Ball (Chino encargado ?)

Description: La bola controla el juego. hay que saber

bool ballgameover

int status; // waiting, playing, game over

Functions: setup() update()

bool isInsideScenario(ofBox); bool setGameOverBall(); // callback from GameOverCollision

SimpleObject (Kuba)

- Id generic

- size(ofVec3f) worldPosition (ofMatrix4x4) - Centroide (ofVec3f) // for what? - bvisible (boolean) colisionCounter (int)

(Physics Properties) - enum {Static/dynamic/Kinematic} - float Damping - float Friction

(Events Status): bool bAnimation bool bColision

objDisplay mygraphicobject

- setup(ofxBulletWorldRigid &world,

- update() // check distance to ball & call

updateAnimations, etc.. - draw()

SpringObject (Chino encargado?)

Description: Objeto que multiplica la fuerza con que la bola rebota

- shapeType (enum ..) - shape (bullet shape object)

VectorColision (ofVec3f) EnergyCollision (Float) Time to pull: (int); objDisplay animation functions: checkDistance2ball(int idBall);

Lever (Chino encargado ?)

Description: Palancas Vars: - shapeType (enum ..) - shape (bullet shape object) velocity (float)

angle (float)

Functions:

setup()

checkDistance2ball(int idBall);

ContainerObject (Chino encargado?)

Description: La bola para y rebota después de un tiempo (o un evento?)

shapeType (enum ..) shape (bullet shape object) int timebeforeaction; Hammer myHammer;

functions:

update() // ? checkDistance2ball(int idBall);

void cachBall(int idBall, ofVec3f stopPos) // capturamos la bola en una pos

Hammer (Chino encargado ?)

Description: Objeto que se usa para empujar la bola (en el estado initial o para los objectos containers)

Vars: Public

energy (float) Shape ()

ofVec3f startmov ofVec3f endmov int duration

start(Timer t) //

Private:

Functions: setup(ofVec3f startPoint, ofVec3f EndPoint, enum Shape, ofVec3f Size, worldPos)

checkDistance2ball(int idBall);

Description:

Save / get users scores from XML

int bestNumMissionsCompleted;

GameStatus (singletoon class) // reference about singleton design pattern "Chapter 6. Implementing Singletons"

from Modern C++ Design by Andrei Alexanrescu

Description:

Manages the game score, players, levels, todo

int idPlayer;

int score;

int lives;

int currentMission; enum gamestatus {waintingStart, playing, gameOver};

ranking myRanking; <int> missionsCompleted;

Functions: saveRanking();

PinballChinoManager (Chino encargado?)

Description: La clase mas basica que actualiza el mundo, el estado del juego, y puede crear/tener mas de un escenario.

Scenario myScenario1;

ofxBulletWorldRigid world; ofCamera camera;

GameStatus mygamestatus;

Functions: setup()

update() draw()

Ranking (Chino encargado?)

int bestPlayer;

int bestScore:

Functions:

saveXmlScore(gameNumber, numMissionsCompleted, score)

loadXmlRanking();

Scenario (Chino encargado?)

Description: Responsable por inicializar y controlar los elementos de un escenario del juego.

ofxBulletWorldRigid * world;

ofBoxBullet wall_bottom, wall_top, wall_left, wall_right;

vector <Ball> myball;

vector<SpringObject> mySimpleSprings; vector<ContainerObject> mySimpleContainers;

Hammer mypullball;

Lever leftlever: Lever rightlever;

Functions: setup(ofxBulletWorldRigid &world) update();

draw(); loadScenario(xmlfile)

outObjectScenario (Chino encargado ?)

Description: Responsable de informar que una bola se ha salido del escenrio

ofBox box: event outCallback;

loadEvent()

Functions: setup(ofMatrix4x4 worldPosiotion, ofVec3f size)

objDisplay (Chino encargado?

Description: Se encarga de los métodos y atributos que controlan la exhibición del objeto

State (normal / collision / animation) textureFilename (string); videoFilename (string); bAnimated (bool);

worldposition (ofmatrix4x4) shapeType (enum)

setup(worldposition, shape) update(gameStatus, objectStatus) eventCollision()

video_objDisplay (Chino

ofxVideoPlayer player

setup(filename, pos) draw()

img_objectDisplay (Chino encargado?)

oflmage image

setup(filename, pos) draw()

sound_objectDisplay (Chino encargado?)

ofSound sound setup(filename, pos)

Description: Manages the goals and statuses of a mission within a scenario (time, points to achieve, tasks,

Vars:

int idMision: int MissionTimeLimit;

simpleMission

Functions:

virtual setup(int type) virtual update()

bool isMissionCompleted()

Mission 1

Description: La primera mision sera completar un numero de puntos en un timepo concreto.

Vars:

int MissionTargetPoints; int MissionTimeLimit; ofXmlSettings xmdatamision; // num points , tiempo a resolver ofxTimer timer;

Functions:

loadMision(ofxXmlSettings mySettings) //Actualiza los valores de points, time, goals,

finishMission(); //callback from Timer update();