ActionHolder

- action: String

+ ActionHolder(String action)
+ setAction(String action): void
+ getAction(): String

App

- drwpnl: DrawingPanel
- actionpnl: ActionButtonPanel
- actionholder: ActionHolder

+ App()
+ main(String [] args): void

AnimationTimer

- drwpnl: DrawingPanel
- drone: Drone
- movex: int
- movey: int

+ AnimationTimer(DrawingPanel drwpnl, Drone drone, int movex, int movey)
+ AnimationTimer(DrawingPanel drwpnl, Drone drone)
+ getMovex(): int
+ getMovey(): int
+ setMovex(int x): void
+ setMovey(int y): void

ColorShape

- _borderColor: java.awt.Color
- _fillColor: java.awt.Color
- strokeWidth: int
- rotation: double
- _shape: java.awt.geom.RectangularShape
- drone: Drone
- drwpnl: DrawingPanel

+ ColorShape (java.awt.RectangularShape s, Drone drone, DrawingPanel drwpnl)
+ setColor(Color color): void
+ setBorderColor(Color color): void
+ setFillColor(Color color): void
+ getMaxX(): int
+ getMaxY(): int
+ getX(): int
+ getY(): int
+ setLocation(int x, int y): void
+ setSize(int x, inty): void
+ contains (java.awt.Point p): boolean
+ draw (Graphics2D aBrush): void
+ fill (Graphics2D aBrush): void

ActionButtonPanel

- follow: JRadioButton
- random: JRadioButton
- nothing: JRadioButton
- bg: ButtonGroup
- actionHolder: ActionHolder

+ ActionButtonPanel(DrawingPanel drwpnl, ActionHolder actionHolder)

DrawingPanel

- folDrone1: Drone
- folDrone2: Drone
- folDrone3: Drone
- selected: Drone
- timer: AnimationTimer
- f1Timer: AnimationTimer
- f2Timer: AnimationTimer
- f3Timer: AnimationTimer
- movex: int
- movey: int
followingDrones: ArrayList<Drone>
leaderDrone: Drone

+ DrawingPanel(ActionHolder actionHolder)
+ getMovex(): int
+ setMovex(int movex): void
+ getmovey(): int
+ setMovey(int movex): void
+ getSelected(): Drone
+ getSelectedTimer(): AnimationTimer
+ setSelected (Drone drone): void
+ getLeaderTimer(): AnimationTimerx
+ move(): void
+ paintComponent(Graphics g): void

Drone

- x: int
- y: int
- bodySize: int
- wingSize: int
- drwpnl: DrawingPanel
- drone: Drone
- actionHolder: ActionHolder
body: ColorRectangle
fwing: ColorEllipse
rwing: ColorEllipse

+ Drone(int x, int y, int bodySize, int wingSize, DrawingPanel drwpnl, ActionHolder actionHolder)
+ getBodySize(): int
+ setBodySize(int size): void
+ setColor(Color color): void
+ setBodyColor(Color color): void
+ setWingColor(Color color): void
+ setLocation(int x, int y)
+ setSize(int x, int y)
+ draw(Graphics2D brush): void
+ fill (Graphics2D brush): void
+ setx(int x): void
+ sety(int y): void
+ getx(): int
+ gety(): int
+ move(): void
+ performAction(ActionHolder actionHolder): void
+ display(): void
+ mouseClicked(MouseEvent e): void
+ mouseEntered(MouseEvent e): void
+ mouseExited(MouseEvent e): void
+ mousePressed(MouseEvent e): void
+ mouseReleased(MouseEvent e): void

ButtonListener

- String action

+ ButtonListener()
+ actionPerformed(ActionEvent e) : void

<<interface>>
ActionListener

+ actionPerformed(ActionEvent e) : void

ColorRectangle

- drone: Drone
- drwpnl: DrawingPanel

+ ColorRectangle (Color aBorderColor, Color aFillColor, Drone drone, DrawingPanel drwpnl)

ColorEllipse

- drone: Drone
- drwpnl: DrawingPanel

+ ColorEllipse (Color aBorderColor, Color aFillColor, Drone drone, DrawingPanel drwpnl)