ShadowFlap Weapon Lifebars empty-heart -level0background:Image = new -WeaponImage: Image -emptyheart:Image = new -LifebarImage: Image Image("res/level-0/background.png") Image("res/level/noLife.png") -initialx:double = 100 -range:int -level1background:Image = new -targetType:String -initialy:double = -15Image("res/level-1/background.png") -stored:boolean -heartgap:double = 50 -level0bird:level1 bird $-MAX_Y$: double = 500 -level1bird:level0 bird $-MIN_Y:double = 100$ - INSTRUCTION_MSG:String = "PRESS SPACE TO +update():void -weapon_attack_speed: double = 5 START" +renderheart(x:double):void -GAME_OVER_MSG:String = "GAME OVER!" -CONGRATS_MSG:String = "CONGRATULATIONS!" -SCORE_MSG:String = "SCORE: " - FINAL_SCORE_MSG:String = "FINAL SCORE: " Plasticpipes -weapon_move_speed: double = 3 -x: double -plasticimage:Image = new -y:double Image("res/level/plasticPipe.png") full-heart - FONT_SIZE:int= 48 -FONT:Font = new Font("res/font/slkscr.ttf", FONT_SIZE) +update():Rectangle -SCORE_MSG_OFFSET: int =75 -fullheart:Image = new +destory(pipe:pipes):boolean +getbox(weapon:Weapon):Rectangle - level0pipeSet[15]:PipeSet Image("res/level/fullLife.png") -level1pipeSet[40]:PipeSet +renderweapon(x:double,y:double):void -weaponSet:ArrayList<weapon> +detectCollision(weapon:Rectangle):boolean -lifebar: ArrayList<Lifebars> +OutOfRange(distance:double):boolean Rock - score:int - gameOn:boolean -rockimage:Image = new -collision:boolean Steelpipes Image("res/level-1/rock.png") win:boolean -destoryed:boolean Pipes -timescale:int -steelpipe:Image = new Image("res/level-1/steelPipe.png") -PipeImage: Image -image: Flame $-PIPE_GAP:int = 168$ +main(args:String[]):void -Pipe_Speed:int = 3 Level1 bird +update(input:Input):void -ROTATOR: DrawOptions +destory(pipe:Pipes):boolean +birdOutOfBound():boolean -HIGH-GAP:int = 100FrenderInstructionScreen(input:Input):void -wingupimage:Image = new -MID-GAP:int = 300+renderGameOverScreen():void Flame Image("res/level-1/birdWingUp.png") +renderWinScreen():void -LOW-GAP:int = 500-wingdownimage:Image= new +detectCollision(birdBox:Rectangle,topPipeBox:Rectangle, -top_pipe_y:double -flameimage:Image= new Image("res/level-1/birdWingDown.png") bottomPipeBox:Rectangle):boolean -bottom_pipe_y:double Image("res/level-1/flame.png") +updateScore():void -pipetype: String +renderlevelupscreen():void + renderPipeset(random: int):void Bird + *update*(timescale: int):void Level0 bird + *getTopbox*:Rectangle Bomb -WingupImage: Image + *getBottombox*:Rectangle -WingDownImage: Image -wingupimage:Image = new -bombimage:Image = new -FLYSIZE: double= 6 Image("res/level-0/birdWingUp.png") Image("res/level-1/bomb.png") -FALLSIZE:double = 0.4 -wingdownimage:Image= new -INITIALY: double = 350 Image("res/level-0/birdWingDown.png") -TERMINAlFALL:double = 10 -framecount: int -X: double= 200 -y:double -yVelocity:double -boundingBox:Rectangle +update(other:Input): Rectangle Steelpipes Plasticpipes Flame Pipes empty-heart Bomb 0..* ShadowFlap Lifebars Weapon Rock 2 full-heart Bird \triangle

Level1 bird

Level0 bird