- 1. Nonplayer
- 2. Laser
- 3. Linear Enemies
- 4. Main
- 5. Player
- 6. Text files for the levels
- 7. Game
- 8. Panel
- 9. Frame
- 10. World
- 11. wall
- 12. goal

WHAT WE GOTTA WORK ON: How do the non players know their direction? How does reading from the text file work?

The constructor for linearEnemy

- 1. public class NonPlayer
 - a. private int direction;
 - b. private int type;
 - c. private int gridX;
 - d. private int gridY;
 - e. private int speed
 - f. private Rect rectangular
 - g. public updateRectangle() updates the rectangle of the nonplayer
 - h. public NonPlayer(int direction, int type, int gridX, int gridY, int width, int height) sets the direction to a randomly generated int, type, gridX and gridY to the received values, sets the rectangle to a new rectangle with constants such as width and height specific to each nonplayer type
 - i. public int getType() will return a number corresponding to the type of Nonplayer that this is (ie laser, linear mover, box mover, etc)
 - j. public int getDirection() will return a number (1 horizontal, 2 vertical, 3 Box) that indicates the direction the Nonplayer performs its attack/movement
 - k. public int getGridX() will return the x value of the Nonplayer in the level grid
 - I. public int getGridY() will return the y value of the Nonplayer in the level grid
- 2. public class Wall extends NonPlayer
 - a. public Wall(int direction, int type, int gridX, int gridY, int width, int height) calls the super constructor with the constants for width and height for a wall
- 3. public class Goal extends NonPlayer
 - a. public Goal(int direction, int type, int gridX, int gridY, int width, int height) calls the super constructor with the constants for width and height for a goal
- 4. public class Laser extends Nonplayer
 - a. private Rectangle beam the laser beam that kills the player
 - b. private int charge holds the charge of the laser between 0 and 100
 - c. private Color laserColor the color of the laser at any point based on changing RGB values based on laser charge
 - d. public void chargeLaser() adds charge to the laser
 - e. public Laser(int direction, int type, int gridX, int gridY, int width, int height) calls
 the super constructor with the constants for width and height for a Laser (the
 body of the laser emitter, not the beam)
- 5. public class linearEnemy extends Nonplayer
 - a. public linearEnemy(Rectangle rect, int moveDist, int direction, int gridX, int gridY, int width, int height) calls super and gets listed values, x and y taken from rectangle
 - b. private int moveDist how far up and down or left and right the object will move

- c. public void mover() changes the Nonplayer's location according to its move patterns
- 6. public class patternEnemy extends Nonplayer
 - a. private int currentDirection the direction it is currently moving
 - b. public linearEnemy(Rectangle rect, int moveDist, int direction, int gridX, int gridY, int width, int height) calls super and gets listed values, x and y taken from rectangle
 - c. private int moveDist how far up and down or left and right the object will move
 - d. public void mover() changes the Nonplayer's location according to its move patterns as well as changing the current Direction when appropriate, achieving a square pattern
- 7. public class main
 - a. public static void main(String[] args) creates the frame
- 8. public class Panel extends JPanel implements KeyListener, Runnable
 - a. public Panel()
 - b. a key listener
 - c. public void paint(Graphics g)
 - d. public void reset()
 - e. private World world
 - f. private Player player
 - g. private Thread t
 - h. private currWorld
 - i. private ArrayList<World> worlds
 - j. private int updatesPerSecond;
 - k. public void update() updates the game, calls the beatLevel on the world object and increases the currWorld if true
- 9. public class Frame extends Jframe
 - a. Frame(String FrameName)
 - b. Panel p
- 10. public class Player
 - a. private int gridX initial grid location of the player's x coordinate
 - b. private int gridY initial grid location of the player's y coordinate
 - c. private Rectangle hitbox the hitbox of the player
 - d. private int direction the direction of the player
 - e. private int lives
- 11. World
 - a. public World(File f) constructor
 - b. private ArrayList<Nonplayer> NonplayerList all enemies on the level
 - c. public Nonplayer[][] textConverter() converts the text files representing the worlds into actual worlds
 - d. public void die() kills the player
 - e. public void checkInteraction() checks to see if the player is touching anything and then reacts accordingly
 - f. public void levelWon() checks if level is won

- g. private File f file we will read the text from
- h. private Scanner fileReader(f) reads the text files for the levels

12. Constants

- a. public static final int LINEAR_SPEED 10
- b. public static final int PATTERN SPEED- 5
- c. public static final int PLAYER_SPEED 10
- d. public static final int UP 1
- e. public static final int DOWN- 2
- f. public static final int LEFT 3
- g. public static final int RIGHT 4
- h. public static final int LINEAR_ENEMY- 1
- i. public static final int PATTERN_ENEMY- 2
- j. public static final int LASER 3
- k. public static final int WALL 4
- I. public static final int GOAL 5
- m. public static final int PLAYER 6