_HEIGHT: int <<static>> +load()
-processLine(): boolean -WORLD_WIDTH_SCALE: int <<static>> -WORLD_HEIGHT_SCALE: int <<static>> -parseBackground(): boolean -VIEW_COLS: int -VIEW_ROWS: int -WORLD_COLS: int <<static>> -parseSapling(): boolean -parseDude(): boolean <<static>> <<static>> -parseFairy(): boolean -parseTree(): boolean -WORLD_ROWS: int <<static>> -IMAGE_LIST_FILE_NAME: String <<static>> -parseObstacle(): boolean -DEFAULT_IMAGE_NAME: String
-DEFAULT_IMAGE_COLOR: int <<static>> -parseHouse(): boolean <<static>> +findNearest(): Optional<Entity> -LOAD_FILE_NAME: String <<static>> -getBackgroundCell(): Background -FAST_FLAG: String <<static>> +getBackgroundImage(): Optional<PImage> -FASTER_FLAG: String
-FASTEST_FLAG: String <<static>> -setOccupancyCell() <<static>> -tryAddEntity() -FAST_SCALE: double <<static>> +addEntity() -FASTER_SCALE: double -FASTEST_SCALE: double <<static>> +moveEntity() <<static>> +removeEntity() -timeScale: double -removeEntityAt() -imageStore: ImageStore +getOccupant(): Optional<Entity> -world: WorldModel +getNumRows(): int -view: WorldView +getNumCols(): int -scheduler: EventScheduler +getEntities(): Set<Entity> +getTreeKey(): String +getSaplingKey(): String +settings() +setup() +draw() +mousePressed() -mouseToPoint() +keyPressed() +createDefaultBackground() <<static>> +createImageColored() <<static>> +loadWorld() <<static>> +loadWorld() <<static>> WorldView +scheduleActions() <<static>> +parseCommandLine() <<static>> -screen: PApplet +main() <<static>> -world: WorldModel -tileWidth: int -tileHeight: int -viewport: Viewport TODO +shiftView() -drawBackground() -drawEntities() +drawViewport() +getViewport(): Viewport Ξ EventScheduler -eventQueue: PriorityQueue<Event> -pendingEvents: Map<Entity, List<Event>> -timeScale: double TODO +scheduleEvent()

Inheritance.drawio

-removePendingEvent()
+updateOnTime()

TODO

-rand: Random < <static>> -COLOR_MASK: int <<static>> -PATH_KEYS: List<string> <<static>> +getNumFromRange: int <<static>></static></static></string></static></static>
-COLOR_MASK: int
-PATH_KEYS: List <string> <<static>></static></string>
+getNumFromRange: int
+getNumFromRange: int < <static>></static>
5
+setAlpha() < <static>></static>
+clamp() < <static>></static>

magociolo. magociolo	
TODO +executeAction() -executeActivityAction()	TODO +executeAction() -executeAnimationAction()