

Camera

- const XMVECTOR WORLD_UP
 - XMVECTOR position
 - XMVECTOR forward
 - XMMATRIX worldMatrix
 - XMMATRIX viewMatrix
 - XMMATRIX projectionMatrix
 - float nearPlane
 - float farPlane
 - float fov
 - const float FOV_CHANGE_SPEED
 - const float ZOOM_CHANGE_SPEED
 - const float ZOOM_MIN
 - const float ZOOM_MAX
 - const float ZOOM_DISTANCE_FACTOR
 - float aspectRatio
 - float cameraDistance
 - float theta
 - float phi
 - const float epsilon
 - const float ROTATION_SPEED
 - XMVECTOR velocity
 - XMVECTOR movementDirection
 - const float MOVE_SPEED
 - const float acceleration
 - const float dragFactor
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- + float toRadians(float degrees)
 - + float toDegrees(float radians)
 - + void Initialize(int windowWidth, int windowHeight)
 - + void changeAspectRatio(float newAspectRatio)
 - + void AdjustFOV(float fovChangeFactor)
 - + void Zoom(float zoomFactor)
 - + void Rotate(int dx, int dy)
 - + void MoveCamera(float dx, float dy, float dz)
 - + void stopMovement()
 - + void moveForward()
 - + void moveLeft()
 - + void moveBackward()
 - + void moveRight()
 - + void Update(double deltaTime)
 - + void calculateP()
 - + void calculateV()
 - + XMVECTOR getPosition()
 - + XMMATRIX getW()
 - + XMMATRIX getV()
 - + XMMATRIX getP()