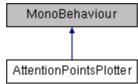
AttentionPointsPlotter Class Reference

Draws the gaze point positions as a point cloud, or, if the use filtering toggle is on, with a single bubble sprite with smoother movements. More...

Inheritance diagram for AttentionPointsPlotter:



Public Attributes

int PointCloudSize = 10

Number of gaze points in point cloud. More...

Sprite PointSprite

Sprite to use for gaze points in the point cloud. More...

float PointScale = 0.1f

Scale to draw the point sprites in the point cloud. More...

float VisualizationDistance = 10f

Distance from screen to visualization plane in the World. More...

float FilterSmoothingFactor = 0.15f

How heavy filtering to apply to gaze point bubble movements. 0.1f is most responsive, 1.0f is least responsive. More...

GameObject gameObject

Properties

bool UseFilter[get, set]

Private Member Functions

void Start ()

void Update ()

void InitializeGazePointBuffer ()

void InitializeGazePointCloudSprites ()

void UpdateGazePointCloudVisibility ()

bool IsNotTooOld (GazePoint gazePoint)

void **UpdateGazeBubblePosition** (GazePoint gazePoint)

void **UpdateGazePointCloud** (GazePoint gazePoint)

void UpdateGazeBubbleVisibility ()

int Next ()

Vector3 ProjectToPlaneInWorld (GazePoint gazePoint)

Vector3 Smoothify (Vector3 point)

Private Attributes

GazePoint	_lastGazePoint = GazePoint.Invalid
GazePoint[]	_gazePoints
int	_last
GameObject[]	_gazePointCloudSprites
SpriteRenderer	_gazeBubbleRenderer The gaze bubble sprite is attached to the GazePlotter game object itself. More
bool	_useFilter = false
bool	_hasHistoricPoint
Vector3	_historicPoint

Static Private Attributes

const float MaxVisibleDurationInSeconds = 0.5f

Detailed Description

Draws the gaze point positions as a point cloud, or, if the use filtering toggle is on, with a single bubble sprite with smoother movements.

Member Function Documentation

InitializeGazePointBuffer()

void AttentionPointsPlotter.InitializeGazePointBuffer ()

private

 $Initilalize Gaxe Point Bugger\ initializes\ the\ _gaze Points\ array.$

ProjectToPlaneInWorld()

Vector3 AttentionPointsPlotter.ProjectToPlaneInWorld (GazePoint gazePoint)



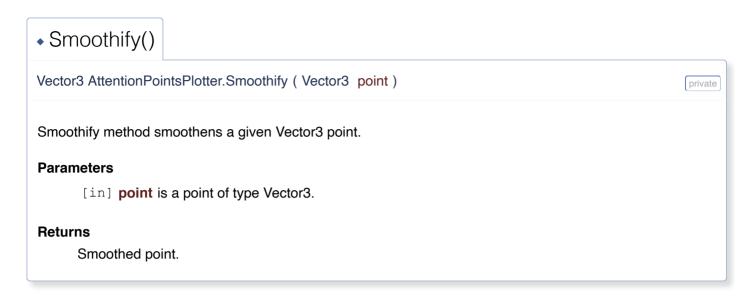
Converts the gaze point on the screen to the 3D point in the VR Environment.

Parameters

[in] gazePoint The point at which the viewer is gazing at. @

Returns

The 3D point in virtual environment.





void AttentionPointsPlotter.Start ()

Start method is called on the frame when a script is enabled just before any of the Update methods are called the first time.

Update()

void AttentionPointsPlotter.Update ()

private

private

Update method is called every frame, if the MonoBehaviour is enabled.

UpdateGazePointCloud()

void AttentionPointsPlotter.UpdateGazePointCloud (GazePoint gazePoint)



UpdateGazePointCloud updates the gaze points of the viewer for each frame.

Member Data Documentation

_gazeBubbleRenderer

SpriteRenderer AttentionPointsPlotter._gazeBubbleRenderer

private

The gaze bubble sprite is attached to the GazePlotter game object itself.

FilterSmoothingFactor

float AttentionPointsPlotter.FilterSmoothingFactor = 0.15f

How heavy filtering to apply to gaze point bubble movements. 0.1f is most responsive, 1.0f is least responsive.

PointCloudSize

int AttentionPointsPlotter.PointCloudSize = 10

Number of gaze points in point cloud.

PointScale

float AttentionPointsPlotter.PointScale = 0.1f

Scale to draw the point sprites in the point cloud.

PointSprite

Sprite AttentionPointsPlotter.PointSprite

Sprite to use for gaze points in the point cloud.

VisualizationDistance

float AttentionPointsPlotter.VisualizationDistance = 10f

Distance from screen to visualization plane in the World.

The documentation for this class was generated from the following file:

• /Users/vineelgannu/Documents/Doxygen/AttentionPointsPlotter File/AttentionPointsPlotter.cs

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