Stars Star Form1 - starList: List<Star> - point: Point star(+) random: Random - pen: Pen KeyPress: List<Keys> - rectangle: Rectangle Game - Bounderies: Rectangle «delegate» + Point { get; set; } : Point pen: Pen game: Game **GameOverEvent** starsNumber: Int32 = 300 + Pen { get; } : Pen - random: Random - PlayerLife: Int32 + Star(point: Point, pen: Pen) - components: IContainer - random: Random + Stars(random: Random, rectangle: Rectangle) + downfall(rectangle: Rectangle): Void - timer1: Timer - enemyList: List<Enemy> + Draw(g: Graphics) : Void GameOver: Boolean enemyBullet: List<Bullet> - playerBullet: List<Bullet> + Form1() - dieEffect: List<DieEffect> game Form1() - wave: Int32 - PaintEvent(sender: Object, e: PaintEventArgs) : Void gameScore: Int32 - Timer_Tick(sender: Object, e: EventArgs) : Void stars: Stars - KeyPressDown(sender: Object, e: KeyEventArgs) : Void - player: Player **Bullet** KepPressUp(sender: Object, e: KeyEventArgs) : Void - enemyani: Int32 + SetGameOver(): Void - frameskip: Int32 - location: Point # Dispose(disposing: Boolean) : Void - frameskipMax: Int32 - moveInterval: Int32 - InitializeComponent(): Void - moveDirectionEnemy: Int32 width: Int32 Draw enemyMoveDown: Boolean height: Int32 enemyShootDelay: Int32 size: Size - enemyShootDelayMax: Int32 - rectangle: Rectangle «enumeration» - enemyScore: List<EnemyDie> # Draw() **Direction** + NotInRect: Boolean - drawGameScore: Point - ShowDraw(g: Graphics) : Void gameOverImage: Bitmap Left = 0- ShowDraw(g: Graphics, animation: Int32): Void + Location { get; } : Point + g: Graphics Right = 1+ Bullet(location: Point, rectangle: Rectangle, speed: Int32) + CilentRect: Rectangle Up = 2+ draw(g: Graphics, color: Color): Void + DrawLine: Boolean Down = 3+ Move(direction: Direction): Void + GameOver : GameOverEvent + Game(rectangle: Rectangle, random: Random) + Update(random: Random): Void DieEffect - Game_GameOver(): Void + DrawDieEffect(g: Graphics): Void point: Point + CheckForPlayerByEnemyBullet(g: Graphics): Void Player - color: Color + TotalScoreDraw(g: Graphics): Void - g: Graphics Enemy + CheckForEnemyByPlayerBullet(g: Graphics): Void - deadShipHeight: Int32 - time: DateTime + KillScoreDraw(g: Graphics): Void + Alive: Boolean pen: Pen + PlayerBulletDraw(g: Graphics): Void - enemytype: EnemyImage + bounderies: Rectangle - rectangle: Rectangle + EnemyBulletDraw(g: Graphics): Void - bitmap: Bitmap - location: Point - frame: Int32 + EnemyDraw(g: Graphics) : Void - area: Rectangle - x: Int32 - moveHorizonInterval: Int32 = 25 + drawPlayerLife(g: Graphics) : Void - setEnemyImage: Int32 - y: Int32 + NextWave() : Void - moveHorizonInterval: Int32 = 10 + deadtime { get; set; } : DateTime - width: Int32 + MoveAllEnemy(direction: Direction): Void - moveVerticalInterval: Int32 = 30 + area { get; set; } : Rectangle - height: Int32 - MovingAllEnemy(dir: Int32): Void + image { get; set; } : Bitmap + CheckForPlayerCollision() : Boolean + score { get; set; } : Int32 + DieEffect(point: Point, g: Graphics) + Location { get; } : Point - CheckForMoveAllEnemy(): Void + Area { get; } : Rectangle + draw(q: Graphics) : Boolean + Player(location: Point, bounderies: Rectangle) + EnemyShoot(): Void + Enemy(enemyImage: Int32, score: Int32, location: Point) - showimage(ani: Int32) : Image + SetImagePlayer(): Void + EnemyFire(): Void + Move(direction: Direction): Void + Draw(g: Graphics) : Void + PlayerFire(): Void + Draw(g: Graphics, animation: Int32): Void + Move(direction: Direction): Void + CheckForEnemyCollision(point: Point) : Enemy - EnemyAni(ani: Int32) : Bitmap + Dead(): Void + playerMove(direction: Direction): Void **EnemyDie** enemytype + Twinkle(g: Graphics) : Void point: Point «enumeration» dateTimeNow: DateTime Enemylmage - dateTimeAfterSecond: DateTime - score: Int32 Star = 0FlyingCup = 1+ EnemyDie(point: Point, score: Int32) SpaceShip = 2+ die() : Boolean Satellite = 3 + draw(g: Graphics): Void Bug = 4