Droid Soccer

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Chapter 6

Module Documentation

6.1 Public API

Groups the most important classes that you need to understand early on.

Classes

- interface IPunObservable

  Defines the OnPhotonSerializeView method to make it easy to implement correctly for observable scripts.
- interface IPunCallbacks

  This interface is used as definition of all callback methods of PUN, except OnPhotonSerializeView.
- class Photon.PunBehaviour

  This class provides a .photonView and all callbacks/events that PUN can call.
- class PhotonMessageInfo

  Container class for info about a particular message, RPC or update.
- class PhotonStream

  This container is used in OnPhotonSerializeView() to either provide incoming data of a PhotonView or for you to provide it.
- class PhotonNetwork

  The main class to use the PhotonNetwork plugin.
- class PhotonPlayer

  Summarizes a "player" within a room, identified (in that room) by actorID.
- class PhotonView

  PUN's NetworkView replacement class for networking.
- class Room

  This class resembles a room that PUN joins (or joined).
- class RoomInfo

  A simplified room with just the info required to list and join, used for the room listing in the lobby.

Enumerations

- enum PhotonNetworkingMessage {
  PhotonNetworkingMessage.OnConnectedToPhoton, PhotonNetworkingMessage.OnLeftRoom, PhotonNetworkingMessage.OnMasterClientSwitched, PhotonNetworkingMessage.OnPhotonCreateRoomFailed, PhotonNetworkingMessage.OnPhotonJoinRoomFailed, PhotonNetworkingMessage.OnCreatedRoom, PhotonNetworkingMessage.OnJoinedLobby, PhotonNetworkingMessage.OnLeftLobby, PhotonNetworkingMessage.OnDisconnectedFromPhoton, PhotonNetworkingMessage.OnConnectionFail, PhotonNetworkingMessage.OnFailedToConnectToPhoton, PhotonNetworkingMessage.OnReceivedRoomListUpdate, PhotonNetworkingMessage.OnJoinedRoom, PhotonNetworkingMessage.OnPhotonPlayerConnected, PhotonNetworkingMessage.OnPhotonPlayerDisconnected, PhotonNetworkingMessage.OnPhotonRandomJoinFailed, PhotonNetworkingMessage.OnConnectedToMaster, PhotonNetworkingMessage.OnPhotonSerializeView, PhotonNetworkingMessage.OnPhotonInstantiate, PhotonNetworkingMessage.OnPhotonMaxCccuReached, PhotonNetworkingMessage.OnPhotonCustomRoomPropertiesChanged, PhotonNetworkingMessage.OnPhotonPlayerPropertiesChanged, PhotonNetworkingMessage.OnUpdatedFriendList, PhotonNetworkingMessage.OnCustomAuthenticationFailed, PhotonNetworkingMessage.OnWebRpcResponse, PhotonNetworkingMessage.OnOwnershipRequest, PhotonNetworkingMessage.OnLobbyStatisticsUpdate }

  This enum defines the set of MonoMessages Photon Unity Networking is using as callbacks.
- enum PhotonLogLevel { PhotonLogLevel.ErrorsOnly, PhotonLogLevel.Informational, PhotonLogLevel.Full }

  Used to define the level of logging output created by the PUN classes.
- enum PhotonTargets {
  PhotonTargets.All, PhotonTargets.Others, PhotonTargets.MasterClient, PhotonTargets.AllBuffered, PhotonTargets.OthersBuffered, PhotonTargets.AllViaServer, PhotonTargets.AllBufferedViaServer }

  Enum of "target" options for RPCs.
- enum PeerState {
  PeerState.Uninitialized, PeerState.PeerCreated, PeerState.Queued, PeerState.Authenticated, PeerState.JoinedLobby, PeerState.DisconnectingFromMasterserver, PeerState.ConnectingToGameserver, PeerState.ConnectedToGameserver, PeerState.Joining, PeerState.Joined, PeerState.Leaving, PeerState.DisconnectingFromGameserver, PeerState.ConnectingToMasterserver, PeerState.QueuedComingFromGameserver, PeerState.Disconnecting, PeerState.Disconnected, PeerState.ConnectedToMaster, PeerState.ConnectingToNameServer, PeerState.ConnectedToNameServer, PeerState.DisconnectingFromNameServer, PeerState.Authenticating }

  Detailed connection / networking peer state.
- enum DisconnectCause {
  DisconnectCause.ExceptionOnConnect = StatusCode.ExceptionOnConnect, DisconnectCause.SecurityExceptionOnConnect = StatusCode.SecurityExceptionOnConnect, DisconnectCause.TimeoutDisconnect = StatusCode.TimeoutDisconnect, DisconnectCause.DisconnectByClientTimeout = StatusCode.TimeoutDisconnect, DisconnectCause.InternalReceiveException = StatusCode.ExceptionOnReceive, DisconnectCause.DisconnectByServer = StatusCode.DisconnectByServer, DisconnectCause.DisconnectByServerTimeout = StatusCode.DisconnectByServer, DisconnectCause.DisconnectByServerLogic = StatusCode.DisconnectByServerLogic, DisconnectCause.DisconnectByServerUserLimit = StatusCode.DisconnectByServerUserLimit, DisconnectCause.Exception = StatusCode.Exception, DisconnectCause.InvalidRegion = ErrorCode.InvalidRegion, DisconnectCause.MaxCcuReached = ErrorCode.MaxCcuReached, DisconnectCause.InvalidAuthentication = ErrorCode.InvalidAuthentication, DisconnectCause.AuthenticationTicketExpired = 32753 }

  Summarizes the cause for a disconnect.

Functions

- void IPunObservable.OnPhotonSerializeView (PhotonStream stream, PhotonMessageInfo info)

Called by PUN several times per second, so that your script can write and read synchronization data for the PhotonView.

6.1.1 Detailed Description

Groups the most important classes that you need to understand early on.

6.1.2 Enumeration Type Documentation

6.1.2.1 enum DisconnectCause [strong]

Summarizes the cause for a disconnect.

Used in: OnConnectionFail and OnFailedToConnectToPhoton.

Extracted from the status codes from ExitGames.Client.Photon.StatusCode.

See also

PhotonNetworkingMessage

Enumerator

ExceptionOnConnect Connection could not be established. Possible cause: Local server not running.

SecurityExceptionOnConnect The security settings for client or server don't allow a connection (see remarks). A common cause for this is that browser clients read a "crossdomain" file from the server. If that file is unavailable or not configured to let the client connect, this exception is thrown. Photon usually provides this crossdomain file for Unity. If it fails, read: http://doc.exitgames.com/photon-server/PolicyApp

TimeoutDisconnect Connection timed out. Possible cause: Remote server not running or required ports blocked (due to router or firewall).

DisconnectByClientTimeout Timeout disconnect by client (which decided an ACK was missing for too long).

InternalReceiveException Exception in the receive-loop. Possible cause: Socket failure.

DisconnectByServer Server actively disconnected this client.

DisconnectByServerTimeout Timeout disconnect by server (which decided an ACK was missing for too long).

DisconnectByServerLogic Server actively disconnected this client. Possible cause: Server's send buffer full (too much data for client).

DisconnectByServerUserLimit Server actively disconnected this client. Possible cause: The server's user limit was hit and client was forced to disconnect (on connect).

Exception Some exception caused the connection to close.

InvalidRegion (32756) Authorization on the Photon Cloud failed because the app's subscription does not allow to use a particular region's server.

MaxCcuReached (32757) Authorization on the Photon Cloud failed because the concurrent users (CCU) limit of the app's subscription is reached.

InvalidAuthentication (32767) The Photon Cloud rejected the sent AppId. Check your Dashboard and make sure the AppId you use is complete and correct.

AuthenticationTicketExpired (32753) The Authentication ticket expired. Handle this by connecting again (which includes an authenticate to get a fresh ticket).

6.1.2.2 enum PeerState [strong]

Detailed connection / networking peer state.

PUN implements a loadbalancing and authentication workflow "behind the scenes", so some states will automatically advance to some follow up state. Those states are commented with "(will-change)".

Enumerator

Uninitialized Not running. Only set before initialization and first use.

PeerCreated Created and available to connect.

Queued Not used at the moment.

Authenticated The application is authenticated. PUN usually joins the lobby now.
(will-change) Unless AutoJoinLobby is false.

JoinedLobby Client is in the lobby of the Master Server and gets room listings. Use Join, Create or Join↩ Random to get into a room to play.

DisconnectingFromMasterserver Disconnecting. (will-change)

ConnectingToGameserver Connecting to game server (to join/create a room and play). (will-change)

ConnectedToGameserver Similar to Connected state but on game server. Still in process to join/create room.
(will-change)

Joining In process to join/create room (on game server). (will-change)

Joined Final state of a room join/create sequence. This client can now exchange events / call RPCs with other clients.

Leaving Leaving a room. (will-change)

DisconnectingFromGameserver Workflow is leaving the game server and will re-connect to the master server. (will-change)

ConnectingToMasterserver Workflow is connected to master server and will establish encryption and authenticate your app. (will-change)

QueuedComingFromGameserver Same Queued but coming from game server. (will-change)

Disconnecting PUN is disconnecting. This leads to Disconnected.
(will-change)

Disconnected No connection is setup, ready to connect. Similar to PeerCreated.

ConnectedToMaster Final state for connecting to master without joining the lobby (AutoJoinLobby is false).

ConnectingToNameServer Client connects to the NameServer. This process includes low level connecting and setting up encryption. When done, state becomes ConnectedToNameServer.

ConnectedToNameServer Client is connected to the NameServer and established enctryption already. You should call OpGetRegions or ConnectToRegionMaster.

DisconnectingFromNameServer When disconnecting from a Photon NameServer. (will-change)

Authenticating When connecting to a Photon Server, this state is intermediate before you can call any operations. (will-change)

6.1.2.3 enum PhotonLogLevel [strong]

Used to define the level of logging output created by the PUN classes.

Either log errors, info (some more) or full.

Enumerator

ErrorsOnly Show only errors. Minimal output. Note: Some might be "runtime errors" which you have to expect.

Informational Logs some of the workflow, calls and results.

Full Every available log call gets into the console/log. Only use for debugging.

6.1.2.4 enum PhotonNetworkingMessage [strong]

This enum defines the set of MonoMessages Photon Unity Networking is using as callbacks.

Implemented by PunBehaviour.

Much like "Update()" in Unity, PUN will call methods in specific situations. Often, these methods are triggered when network operations complete (example: when joining a room).

All those methods are defined and described in this enum and implemented by PunBehaviour (which makes it easy to implement them as override).

Each entry is the name of such a method and the description tells you when it gets used by PUN.

Make sure to read the remarks per entry as some methods have optional parameters.

Enumerator

OnConnectedToPhoton Called when the initial connection got established but before you can use the server. OnJoinedLobby() or OnConnectedToMaster() are called when PUN is ready.

This callback is only useful to detect if the server can be reached at all (technically). Most often, it's enough to implement OnFailedToConnectToPhoton() and OnDisconnectedFromPhoton().

OnJoinedLobby() or OnConnectedToMaster() are called when PUN is ready.

When this is called, the low level connection is established and PUN will send your AppId, the user, etc in the background. This is not called for transitions from the masterserver to game servers.

Example: void OnConnectedToPhoton() { ... }

OnLeftRoom Called when the local user/client left a room. When leaving a room, PUN brings you back to the Master Server. Before you can use lobbies and join or create rooms, OnJoinedLobby() or On↩ ConnectedToMaster() will get called again.

Example: void OnLeftRoom() { ... }

OnMasterClientSwitched Called after switching to a new MasterClient when the current one leaves. This is not called when this client enters a room. The former MasterClient is still in the player list when this method get called.

Example: void OnMasterClientSwitched(PhotonPlayer newMasterClient) { ... }

OnPhotonCreateRoomFailed Called when a CreateRoom() call failed. Optional parameters provide Error↩ Code and message.

Most likely because the room name is already in use (some other client was faster than you). PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Example: void OnPhotonCreateRoomFailed() { ... }

Example: void OnPhotonCreateRoomFailed(object[] codeAndMsg) { // codeAndMsg[0] is short Error↩ Code. codeAndMsg[1] is string debug msg. }

OnPhotonJoinRoomFailed Called when a JoinRoom() call failed. Optional parameters provide ErrorCode and message.

Most likely error is that the room does not exist or the room is full (some other client was faster than you). PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Example: void OnPhotonJoinRoomFailed() { ... }

Example: void OnPhotonJoinRoomFailed(object[] codeAndMsg) { // codeAndMsg[0] is short ErrorCode. codeAndMsg[1] is string debug msg. }

OnCreatedRoom Called when this client created a room and entered it. OnJoinedRoom() will be called as well.

This callback is only called on the client which created a room (see PhotonNetwork.CreateRoom).

As any client might close (or drop connection) anytime, there is a chance that the creator of a room does not execute OnCreatedRoom.

If you need specific room properties or a "start signal", it is safer to implement OnMasterClientSwitched() and to make the new MasterClient check the room's state.

Example: void OnCreatedRoom() { ... }

OnJoinedLobby Called on entering a lobby on the Master Server. The actual room-list updates will call OnReceivedRoomListUpdate().

Note: When PhotonNetwork.autoJoinLobby is false, OnConnectedToMaster() will be called and the room list won't become available.

While in the lobby, the roomlist is automatically updated in fixed intervals (which you can't modify). The room list gets available when OnReceivedRoomListUpdate() gets called after OnJoinedLobby().

Example: void OnJoinedLobby() { ... }

OnLeftLobby Called after leaving a lobby. When you leave a lobby, CreateRoom and JoinRandomRoom automatically refer to the default lobby.

Example: void OnLeftLobby() { ... }

OnDisconnectedFromPhoton Called after disconnecting from the Photon server. In some cases, other callbacks are called before OnDisconnectedFromPhoton is called. Examples: OnConnectionFail() and OnFailedToConnectToPhoton().

Example: void OnDisconnectedFromPhoton() { ... }

OnConnectionFail Called when something causes the connection to fail (after it was established), followed by a call to OnDisconnectedFromPhoton(). If the server could not be reached in the first place, OnFailedToConnectToPhoton is called instead. The reason for the error is provided as StatusCode.

Example: void OnConnectionFail(DisconnectCause cause) { ... }

OnFailedToConnectToPhoton Called if a connect call to the Photon server failed before the connection was established, followed by a call to OnDisconnectedFromPhoton(). OnConnectionFail only gets called when a connection to a Photon server was established in the first place.

Example: void OnFailedToConnectToPhoton(DisconnectCause cause) { ... }

OnReceivedRoomListUpdate Called for any update of the room-listing while in a lobby (PhotonNetwork.insideLobby) on the Master Server. PUN provides the list of rooms by PhotonNetwork.GetRoomList(). Each item is a RoomInfo which might include custom properties (provided you defined those as lobby-listed when creating a room).

Not all types of lobbies provide a listing of rooms to the client. Some are silent and specialized for server-side matchmaking.

Example: void OnReceivedRoomListUpdate() { ... }

OnJoinedRoom Called when entering a room (by creating or joining it). Called on all clients (including the Master Client).

This method is commonly used to instantiate player characters. If a match has to be started "actively", you can instead call an PunRPC triggered by a user's button-press or a timer.

When this is called, you can usually already access the existing players in the room via PhotonNetwork.playerList. Also, all custom properties should be already available as Room.customProperties. Check Room.playerCount to find out if enough players are in the room to start playing.

Example: void OnJoinedRoom() { ... }

OnPhotonPlayerConnected Called when a remote player entered the room. This PhotonPlayer is already added to the playerlist at this time.

If your game starts with a certain number of players, this callback can be useful to check the Room.playerCount and find out if you can start.

Example: void OnPhotonPlayerConnected(PhotonPlayer newPlayer) { ... }

OnPhotonPlayerDisconnected Called when a remote player left the room. This PhotonPlayer is already removed from the playerlist at this time.

When your client calls PhotonNetwork.leaveRoom, PUN will call this method on the remaining clients. When a remote client drops connection or gets closed, this callback gets executed. after a timeout of several seconds.

Example: void OnPhotonPlayerDisconnected(PhotonPlayer otherPlayer) { ... }

OnPhotonRandomJoinFailed Called after a JoinRandom() call failed. Optional parameters provide ErrorCode and message.

Most likely all rooms are full or no rooms are available. When using multiple lobbies (via JoinLobby or TypedLobby), another lobby might have more/fitting rooms. PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Example: void OnPhotonRandomJoinFailed() { ... }

Example: void OnPhotonRandomJoinFailed(object[] codeAndMsg) { // codeAndMsg[0] is short ErrorCode. codeAndMsg[1] is string debug msg. }

OnConnectedToMaster Called after the connection to the master is established and authenticated but only when PhotonNetwork.autoJoinLobby is false. If you set PhotonNetwork.autoJoinLobby to true, OnJoinedLobby() will be called instead of this.

You can join rooms and create them even without being in a lobby. The default lobby is used in that case. The list of available rooms won't become available unless you join a lobby via PhotonNetwork.joinLobby.

Example: void OnConnectedToMaster() { ... }

OnPhotonSerializeView Implement to customize the data a PhotonView regularly synchronizes. Called every 'network-update' when observed by PhotonView.

This method will be called in scripts that are assigned as Observed component of a PhotonView. PhotonNetwork.sendRateOnSerialize affects how often this method is called. PhotonNetwork.sendRate affects how often packages are sent by this client.

Implementing this method, you can customize which data a PhotonView regularly synchronizes. Your code defines what is being sent (content) and how your data is used by receiving clients.

Unlike other callbacks, *OnPhotonSerializeView only gets called when it is assigned to a PhotonView* as PhotonView.observed script.

To make use of this method, the PhotonStream is essential. It will be in "writing" mode" on the client that controls a PhotonView (PhotonStream.isWriting == true) and in "reading mode" on the remote clients that just receive that the controlling client sends.

If you skip writing any value into the stream, PUN will skip the update. Used carefully, this can conserve bandwidth and messages (which have a limit per room/second).

Note that OnPhotonSerializeView is not called on remote clients when the sender does not send any update. This can't be used as "x-times per second Update()".

Example: void OnPhotonSerializeView(PhotonStream stream, PhotonMessageInfo info) { ... }

OnPhotonInstantiate Called on all scripts on a GameObject (and children) that have been Instantiated using PhotonNetwork.Instantiate. PhotonMessageInfo parameter provides info about who created the object and when (based off PhotonNetworking.time).

Example: void OnPhotonInstantiate(PhotonMessageInfo info) { ... }

OnPhotonMaxCccuReached Because the concurrent user limit was (temporarily) reached, this client is rejected by the server and disconnecting. When this happens, the user might try again later. You can't create or join rooms in OnPhotonMaxCcuReached(), cause the client will be disconnecting. You can raise the CCU limits with a new license (when you host yourself) or extended subscription (when using the Photon Cloud). The Photon Cloud will mail you when the CCU limit was reached. This is also visible in the Dashboard (webpage).

Example: void OnPhotonMaxCccuReached() { ... }

OnPhotonCustomRoomPropertiesChanged Called when a room's custom properties changed. The propertiesThatChanged contains all that was set via Room.SetCustomProperties.

Since v1.25 this method has one parameter: Hashtable propertiesThatChanged. Changing properties must be done by Room.SetCustomProperties, which causes this callback locally, too.

Example: void OnPhotonCustomRoomPropertiesChanged(Hashtable propertiesThatChanged) { ... }

OnPhotonPlayerPropertiesChanged Called when custom player-properties are changed. Player and the changed properties are passed as object[].

Since v1.25 this method has one parameter: object[] playerAndUpdatedProps, which contains two entries.
[0] is the affected PhotonPlayer.
[1] is the Hashtable of properties that changed.

We are using a object[] due to limitations of Unity's GameObject.SendMessage (which has only one optional parameter).

Changing properties must be done by PhotonPlayer.SetCustomProperties, which causes this callback locally, too.
Example:

```
void OnPhotonPlayerPropertiesChanged(object[] playerAndUpdatedProps) {
    PhotonPlayer player = playerAndUpdatedProps[0] as PhotonPlayer;
    Hashtable props = playerAndUpdatedProps[1] as Hashtable;
    //...
}
```

OnUpdatedFriendList Called when the server sent the response to a FindFriends request and updated PhotonNetwork.Friends. The friends list is available as PhotonNetwork.Friends, listing name, online state and the room a user is in (if any).

Example: void OnUpdatedFriendList() { ... }

OnCustomAuthenticationFailed Called when the custom authentication failed. Followed by disconnect!

Custom Authentication can fail due to user-input, bad tokens/secrets. If authentication is successful, this method is not called. Implement OnJoinedLobby() or OnConnectedToMaster() (as usual).

During development of a game, it might also fail due to wrong configuration on the server side. In those cases, logging the debugMessage is very important.

Unless you setup a custom authentication service for your app (in the Dashboard), this won't be called!

Example: void OnCustomAuthenticationFailed(string debugMessage) { ... }

OnWebRpcResponse Called by PUN when the response to a WebRPC is available. See PhotonNetwork.↩ WebRPC.

Important: The response.ReturnCode is 0 if Photon was able to reach your web-service. The content of the response is what your web-service sent. You can create a WebResponse instance from it. Example: WebRpcResponse webResponse = new WebRpcResponse(operationResponse);

Please note: Class OperationResponse is in a namespace which needs to be "used": using Exit↩ Games.Client.Photon; // includes OperationResponse (and other classes)

The OperationResponse.ReturnCode by Photon is: 0 for "OK" -3 for "Web-Service not configured" (see Dashboard / WebHooks) -5 for "Web-Service does now have RPC path/name" (at least for Azure)

Example: void OnWebRpcResponse(OperationResponse response) { ... }

OnOwnershipRequest Called when another player requests ownership of a PhotonView from you (the current owner). The parameter viewAndPlayer contains:

PhotonView view = viewAndPlayer[0] as PhotonView;

PhotonPlayer requestingPlayer = viewAndPlayer[1] as PhotonPlayer;

void OnOwnershipRequest(object[] viewAndPlayer) {} //

OnLobbyStatisticsUpdate Called when the Master Server sent an update for the Lobby Statistics, updating PhotonNetwork.LobbyStatistics. This callback has two preconditions: EnableLobbyStatistics must be set to true, before this client connects. And the client has to be connected to the Master Server, which is providing the info about lobbies.

6.1.2.5 enum PhotonTargets [strong]

Enum of "target" options for RPCs.

These define which remote clients get your RPC call.

Enumerator

All Sends the RPC to everyone else and executes it immediately on this client. Player who join later will not execute this RPC.

Others Sends the RPC to everyone else. This client does not execute the RPC. Player who join later will not execute this RPC.

MasterClient Sends the RPC to MasterClient only. Careful: The MasterClient might disconnect before it executes the RPC and that might cause dropped RPCs.

AllBuffered Sends the RPC to everyone else and executes it immediately on this client. New players get the RPC when they join as it's buffered (until this client leaves).

OthersBuffered Sends the RPC to everyone. This client does not execute the RPC. New players get the RPC when they join as it's buffered (until this client leaves).

AllViaServer Sends the RPC to everyone (including this client) through the server. This client executes the RPC like any other when it received it from the server. Benefit: The server's order of sending the RPCs is the same on all clients.

AllBufferedViaServer Sends the RPC to everyone (including this client) through the server and buffers it for players joining later. This client executes the RPC like any other when it received it from the server. Benefit: The server's order of sending the RPCs is the same on all clients.

6.1.3 Function Documentation

6.1.3.1 void IPunObservable.OnPhotonSerializeView (PhotonStream *stream,* PhotonMessageInfo *info*)

Called by PUN several times per second, so that your script can write and read synchronization data for the PhotonView.

This method will be called in scripts that are assigned as Observed component of a PhotonView.
PhotonNetwork.sendRateOnSerialize affects how often this method is called.
PhotonNetwork.sendRate affects how often packages are sent by this client.

Implementing this method, you can customize which data a PhotonView regularly synchronizes. Your code defines what is being sent (content) and how your data is used by receiving clients.

Unlike other callbacks, *OnPhotonSerializeView only gets called when it is assigned to a PhotonView* as PhotonView.observed script.

To make use of this method, the PhotonStream is essential. It will be in "writing" mode" on the client that controls a PhotonView (PhotonStream.isWriting == true) and in "reading mode" on the remote clients that just receive that the controlling client sends.

If you skip writing any value into the stream, PUN will skip the update. Used carefully, this can conserve bandwidth and messages (which have a limit per room/second).

Note that OnPhotonSerializeView is not called on remote clients when the sender does not send any update. This can't be used as "x-times per second Update()".

Implemented in PhotonTransformView, and PickupItem.

6.2 Optional Gui Elements

Useful GUI elements for PUN.

Classes

- class PhotonLagSimulationGui

  This MonoBehaviour is a basic GUI for the Photon client's network-simulation feature.
- class PhotonStatsGui

  Basic GUI to show traffic and health statistics of the connection to Photon, toggled by shift+tab.

6.2.1 Detailed Description

Useful GUI elements for PUN.

Chapter 7

Namespace Documentation

7.1 ExitGames Namespace Reference

Namespaces

- namespace Client

7.2 ExitGames.Client Namespace Reference

Namespaces

- namespace DemoParticle
- namespace GUI
- namespace Photon

7.3 ExitGames.Client.DemoParticle Namespace Reference

Classes

- class TimeKeeper

  A utility class that turns it's ShouldExecute property to true after a set interval time has passed.

7.4 ExitGames.Client.GUI Namespace Reference

Classes

- class GizmoTypeDrawer

Enumerations

- enum GizmoType { GizmoType.WireSphere, GizmoType.Sphere, GizmoType.WireCube, GizmoType.Cube }

7.4.1 Enumeration Type Documentation

7.4.1.1 enum ExitGames.Client.GUI.GizmoType [strong]

Enumerator

WireSphere

Sphere

WireCube

Cube

7.5 ExitGames.Client.Photon Namespace Reference

Namespaces

- namespace Chat

Classes

- class ActorProperties

  Class for constants.
- class ErrorCode

  ErrorCode defines the default codes associated with Photon client/server communication.
- class EventCode

  Class for constants.
- class GamePropertyKey

  Class for constants.
- class **LoadbalancingPeer**

  Internally used by PUN, a LoadbalancingPeer provides the operations and enum definitions needed to use the Photon Loadbalancing server (or the Photon Cloud).
- class OperationCode

  Class for constants.
- class ParameterCode

  Class for constants.
- class **SocketUdp**

  Internal class to encapsulate the network i/o functionality for the realtime libary.

Enumerations

- enum JoinMode : byte { JoinMode.Default = 0, JoinMode.CreateIfNotExists = 1, JoinMode.JoinOrRejoin = 2, JoinMode.RejoinOnly = 3 }

  Defines possible values for OpJoinRoom and OpJoinOrCreate.
- enum MatchmakingMode : byte { MatchmakingMode.FillRoom = 0, MatchmakingMode.SerialMatching = 1, MatchmakingMode.RandomMatching = 2 }

  Options for matchmaking rules for OpJoinRandom.
- enum ReceiverGroup : byte { ReceiverGroup.Others = 0, ReceiverGroup.All = 1, ReceiverGroup.MasterClient = 2 }

  Lite - OpRaiseEvent lets you chose which actors in the room should receive events.

- enum EventCaching : byte { EventCaching.DoNotCache = 0, EventCaching.MergeCache = 1, EventCaching.ReplaceCache = 2, EventCaching.RemoveCache = 3, EventCaching.AddToRoomCache = 4, EventCaching.AddToRoomCacheGlobal = 5, EventCaching.RemoveFromRoomCache = 6, EventCaching.RemoveFromRoomCacheForActorsLeft = 7, EventCaching.SliceIncreaseIndex = 10, EventCaching.SliceSetIndex = 11, EventCaching.SlicePurgeIndex = 12, EventCaching.SlicePurgeUpToIndex = 13 }

  Lite - OpRaiseEvent allows you to cache events and automatically send them to joining players in a room.
- enum PropertyTypeFlag : byte { PropertyTypeFlag.None = 0x00, PropertyTypeFlag.Game = 0x01, PropertyTypeFlag.Actor = 0x02, PropertyTypeFlag.GameAndActor = Game | Actor }

  Flags for "types of properties", being used as filter in OpGetProperties.

7.5.1 Enumeration Type Documentation

7.5.1.1 enum ExitGames.Client.Photon.EventCaching : byte [strong]

Lite - OpRaiseEvent allows you to cache events and automatically send them to joining players in a room.

Events are cached per event code and player: Event 100 (example!) can be stored once per player. Cached events can be modified, replaced and removed.

Caching works only combination with ReceiverGroup options Others and All.

Enumerator

DoNotCache Default value (not sent).

MergeCache Will merge this event's keys with those already cached.

ReplaceCache Replaces the event cache for this eventCode with this event's content.

RemoveCache Removes this event (by eventCode) from the cache.

AddToRoomCache Adds an event to the room's cache

AddToRoomCacheGlobal Adds this event to the cache for actor 0 (becoming a "globally owned" event in the cache).

RemoveFromRoomCache Remove fitting event from the room's cache.

RemoveFromRoomCacheForActorsLeft Removes events of players who already left the room (cleaning up).

SliceIncreaseIndex Increase the index of the sliced cache.

SliceSetIndex Set the index of the sliced cache. You must set RaiseEventOptions.CacheSliceIndex for this.

SlicePurgeIndex Purge cache slice with index. Exactly one slice is removed from cache. You must set RaiseEventOptions.CacheSliceIndex for this.

SlicePurgeUpToIndex Purge cache slices with specified index and anything lower than that. You must set RaiseEventOptions.CacheSliceIndex for this.

7.5.1.2 enum ExitGames.Client.Photon.JoinMode : byte [strong]

Defines possible values for OpJoinRoom and OpJoinOrCreate.

It tells the server if the room can be only be joined normally, created implicitly or found on a web-service for Turnbased games.

These values are not directly used by a game but implicitly set.

Enumerator

Default Regular join. The room must exist.

CreateIfNotExists Join or create the room if it's not existing. Used for OpJoinOrCreate for example.

JoinOrRejoin The room might be out of memory and should be loaded (if possible) from a Turnbased web-service.

RejoinOnly Only re-join will be allowed. If the user is not yet in the room, this will fail.

7.5.1.3 enum ExitGames.Client.Photon.MatchmakingMode : byte [strong]

Options for matchmaking rules for OpJoinRandom.

Enumerator

FillRoom Fills up rooms (oldest first) to get players together as fast as possible. Default.

Makes most sense with MaxPlayers $>$ 0 and games that can only start with more players.

SerialMatching Distributes players across available rooms sequentially but takes filter into account. Without filter, rooms get players evenly distributed.

RandomMatching Joins a (fully) random room. Expected properties must match but aside from this, any available room might be selected.

7.5.1.4 enum ExitGames.Client.Photon.PropertyTypeFlag : byte [strong]

Flags for "types of properties", being used as filter in OpGetProperties.

Enumerator

None (0x00) Flag type for no property type.

Game (0x01) Flag type for game-attached properties.

Actor (0x02) Flag type for actor related propeties.

GameAndActor (0x01) Flag type for game AND actor properties. Equal to 'Game'

7.5.1.5 enum ExitGames.Client.Photon.ReceiverGroup : byte [strong]

Lite - OpRaiseEvent lets you chose which actors in the room should receive events.

By default, events are sent to "Others" but you can overrule this.

Enumerator

Others Default value (not sent). Anyone else gets my event.

All Everyone in the current room (including this peer) will get this event.

MasterClient The server sends this event only to the actor with the lowest actorNumber. The "master client" does not have special rights but is the one who is in this room the longest time.

7.6 ExitGames.Client.Photon.Chat Namespace Reference

Classes

- class AuthenticationValues

  Container for user authentication in Photon.
- class ChatChannel

  A channel of communication in Photon Chat, updated by ChatClient and provided as READ ONLY.
- class ChatClient

  Central class of the Photon Chat API to connect, handle channels and messages.
- class ChatEventCode

  Wraps up internally used constants in Photon Chat events.
- class ChatOperationCode

  Wraps up codes for operations used internally in Photon Chat.
- class ChatParameterCode

  Wraps up codes for parameters (in operations and events) used internally in Photon Chat.
- class **ChatPeer**

  Provides basic operations of the Photon Chat server.
- class ChatUserStatus

  Contains commonly used status values for SetOnlineStatus.
- class ErrorCode

  ErrorCode defines the default codes associated with Photon client/server communication.
- interface IChatClientListener

  Callback interface for Chat client side.
- class ParameterCode

Enumerations

- enum ChatDisconnectCause { ChatDisconnectCause.None, ChatDisconnectCause.DisconnectByServerUserLimit, ChatDisconnectCause.ExceptionOnConnect, ChatDisconnectCause.DisconnectByServer, ChatDisconnectCause.TimeoutDisconnect, ChatDisconnectCause.Exception, ChatDisconnectCause.InvalidAuthentication, ChatDisconnectCause.MaxCcuReached, ChatDisconnectCause.InvalidRegion, ChatDisconnectCause.OperationNotAllowedInCurrentState, ChatDisconnectCause.CustomAuthenticationFailed }

  Enumaration of causes for Disconnects (used in LoadBalancingClient.DisconnectedCause).
- enum CustomAuthenticationType : byte { CustomAuthenticationType.Custom = 0, CustomAuthenticationType.Steam = 1, CustomAuthenticationType.Facebook = 2, CustomAuthenticationType.None = byte.MaxValue }

  Options for optional "Custom Authentication" services used with Photon.
- enum ChatState { ChatState.Uninitialized, ChatState.ConnectingToNameServer, ChatState.ConnectedToNameServer, ChatState.Authenticating, ChatState.Authenticated, ChatState.DisconnectingFromNameServer, ChatState.ConnectingToFrontEnd, ChatState.ConnectedToFrontEnd, ChatState.DisconnectingFromFrontEnd, ChatState.QueuedComingFromFrontEnd, ChatState.Disconnecting, ChatState.Disconnected }

  Possible states for a LoadBalancingClient.

7.6.1 Enumeration Type Documentation

7.6.1.1 enum ExitGames.Client.Photon.Chat.ChatDisconnectCause [strong]

Enumaration of causes for Disconnects (used in LoadBalancingClient.DisconnectedCause).

Read the individual descriptions to find out what to do about this type of disconnect.

Enumerator

None No error was tracked.

DisconnectByServerUserLimit OnStatusChanged: The CCUs count of your Photon Server License is exausted (temporarily).

ExceptionOnConnect OnStatusChanged: The server is not available or the address is wrong. Make sure the port is provided and the server is up.

DisconnectByServer OnStatusChanged: The server disconnected this client. Most likely the server's send buffer is full (receiving too much from other clients).

TimeoutDisconnect OnStatusChanged: This client detected that the server's responses are not received in due time. Maybe you send / receive too much?

Exception OnStatusChanged: Some internal exception caused the socket code to fail. Contact Exit Games.

InvalidAuthentication OnOperationResponse: Authenticate in the Photon Cloud with invalid AppId. Update your subscription or contact Exit Games.

MaxCcuReached OnOperationResponse: Authenticate (temporarily) failed when using a Photon Cloud subscription without CCU Burst. Update your subscription.

InvalidRegion OnOperationResponse: Authenticate when the app's Photon Cloud subscription is locked to some (other) region(s). Update your subscription or master server address.

OperationNotAllowedInCurrentState OnOperationResponse: Operation that's (currently) not available for this client (not authorized usually). Only tracked for op Authenticate.

CustomAuthenticationFailed OnOperationResponse: Authenticate in the Photon Cloud with invalid client values or custom authentication setup in Cloud Dashboard.

7.6.1.2 enum ExitGames.Client.Photon.Chat.ChatState [strong]

Possible states for a LoadBalancingClient.

Enumerator

Uninitialized Peer is created but not used yet.

ConnectingToNameServer Connecting to master (includes connect, authenticate and joining the lobby)

ConnectedToNameServer Connected to master server.

Authenticating Usually when Authenticated, the client will join a game or the lobby (if AutoJoinLobby is true).

Authenticated Usually when Authenticated, the client will join a game or the lobby (if AutoJoinLobby is true).

DisconnectingFromNameServer Transition from master to game server.

ConnectingToFrontEnd Transition to gameserver (client will authenticate and join/create game).

ConnectedToFrontEnd Connected to gameserver (going to auth and join game).

DisconnectingFromFrontEnd Transition from gameserver to master (after leaving a room/game).

QueuedComingFromFrontEnd Currently not used.

Disconnecting The client disconnects (from any server).

Disconnected The client is no longer connected (to any server). Connect to master to go on.

7.6.1.3 enum ExitGames.Client.Photon.Chat.CustomAuthenticationType : byte [strong]

Options for optional "Custom Authentication" services used with Photon.

Used by OpAuthenticate after connecting to Photon.

Enumerator

Custom Use a custom authentification service. Currently the only implemented option.

Steam Authenticates users by their Steam Account. Set auth values accordingly!

Facebook Authenticates users by their Facebook Account. Set auth values accordingly!

None Disables custom authentification. Same as not providing any AuthenticationValues for connect (more precisely for: OpAuthenticate).

7.7 Photon Namespace Reference

Classes

- class MonoBehaviour

  This class adds the property photonView, while logging a warning when your game still uses the networkView.
- class PunBehaviour

  This class provides a .photonView and all callbacks/events that PUN can call.

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

7.7.1 Typedef Documentation

7.7.1.1 using Photon.Hashtable = typedef ExitGames.Client.Photon.Hashtable

7.8 Rotorz Namespace Reference

Namespaces

- namespace ReorderableList

7.9 Rotorz.ReorderableList Namespace Reference

Namespaces

- namespace Internal

7.10 Rotorz.ReorderableList.Internal Namespace Reference

Classes

- class **ReorderableListResources**

  Resources to assist with reorderable list control.

7.11 UnityEngine Namespace Reference

Namespaces

- namespace SceneManagement

7.12 UnityEngine.SceneManagement Namespace Reference

Classes

- class SceneManager

  Minimal implementation of the SceneManager for older Unity, up to v5.2.

7.13 UnityStandardAssets Namespace Reference

Namespaces

- namespace Utility

7.14 UnityStandardAssets.Utility Namespace Reference

Classes

- class SmoothFollow

Chapter 8

Class Documentation

8.1 AccountService Class Reference

Public Types

- enum Origin : byte { Origin.ServerWeb = 1, Origin.CloudWeb = 2, Origin.Pun = 3, Origin.Playmaker = 4 }

Public Member Functions

- AccountService ()

  Creates a instance of the Account Service to register Photon Cloud accounts.
- void RegisterByEmail (string email, Origin origin)

  Attempts to create a Photon Cloud Account.
- void RegisterByEmailAsync (string email, Origin origin, Action< AccountService > callback=null)

  Attempts to create a Photon Cloud Account asynchronously.

Static Public Member Functions

- static bool Validator (object sender, X509Certificate certificate, X509Chain chain, SslPolicyErrors policy↩ Errors)

Properties

- string Message `[get]`
- string AppId `[get]`
- int ReturnCode `[get]`

8.1.1 Member Enumeration Documentation

8.1.1.1 enum AccountService.Origin : byte `[strong]`

Enumerator

ServerWeb

CloudWeb

Pun

Playmaker

8.1.2 Constructor & Destructor Documentation

8.1.2.1 AccountService.AccountService ( )

Creates a instance of the Account Service to register Photon Cloud accounts.

8.1.3 Member Function Documentation

8.1.3.1 void AccountService.RegisterByEmail (string *email*, Origin *origin*)

Attempts to create a Photon Cloud Account.

Check ReturnCode, Message and AppId to get the result of this attempt.

Parameters

email	Email of the account.
origin	Marks which channel created the new account (if it's new).

8.1.3.2 void AccountService.RegisterByEmailAsync (string *email*, Origin *origin*, Action< AccountService > *callback* = `null`)

Attempts to create a Photon Cloud Account asynchronously.

Once your callback is called, check ReturnCode, Message and AppId to get the result of this attempt.

Parameters

email	Email of the account.
origin	Marks which channel created the new account (if it's new).
callback	Called when the result is available.

8.1.3.3 static bool AccountService.Validator (object *sender*, X509Certificate *certificate*, X509Chain *chain*, SslPolicyErrors *policyErrors*) `[static]`

8.1.4 Property Documentation

8.1.4.1 string AccountService.AppId `[get]`

8.1.4.2 string AccountService.Message `[get]`

8.1.4.3 int AccountService.ReturnCode `[get]`

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/AccountService.cs

8.2 ExitGames.Client.Photon.ActorProperties Class Reference

Class for constants.

Public Attributes

- const byte PlayerName = 255
  (255) Name of a player/actor.
- const byte IsInactive = 254
  (254) Tells you if the player is currently in this game (getting events live).
- const byte UserId = 253
  UserId of the player. Sent when room gets created with RoomOptions.publishUserId = true.

8.2.1 Detailed Description

Class for constants.

These (byte) values define "well known" properties for an Actor / Player. Pun uses these constants internally.

"Custom properties" have to use a string-type as key. They can be assigned at will.

8.2.2 Member Data Documentation

8.2.2.1 const byte ExitGames.Client.Photon.ActorProperties.IsInactive = 254

(254) Tells you if the player is currently in this game (getting events live).

A server-set value for async games, where players can leave the game and return later.

8.2.2.2 const byte ExitGames.Client.Photon.ActorProperties.PlayerName = 255

(255) Name of a player/actor.

8.2.2.3 const byte ExitGames.Client.Photon.ActorProperties.UserId = 253

UserId of the player. Sent when room gets created with RoomOptions.publishUserId = true.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.3 AuthenticationValues Class Reference

Container for user authentication in Photon.

Public Member Functions

- AuthenticationValues ()

  Creates empty auth values without any info.
- AuthenticationValues (string userId)

  Creates minimal info about the user.
- virtual void SetAuthPostData (string stringData)

  Sets the data to be passed-on to the auth service via POST.
- virtual void SetAuthPostData (byte[] byteData)

  Sets the data to be passed-on to the auth service via POST.
- virtual void AddAuthParameter (string key, string value)

  Adds a key-value pair to the get-parameters used for Custom Auth.
- override string ToString ()

Properties

- CustomAuthenticationType AuthType `[get, set]`

  The type of custom authentication provider that should be used. Currently only "Custom" or "None" (turns this off).
- string AuthGetParameters `[get, set]`

  This string must contain any (http get) parameters expected by the used authentication service.
- object AuthPostData `[get]`

  Data to be passed-on to the auth service via POST. Default: null (not sent). Either string or byte[] (see setters).
- string Token `[get, set]`

  After initial authentication, Photon provides a token for this client / user, which is subsequently used as (cached) validation.
- string UserId `[get, set]`

  The UserId should be a unique identifier per user. This is for finding friends, etc..

8.3.1 Detailed Description

Container for user authentication in Photon.

Set AuthValues before you connect - all else is handled.

On Photon, user authentication is optional but can be useful in many cases. If you want to FindFriends, a unique ID per user is very practical.

There are basically three options for user authentification: None at all, the client sets some UserId or you can use some account web-service to authenticate a user (and set the UserId server-side).

Custom Authentication lets you verify end-users by some kind of login or token. It sends those values to Photon which will verify them before granting access or disconnecting the client.

The Photon Cloud Dashboard will let you enable this feature and set important server values for it. `https://www.exitgames.com/dashboard`

8.3.2 Constructor & Destructor Documentation

8.3.2.1 AuthenticationValues.AuthenticationValues ( )

Creates empty auth values without any info.

8.3.2.2 AuthenticationValues.AuthenticationValues (string *userId*)

Creates minimal info about the user.

If this is authenticated or not, depends on the set AuthType.

Parameters

user↩ Id	Some UserId to set in Photon.

8.3.3 Member Function Documentation

8.3.3.1 virtual void AuthenticationValues.AddAuthParameter (string *key*, string *value*) [virtual]

Adds a key-value pair to the get-parameters used for Custom Auth.

This method does uri-encoding for you.

Parameters

key	Key for the value to set.
value	Some value relevant for Custom Authentication.

8.3.3.2 virtual void AuthenticationValues.SetAuthPostData (string *stringData*) [virtual]

Sets the data to be passed-on to the auth service via POST.

Parameters

stringData	String data to be sent in the body of the POST request. An empty string will set the post data to null.

8.3.3.3 virtual void AuthenticationValues.SetAuthPostData (byte[ ] *byteData*) [virtual]

Sets the data to be passed-on to the auth service via POST.

Parameters

byteData	Binary token / auth-data to pass on.

8.3.3.4 override string AuthenticationValues.ToString ( )

8.3.4 Property Documentation

8.3.4.1 string AuthenticationValues.AuthGetParameters [get], [set]

This string must contain any (http get) parameters expected by the used authentication service.

By default, username and token.

Standard http get parameters are used here and passed on to the service that's defined in the server (Photon Cloud Dashboard).

8.3.4.2 object AuthenticationValues.AuthPostData [get]

Data to be passed-on to the auth service via POST. Default: null (not sent). Either string or byte[] (see setters).

8.3.4.3 CustomAuthenticationType AuthenticationValues.AuthType [get], [set]

The type of custom authentication provider that should be used. Currently only "Custom" or "None" (turns this off).

8.3.4.4 string AuthenticationValues.Token [get], [set]

After initial authentication, Photon provides a token for this client / user, which is subsequently used as (cached) validation.

8.3.4.5 string AuthenticationValues.UserId [get], [set]

The UserId should be a unique identifier per user. This is for finding friends, etc..

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.4 ExitGames.Client.Photon.Chat.AuthenticationValues Class Reference

Container for user authentication in Photon.

Public Member Functions

- AuthenticationValues ()

  Creates empty auth values without any info.
- AuthenticationValues (string userId)

  Creates minimal info about the user.
- virtual void SetAuthPostData (string stringData)

  Sets the data to be passed-on to the auth service via POST.
- virtual void SetAuthPostData (byte[] byteData)

  Sets the data to be passed-on to the auth service via POST.
- virtual void AddAuthParameter (string key, string value)

  Adds a key-value pair to the get-parameters used for Custom Auth.
- override string ToString ()

Properties

- CustomAuthenticationType AuthType [get, set]

  The type of custom authentication provider that should be used. Currently only "Custom" or "None" (turns this off).
- string AuthGetParameters [get, set]

  This string must contain any (http get) parameters expected by the used authentication service.
- object AuthPostData [get]

  Data to be passed-on to the auth service via POST. Default: null (not sent). Either string or byte[] (see setters).
- string Token [get, set]

  After initial authentication, Photon provides a token for this client / user, which is subsequently used as (cached) validation.
- string UserId [get, set]

  The UserId should be a unique identifier per user. This is for finding friends, etc..

8.4.1 Detailed Description

Container for user authentication in Photon.

Set AuthValues before you connect - all else is handled.

On Photon, user authentication is optional but can be useful in many cases. If you want to FindFriends, a unique ID per user is very practical.

There are basically three options for user authentification: None at all, the client sets some UserId or you can use some account web-service to authenticate a user (and set the UserId server-side).

Custom Authentication lets you verify end-users by some kind of login or token. It sends those values to Photon which will verify them before granting access or disconnecting the client.

The Photon Cloud Dashboard will let you enable this feature and set important server values for it. https://www.photonengine.com/dashboard

8.4.2 Constructor & Destructor Documentation

8.4.2.1 ExitGames.Client.Photon.Chat.AuthenticationValues.AuthenticationValues ( )

Creates empty auth values without any info.

8.4.2.2 ExitGames.Client.Photon.Chat.AuthenticationValues.AuthenticationValues (string *userId*)

Creates minimal info about the user.

If this is authenticated or not, depends on the set AuthType.

Parameters

userId	Some UserId to set in Photon.

8.4.3 Member Function Documentation

8.4.3.1 virtual void ExitGames.Client.Photon.Chat.AuthenticationValues.AddAuthParameter (string *key,* string *value*) [virtual]

Adds a key-value pair to the get-parameters used for Custom Auth.

This method does uri-encoding for you.

Parameters

key	Key for the value to set.
value	Some value relevant for Custom Authentication.

8.4.3.2 virtual void ExitGames.Client.Photon.Chat.AuthenticationValues.SetAuthPostData (string *stringData*) [virtual]

Sets the data to be passed-on to the auth service via POST.

Parameters

stringData	String data to be used in the body of the POST request. Null or empty string will set AuthPostData to null.

8.4.3.3 virtual void ExitGames.Client.Photon.Chat.AuthenticationValues.SetAuthPostData (byte[ ] *byteData*) [virtual]

Sets the data to be passed-on to the auth service via POST.

Parameters

byteData	Binary token / auth-data to pass on.

8.4.3.4 override string ExitGames.Client.Photon.Chat.AuthenticationValues.ToString ( )

8.4.4 Property Documentation

8.4.4.1 string ExitGames.Client.Photon.Chat.AuthenticationValues.AuthGetParameters [get], [set]

This string must contain any (http get) parameters expected by the used authentication service.

By default, username and token.

Standard http get parameters are used here and passed on to the service that's defined in the server (Photon Cloud Dashboard).

8.4.4.2 object ExitGames.Client.Photon.Chat.AuthenticationValues.AuthPostData [get]

Data to be passed-on to the auth service via POST. Default: null (not sent). Either string or byte[] (see setters).

8.4.4.3 CustomAuthenticationType ExitGames.Client.Photon.Chat.AuthenticationValues.AuthType [get], [set]

The type of custom authentication provider that should be used. Currently only "Custom" or "None" (turns this off).

8.4.4.4 string ExitGames.Client.Photon.Chat.AuthenticationValues.Token [get], [set]

After initial authentication, Photon provides a token for this client / user, which is subsequently used as (cached) validation.

8.4.4.5 string ExitGames.Client.Photon.Chat.AuthenticationValues.UserId [get], [set]

The UserId should be a unique identifier per user. This is for finding friends, etc..

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatPeer.cs

8.5 CameraController Class Reference

Inherits MonoBehaviour.

Public Attributes

- GameObject target
- GameObject player
- bool experimental = false

8.5.1 Member Data Documentation

8.5.1.1 bool CameraController.experimental = false

8.5.1.2 GameObject CameraController.player

8.5.1.3 GameObject CameraController.target

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/CameraController.cs

8.6 ExitGames.Client.Photon.Chat.ChatChannel Class Reference

A channel of communication in Photon Chat, updated by ChatClient and provided as READ ONLY.

Public Member Functions

- ChatChannel (string name)

  Used internally to create new channels. This does NOT create a channel on the server! Use ChatClient.Subscribe.
- void Add (string sender, object message)

  Used internally to add messages to this channel.
- void Add (string[ ] senders, object[ ] messages)

  Used internally to add messages to this channel.
- void TruncateMessages ()

  Reduces the number of locally cached messages in this channel to the MessageLimit (if set).
- void ClearMessages ()

  Clear the local cache of messages currently stored. This frees memory but doesn't affect the server.
- string ToStringMessages ()

  Provides a string-representation of all messages in this channel.

Public Attributes

- readonly string Name

  Name of the channel (used to subscribe and unsubscribe).
- readonly List< string > Senders = new List<string>()

  Senders of messages in chronoligical order. Senders and Messages refer to each other by index. Senders[x] is the sender of Messages[x].
- readonly List< object > Messages = new List<object>()

  Messages in chronoligical order. Senders and Messages refer to each other by index. Senders[x] is the sender of Messages[x].
- int MessageLimit

  If greater than 0, this channel will limit the number of messages, that it caches locally.

Properties

- bool IsPrivate `[get, protected set]`

  Is this a private 1:1 channel?
- int MessageCount `[get]`

  Count of messages this client still buffers/knows for this channel.

8.6.1 Detailed Description

A channel of communication in Photon Chat, updated by ChatClient and provided as READ ONLY.

Contains messages and senders to use (read!) and display by your GUI. Access these by: ChatClient.Public↩ Channels ChatClient.PrivateChannels

8.6.2 Constructor & Destructor Documentation

8.6.2.1 ExitGames.Client.Photon.Chat.ChatChannel.ChatChannel (string *name*)

Used internally to create new channels. This does NOT create a channel on the server! Use ChatClient.Subscribe.

8.6.3 Member Function Documentation

8.6.3.1 void ExitGames.Client.Photon.Chat.ChatChannel.Add (string *sender,* object *message*)

Used internally to add messages to this channel.

8.6.3.2 void ExitGames.Client.Photon.Chat.ChatChannel.Add (string[ ] *senders,* object[ ] *messages*)

Used internally to add messages to this channel.

8.6.3.3 void ExitGames.Client.Photon.Chat.ChatChannel.ClearMessages ( )

Clear the local cache of messages currently stored. This frees memory but doesn't affect the server.

8.6.3.4 string ExitGames.Client.Photon.Chat.ChatChannel.ToStringMessages ( )

Provides a string-representation of all messages in this channel.

Returns

All known messages in format "Sender: Message", line by line.

8.6.3.5 void ExitGames.Client.Photon.Chat.ChatChannel.TruncateMessages ( )

Reduces the number of locally cached messages in this channel to the MessageLimit (if set).

8.6.4 Member Data Documentation

8.6.4.1 int ExitGames.Client.Photon.Chat.ChatChannel.MessageLimit

If greater than 0, this channel will limit the number of messages, that it caches locally.

8.6.4.2 readonly List<object> ExitGames.Client.Photon.Chat.ChatChannel.Messages = new List<object>()

Messages in chronoligical order. Senders and Messages refer to each other by index. Senders[x] is the sender of Messages[x].

8.6.4.3 readonly string ExitGames.Client.Photon.Chat.ChatChannel.Name

Name of the channel (used to subscribe and unsubscribe).

8.6.4.4 readonly List<string> ExitGames.Client.Photon.Chat.ChatChannel.Senders = new List<string>()

Senders of messages in chronoligical order. Senders and Messages refer to each other by index. Senders[x] is the sender of Messages[x].

8.6.5 Property Documentation

8.6.5.1 bool ExitGames.Client.Photon.Chat.ChatChannel.IsPrivate [get], [protected set]

Is this a private 1:1 channel?

8.6.5.2 int ExitGames.Client.Photon.Chat.ChatChannel.MessageCount [get]

Count of messages this client still buffers/knows for this channel.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatChannel.cs

8.7 ExitGames.Client.Photon.Chat.ChatClient Class Reference

Central class of the Photon Chat API to connect, handle channels and messages.

Inherits IPhotonPeerListener.

Public Member Functions

- ChatClient (IChatClientListener listener, ConnectionProtocol protocol=ConnectionProtocol.Udp)
- bool Connect (string appId, string appVersion, AuthenticationValues authValues)

  Connects this client to the Photon Chat Cloud service, which will also authenticate the user (and set a UserId).
- void Service ()

  Must be called regularly to keep connection between client and server alive and to process incoming messages.
- void Disconnect ()
- void StopThread ()
- bool Subscribe (string[] channels)

  Sends operation to subscribe to a list of channels by name.
- bool Subscribe (string[] channels, int messagesFromHistory)

  Sends operation to subscribe client to channels, optionally fetching a number of messages from the cache.
- bool Unsubscribe (string[] channels)

  Unsubscribes from a list of channels, which stops getting messages from those.
- bool PublishMessage (string channelName, object message)

Sends a message to a public channel which this client subscribed to.

- bool SendPrivateMessage (string target, object message)

  Sends a private message to a single target user.
- bool SendPrivateMessage (string target, object message, bool encrypt)

  Sends a private message to a single target user.
- bool SetOnlineStatus (int status)

  Sets the user's status without changing your status-message.
- bool SetOnlineStatus (int status, object message)

  Sets the user's status without changing your status-message.
- bool AddFriends (string[ ] friends)

  Adds friends to a list on the Chat Server which will send you status updates for those.
- bool RemoveFriends (string[ ] friends)

  Removes the provided entries from the list on the Chat Server and stops their status updates.
- string GetPrivateChannelNameByUser (string userName)

  Get you the (locally used) channel name for the chat between this client and another user.
- bool TryGetChannel (string channelName, bool isPrivate, out ChatChannel channel)

  Simplified access to either private or public channels by name.
- bool TryGetChannel (string channelName, out ChatChannel channel)

  Simplified access to all channels by name.
- void SendAcksOnly ()

Public Attributes

- int MessageLimit

  If greater than 0, new channels will limit the number of messages they cache locally.
- readonly Dictionary< string, ChatChannel > PublicChannels
- readonly Dictionary< string, ChatChannel > PrivateChannels

Properties

- string NameServerAddress `[get]`

  The address of last connected Name Server.
- string FrontendAddress `[get]`

  The address of the actual chat server assigned from NameServer. Public for read only.
- string ChatRegion `[get, set]`

  Settable only before you connect! Defaults to "EU".
- ChatState State `[get]`

  Current state of the ChatClient. Also use CanChat.
- ChatDisconnectCause DisconnectedCause `[get]`
- bool CanChat `[get]`
- string AppVersion `[get]`

  The version of your client. A new version also creates a new "virtual app" to separate players from older client versions.
- string AppId `[get]`

  The AppID as assigned from the Photon Cloud. If you host yourself, this is the "regular" Photon Server Application Name (most likely: "LoadBalancing").
- AuthenticationValues AuthValues `[get, set]`

  Settable only before you connect!
- string UserId `[get]`

  The unique ID of a user/person, stored in AuthValues.UserId.
- DebugLevel DebugOut `[get, set]`

  Sets the level (and amount) of debug output provided by the library.

8.7.1 Detailed Description

Central class of the Photon Chat API to connect, handle channels and messages.

This class must be instantiated with a IChatClientListener instance to get the callbacks. Integrate it into your game loop by calling Service regularly. Call Connect with an AppId that is setup as Photon Chat application. Note↩ : Connect covers multiple messages between this client and the servers. A short workflow will connect you to a chat server.

Each ChatClient resembles a user in chat (set in Connect). Each user automatically subscribes a channel for incoming private messages and can message any other user privately. Before you publish messages in any non-private channel, that channel must be subscribed.

PublicChannels is a list of subscribed channels, containing messages and senders. PrivateChannels contains all incoming and sent private messages.

8.7.2 Constructor & Destructor Documentation

8.7.2.1 ExitGames.Client.Photon.Chat.ChatClient.ChatClient (IChatClientListener *listener,* ConnectionProtocol *protocol* = `ConnectionProtocol.Udp`)

8.7.3 Member Function Documentation

8.7.3.1 bool ExitGames.Client.Photon.Chat.ChatClient.AddFriends (string[ ] *friends*)

Adds friends to a list on the Chat Server which will send you status updates for those.

AddFriends and RemoveFriends enable clients to handle their friend list in the Photon Chat server. Having users on your friends list gives you access to their current online status (and whatever info your client sets in it).

Each user can set an online status consisting of an integer and an arbitratry (serializable) object. The object can be null, Hashtable, object[] or anything else Photon can serialize.

The status is published automatically to friends (anyone who set your user ID with AddFriends).

Photon flushes friends-list when a chat client disconnects, so it has to be set each time. If your community API gives you access to online status already, you could filter and set online friends in AddFriends.

Actual friend relations are not persistent and have to be stored outside of Photon.

Parameters

friends	Array of friend userIds.

Returns

If the operation could be sent.

8.7.3.2 bool ExitGames.Client.Photon.Chat.ChatClient.Connect (string *appId,* string *appVersion,* AuthenticationValues *authValues*)

Connects this client to the Photon Chat Cloud service, which will also authenticate the user (and set a UserId).

Parameters

appId	Get your Photon Chat AppId from the Dashboard.
appVersion	Any version string you make up. Used to separate users and variants of your clients, which might be incompatible.
authValues	Values for authentication. You can leave this null, if you set a UserId before. If you set authValues, they will override any UserId set before.

Returns

8.7.3.3 void ExitGames.Client.Photon.Chat.ChatClient.Disconnect ( )

8.7.3.4 string ExitGames.Client.Photon.Chat.ChatClient.GetPrivateChannelNameByUser (string *userName*)

Get you the (locally used) channel name for the chat between this client and another user.

Parameters

userName	Remote user's name or UserId.

Returns

The (locally used) channel name for a private channel.

8.7.3.5 bool ExitGames.Client.Photon.Chat.ChatClient.PublishMessage (string *channelName,* object *message*)

Sends a message to a public channel which this client subscribed to.

Before you publish to a channel, you have to subscribe it. Everyone in that channel will get the message.

Parameters

channelName	Name of the channel to publish to.
message	Your message (string or any serializable data).

Returns

False if the client is not yet ready to send messages.

8.7.3.6 bool ExitGames.Client.Photon.Chat.ChatClient.RemoveFriends (string[ ] *friends*)

Removes the provided entries from the list on the Chat Server and stops their status updates.

Photon flushes friends-list when a chat client disconnects. Unless you want to remove individual entries, you don't have to RemoveFriends.

AddFriends and RemoveFriends enable clients to handle their friend list in the Photon Chat server. Having users on your friends list gives you access to their current online status (and whatever info your client sets in it).

Each user can set an online status consisting of an integer and an arbitratry (serializable) object. The object can be null, Hashtable, object[] or anything else Photon can serialize.

The status is published automatically to friends (anyone who set your user ID with AddFriends).

Photon flushes friends-list when a chat client disconnects, so it has to be set each time. If your community API gives you access to online status already, you could filter and set online friends in AddFriends.

Actual friend relations are not persistent and have to be stored outside of Photon.

AddFriends and RemoveFriends enable clients to handle their friend list in the Photon Chat server. Having users on your friends list gives you access to their current online status (and whatever info your client sets in it).

Each user can set an online status consisting of an integer and an arbitratry (serializable) object. The object can be null, Hashtable, object[] or anything else Photon can serialize.

The status is published automatically to friends (anyone who set your user ID with AddFriends).

Actual friend relations are not persistent and have to be stored outside of Photon.

Parameters

friends	Array of friend userIds.

Returns

If the operation could be sent.

8.7.3.7 void ExitGames.Client.Photon.Chat.ChatClient.SendAcksOnly ( )

8.7.3.8 bool ExitGames.Client.Photon.Chat.ChatClient.SendPrivateMessage (string *target,* object *message*)

Sends a private message to a single target user.

Calls OnPrivateMessage on the receiving client.

Parameters

target	Username to send this message to.
message	The message you want to send. Can be a simple string or anything serializable.

Returns

True if this clients can send the message to the server.

8.7.3.9 bool ExitGames.Client.Photon.Chat.ChatClient.SendPrivateMessage (string *target*, object *message*, bool *encrypt*)

Sends a private message to a single target user.

Calls OnPrivateMessage on the receiving client.

Parameters

target	Username to send this message to.
message	The message you want to send. Can be a simple string or anything serializable.
encrypt	Optionally, private messages can be encrypted. Encryption is not end-to-end as the server decrypts the message.

Returns

True if this clients can send the message to the server.

8.7.3.10 void ExitGames.Client.Photon.Chat.ChatClient.Service ( )

Must be called regularly to keep connection between client and server alive and to process incoming messages.

This method limits the effort it does automatically using the private variable msDeltaForServiceCalls. That value is lower for connect and multiplied by 4 when chat-server connection is ready.

8.7.3.11 bool ExitGames.Client.Photon.Chat.ChatClient.SetOnlineStatus (int *status*)

Sets the user's status without changing your status-message.

The predefined status values can be found in class ChatUserStatus. State ChatUserStatus.Invisible will make you offline for everyone and send no message.

You can set custom values in the status integer. Aside from the pre-configured ones, all states will be considered visible and online. Else, no one would see the custom state.

This overload does not change the set message.

Parameters

status	Predefined states are in class ChatUserStatus. Other values can be used at will.

Returns

True if the operation gets called on the server.

8.7.3.12 bool ExitGames.Client.Photon.Chat.ChatClient.SetOnlineStatus (int *status*, object *message*)

Sets the user's status without changing your status-message.

The predefined status values can be found in class ChatUserStatus. State ChatUserStatus.Invisible will make you offline for everyone and send no message.

You can set custom values in the status integer. Aside from the pre-configured ones, all states will be considered visible and online. Else, no one would see the custom state.

The message object can be anything that Photon can serialize, including (but not limited to) Hashtable, object[] and string. This value is defined by your own conventions.

Parameters

status	Predefined states are in class ChatUserStatus. Other values can be used at will.
message	Also sets a status-message which your friends can get.

Returns

True if the operation gets called on the server.

8.7.3.13 void ExitGames.Client.Photon.Chat.ChatClient.StopThread ( )

8.7.3.14 bool ExitGames.Client.Photon.Chat.ChatClient.Subscribe (string[ ] *channels*)

Sends operation to subscribe to a list of channels by name.

Parameters

channels	List of channels to subscribe to. Avoid null or empty values.

Returns

If the operation could be sent at all (Example: Fails if not connected to Chat Server).

8.7.3.15 bool ExitGames.Client.Photon.Chat.ChatClient.Subscribe (string[ ] *channels,* int *messagesFromHistory*)

Sends operation to subscribe client to channels, optionally fetching a number of messages from the cache.

Subscribes channels will forward new messages to this user. Use PublishMessage to do so. The messages cache is limited but can be useful to get into ongoing conversations, if that's needed.

Parameters

channels	List of channels to subscribe to. Avoid null or empty values.
messagesFromHistory	0: no history. 1 and higher: number of messages in history. -1: all available history.

Returns

If the operation could be sent at all (Example: Fails if not connected to Chat Server).

8.7.3.16 bool ExitGames.Client.Photon.Chat.ChatClient.TryGetChannel (string *channelName,* bool *isPrivate,* out ChatChannel *channel*)

Simplified access to either private or public channels by name.

Parameters

channelName	Name of the channel to get. For private channels, the channel-name is composed of both user's names.
isPrivate	Define if you expect a private or public channel.
channel	Out parameter gives you the found channel, if any.

Returns

True if the channel was found.

8.7.3.17 bool ExitGames.Client.Photon.Chat.ChatClient.TryGetChannel (string *channelName,* out ChatChannel *channel*)

Simplified access to all channels by name.

Checks public channels first, then private ones.

Parameters

channelName	Name of the channel to get.
channel	Out parameter gives you the found channel, if any.

Returns

True if the channel was found.

8.7.3.18 bool ExitGames.Client.Photon.Chat.ChatClient.Unsubscribe (string[ ] *channels*)

Unsubscribes from a list of channels, which stops getting messages from those.

The client will remove these channels from the PublicChannels dictionary once the server sent a response to this request.

The request will be sent to the server and IChatClientListener.OnUnsubscribed gets called when the server actually removed the channel subscriptions.

Unsubscribe will fail if you include null or empty channel names.

Parameters

channels	Names of channels to unsubscribe.

Returns

False, if not connected to a chat server.

8.7.4 Member Data Documentation

8.7.4.1 int ExitGames.Client.Photon.Chat.ChatClient.MessageLimit

If greater than 0, new channels will limit the number of messages they cache locally.

This can be useful to limit the amount of memory used by chats. You can set a MessageLimit per channel but this value gets applied to new ones.

Note: Changing this value, does not affect ChatChannels that are already in use!

8.7.4.2 readonly Dictionary<string, ChatChannel> ExitGames.Client.Photon.Chat.ChatClient.PrivateChannels

8.7.4.3 readonly Dictionary<string, ChatChannel> ExitGames.Client.Photon.Chat.ChatClient.PublicChannels

8.7.5 Property Documentation

8.7.5.1 string ExitGames.Client.Photon.Chat.ChatClient.AppId [get]

The AppID as assigned from the Photon Cloud. If you host yourself, this is the "regular" Photon Server Application Name (most likely: "LoadBalancing").

8.7.5.2 string ExitGames.Client.Photon.Chat.ChatClient.AppVersion [get]

The version of your client. A new version also creates a new "virtual app" to separate players from older client versions.

8.7.5.3 AuthenticationValues ExitGames.Client.Photon.Chat.ChatClient.AuthValues [get], [set]

Settable only before you connect!

8.7.5.4 bool ExitGames.Client.Photon.Chat.ChatClient.CanChat [get]

8.7.5.5 string ExitGames.Client.Photon.Chat.ChatClient.ChatRegion [get], [set]

Settable only before you connect! Defaults to "EU".

8.7.5.6 DebugLevel ExitGames.Client.Photon.Chat.ChatClient.DebugOut [get], [set]

Sets the level (and amount) of debug output provided by the library.

This affects the callbacks to IChatClientListener.DebugReturn. Default Level: Error.

8.7.5.7 ChatDisconnectCause ExitGames.Client.Photon.Chat.ChatClient.DisconnectedCause [get]

8.7.5.8 string ExitGames.Client.Photon.Chat.ChatClient.FrontendAddress [get]

The address of the actual chat server assigned from NameServer. Public for read only.

8.7.5.9 string ExitGames.Client.Photon.Chat.ChatClient.NameServerAddress [get]

The address of last connected Name Server.

8.7.5.10 ChatState ExitGames.Client.Photon.Chat.ChatClient.State [get]

Current state of the ChatClient. Also use CanChat.

8.7.5.11 string ExitGames.Client.Photon.Chat.ChatClient.UserId [get]

The unique ID of a user/person, stored in AuthValues.UserId.

Set it before you connect.

This value wraps AuthValues.UserId. It's not a nickname and we assume users with the same userID are the same person.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatClient.cs

8.8 ExitGames.Client.Photon.Chat.ChatEventCode Class Reference

Wraps up internally used constants in Photon Chat events.

Public Attributes

- const byte ChatMessages = 0
- const byte Users = 1
- const byte PrivateMessage = 2
- const byte FriendsList = 3
- const byte StatusUpdate = 4
- const byte Subscribe = 5
- const byte Unsubscribe = 6

8.8.1 Detailed Description

Wraps up internally used constants in Photon Chat events.

You don't have to use them directly usually.

8.8.2 Member Data Documentation

8.8.2.1 const byte ExitGames.Client.Photon.Chat.ChatEventCode.ChatMessages = 0

8.8.2.2 const byte ExitGames.Client.Photon.Chat.ChatEventCode.FriendsList = 3

8.8.2.3 const byte ExitGames.Client.Photon.Chat.ChatEventCode.PrivateMessage = 2

8.8.2.4 const byte ExitGames.Client.Photon.Chat.ChatEventCode.StatusUpdate = 4

8.8.2.5 const byte ExitGames.Client.Photon.Chat.ChatEventCode.Subscribe = 5

8.8.2.6 const byte ExitGames.Client.Photon.Chat.ChatEventCode.Unsubscribe = 6

8.8.2.7 const byte ExitGames.Client.Photon.Chat.ChatEventCode.Users = 1

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatEventCode.cs

8.9 ExitGames.Client.Photon.Chat.ChatOperationCode Class Reference

Wraps up codes for operations used internally in Photon Chat.

Public Attributes

- const byte Authenticate = 230
  (230) Operation Authenticate.
- const byte Subscribe = 0
  (0) Operation to subscribe to chat channels.
- const byte Unsubscribe = 1
  (1) Operation to unsubscribe from chat channels.
- const byte Publish = 2
  (2) Operation to publish a message in a chat channel.
- const byte SendPrivate = 3
  (3) Operation to send a private message to some other user.
- const byte ChannelHistory = 4
  (4) Not used yet.
- const byte UpdateStatus = 5
  (5) Set your (client's) status.
- const byte AddFriends = 6
  (6) Add friends the list of friends that should update you of their status.
- const byte RemoveFriends = 7
  (7) Remove friends from list of friends that should update you of their status.

8.9.1 Detailed Description

Wraps up codes for operations used internally in Photon Chat.

You don't have to use them directly usually.

8.9.2 Member Data Documentation

8.9.2.1 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.AddFriends = 6

(6) Add friends the list of friends that should update you of their status.

8.9.2.2 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.Authenticate = 230

(230) Operation Authenticate.

8.9.2.3 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.ChannelHistory = 4

(4) Not used yet.

8.9.2.4 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.Publish = 2

(2) Operation to publish a message in a chat channel.

8.9.2.5 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.RemoveFriends = 7

(7) Remove friends from list of friends that should update you of their status.

8.9.2.6 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.SendPrivate = 3

(3) Operation to send a private message to some other user.

8.9.2.7 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.Subscribe = 0

(0) Operation to subscribe to chat channels.

8.9.2.8 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.Unsubscribe = 1

(1) Operation to unsubscribe from chat channels.

8.9.2.9 const byte ExitGames.Client.Photon.Chat.ChatOperationCode.UpdateStatus = 5

(5) Set your (client's) status.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatOperationCode.cs

8.10 ExitGames.Client.Photon.Chat.ChatParameterCode Class Reference

Wraps up codes for parameters (in operations and events) used internally in Photon Chat.

Public Attributes

- const byte Channels = 0

  (0) Array of chat channels.
- const byte Channel = 1

  (1) Name of a single chat channel.
- const byte Messages = 2

  (2) Array of chat messages.
- const byte Message = 3

  (3) A single chat message.
- const byte Senders = 4

  (4) Array of names of the users who sent the array of chat mesages.
- const byte Sender = 5

  (5) Name of a the user who sent a chat message.
- const byte ChannelUserCount = 6

  (6) Not used.
- const byte UserId = 225

  (225) Name of user to send a (private) message to.
- const byte MsgId = 8

  (8) Id of a message.
- const byte MsgIds = 9

  (9) Not used.
- const byte Secret = 221

  (221) Secret token to identify an authorized user.
- const byte SubscribeResults = 15

  (15) Subscribe operation result parameter. A bool[] with result per channel.
- const byte Status = 10

  (10) Status
- const byte Friends = 11

  (11) Friends
- const byte SkipMessage = 12

  (12) SkipMessage is used in SetOnlineStatus and if true, the message is not being broadcast.
- const byte HistoryLength = 14

  (14) Number of message to fetch from history. 0: no history. 1 and higher: number of messages in history. -1: all history.

8.10.1 Detailed Description

Wraps up codes for parameters (in operations and events) used internally in Photon Chat.

You don't have to use them directly usually.

8.10.2 Member Data Documentation

8.10.2.1 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Channel = 1

(1) Name of a single chat channel.

8.10.2.2 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Channels = 0

(0) Array of chat channels.

8.10.2.3 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.ChannelUserCount = 6

(6) Not used.

8.10.2.4 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Friends = 11

(11) Friends

8.10.2.5 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.HistoryLength = 14

(14) Number of message to fetch from history. 0: no history. 1 and higher: number of messages in history. -1: all history.

8.10.2.6 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Message = 3

(3) A single chat message.

8.10.2.7 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Messages = 2

(2) Array of chat messages.

8.10.2.8 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.MsgId = 8

(8) Id of a message.

8.10.2.9 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.MsgIds = 9

(9) Not used.

8.10.2.10 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Secret = 221

(221) Secret token to identify an authorized user.

The code is used in LoadBalancing and copied over here.

8.10.2.11 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Sender = 5

(5) Name of a the user who sent a chat message.

8.10.2.12 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Senders = 4

(4) Array of names of the users who sent the array of chat mesages.

8.10.2.13 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.SkipMessage = 12

(12) SkipMessage is used in SetOnlineStatus and if true, the message is not being broadcast.

8.10.2.14 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.Status = 10

(10) Status

8.10.2.15 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.SubscribeResults = 15

(15) Subscribe operation result parameter. A bool[] with result per channel.

8.10.2.16 const byte ExitGames.Client.Photon.Chat.ChatParameterCode.UserId = 225

(225) Name of user to send a (private) message to.

The code is used in LoadBalancing and copied over here.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatParameterCode.cs

8.11 ExitGames.Client.Photon.Chat.ChatUserStatus Class Reference

Contains commonly used status values for SetOnlineStatus.

Public Attributes

- const int Offline = 0

  (0) Offline.
- const int Invisible = 1

  (1) Be invisible to everyone. Sends no message.
- const int Online = 2

  (2) Online and available.
- const int Away = 3

  (3) Online but not available.
- const int DND = 4

  (4) Do not disturb.
- const int LFG = 5

  (5) Looking For Game/Group. Could be used when you want to be invited or do matchmaking.
- const int Playing = 6

  (6) Could be used when in a room, playing.

8.11.1 Detailed Description

Contains commonly used status values for SetOnlineStatus.

You can define your own.

While "online" (value 2 and up), the status message will be sent to anyone who has you on his friend list.

Define custom online status values as you like with these rules: 0: Means "offline". It will be used when you are not connected. In this status, there is no status message. 1: Means "invisible" and is sent to friends as "offline". They see status 0, no message but you can chat. 2: And any higher value will be treated as "online". Status can be set.

8.11.2 Member Data Documentation

8.11.2.1 const int ExitGames.Client.Photon.Chat.ChatUserStatus.Away = 3

(3) Online but not available.

8.11.2.2 const int ExitGames.Client.Photon.Chat.ChatUserStatus.DND = 4

(4) Do not disturb.

8.11.2.3 const int ExitGames.Client.Photon.Chat.ChatUserStatus.Invisible = 1

(1) Be invisible to everyone. Sends no message.

8.11.2.4 const int ExitGames.Client.Photon.Chat.ChatUserStatus.LFG = 5

(5) Looking For Game/Group. Could be used when you want to be invited or do matchmaking.

8.11.2.5 const int ExitGames.Client.Photon.Chat.ChatUserStatus.Offline = 0

(0) Offline.

8.11.2.6 const int ExitGames.Client.Photon.Chat.ChatUserStatus.Online = 2

(2) Online and available.

8.11.2.7 const int ExitGames.Client.Photon.Chat.ChatUserStatus.Playing = 6

(6) Could be used when in a room, playing.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatUserStatus.cs

8.12 ColorRPC Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void ChangeColorToBlue ()
- void ChangeColorToRed ()

8.12.1 Member Function Documentation

8.12.1.1 void ColorRPC.ChangeColorToBlue ( )

8.12.1.2 void ColorRPC.ChangeColorToRed ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/ColorRPC.cs

8.13 ConnectAndJoinRandom Class Reference

This script automatically connects to Photon (using the settings file), tries to join a random room and creates one if none was found (which is ok).

Inherits Photon.MonoBehaviour.

Public Member Functions

- virtual void Start ()
- virtual void Update ()
- virtual void OnConnectedToMaster ()
- virtual void OnJoinedLobby ()
- virtual void OnPhotonRandomJoinFailed ()
- virtual void OnFailedToConnectToPhoton (DisconnectCause cause)
- void OnJoinedRoom ()

Public Attributes

- bool AutoConnect = true

  Connect automatically? If false you can set this to true later on or call ConnectUsingSettings in your own scripts.
- byte Version = 1

Additional Inherited Members

8.13.1 Detailed Description

This script automatically connects to Photon (using the settings file), tries to join a random room and creates one if none was found (which is ok).

8.13.2 Member Function Documentation

8.13.2.1 virtual void ConnectAndJoinRandom.OnConnectedToMaster ( ) [virtual]

8.13.2.2 virtual void ConnectAndJoinRandom.OnFailedToConnectToPhoton (DisconnectCause *cause*) [virtual]

8.13.2.3 virtual void ConnectAndJoinRandom.OnJoinedLobby ( ) [virtual]

8.13.2.4 void ConnectAndJoinRandom.OnJoinedRoom ( )

8.13.2.5 virtual void ConnectAndJoinRandom.OnPhotonRandomJoinFailed ( ) [virtual]

8.13.2.6 virtual void ConnectAndJoinRandom.Start ( ) [virtual]

8.13.2.7 virtual void ConnectAndJoinRandom.Update ( ) [virtual]

8.13.3 Member Data Documentation

8.13.3.1 bool ConnectAndJoinRandom.AutoConnect = true

Connect automatically? If false you can set this to true later on or call ConnectUsingSettings in your own scripts.

8.13.3.2 byte ConnectAndJoinRandom.Version = 1

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/ConnectAndJoinRandom.cs

8.14 ContolChange Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void Back ()

8.14.1 Member Function Documentation

8.14.1.1 void ContolChange.Back ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/ContolChange.cs

8.15 Control_Scene Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void Menu ()
- void Update ()

8.15.1 Member Function Documentation

8.15.1.1 void Control_Scene.Menu ( )

8.15.1.2 void Control_Scene.Update ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/Control_Scene.cs

8.16 DoxygenConfig Class Reference

Public Attributes

- string Project = PlayerSettings.productName
- string Synopsis = ""
- string Version = ""
- string ScriptsDirectory = Application.dataPath
- string DocDirectory = Application.dataPath.Replace("Assets", "Docs")
- string PathtoDoxygen = ""

8.16.1 Detailed Description

A small data structure class hold values for making Doxygen config files

8.16.2 Member Data Documentation

8.16.2.1 string DoxygenConfig.DocDirectory = Application.dataPath.Replace("Assets", "Docs")

8.16.2.2 string DoxygenConfig.PathtoDoxygen = ""

8.16.2.3 string DoxygenConfig.Project = PlayerSettings.productName

8.16.2.4 string DoxygenConfig.ScriptsDirectory = Application.dataPath

8.16.2.5 string DoxygenConfig.Synopsis = ""

8.16.2.6 string DoxygenConfig.Version = ""

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Editor/Doxygen/DoxygenWindow.cs

8.17 DoxygenWindow Class Reference

Inherits EditorWindow.

Public Types

- enum WindowModes { WindowModes.Generate, WindowModes.Configuration, WindowModes.About }

Public Member Functions

- void readBaseConfig ()
- void MakeNewDoxyFile (DoxygenConfig config)
- void RunDoxygen ()

Static Public Member Functions

- static void Init ()
- static void OnDoxygenFinished (int code)

Public Attributes

- string UnityProjectID = PlayerSettings.productName+":"
- string AssestsFolder = Application.dataPath
- string[ ] Themes = new string[3] {"Default", "Dark and Colorful", "Light and Clean"}
- int SelectedTheme = 1
- string BaseFileString = null
- string DoxygenOutputString = null
- string CurentOutput = null

Static Public Attributes

- static DoxygenWindow Instance

8.17.1 Detailed Description

A Editor Plugin for automatic doc generation through Doxygen

Author: Jacob Pennock (http://Jacobpennock.com)

Version: 1.0

8.17.2 Member Enumeration Documentation

8.17.2.1 enum DoxygenWindow.WindowModes [strong]

Enumerator

Generate

Configuration

About

8.17.3 Member Function Documentation

8.17.3.1 static void DoxygenWindow.Init ( ) [static]

8.17.3.2 void DoxygenWindow.MakeNewDoxyFile (DoxygenConfig *config*)

8.17.3.3 static void DoxygenWindow.OnDoxygenFinished (int *code*) [static]

8.17.3.4 void DoxygenWindow.readBaseConfig ( )

8.17.3.5 void DoxygenWindow.RunDoxygen ( )

8.17.4 Member Data Documentation

8.17.4.1 string DoxygenWindow.AssestsFolder = Application.dataPath

8.17.4.2 string DoxygenWindow.BaseFileString = null

8.17.4.3 string DoxygenWindow.CurentOutput = null

8.17.4.4 string DoxygenWindow.DoxygenOutputString = null

8.17.4.5 DoxygenWindow DoxygenWindow.Instance [static]

8.17.4.6 int DoxygenWindow.SelectedTheme = 1

8.17.4.7 string [ ] DoxygenWindow.Themes = new string[3] {"Default", "Dark and Colorful", "Light and Clean"}

8.17.4.8 string DoxygenWindow.UnityProjectID = PlayerSettings.productName+":"

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Editor/Doxygen/DoxygenWindow.cs

8.18 DoxyRunner Class Reference

This class spawns and runs Doxygen in a separate thread, and could serve as an example of how to create plugins for unity that call a command line application and then get the data back into Unity safely.

Public Member Functions

- DoxyRunner (string exepath, string[ ] args, DoxyThreadSafeOutput safeoutput, Action< int > callback)
- void updateOuputString (string output)
- void RunThreadedDoxy ()

Static Public Member Functions

- static int Run (Action< string > output, TextReader input, string exe, params string[ ] args)

  Runs the specified executable with the provided arguments and returns the process' exit code.
- static string EscapeArguments (params string[ ] args)

  Quotes all arguments that contain whitespace, or begin with a quote and returns a single argument string for use with Process.Start().
- static string FindExePath (string exe)

  Expands environment variables and, if unqualified, locates the exe in the working directory or the evironment's path.

Public Attributes

- Action< int > onCompleteCallBack
- string EXE = null
- string[ ] Args

8.18.1 Detailed Description

This class spawns and runs Doxygen in a separate thread, and could serve as an example of how to create plugins for unity that call a command line application and then get the data back into Unity safely.

8.18.2 Constructor & Destructor Documentation

8.18.2.1 DoxyRunner.DoxyRunner (string *exepath,* string[ ] *args,* DoxyThreadSafeOutput *safeoutput,* Action< int > *callback*)

8.18.3 Member Function Documentation

8.18.3.1 static string DoxyRunner.EscapeArguments (params string[ ] *args*) [static]

Quotes all arguments that contain whitespace, or begin with a quote and returns a single argument string for use with Process.Start().

Parameters

args	A list of strings for arguments, may not contain null, '\0', '', or ''

Returns

The combined list of escaped/quoted strings

Exceptions

System.ArgumentNullException	Raised when one of the arguments is null
System.ArgumentOutOfRangeException	Raised if an argument contains '\0', '', or ''

8.18.3.2 static string DoxyRunner.FindExePath (string *exe*) [static]

Expands environment variables and, if unqualified, locates the exe in the working directory or the evironment's path.

Parameters

exe	The name of the executable file

Returns

The fully-qualified path to the file

Exceptions

System.IO.FileNotFoundException	Raised when the exe was not found

8.18.3.3 static int DoxyRunner.Run (Action< string > *output,* TextReader *input,* string *exe,* params string[ ] *args*) [static]

Runs the specified executable with the provided arguments and returns the process' exit code.

Parameters

output	Recieves the output of either std/err or std/out
input	Provides the line-by-line input that will be written to std/in, null for empty
exe	The executable to run, may be unqualified or contain environment variables
args	The list of unescaped arguments to provide to the executable

Returns

Returns process' exit code after the program exits

Exceptions

System.IO.FileNotFoundException	Raised when the exe was not found
System.ArgumentNullException	Raised when one of the arguments is null
System.ArgumentOutOfRangeException	Raised if an argument contains '\0', '', or ' '

8.18.3.4 void DoxyRunner.RunThreadedDoxy ( )

8.18.3.5 void DoxyRunner.updateOuputString (string *output*)

8.18.4 Member Data Documentation

8.18.4.1 string [ ] DoxyRunner.Args

8.18.4.2 string DoxyRunner.EXE = null

8.18.4.3 Action<int> DoxyRunner.onCompleteCallBack

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Editor/Doxygen/DoxygenWindow.cs

8.19 DoxyThreadSafeOutput Class Reference

This class encapsulates the data output by Doxygen so it can be shared with Unity in a thread share way.

Public Member Functions

- string ReadLine ()
- void SetFinished ()
- void SetStarted ()
- bool isStarted ()
- bool isFinished ()
- List< string > ReadFullLog ()
- void WriteFullLog (List< string > newLog)
- void WriteLine (string newOutput)

8.19.1 Detailed Description

This class encapsulates the data output by Doxygen so it can be shared with Unity in a thread share way.

8.19.2 Member Function Documentation

8.19.2.1 bool DoxyThreadSafeOutput.isFinished ( )

8.19.2.2 bool DoxyThreadSafeOutput.isStarted ( )

8.19.2.3 List<string> DoxyThreadSafeOutput.ReadFullLog ( )

8.19.2.4 string DoxyThreadSafeOutput.ReadLine ( )

8.19.2.5 void DoxyThreadSafeOutput.SetFinished ( )

8.19.2.6 void DoxyThreadSafeOutput.SetStarted ( )

8.19.2.7 void DoxyThreadSafeOutput.WriteFullLog (List< string > *newLog*)

8.19.2.8 void DoxyThreadSafeOutput.WriteLine (string *newOutput*)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Editor/Doxygen/DoxygenWindow.cs

8.20 ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams Class Reference

Public Attributes

- string RoomName
- RoomOptions RoomOptions
- TypedLobby Lobby
- Hashtable PlayerProperties
- bool OnGameServer = true
- bool CreateIfNotExists

8.20.1 Member Data Documentation

8.20.1.1 bool ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams.CreateIfNotExists

8.20.1.2 TypedLobby ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams.Lobby

8.20.1.3 bool ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams.OnGameServer = true

8.20.1.4 Hashtable ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams.PlayerProperties

8.20.1.5 string ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams.RoomName

8.20.1.6 RoomOptions ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams.RoomOptions

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.21 ExitGames.Client.Photon.Chat.ErrorCode Class Reference

ErrorCode defines the default codes associated with Photon client/server communication.

Public Attributes

- const int Ok = 0

  (0) is always "OK", anything else an error or specific situation.
- const int OperationNotAllowedInCurrentState = -3

  (-3) Operation can't be executed yet (e.g.
- const int InvalidOperationCode = -2

  (-2) The operation you called is not implemented on the server (application) you connect to. Make sure you run the fitting applications.
- const int InternalServerError = -1

  (-1) Something went wrong in the server. Try to reproduce and contact Exit Games.
- const int InvalidAuthentication = 0x7FFF

  (32767) Authentication failed. Possible cause: AppId is unknown to Photon (in cloud service).
- const int GameIdAlreadyExists = 0x7FFF - 1

  (32766) GameId (name) already in use (can't create another). Change name.
- const int GameFull = 0x7FFF - 2

  (32765) Game is full. This rarely happens when some player joined the room before your join completed.
- const int GameClosed = 0x7FFF - 3

  (32764) Game is closed and can't be joined. Join another game.
- const int ServerFull = 0x7FFF - 5

  (32762) Not in use currently.
- const int UserBlocked = 0x7FFF - 6

  (32761) Not in use currently.
- const int NoRandomMatchFound = 0x7FFF - 7

  (32760) Random matchmaking only succeeds if a room exists thats neither closed nor full. Repeat in a few seconds or create a new room.
- const int GameDoesNotExist = 0x7FFF - 9

  (32758) Join can fail if the room (name) is not existing (anymore). This can happen when players leave while you join.
- const int MaxCcuReached = 0x7FFF - 10

  (32757) Authorization on the Photon Cloud failed becaus the concurrent users (CCU) limit of the app's subscription is reached.
- const int InvalidRegion = 0x7FFF - 11

  (32756) Authorization on the Photon Cloud failed because the app's subscription does not allow to use a particular region's server.
- const int CustomAuthenticationFailed = 0x7FFF - 12

  (32755) Custom Authentication of the user failed due to setup reasons (see Cloud Dashboard) or the provided user data (like username or token).

8.21.1 Detailed Description

ErrorCode defines the default codes associated with Photon client/server communication.

8.21.2 Member Data Documentation

8.21.2.1 const int ExitGames.Client.Photon.Chat.ErrorCode.CustomAuthenticationFailed = 0x7FFF - 12

(32755) Custom Authentication of the user failed due to setup reasons (see Cloud Dashboard) or the provided user data (like username or token).

Check error message for details.

8.21.2.2 const int ExitGames.Client.Photon.Chat.ErrorCode.GameClosed = 0x7FFF - 3

(32764) Game is closed and can't be joined. Join another game.

8.21.2.3 const int ExitGames.Client.Photon.Chat.ErrorCode.GameDoesNotExist = 0x7FFF - 9

(32758) Join can fail if the room (name) is not existing (anymore). This can happen when players leave while you join.

8.21.2.4 const int ExitGames.Client.Photon.Chat.ErrorCode.GameFull = 0x7FFF - 2

(32765) Game is full. This rarely happens when some player joined the room before your join completed.

8.21.2.5 const int ExitGames.Client.Photon.Chat.ErrorCode.GameIdAlreadyExists = 0x7FFF - 1

(32766) GameId (name) already in use (can't create another). Change name.

8.21.2.6 const int ExitGames.Client.Photon.Chat.ErrorCode.InternalServerError = -1

(-1) Something went wrong in the server. Try to reproduce and contact Exit Games.

8.21.2.7 const int ExitGames.Client.Photon.Chat.ErrorCode.InvalidAuthentication = 0x7FFF

(32767) Authentication failed. Possible cause: AppId is unknown to Photon (in cloud service).

8.21.2.8 const int ExitGames.Client.Photon.Chat.ErrorCode.InvalidOperationCode = -2

(-2) The operation you called is not implemented on the server (application) you connect to. Make sure you run the fitting applications.

8.21.2.9 const int ExitGames.Client.Photon.Chat.ErrorCode.InvalidRegion = 0x7FFF - 11

(32756) Authorization on the Photon Cloud failed because the app's subscription does not allow to use a particular region's server.

Some subscription plans for the Photon Cloud are region-bound. Servers of other regions can't be used then. Check your master server address and compare it with your Photon Cloud Dashboard's info. https://cloud.photonengine.com/dashboard

OpAuthorize is part of connection workflow but only on the Photon Cloud, this error can happen. Self-hosted Photon servers with a CCU limited license won't let a client connect at all.

8.21.2.10 const int ExitGames.Client.Photon.Chat.ErrorCode.MaxCcuReached = 0x7FFF - 10

(32757) Authorization on the Photon Cloud failed becaus the concurrent users (CCU) limit of the app's subscription is reached.

Unless you have a plan with "CCU Burst", clients might fail the authentication step during connect. Affected client are unable to call operations. Please note that players who end a game and return to the master server will disconnect and re-connect, which means that they just played and are rejected in the next minute / re-connect. This is a temporary measure. Once the CCU is below the limit, players will be able to connect an play again.

OpAuthorize is part of connection workflow but only on the Photon Cloud, this error can happen. Self-hosted Photon servers with a CCU limited license won't let a client connect at all.

8.21.2.11 const int ExitGames.Client.Photon.Chat.ErrorCode.NoRandomMatchFound = 0x7FFF - 7

(32760) Random matchmaking only succeeds if a room exists thats neither closed nor full. Repeat in a few seconds or create a new room.

8.21.2.12 const int ExitGames.Client.Photon.Chat.ErrorCode.Ok = 0

(0) is always "OK", anything else an error or specific situation.

8.21.2.13 const int ExitGames.Client.Photon.Chat.ErrorCode.OperationNotAllowedInCurrentState = -3

(-3) Operation can't be executed yet (e.g.

OpJoin can't be called before being authenticated, RaiseEvent cant be used before getting into a room).

Before you call any operations on the Cloud servers, the automated client workflow must complete its authorization. In PUN, wait until State is: JoinedLobby (with AutoJoinLobby = true) or ConnectedToMaster (AutoJoinLobby = false)

8.21.2.14 const int ExitGames.Client.Photon.Chat.ErrorCode.ServerFull = 0x7FFF - 5

(32762) Not in use currently.

8.21.2.15 const int ExitGames.Client.Photon.Chat.ErrorCode.UserBlocked = 0x7FFF - 6

(32761) Not in use currently.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatPeer.cs

8.22 ExitGames.Client.Photon.ErrorCode Class Reference

ErrorCode defines the default codes associated with Photon client/server communication.

Public Attributes

- const int Ok = 0

  (0) is always "OK", anything else an error or specific situation.
- const int OperationNotAllowedInCurrentState = -3

  (-3) Operation can't be executed yet (e.g.
- const int InvalidOperationCode = -2

  (-2) The operation you called is not implemented on the server (application) you connect to. Make sure you run the fitting applications.
- const int InvalidOperation = -2

  (-2) The operation you called could not be executed on the server.
- const int InternalServerError = -1

  (-1) Something went wrong in the server. Try to reproduce and contact Exit Games.
- const int InvalidAuthentication = 0x7FFF

  (32767) Authentication failed. Possible cause: AppId is unknown to Photon (in cloud service).
- const int GameIdAlreadyExists = 0x7FFF - 1

  (32766) GameId (name) already in use (can't create another). Change name.
- const int GameFull = 0x7FFF - 2

  (32765) Game is full. This rarely happens when some player joined the room before your join completed.
- const int GameClosed = 0x7FFF - 3

  (32764) Game is closed and can't be joined. Join another game.
- const int AlreadyMatched = 0x7FFF - 4
- const int ServerFull = 0x7FFF - 5

  (32762) Not in use currently.
- const int UserBlocked = 0x7FFF - 6

  (32761) Not in use currently.
- const int NoRandomMatchFound = 0x7FFF - 7

  (32760) Random matchmaking only succeeds if a room exists thats neither closed nor full. Repeat in a few seconds or create a new room.
- const int GameDoesNotExist = 0x7FFF - 9

  (32758) Join can fail if the room (name) is not existing (anymore). This can happen when players leave while you join.
- const int MaxCcuReached = 0x7FFF - 10

  (32757) Authorization on the Photon Cloud failed becaus the concurrent users (CCU) limit of the app's subscription is reached.
- const int InvalidRegion = 0x7FFF - 11

  (32756) Authorization on the Photon Cloud failed because the app's subscription does not allow to use a particular region's server.
- const int CustomAuthenticationFailed = 0x7FFF - 12

  (32755) Custom Authentication of the user failed due to setup reasons (see Cloud Dashboard) or the provided user data (like username or token).
- const int AuthenticationTicketExpired = 0x7FF1

  (32753) The Authentication ticket expired. Usually, this is refreshed behind the scenes. Connect (and authorize) again.
- const int PluginReportedError = 0x7FFF - 15

  (32752) A server-side plugin (or webhook) failed to execute and reported an error.
- const int PluginMismatch = 0x7FFF - 16

  (32751) CreateGame/JoinGame/Join operation fails if expected plugin does not correspond to loaded one.

8.22.1 Detailed Description

ErrorCode defines the default codes associated with Photon client/server communication.

8.22.2 Member Data Documentation

8.22.2.1 const int ExitGames.Client.Photon.ErrorCode.AlreadyMatched = 0x7FFF - 4

8.22.2.2 const int ExitGames.Client.Photon.ErrorCode.AuthenticationTicketExpired = 0x7FF1

(32753) The Authentication ticket expired. Usually, this is refreshed behind the scenes. Connect (and authorize) again.

8.22.2.3 const int ExitGames.Client.Photon.ErrorCode.CustomAuthenticationFailed = 0x7FFF - 12

(32755) Custom Authentication of the user failed due to setup reasons (see Cloud Dashboard) or the provided user data (like username or token).

Check error message for details.

8.22.2.4 const int ExitGames.Client.Photon.ErrorCode.GameClosed = 0x7FFF - 3

(32764) Game is closed and can't be joined. Join another game.

8.22.2.5 const int ExitGames.Client.Photon.ErrorCode.GameDoesNotExist = 0x7FFF - 9

(32758) Join can fail if the room (name) is not existing (anymore). This can happen when players leave while you join.

8.22.2.6 const int ExitGames.Client.Photon.ErrorCode.GameFull = 0x7FFF - 2

(32765) Game is full. This rarely happens when some player joined the room before your join completed.

8.22.2.7 const int ExitGames.Client.Photon.ErrorCode.GameIdAlreadyExists = 0x7FFF - 1

(32766) GameId (name) already in use (can't create another). Change name.

8.22.2.8 const int ExitGames.Client.Photon.ErrorCode.InternalServerError = -1

(-1) Something went wrong in the server. Try to reproduce and contact Exit Games.

8.22.2.9 const int ExitGames.Client.Photon.ErrorCode.InvalidAuthentication = 0x7FFF

(32767) Authentication failed. Possible cause: AppId is unknown to Photon (in cloud service).

8.22.2.10 const int ExitGames.Client.Photon.ErrorCode.InvalidOperation = -2

(-2) The operation you called could not be executed on the server.

Make sure you are connected to the server you expect.

This code is used in several cases: The arguments/parameters of the operation might be out of range, missing entirely or conflicting. The operation you called is not implemented on the server (application). Server-side plugins affect the available operations.

8.22.2.11 const int ExitGames.Client.Photon.ErrorCode.InvalidOperationCode = -2

(-2) The operation you called is not implemented on the server (application) you connect to. Make sure you run the fitting applications.

8.22.2.12 const int ExitGames.Client.Photon.ErrorCode.InvalidRegion = 0x7FFF - 11

(32756) Authorization on the Photon Cloud failed because the app's subscription does not allow to use a particular region's server.

Some subscription plans for the Photon Cloud are region-bound. Servers of other regions can't be used then. Check your master server address and compare it with your Photon Cloud Dashboard's info. https://cloud.photonengine.com/dashboard

OpAuthorize is part of connection workflow but only on the Photon Cloud, this error can happen. Self-hosted Photon servers with a CCU limited license won't let a client connect at all.

8.22.2.13 const int ExitGames.Client.Photon.ErrorCode.MaxCcuReached = 0x7FFF - 10

(32757) Authorization on the Photon Cloud failed becaus the concurrent users (CCU) limit of the app's subscription is reached.

Unless you have a plan with "CCU Burst", clients might fail the authentication step during connect. Affected client are unable to call operations. Please note that players who end a game and return to the master server will disconnect and re-connect, which means that they just played and are rejected in the next minute / re-connect. This is a temporary measure. Once the CCU is below the limit, players will be able to connect an play again.

OpAuthorize is part of connection workflow but only on the Photon Cloud, this error can happen. Self-hosted Photon servers with a CCU limited license won't let a client connect at all.

8.22.2.14 const int ExitGames.Client.Photon.ErrorCode.NoRandomMatchFound = 0x7FFF - 7

(32760) Random matchmaking only succeeds if a room exists thats neither closed nor full. Repeat in a few seconds or create a new room.

8.22.2.15 const int ExitGames.Client.Photon.ErrorCode.Ok = 0

(0) is always "OK", anything else an error or specific situation.

8.22.2.16 const int ExitGames.Client.Photon.ErrorCode.OperationNotAllowedInCurrentState = -3

(-3) Operation can't be executed yet (e.g.

OpJoin can't be called before being authenticated, RaiseEvent cant be used before getting into a room).

Before you call any operations on the Cloud servers, the automated client workflow must complete its authorization. In PUN, wait until State is: JoinedLobby (with AutoJoinLobby = true) or ConnectedToMaster (AutoJoinLobby = false)

8.22.2.17 const int ExitGames.Client.Photon.ErrorCode.PluginMismatch = 0x7FFF - 16

(32751) CreateGame/JoinGame/Join operation fails if expected plugin does not correspond to loaded one.

8.22.2.18 const int ExitGames.Client.Photon.ErrorCode.PluginReportedError = 0x7FFF - 15

(32752) A server-side plugin (or webhook) failed to execute and reported an error.

Check the OperationResponse.DebugMessage.

8.22.2.19 const int ExitGames.Client.Photon.ErrorCode.ServerFull = 0x7FFF - 5

(32762) Not in use currently.

8.22.2.20 const int ExitGames.Client.Photon.ErrorCode.UserBlocked = 0x7FFF - 6

(32761) Not in use currently.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.23 ExitGames.Client.Photon.EventCode Class Reference

Class for constants.

Public Attributes

- const byte GameList = 230

  (230) Initial list of RoomInfos (in lobby on Master)
- const byte GameListUpdate = 229

  (229) Update of RoomInfos to be merged into "initial" list (in lobby on Master)
- const byte QueueState = 228

  (228) Currently not used. State of queueing in case of server-full
- const byte Match = 227

  (227) Currently not used. Event for matchmaking
- const byte AppStats = 226

  (226) Event with stats about this application (players, rooms, etc)
- const byte LobbyStats = 224

  (224) This event provides a list of lobbies with their player and game counts.
- const byte AzureNodeInfo = 210

  (210) Internally used in case of hosting by Azure
- const byte Join = (byte)255

  (255) Event Join: someone joined the game. The new actorNumber is provided as well as the properties of that actor (if set in OpJoin).
- const byte Leave = (byte)254

  (254) Event Leave: The player who left the game can be identified by the actorNumber.
- const byte PropertiesChanged = (byte)253

  (253) When you call OpSetProperties with the broadcast option "on", this event is fired. It contains the properties being set.
- const byte SetProperties = (byte)253

  (253) When you call OpSetProperties with the broadcast option "on", this event is fired. It contains the properties being set.
- const byte ErrorInfo = 251

  (252) When player left game unexpected and the room has a playerTtl > 0, this event is fired to let everyone know about the timeout.
- const byte CacheSliceChanged = 250

  (250) Sent by Photon whent he event cache slice was changed. Done by OpRaiseEvent.

8.23.1 Detailed Description

Class for constants.

These values are for events defined by Photon Loadbalancing. Pun uses these constants internally.

They start at 255 and go DOWN. Your own in-game events can start at 0.

8.23.2 Member Data Documentation

8.23.2.1 const byte ExitGames.Client.Photon.EventCode.AppStats = 226

(226) Event with stats about this application (players, rooms, etc)

8.23.2.2 const byte ExitGames.Client.Photon.EventCode.AzureNodeInfo = 210

(210) Internally used in case of hosting by Azure

8.23.2.3 const byte ExitGames.Client.Photon.EventCode.CacheSliceChanged = 250

(250) Sent by Photon whent he event cache slice was changed. Done by OpRaiseEvent.

8.23.2.4 const byte ExitGames.Client.Photon.EventCode.ErrorInfo = 251

(252) When player left game unexpected and the room has a playerTtl $>$ 0, this event is fired to let everyone know about the timeout.

Obsolete. Replaced by Leave. public const byte Disconnect = LiteEventCode.Disconnect;

(251) Sent by Photon Cloud when a plugin-call failed. Usually, the execution on the server continues, despite the issue. Contains: ParameterCode.Info.

8.23.2.5 const byte ExitGames.Client.Photon.EventCode.GameList = 230

(230) Initial list of RoomInfos (in lobby on Master)

8.23.2.6 const byte ExitGames.Client.Photon.EventCode.GameListUpdate = 229

(229) Update of RoomInfos to be merged into "initial" list (in lobby on Master)

8.23.2.7 const byte ExitGames.Client.Photon.EventCode.Join = (byte)255

(255) Event Join: someone joined the game. The new actorNumber is provided as well as the properties of that actor (if set in OpJoin).

8.23.2.8 const byte ExitGames.Client.Photon.EventCode.Leave = (byte)254

(254) Event Leave: The player who left the game can be identified by the actorNumber.

8.23.2.9 const byte ExitGames.Client.Photon.EventCode.LobbyStats = 224

(224) This event provides a list of lobbies with their player and game counts.

8.23.2.10 const byte ExitGames.Client.Photon.EventCode.Match = 227

(227) Currently not used. Event for matchmaking

8.23.2.11 const byte ExitGames.Client.Photon.EventCode.PropertiesChanged = (byte)253

(253) When you call OpSetProperties with the broadcast option "on", this event is fired. It contains the properties being set.

8.23.2.12 const byte ExitGames.Client.Photon.EventCode.QueueState = 228

(228) Currently not used. State of queueing in case of server-full

8.23.2.13 const byte ExitGames.Client.Photon.EventCode.SetProperties = (byte)253

(253) When you call OpSetProperties with the broadcast option "on", this event is fired. It contains the properties being set.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/Photon↩ Network/LoadbalancingPeer.cs

8.24 Extensions Class Reference

This static class defines some useful extension methods for several existing classes (e.g.

Static Public Member Functions

- static PhotonView[ ] GetPhotonViewsInChildren (this UnityEngine.GameObject go)
- static PhotonView GetPhotonView (this UnityEngine.GameObject go)
- static bool AlmostEquals (this Vector3 target, Vector3 second, float sqrMagnitudePrecision)

  compares the squared magnitude of target - second to given float value
- static bool AlmostEquals (this Vector2 target, Vector2 second, float sqrMagnitudePrecision)

  compares the squared magnitude of target - second to given float value
- static bool AlmostEquals (this Quaternion target, Quaternion second, float maxAngle)

  compares the angle between target and second to given float value
- static bool AlmostEquals (this float target, float second, float floatDiff)

  compares two floats and returns true of their difference is less than floatDiff
- static void Merge (this IDictionary target, IDictionary addHash)

  Merges all keys from addHash into the target.
- static void MergeStringKeys (this IDictionary target, IDictionary addHash)

  Merges keys of type string to target Hashtable.
- static string ToStringFull (this IDictionary origin)

  Returns a string-representation of the IDictionary's content, inlcuding type-information.
- static Hashtable StripToStringKeys (this IDictionary original)

  This method copies all string-typed keys of the original into a new Hashtable.
- static void StripKeysWithNullValues (this IDictionary original)

  This removes all key-value pairs that have a null-reference as value.
- static bool Contains (this int[ ] target, int nr)

  Checks if a particular integer value is in an int-array.

8.24.1 Detailed Description

This static class defines some useful extension methods for several existing classes (e.g.

Vector3, float and others).

8.24.2 Member Function Documentation

8.24.2.1 static bool Extensions.AlmostEquals (this Vector3 *target,* Vector3 *second,* float *sqrMagnitudePrecision*) [static]

compares the squared magnitude of target - second to given float value

8.24.2.2 static bool Extensions.AlmostEquals (this Vector2 *target,* Vector2 *second,* float *sqrMagnitudePrecision*) [static]

compares the squared magnitude of target - second to given float value

8.24.2.3 static bool Extensions.AlmostEquals (this Quaternion *target,* Quaternion *second,* float *maxAngle*) [static]

compares the angle between target and second to given float value

8.24.2.4 static bool Extensions.AlmostEquals (this float *target,* float *second,* float *floatDiff*) [static]

compares two floats and returns true of their difference is less than floatDiff

8.24.2.5 static bool Extensions.Contains (this int[ ] *target,* int *nr*) [static]

Checks if a particular integer value is in an int-array.

This might be useful to look up if a particular actorNumber is in the list of players of a room.

Parameters

target	The array of ints to check.
nr	The number to lookup in target.

Returns

True if nr was found in target.

8.24.2.6 static PhotonView Extensions.GetPhotonView (this UnityEngine.GameObject *go*) [static]

8.24.2.7 static PhotonView [ ] Extensions.GetPhotonViewsInChildren (this UnityEngine.GameObject *go*) [static]

8.24.2.8 static void Extensions.Merge (this IDictionary *target,* IDictionary *addHash*) [static]

Merges all keys from addHash into the target.

Adds new keys and updates the values of existing keys in target.

Parameters

target	The IDictionary to update.
addHash	The IDictionary containing data to merge into target.

8.24.2.9 static void Extensions.MergeStringKeys (this IDictionary *target,* IDictionary *addHash*) [static]

Merges keys of type string to target Hashtable.

Does not remove keys from target (so non-string keys CAN be in target if they were before).

Parameters

target	The target IDicitionary passed in plus all string-typed keys from the addHash.
addHash	A IDictionary that should be merged partly into target to update it.

8.24.2.10 static void Extensions.StripKeysWithNullValues (this IDictionary *original*) [static]

This removes all key-value pairs that have a null-reference as value.

Photon properties are removed by setting their value to null. Changes the original passed IDictionary!

Parameters

original	The IDictionary to strip of keys with null-values.

8.24.2.11 static Hashtable Extensions.StripToStringKeys (this IDictionary *original*) [static]

This method copies all string-typed keys of the original into a new Hashtable.

Does not recurse (!) into hashes that might be values in the root-hash. This does not modify the original.

Parameters

original	The original IDictonary to get string-typed keys from.

Returns

New Hashtable containing only string-typed keys of the original.

8.24.2.12 static string Extensions.ToStringFull (this IDictionary *origin*) [static]

Returns a string-representation of the IDictionary's content, inlcuding type-information.

Note: This might turn out a "heavy-duty" call if used frequently but it's usfuly to debug Dictionary or Hashtable content.

Parameters

origin	Some Dictionary or Hashtable.

Returns

String of the content of the IDictionary.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Extensions.cs

8.25 FriendInfo Class Reference

Used to store info about a friend's online state and in which room he/she is.

Public Member Functions

- override string ToString ()

Properties

- string Name `[get, protected set]`
- bool IsOnline `[get, protected set]`
- string Room `[get, protected set]`
- bool IsInRoom `[get]`

8.25.1 Detailed Description

Used to store info about a friend's online state and in which room he/she is.

8.25.2 Member Function Documentation

8.25.2.1 override string FriendInfo.ToString ( )

8.25.3 Property Documentation

8.25.3.1 bool FriendInfo.IsInRoom `[get]`

8.25.3.2 bool FriendInfo.IsOnline `[get]`, `[protected set]`

8.25.3.3 string FriendInfo.Name `[get]`, `[protected set]`

8.25.3.4 string FriendInfo.Room `[get]`, `[protected set]`

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/FriendInfo.cs

8.26 GameObjectExtensions Class Reference

Small number of extension methods that make it easier for PUN to work cross-Unity-versions.

Static Public Member Functions

- static bool GetActive (this GameObject target)

  Unity-version-independent replacement for active GO property.

8.26.1 Detailed Description

Small number of extension methods that make it easier for PUN to work cross-Unity-versions.

8.26.2 Member Function Documentation

8.26.2.1 static bool GameObjectExtensions.GetActive (this GameObject *target*) [static]

Unity-version-independent replacement for active GO property.

Returns

Unity 3.5: active. Any newer Unity: activeInHierarchy.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Extensions.cs

8.27 ExitGames.Client.Photon.GamePropertyKey Class Reference

Class for constants.

Public Attributes

- const byte MaxPlayers = 255

  (255) Max number of players that "fit" into this room. 0 is for "unlimited".
- const byte IsVisible = 254

  (254) Makes this room listed or not in the lobby on master.
- const byte IsOpen = 253

  (253) Allows more players to join a room (or not).
- const byte PlayerCount = 252

  (252) Current count of players in the room. Used only in the lobby on master.
- const byte Removed = 251

  (251) True if the room is to be removed from room listing (used in update to room list in lobby on master)
- const byte PropsListedInLobby = 250

  (250) A list of the room properties to pass to the RoomInfo list in a lobby. This is used in CreateRoom, which defines this list once per room.
- const byte CleanupCacheOnLeave = 249

  (249) Equivalent of Operation Join parameter CleanupCacheOnLeave.
- const byte MasterClientId = (byte)248

  (248) Code for MasterClientId, which is synced by server.

8.27.1 Detailed Description

Class for constants.

These (byte) values are for "well known" room/game properties used in Photon Loadbalancing. Pun uses these constants internally.

"Custom properties" have to use a string-type as key. They can be assigned at will.

8.27.2 Member Data Documentation

8.27.2.1 const byte ExitGames.Client.Photon.GamePropertyKey.CleanupCacheOnLeave = 249

(249) Equivalent of Operation Join parameter CleanupCacheOnLeave.

8.27.2.2 const byte ExitGames.Client.Photon.GamePropertyKey.IsOpen = 253

(253) Allows more players to join a room (or not).

8.27.2.3 const byte ExitGames.Client.Photon.GamePropertyKey.IsVisible = 254

(254) Makes this room listed or not in the lobby on master.

8.27.2.4 const byte ExitGames.Client.Photon.GamePropertyKey.MasterClientId = (byte)248

(248) Code for MasterClientId, which is synced by server.

When sent as op-parameter this is (byte)203. As room property this is (byte)248.

Tightly related to ParameterCode.MasterClientId.

8.27.2.5 const byte ExitGames.Client.Photon.GamePropertyKey.MaxPlayers = 255

(255) Max number of players that "fit" into this room. 0 is for "unlimited".

8.27.2.6 const byte ExitGames.Client.Photon.GamePropertyKey.PlayerCount = 252

(252) Current count of players in the room. Used only in the lobby on master.

8.27.2.7 const byte ExitGames.Client.Photon.GamePropertyKey.PropsListedInLobby = 250

(250) A list of the room properties to pass to the RoomInfo list in a lobby. This is used in CreateRoom, which defines this list once per room.

8.27.2.8 const byte ExitGames.Client.Photon.GamePropertyKey.Removed = 251

(251) True if the room is to be removed from room listing (used in update to room list in lobby on master)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.28 ExitGames.Client.GUI.GizmoTypeDrawer Class Reference

Static Public Member Functions

- static void Draw (Vector3 center, GizmoType type, Color color, float size)

8.28.1 Member Function Documentation

8.28.1.1 static void ExitGames.Client.GUI.GizmoTypeDrawer.Draw (Vector3 *center,* GizmoType *type,* Color *color,* float *size*) [static]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/GizmoType.cs

8.29 HelpURL Class Reference

Empty implementation of the upcoming HelpURL of Unity 5.1.

Inherits Attribute.

Public Member Functions

- HelpURL (string url)

8.29.1 Detailed Description

Empty implementation of the upcoming HelpURL of Unity 5.1.

This one is only for compatibility of attributes.

http://feedback.unity3d.com/suggestions/override-component-documentation-slash-help-link

8.29.2 Constructor & Destructor Documentation

8.29.2.1 HelpURL.HelpURL (string *url*)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.30 HighlightOwnedGameObj Class Reference

Inherits Photon.MonoBehaviour.

Public Attributes

- GameObject PointerPrefab
- float Offset = 1.5f

Additional Inherited Members

8.30.1 Member Data Documentation

8.30.1.1 float HighlightOwnedGameObj.Offset = 1.5f

8.30.1.2 GameObject HighlightOwnedGameObj.PointerPrefab

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/HighlightOwnedGameObj.cs

8.31 ExitGames.Client.Photon.Chat.IChatClientListener Interface Reference

Callback interface for Chat client side.

Public Member Functions

- void DebugReturn (DebugLevel level, string message)

  All debug output of the library will be reported through this method.
- void OnDisconnected ()

  Disconnection happened.
- void OnConnected ()

  Client is connected now.
- void OnChatStateChange (ChatState state)

  The ChatClient's state changed.
- void OnGetMessages (string channelName, string[ ] senders, object[ ] messages)

  Notifies app that client got new messages from server Number of senders is equal to number of messages in 'messages'.
- void OnPrivateMessage (string sender, object message, string channelName)

  Notifies client about private message
- void OnSubscribed (string[ ] channels, bool[ ] results)

  Result of Subscribe operation.
- void OnUnsubscribed (string[ ] channels)

  Result of Unsubscribe operation.
- void OnStatusUpdate (string user, int status, bool gotMessage, object message)

  New status of another user (you get updates for users set in your friends list).

8.31.1 Detailed Description

Callback interface for Chat client side.

Contains callback methods to notify your app about updates. Must be provided to new ChatClient in constructor

8.31.2 Member Function Documentation

8.31.2.1 void ExitGames.Client.Photon.Chat.IChatClientListener.DebugReturn (DebugLevel *level*, string *message*)

All debug output of the library will be reported through this method.

Print it or put it in a buffer to use it on-screen.

Parameters

level	DebugLevel (severity) of the message.
message	Debug text. Print to System.Console or screen.

8.31.2.2 void ExitGames.Client.Photon.Chat.IChatClientListener.OnChatStateChange (ChatState *state*)

The ChatClient's state changed.

Usually, OnConnected and OnDisconnected are the callbacks to react to.

Parameters

state	The new state.

8.31.2.3 void ExitGames.Client.Photon.Chat.IChatClientListener.OnConnected ( )

Client is connected now.

Clients have to be connected before they can send their state, subscribe to channels and send any messages.

8.31.2.4 void ExitGames.Client.Photon.Chat.IChatClientListener.OnDisconnected ( )

Disconnection happened.

8.31.2.5 void ExitGames.Client.Photon.Chat.IChatClientListener.OnGetMessages (string *channelName,* string[ ] *senders,* object[ ] *messages*)

Notifies app that client got new messages from server Number of senders is equal to number of messages in 'messages'.

Sender with number '0' corresponds to message with number '0', sender with number '1' corresponds to message with number '1' and so on

Parameters

channelName	channel from where messages came
senders	list of users who sent messages
messages	list of messages it self

8.31.2.6 void ExitGames.Client.Photon.Chat.IChatClientListener.OnPrivateMessage (string *sender,* object *message,* string *channelName*)

Notifies client about private message

Parameters

sender	user who sent this message
message	message it self
channelName	channelName for private messages (messages you sent yourself get added to a channel per target username)

8.31.2.7 void ExitGames.Client.Photon.Chat.IChatClientListener.OnStatusUpdate (string *user,* int *status,* bool *gotMessage,* object *message*)

New status of another user (you get updates for users set in your friends list).

Parameters

user	Name of the user.
status	New status of that user.
gotMessage	True if the status contains a message you should cache locally. False: This status update does not include a message (keep any you have).
message	Message that user set.

8.31.2.8 void ExitGames.Client.Photon.Chat.IChatClientListener.OnSubscribed (string[ ] *channels,* bool[ ] *results*)

Result of Subscribe operation.

Returns per channelname if the channel is now subscribed.

Parameters

channels	Array of channel names.
results	Per channel result if subscribed.

8.31.2.9 void ExitGames.Client.Photon.Chat.IChatClientListener.OnUnsubscribed (string[ ] *channels*)

Result of Unsubscribe operation.

Returns per channelname if the channel is now unsubscribed.

Parameters

channels	Array of channel names that are no longer subscribed.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/IChatClientListener.cs

8.32 InputToEvent Class Reference

Utility component to forward mouse or touch input to clicked gameobjects.

Inherits MonoBehaviour.

Public Attributes

- bool DetectPointedAtGameObject
- bool Dragging

Static Public Attributes

- static Vector3 inputHitPos

Properties

- static GameObject goPointedAt [get]
- Vector2 DragVector [get]

8.32.1 Detailed Description

Utility component to forward mouse or touch input to clicked gameobjects.

Calls OnPress, OnClick and OnRelease methods on "first" game object.

8.32.2 Member Data Documentation

8.32.2.1 bool InputToEvent.DetectPointedAtGameObject

8.32.2.2 bool InputToEvent.Dragging

8.32.2.3 Vector3 InputToEvent.inputHitPos [static]

8.32.3 Property Documentation

8.32.3.1 Vector2 InputToEvent.DragVector [get]

8.32.3.2 GameObject InputToEvent.goPointedAt [static], [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/InputToEvent.cs

8.33 InRoomChat Class Reference

Inherits Photon.MonoBehaviour.

Public Member Functions

- void Start ()
- void OnGUI ()
- void Chat (string newLine, PhotonMessageInfo mi)
- void AddLine (string newLine)

Public Attributes

- Rect GuiRect = new Rect(0,0, 250,300)
- bool IsVisible = true
- bool AlignBottom = false
- List< string > messages = new List<string>()

Static Public Attributes

- static readonly string ChatRPC = "Chat"

Additional Inherited Members

8.33.1 Member Function Documentation

8.33.1.1 void InRoomChat.AddLine (string *newLine*)

8.33.1.2 void InRoomChat.Chat (string *newLine,* PhotonMessageInfo *mi*)

8.33.1.3 void InRoomChat.OnGUI ( )

8.33.1.4 void InRoomChat.Start ( )

8.33.2 Member Data Documentation

8.33.2.1 bool InRoomChat.AlignBottom = false

8.33.2.2 readonly string InRoomChat.ChatRPC = "Chat" [static]

8.33.2.3 Rect InRoomChat.GuiRect = new Rect(0,0, 250,300)

8.33.2.4 bool InRoomChat.IsVisible = true

8.33.2.5 List<string> InRoomChat.messages = new List<string>()

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/InRoomChat.cs

8.34 InRoomRoundTimer Class Reference

Simple script that uses a property to sync a start time for a multiplayer game.

Inherits MonoBehaviour.

Public Member Functions

- void OnJoinedRoom ()

  Called by PUN when this client entered a room (no matter if joined or created).
- void OnPhotonCustomRoomPropertiesChanged (Hashtable propertiesThatChanged)

  Called by PUN when new properties for the room were set (by any client in the room).
- void OnMasterClientSwitched (PhotonPlayer newMasterClient)
- void OnGUI ()

Public Attributes

- int SecondsPerTurn = 5
- double StartTime
- Rect TextPos = new Rect(0,80,150,300)

8.34.1 Detailed Description

Simple script that uses a property to sync a start time for a multiplayer game.

When entering a room, the first player will store the synchronized timestamp. You can't set the room's synchronized time in CreateRoom, because the clock on the Master Server and those on the Game Servers are not in sync. We use many servers and each has it's own timer.

Everyone else will join the room and check the property to calculate how much time passed since start. You can start a new round whenever you like.

Based on this, you should be able to implement a synchronized timer for turns between players.

8.34.2 Member Function Documentation

8.34.2.1 void InRoomRoundTimer.OnGUI ( )

8.34.2.2 void InRoomRoundTimer.OnJoinedRoom ( )

Called by PUN when this client entered a room (no matter if joined or created).

8.34.2.3 void InRoomRoundTimer.OnMasterClientSwitched (PhotonPlayer *newMasterClient*)

In theory, the client which created the room might crash/close before it sets the start time. Just to make extremely sure this never happens, a new masterClient will check if it has to start a new round.

8.34.2.4 void InRoomRoundTimer.OnPhotonCustomRoomPropertiesChanged (Hashtable *propertiesThatChanged*)

Called by PUN when new properties for the room were set (by any client in the room).

8.34.3 Member Data Documentation

8.34.3.1 int InRoomRoundTimer.SecondsPerTurn = 5

8.34.3.2 double InRoomRoundTimer.StartTime

8.34.3.3 Rect InRoomRoundTimer.TextPos = new Rect(0,80,150,300)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/InRoomRoundTimer.cs

8.35 IPunCallbacks Interface Reference

This interface is used as definition of all callback methods of PUN, except OnPhotonSerializeView.

Inherited by Photon.PunBehaviour.

Public Member Functions

- void OnConnectedToPhoton ()

  Called when the initial connection got established but before you can use the server.
- void OnLeftRoom ()

  Called when the local user/client left a room.
- void OnMasterClientSwitched (PhotonPlayer newMasterClient)

  Called after switching to a new MasterClient when the current one leaves.
- void OnPhotonCreateRoomFailed (object[] codeAndMsg)

  Called when a CreateRoom() call failed.
- void OnPhotonJoinRoomFailed (object[] codeAndMsg)

  Called when a JoinRoom() call failed.
- void OnCreatedRoom ()

  Called when this client created a room and entered it.
- void OnJoinedLobby ()

  Called on entering a lobby on the Master Server.
- void OnLeftLobby ()

  Called after leaving a lobby.
- void OnFailedToConnectToPhoton (DisconnectCause cause)

  Called if a connect call to the Photon server failed before the connection was established, followed by a call to OnDisconnectedFromPhoton().
- void OnConnectionFail (DisconnectCause cause)

  Called when something causes the connection to fail (after it was established), followed by a call to OnDisconnectedFromPhoton().
- void OnDisconnectedFromPhoton ()

  Called after disconnecting from the Photon server.
- void OnPhotonInstantiate (PhotonMessageInfo info)

  Called on all scripts on a GameObject (and children) that have been Instantiated using PhotonNetwork.Instantiate.
- void OnReceivedRoomListUpdate ()

Called for any update of the room-listing while in a lobby (PhotonNetwork.insideLobby) on the Master Server.

- void OnJoinedRoom ()

  Called when entering a room (by creating or joining it).

- void OnPhotonPlayerConnected (PhotonPlayer newPlayer)

  Called when a remote player entered the room.

- void OnPhotonPlayerDisconnected (PhotonPlayer otherPlayer)

  Called when a remote player left the room.

- void OnPhotonRandomJoinFailed (object[] codeAndMsg)

  Called when a JoinRandom() call failed.

- void OnConnectedToMaster ()

  Called after the connection to the master is established and authenticated but only when PhotonNetwork.autoJoinLobby is false.

- void OnPhotonMaxCccuReached ()

  Because the concurrent user limit was (temporarily) reached, this client is rejected by the server and disconnecting.

- void OnPhotonCustomRoomPropertiesChanged (Hashtable propertiesThatChanged)

  Called when a room's custom properties changed.

- void OnPhotonPlayerPropertiesChanged (object[] playerAndUpdatedProps)

  Called when custom player-properties are changed.

- void OnUpdatedFriendList ()

  Called when the server sent the response to a FindFriends request and updated PhotonNetwork.Friends.

- void OnCustomAuthenticationFailed (string debugMessage)

  Called when the custom authentication failed.

- void OnWebRpcResponse (OperationResponse response)

  Called by PUN when the response to a WebRPC is available.

- void OnOwnershipRequest (object[] viewAndPlayer)

  Called when another player requests ownership of a PhotonView from you (the current owner).

- void OnLobbyStatisticsUpdate ()

  Called when the Master Server sent an update for the Lobby Statistics, updating PhotonNetwork.LobbyStatistics.

8.35.1 Detailed Description

This interface is used as definition of all callback methods of PUN, except OnPhotonSerializeView.

Preferably, implement them individually.

This interface is available for completeness, more than for actually implementing it in a game. You can implement each method individually in any MonoMehaviour, without implementing IPunCallbacks.

PUN calls all callbacks by name. Don't use implement callbacks with fully qualified name. Example: IPunCallbacks.OnConnectedToPhoton won't get called by Unity's SendMessage().

PUN will call these methods on any script that implements them, analog to Unity's events and callbacks. The situation that triggers the call is described per method.

OnPhotonSerializeView is NOT called like these callbacks! It's usage frequency is much higher and it is implemented in: IPunObservable.

8.35.2 Member Function Documentation

8.35.2.1 void IPunCallbacks.OnConnectedToMaster ( )

Called after the connection to the master is established and authenticated but only when PhotonNetwork.autoJoinLobby is false.

If you set PhotonNetwork.autoJoinLobby to true, OnJoinedLobby() will be called instead of this.

You can join rooms and create them even without being in a lobby. The default lobby is used in that case. The list of available rooms won't become available unless you join a lobby via PhotonNetwork.joinLobby.

Implemented in Photon.PunBehaviour.

8.35.2.2 void IPunCallbacks.OnConnectedToPhoton ( )

Called when the initial connection got established but before you can use the server.

OnJoinedLobby() or OnConnectedToMaster() are called when PUN is ready.

This callback is only useful to detect if the server can be reached at all (technically). Most often, it's enough to implement OnFailedToConnectToPhoton() and OnDisconnectedFromPhoton().

OnJoinedLobby() or OnConnectedToMaster() are called when PUN is ready.

When this is called, the low level connection is established and PUN will send your AppId, the user, etc in the background. This is not called for transitions from the masterserver to game servers.

Implemented in Photon.PunBehaviour.

8.35.2.3 void IPunCallbacks.OnConnectionFail (DisconnectCause *cause*)

Called when something causes the connection to fail (after it was established), followed by a call to OnDisconnectedFromPhoton().

If the server could not be reached in the first place, OnFailedToConnectToPhoton is called instead. The reason for the error is provided as DisconnectCause.

Implemented in Photon.PunBehaviour.

8.35.2.4 void IPunCallbacks.OnCreatedRoom ( )

Called when this client created a room and entered it.

OnJoinedRoom() will be called as well.

This callback is only called on the client which created a room (see PhotonNetwork.CreateRoom).

As any client might close (or drop connection) anytime, there is a chance that the creator of a room does not execute OnCreatedRoom.

If you need specific room properties or a "start signal", it is safer to implement OnMasterClientSwitched() and to make the new MasterClient check the room's state.

Implemented in Photon.PunBehaviour.

8.35.2.5 void IPunCallbacks.OnCustomAuthenticationFailed (string *debugMessage*)

Called when the custom authentication failed.

Followed by disconnect!

Custom Authentication can fail due to user-input, bad tokens/secrets. If authentication is successful, this method is not called. Implement OnJoinedLobby() or OnConnectedToMaster() (as usual).

During development of a game, it might also fail due to wrong configuration on the server side. In those cases, logging the debugMessage is very important.

Unless you setup a custom authentication service for your app (in the `Dashboard`), this won't be called!

Parameters

debugMessage	Contains a debug message why authentication failed. This has to be fixed during development time.

Implemented in Photon.PunBehaviour.

8.35.2.6 void IPunCallbacks.OnDisconnectedFromPhoton ( )

Called after disconnecting from the Photon server.

In some cases, other callbacks are called before OnDisconnectedFromPhoton is called. Examples: OnConnectionFail() and OnFailedToConnectToPhoton().

Implemented in Photon.PunBehaviour.

8.35.2.7 void IPunCallbacks.OnFailedToConnectToPhoton (DisconnectCause *cause*)

Called if a connect call to the Photon server failed before the connection was established, followed by a call to OnDisconnectedFromPhoton().

This is called when no connection could be established at all. It differs from OnConnectionFail, which is called when an existing connection fails.

Implemented in Photon.PunBehaviour.

8.35.2.8 void IPunCallbacks.OnJoinedLobby ( )

Called on entering a lobby on the Master Server.

The actual room-list updates will call OnReceivedRoomListUpdate().

Note: When PhotonNetwork.autoJoinLobby is false, OnConnectedToMaster() will be called and the room list won't become available.

While in the lobby, the roomlist is automatically updated in fixed intervals (which you can't modify). The room list gets available when OnReceivedRoomListUpdate() gets called after OnJoinedLobby().

Implemented in Photon.PunBehaviour.

8.35.2.9 void IPunCallbacks.OnJoinedRoom ( )

Called when entering a room (by creating or joining it).

Called on all clients (including the Master Client).

This method is commonly used to instantiate player characters. If a match has to be started "actively", you can call an PunRPC triggered by a user's button-press or a timer.

When this is called, you can usually already access the existing players in the room via PhotonNetwork.playerList. Also, all custom properties should be already available as Room.customProperties. Check Room.playerCount to find out if enough players are in the room to start playing.

Implemented in Photon.PunBehaviour.

8.35.2.10 void IPunCallbacks.OnLeftLobby ( )

Called after leaving a lobby.

When you leave a lobby, CreateRoom and JoinRandomRoom automatically refer to the default lobby.

Implemented in Photon.PunBehaviour.

8.35.2.11 void IPunCallbacks.OnLeftRoom ( )

Called when the local user/client left a room.

When leaving a room, PUN brings you back to the Master Server. Before you can use lobbies and join or create rooms, OnJoinedLobby() or OnConnectedToMaster() will get called again.

Implemented in Photon.PunBehaviour.

8.35.2.12 void IPunCallbacks.OnLobbyStatisticsUpdate ( )

Called when the Master Server sent an update for the Lobby Statistics, updating PhotonNetwork.LobbyStatistics.

This callback has two preconditions: EnableLobbyStatistics must be set to true, before this client connects. And the client has to be connected to the Master Server, which is providing the info about lobbies.

Implemented in Photon.PunBehaviour.

8.35.2.13 void IPunCallbacks.OnMasterClientSwitched (PhotonPlayer *newMasterClient*)

Called after switching to a new MasterClient when the current one leaves.

This is not called when this client enters a room. The former MasterClient is still in the player list when this method get called.

Implemented in Photon.PunBehaviour.

8.35.2.14 void IPunCallbacks.OnOwnershipRequest (object[ ] *viewAndPlayer*)

Called when another player requests ownership of a PhotonView from you (the current owner).

The parameter viewAndPlayer contains:

PhotonView view = viewAndPlayer[0] as PhotonView;

PhotonPlayer requestingPlayer = viewAndPlayer[1] as PhotonPlayer;

Parameters

viewAndPlayer	The PhotonView is viewAndPlayer[0] and the requesting player is viewAndPlayer[1].

Implemented in Photon.PunBehaviour.

8.35.2.15 void IPunCallbacks.OnPhotonCreateRoomFailed (object[ ] *codeAndMsg*)

Called when a CreateRoom() call failed.

The parameter provides ErrorCode and message (as array).

Most likely because the room name is already in use (some other client was faster than you). PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Parameters

codeAndMsg	codeAndMsg[0] is short ErrorCode and codeAndMsg[1] is a string debug msg.

Implemented in Photon.PunBehaviour.

8.35.2.16 void IPunCallbacks.OnPhotonCustomRoomPropertiesChanged (Hashtable *propertiesThatChanged*)

Called when a room's custom properties changed.

The propertiesThatChanged contains all that was set via Room.SetCustomProperties.

Since v1.25 this method has one parameter: Hashtable propertiesThatChanged.
Changing properties must be done by Room.SetCustomProperties, which causes this callback locally, too.

Parameters

propertiesThatChanged	

Implemented in Photon.PunBehaviour.

8.35.2.17 void IPunCallbacks.OnPhotonInstantiate (PhotonMessageInfo *info*)

Called on all scripts on a GameObject (and children) that have been Instantiated using PhotonNetwork.Instantiate.

PhotonMessageInfo parameter provides info about who created the object and when (based off PhotonNetworking.time).

Implemented in Photon.PunBehaviour.

8.35.2.18 void IPunCallbacks.OnPhotonJoinRoomFailed (object[ ] *codeAndMsg*)

Called when a JoinRoom() call failed.

The parameter provides ErrorCode and message (as array).

Most likely error is that the room does not exist or the room is full (some other client was faster than you). PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Parameters

codeAndMsg	codeAndMsg[0] is short ErrorCode and codeAndMsg[1] is string debug msg.

Implemented in Photon.PunBehaviour.

8.35.2.19 void IPunCallbacks.OnPhotonMaxCccuReached ( )

Because the concurrent user limit was (temporarily) reached, this client is rejected by the server and disconnecting.

When this happens, the user might try again later. You can't create or join rooms in OnPhotonMaxCcuReached(), cause the client will be disconnecting. You can raise the CCU limits with a new license (when you host yourself) or extended subscription (when using the Photon Cloud). The Photon Cloud will mail you when the CCU limit was reached. This is also visible in the Dashboard (webpage).

Implemented in Photon.PunBehaviour.

8.35.2.20 void IPunCallbacks.OnPhotonPlayerConnected (PhotonPlayer *newPlayer*)

Called when a remote player entered the room.

This PhotonPlayer is already added to the playerlist at this time.

If your game starts with a certain number of players, this callback can be useful to check the Room.playerCount and find out if you can start.

Implemented in Photon.PunBehaviour.

8.35.2.21 void IPunCallbacks.OnPhotonPlayerDisconnected (PhotonPlayer *otherPlayer*)

Called when a remote player left the room.

This PhotonPlayer is already removed from the playerlist at this time.

When your client calls PhotonNetwork.leaveRoom, PUN will call this method on the remaining clients. When a remote client drops connection or gets closed, this callback gets executed. after a timeout of several seconds.

Implemented in Photon.PunBehaviour.

8.35.2.22 void IPunCallbacks.OnPhotonPlayerPropertiesChanged (object[ ] *playerAndUpdatedProps*)

Called when custom player-properties are changed.

Player and the changed properties are passed as object[].

Since v1.25 this method has one parameter: object[] playerAndUpdatedProps, which contains two entries.
[0] is the affected PhotonPlayer.
[1] is the Hashtable of properties that changed.

We are using a object[] due to limitations of Unity's GameObject.SendMessage (which has only one optional parameter).

Changing properties must be done by PhotonPlayer.SetCustomProperties, which causes this callback locally, too.

Example:

```
void OnPhotonPlayerPropertiesChanged(object[] playerAndUpdatedProps) {
    PhotonPlayer player = playerAndUpdatedProps[0] as PhotonPlayer;
    Hashtable props = playerAndUpdatedProps[1] as Hashtable;
    //...
}
```

Parameters

playerAndUpdatedProps	Contains PhotonPlayer and the properties that changed See remarks.

Implemented in Photon.PunBehaviour.

8.35.2.23 void IPunCallbacks.OnPhotonRandomJoinFailed (object[ ] *codeAndMsg*)

Called when a JoinRandom() call failed.

The parameter provides ErrorCode and message.

Most likely all rooms are full or no rooms are available.
When using multiple lobbies (via JoinLobby or TypedLobby), another lobby might have more/fitting rooms.
PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Parameters

codeAndMsg	codeAndMsg[0] is short ErrorCode. codeAndMsg[1] is string debug msg.

Implemented in Photon.PunBehaviour.

8.35.2.24 void IPunCallbacks.OnReceivedRoomListUpdate ( )

Called for any update of the room-listing while in a lobby (PhotonNetwork.insideLobby) on the Master Server.

PUN provides the list of rooms by PhotonNetwork.GetRoomList().
Each item is a RoomInfo which might include custom properties (provided you defined those as lobby-listed when creating a room).

Not all types of lobbies provide a listing of rooms to the client. Some are silent and specialized for server-side matchmaking.

Implemented in Photon.PunBehaviour.

8.35.2.25 void IPunCallbacks.OnUpdatedFriendList ( )

Called when the server sent the response to a FindFriends request and updated PhotonNetwork.Friends.

The friends list is available as PhotonNetwork.Friends, listing name, online state and the room a user is in (if any).

Implemented in Photon.PunBehaviour.

8.35.2.26 void IPunCallbacks.OnWebRpcResponse (OperationResponse *response*)

Called by PUN when the response to a WebRPC is available.

See PhotonNetwork.WebRPC.

Important: The response.ReturnCode is 0 if Photon was able to reach your web-service.
The content of the response is what your web-service sent. You can create a WebRpcResponse from it.
Example: WebRpcResponse webResponse = new WebRpcResponse(operationResponse);

Please note: Class OperationResponse is in a namespace which needs to be "used":
using ExitGames.Client.Photon; // includes OperationResponse (and other classes)

The OperationResponse.ReturnCode by Photon is:

```
 0 for "OK"
-3 for "Web-Service not configured" (see Dashboard / WebHooks)
-5 for "Web-Service does now have RPC path/name" (at least for Azure)
```

Implemented in Photon.PunBehaviour.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.36 IPunObservable Interface Reference

Defines the OnPhotonSerializeView method to make it easy to implement correctly for observable scripts.

Inherited by PhotonTransformView, and PickupItem.

Public Member Functions

- void OnPhotonSerializeView (PhotonStream stream, PhotonMessageInfo info)

  Called by PUN several times per second, so that your script can write and read synchronization data for the Photon View.

8.36.1 Detailed Description

Defines the OnPhotonSerializeView method to make it easy to implement correctly for observable scripts.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.37 IPunPrefabPool Interface Reference

Defines all the methods that a Object Pool must implement, so that PUN can use it.

Public Member Functions

- GameObject Instantiate (string prefabId, Vector3 position, Quaternion rotation)

  This is called when PUN wants to create a new instance of an entity prefab.
- void Destroy (GameObject gameObject)

  This is called when PUN wants to destroy the instance of an entity prefab.

8.37.1 Detailed Description

Defines all the methods that a Object Pool must implement, so that PUN can use it.

To use a Object Pool for instantiation, you can set PhotonNetwork.ObjectPool. That is used for all objects, as long as ObjectPool is not null. The pool has to return a valid non-null GameObject when PUN calls Instantiate. Also, the position and rotation must be applied.

Please note that pooled GameObjects don't get the usual Awake and Start calls. OnEnable will be called (by your pool) but the networking values are not updated yet when that happens. OnEnable will have outdated values for PhotonView (isMine, etc.). You might have to adjust scripts.

PUN will call OnPhotonInstantiate (see IPunCallbacks). This should be used to setup the re-used object with regards to networking values / ownership.

8.37.2 Member Function Documentation

8.37.2.1 void IPunPrefabPool.Destroy (GameObject *gameObject*)

This is called when PUN wants to destroy the instance of an entity prefab.

A pool needs some way to find out which type of GameObject got returned via Destroy(). It could be a tag or name or anything similar.

Parameters

gameObject	The instance to destroy.

8.37.2.2 GameObject IPunPrefabPool.Instantiate (string *prefabId*, Vector3 *position*, Quaternion *rotation*)

This is called when PUN wants to create a new instance of an entity prefab.

Must return valid GameObject with PhotonView.

Parameters

prefabId	The id of this prefab.
position	The position we want the instance instantiated at.
rotation	The rotation we want the instance to take.

Returns

The newly instantiated object, or null if a prefab with *prefabId* was not found.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.38 ManualPhotonViewAllocator Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void AllocateManualPhotonView ()
- void InstantiateRpc (int viewID)

Public Attributes

- GameObject Prefab

8.38.1 Member Function Documentation

8.38.1.1 void ManualPhotonViewAllocator.AllocateManualPhotonView ( )

8.38.1.2 void ManualPhotonViewAllocator.InstantiateRpc (int *viewID*)

8.38.2 Member Data Documentation

8.38.2.1 GameObject ManualPhotonViewAllocator.Prefab

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/ManualPhotonViewAllocator.cs

8.39 MenuScript Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void PlayGame ()
- void Controls ()
- void Credits ()
- void QuitGame ()

8.39.1 Member Function Documentation

8.39.1.1 void MenuScript.Controls ( )

8.39.1.2 void MenuScript.Credits ( )

8.39.1.3 void MenuScript.PlayGame ( )

8.39.1.4 void MenuScript.QuitGame ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/MenuScript.cs

8.40 Photon.MonoBehaviour Class Reference

This class adds the property photonView, while logging a warning when your game still uses the networkView.

Inherits MonoBehaviour.

Inherited by ConnectAndJoinRandom, HighlightOwnedGameObj, InRoomChat, MoveByKeys, OnAwakeUse↩ PhotonView, OnClickDestroy, Photon.PunBehaviour, PhotonConverter, PhotonHandler, PhotonView, PickupItem, PickupItemSimple, PickupItemSyncer, ShowInfoOfPlayer, and SmoothSyncMovement.

Properties

- PhotonView photonView [get]
- new PhotonView networkView [get]

  This property is only here to notify developers when they use the outdated value.

8.40.1 Detailed Description

This class adds the property photonView, while logging a warning when your game still uses the networkView.

8.40.2 Property Documentation

8.40.2.1 new PhotonView Photon.MonoBehaviour.networkView [get]

This property is only here to notify developers when they use the outdated value.

If Unity 5.x logs a compiler warning "Use the new keyword if hiding was intended" or "The new keyword is not required", you may suffer from an Editor issue. Try to modify networkView with a if-def condition:

#if UNITY_EDITOR new #endif public PhotonView networkView

8.40.2.2 PhotonView Photon.MonoBehaviour.photonView [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.41 MoveByKeys Class Reference

Very basic component to move a GameObject by WASD and Space.

Inherits Photon.MonoBehaviour.

Public Member Functions

- void Start ()
- bool IsGrounded ()
- void FixedUpdate ()

Public Attributes

- float thrust = 5000
- float drag = 0.1f
- float JumpTimeout = 0.5f
- int speedBoosts = 99
- int spikes = 99
- Vector3 dir
- Vector3 dirFix
- float rad
- Time disableTime

Additional Inherited Members

8.41.1 Detailed Description

Very basic component to move a GameObject by WASD and Space.

Requires a PhotonView. Disables itself on GameObjects that are not owned on Start.

thrust affects movement-thrust. JumpForce defines how high the object "jumps". JumpTimeout defines after how many seconds you can jump again.

8.41.2 Member Function Documentation

8.41.2.1 void MoveByKeys.FixedUpdate ( )

8.41.2.2 bool MoveByKeys.IsGrounded ( )

8.41.2.3 void MoveByKeys.Start ( )

8.41.3 Member Data Documentation

8.41.3.1 Vector3 MoveByKeys.dir

8.41.3.2 Vector3 MoveByKeys.dirFix

8.41.3.3 Time MoveByKeys.disableTime

8.41.3.4 float MoveByKeys.drag = 0.1f

8.41.3.5 float MoveByKeys.JumpTimeout = 0.5f

8.41.3.6 float MoveByKeys.rad

8.41.3.7 int MoveByKeys.speedBoosts = 99

8.41.3.8 int MoveByKeys.spikes = 99

8.41.3.9 float MoveByKeys.thrust = 5000

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/MoveByKeys.cs

8.42 OnAwakeUsePhotonView Class Reference

Inherits Photon.MonoBehaviour.

Public Member Functions

- void OnAwakeRPC ()
- void OnAwakeRPC (byte myParameter)

Additional Inherited Members

8.42.1 Member Function Documentation

8.42.1.1 void OnAwakeUsePhotonView.OnAwakeRPC ( )

8.42.1.2 void OnAwakeUsePhotonView.OnAwakeRPC (byte *myParameter*)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnAwakeUsePhotonView.cs

8.43 OnClickDestroy Class Reference

Implements OnClick to destroy the GameObject it's attached to.

Inherits Photon.MonoBehaviour.

Public Member Functions

- void OnClick ()
- IEnumerator DestroyRpc ()

Public Attributes

- bool DestroyByRpc

Additional Inherited Members

8.43.1 Detailed Description

Implements OnClick to destroy the GameObject it's attached to.

Optionally a RPC is sent to do this.

Using an RPC to Destroy a GameObject allows any player to Destroy a GameObject. But it might cause errors. RPC and the Instantiated GameObject are not fully linked on the server. One might stick in the server witout the other.

A buffered RPC gets cleaned up when the sending player leaves the room. This means, the RPC gets lost.

Vice versus, a GameObject Instantiate might get cleaned up when the creating player leaves a room. This way, the GameObject that a RPC targets might become lost.

It makes sense to test those cases. Many are not breaking errors and you just have to be aware of them.

Gets OnClick() calls by InputToEvent class attached to a camera.

8.43.2 Member Function Documentation

8.43.2.1 IEnumerator OnClickDestroy.DestroyRpc ( )

8.43.2.2 void OnClickDestroy.OnClick ( )

8.43.3 Member Data Documentation

8.43.3.1 bool OnClickDestroy.DestroyByRpc

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnClickDestroy.cs

8.44 OnClickInstantiate Class Reference

Inherits MonoBehaviour.

Public Attributes

- GameObject Prefab
- int InstantiateType
- bool showGui

8.44.1 Member Data Documentation

8.44.1.1 int OnClickInstantiate.InstantiateType

8.44.1.2 GameObject OnClickInstantiate.Prefab

8.44.1.3 bool OnClickInstantiate.showGui

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnClickInstantiate.cs

8.45 OnClickLoadSomething Class Reference

This component makes it easy to switch scenes or open webpages on click.

Inherits MonoBehaviour.

Public Types

- enum ResourceTypeOption : byte { ResourceTypeOption.Scene, ResourceTypeOption.Web }

Public Member Functions

- void OnClick ()

Public Attributes

- ResourceTypeOption ResourceTypeToLoad = ResourceTypeOption.Scene
- string ResourceToLoad

8.45.1 Detailed Description

This component makes it easy to switch scenes or open webpages on click.

Requires a InputToEvent component on the camera to forward clicks on screen.

8.45.2 Member Enumeration Documentation

8.45.2.1 enum OnClickLoadSomething.ResourceTypeOption : byte [strong]

Enumerator

Scene

Web

8.45.3 Member Function Documentation

8.45.3.1 void OnClickLoadSomething.OnClick ( )

8.45.4 Member Data Documentation

8.45.4.1 string OnClickLoadSomething.ResourceToLoad

8.45.4.2 ResourceTypeOption OnClickLoadSomething.ResourceTypeToLoad = ResourceTypeOption.Scene

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnClickLoadSomething.cs

8.46 OnJoinedInstantiate Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void OnJoinedRoom ()

Public Attributes

- Transform SpawnPosition
- float PositionOffset = 2.0f
- GameObject[ ] PrefabsToInstantiate
- GameObject PlayerCamera

8.46.1 Member Function Documentation

8.46.1.1 void OnJoinedInstantiate.OnJoinedRoom ( )

8.46.2 Member Data Documentation

8.46.2.1 GameObject OnJoinedInstantiate.PlayerCamera

8.46.2.2 float OnJoinedInstantiate.PositionOffset = 2.0f

8.46.2.3 GameObject [ ] OnJoinedInstantiate.PrefabsToInstantiate

8.46.2.4 Transform OnJoinedInstantiate.SpawnPosition

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnJoinedInstantiate.cs

8.47 OnStartDelete Class Reference

This component will destroy the GameObject it is attached to (in Start()).

Inherits MonoBehaviour.

8.47.1 Detailed Description

This component will destroy the GameObject it is attached to (in Start()).

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnStartDelete.cs

8.48 ExitGames.Client.Photon.OperationCode Class Reference

Class for constants.

Public Attributes

- const byte ExchangeKeysForEncryption = 250
- const byte Join = 255

  (255) Code for OpJoin, to get into a room.
- const byte Authenticate = 230

  (230) Authenticates this peer and connects to a virtual application
- const byte JoinLobby = 229

  (229) Joins lobby (on master)
- const byte LeaveLobby = 228

  (228) Leaves lobby (on master)
- const byte CreateGame = 227

  (227) Creates a game (or fails if name exists)
- const byte JoinGame = 226

  (226) Join game (by name)
- const byte JoinRandomGame = 225

  (225) Joins random game (on master)
- const byte Leave = (byte)254

  (254) Code for OpLeave, to get out of a room.
- const byte RaiseEvent = (byte)253

  (253) Raise event (in a room, for other actors/players)
- const byte SetProperties = (byte)252

  (252) Set Properties (of room or actor/player)
- const byte GetProperties = (byte)251

  (251) Get Properties
- const byte ChangeGroups = (byte)248

  (248) Operation code to change interest groups in Rooms (Lite application and extending ones).
- const byte FindFriends = 222

  (222) Request the rooms and online status for a list of friends (by name, which should be unique).
- const byte GetLobbyStats = 221

  (221) Request statistics about a specific list of lobbies (their user and game count).
- const byte GetRegions = 220

  (220) Get list of regional servers from a NameServer.
- const byte WebRpc = 219

  (219) WebRpc Operation.

8.48.1 Detailed Description

Class for constants.

Contains operation codes. Pun uses these constants internally.

8.48.2 Member Data Documentation

8.48.2.1 const byte ExitGames.Client.Photon.OperationCode.Authenticate = 230

(230) Authenticates this peer and connects to a virtual application

8.48.2.2 const byte ExitGames.Client.Photon.OperationCode.ChangeGroups = (byte)248

(248) Operation code to change interest groups in Rooms (Lite application and extending ones).

8.48.2.3 const byte ExitGames.Client.Photon.OperationCode.CreateGame = 227

(227) Creates a game (or fails if name exists)

8.48.2.4 const byte ExitGames.Client.Photon.OperationCode.ExchangeKeysForEncryption = 250

8.48.2.5 const byte ExitGames.Client.Photon.OperationCode.FindFriends = 222

(222) Request the rooms and online status for a list of friends (by name, which should be unique).

8.48.2.6 const byte ExitGames.Client.Photon.OperationCode.GetLobbyStats = 221

(221) Request statistics about a specific list of lobbies (their user and game count).

8.48.2.7 const byte ExitGames.Client.Photon.OperationCode.GetProperties = (byte)251

(251) Get Properties

8.48.2.8 const byte ExitGames.Client.Photon.OperationCode.GetRegions = 220

(220) Get list of regional servers from a NameServer.

8.48.2.9 const byte ExitGames.Client.Photon.OperationCode.Join = 255

(255) Code for OpJoin, to get into a room.

8.48.2.10 const byte ExitGames.Client.Photon.OperationCode.JoinGame = 226

(226) Join game (by name)

8.48.2.11 const byte ExitGames.Client.Photon.OperationCode.JoinLobby = 229

(229) Joins lobby (on master)

8.48.2.12 const byte ExitGames.Client.Photon.OperationCode.JoinRandomGame = 225

(225) Joins random game (on master)

8.48.2.13 const byte ExitGames.Client.Photon.OperationCode.Leave = (byte)254

(254) Code for OpLeave, to get out of a room.

8.48.2.14 const byte ExitGames.Client.Photon.OperationCode.LeaveLobby = 228

(228) Leaves lobby (on master)

8.48.2.15 const byte ExitGames.Client.Photon.OperationCode.RaiseEvent = (byte)253

(253) Raise event (in a room, for other actors/players)

8.48.2.16 const byte ExitGames.Client.Photon.OperationCode.SetProperties = (byte)252

(252) Set Properties (of room or actor/player)

8.48.2.17 const byte ExitGames.Client.Photon.OperationCode.WebRpc = 219

(219) WebRpc Operation.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/Photon↩ Network/LoadbalancingPeer.cs

8.49 ExitGames.Client.Photon.LoadbalancingPeer.OpJoinRandomRoomParams Class Reference

Public Attributes

- Hashtable ExpectedCustomRoomProperties
- byte ExpectedMaxPlayers
- MatchmakingMode MatchingType
- TypedLobby TypedLobby
- string SqlLobbyFilter

8.49.1 Member Data Documentation

8.49.1.1 Hashtable ExitGames.Client.Photon.LoadbalancingPeer.OpJoinRandomRoomParams.ExpectedCustomRoomProperties

8.49.1.2 byte ExitGames.Client.Photon.LoadbalancingPeer.OpJoinRandomRoomParams.ExpectedMaxPlayers

8.49.1.3 MatchmakingMode ExitGames.Client.Photon.LoadbalancingPeer.OpJoinRandomRoomParams.MatchingType

8.49.1.4 string ExitGames.Client.Photon.LoadbalancingPeer.OpJoinRandomRoomParams.SqlLobbyFilter

8.49.1.5 TypedLobby ExitGames.Client.Photon.LoadbalancingPeer.OpJoinRandomRoomParams.TypedLobby

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.50 ExitGames.Client.Photon.ParameterCode Class Reference

Class for constants.

Public Attributes

- const byte SuppressRoomEvents = 237

  (237) A bool parameter for creating games. If set to true, no room events are sent to the clients on join and leave. Default: false (and not sent).
- const byte EmptyRoomTTL = 236

  (236) Time To Live (TTL) for a room when the last player leaves. Keeps room in memory for case a player re-joins soon. In milliseconds.
- const byte PlayerTTL = 235

  (235) Time To Live (TTL) for an 'actor' in a room. If a client disconnects, this actor is inactive first and removed after this timeout. In milliseconds.
- const byte EventForward = 234

  (234) Optional parameter of OpRaiseEvent to forward the event to some web-service.

- const byte IsComingBack = (byte)233

  (233) Optional parameter of OpLeave in async games. If false, the player does abandons the game (forever). By default players become inactive and can re-join.
- const byte IsInactive = (byte)233

  (233) Used in EvLeave to describe if a user is inactive (and might come back) or not. In async / Turnbased games, inactive is default.
- const byte CheckUserOnJoin = (byte)232

  (232) Used when creating rooms to define if any userid can join the room only once.
- const byte ExpectedValues = (byte)231

  (231) Code for "Check And Swap" (CAS) when changing properties.
- const byte Address = 230

  (230) Address of a (game) server to use.
- const byte PeerCount = 229

  (229) Count of players in this application in a rooms (used in stats event)
- const byte GameCount = 228

  (228) Count of games in this application (used in stats event)
- const byte MasterPeerCount = 227

  (227) Count of players on the master server (in this app, looking for rooms)
- const byte UserId = 225

  (225) User's ID
- const byte ApplicationId = 224

  (224) Your application's ID: a name on your own Photon or a GUID on the Photon Cloud
- const byte Position = 223

  (223) Not used currently (as "Position"). If you get queued before connect, this is your position
- const byte MatchMakingType = 223

  (223) Modifies the matchmaking algorithm used for OpJoinRandom. Allowed parameter values are defined in enum MatchmakingMode.
- const byte GameList = 222

  (222) List of RoomInfos about open / listed rooms
- const byte Secret = 221

  (221) Internally used to establish encryption
- const byte AppVersion = 220

  (220) Version of your application
- const byte AzureNodeInfo = 210

  (210) Internally used in case of hosting by Azure
- const byte AzureLocalNodeId = 209

  (209) Internally used in case of hosting by Azure
- const byte AzureMasterNodeId = 208

  (208) Internally used in case of hosting by Azure
- const byte RoomName = (byte)255

  (255) Code for the gameId/roomName (a unique name per room). Used in OpJoin and similar.
- const byte Broadcast = (byte)250

  (250) Code for broadcast parameter of OpSetProperties method.
- const byte ActorList = (byte)252

  (252) Code for list of players in a room. Currently not used.
- const byte ActorNr = (byte)254

  (254) Code of the Actor of an operation. Used for property get and set.
- const byte PlayerProperties = (byte)249

  (249) Code for property set (Hashtable).
- const byte CustomEventContent = (byte)245

  (245) Code of data/custom content of an event. Used in OpRaiseEvent.

- const byte Data = (byte)245

  (245) Code of data of an event. Used in OpRaiseEvent.
- const byte Code = (byte)244

  (244) Code used when sending some code-related parameter, like OpRaiseEvent's event-code.
- const byte GameProperties = (byte)248

  (248) Code for property set (Hashtable).
- const byte Properties = (byte)251

  (251) Code for property-set (Hashtable).
- const byte TargetActorNr = (byte)253

  (253) Code of the target Actor of an operation. Used for property set. Is 0 for game
- const byte ReceiverGroup = (byte)246

  (246) Code to select the receivers of events (used in Lite, Operation RaiseEvent).
- const byte Cache = (byte)247

  (247) Code for caching events while raising them.
- const byte CleanupCacheOnLeave = (byte)241

  (241) Bool parameter of CreateGame Operation. If true, server cleans up roomcache of leaving players (their cached events get removed).
- const byte Group = 240

  (240) Code for "group" operation-parameter (as used in Op RaiseEvent).
- const byte Remove = 239

  (239) The "Remove" operation-parameter can be used to remove something from a list. E.g. remove groups from player's interest groups.
- const byte PublishUserId = 239

  (239) Used in Op Join to define if UserIds of the players are broadcast in the room. Useful for FindFriends and reserving slots for expected users.
- const byte Add = 238

  (238) The "Add" operation-parameter can be used to add something to some list or set. E.g. add groups to player's interest groups.
- const byte Info = 218

  (218) Content for EventCode.ErrorInfo and internal debug operations.
- const byte ClientAuthenticationType = 217

  (217) This key's (byte) value defines the target custom authentication type/service the client connects with. Used in OpAuthenticate
- const byte ClientAuthenticationParams = 216

  (216) This key's (string) value provides parameters sent to the custom authentication type/service the client connects with. Used in OpAuthenticate
- const byte JoinMode = 215

  (215) Makes the server create a room if it doesn't exist. OpJoin uses this to always enter a room, unless it exists and is full/closed.
- const byte ClientAuthenticationData = 214

  (214) This key's (string or byte[]) value provides parameters sent to the custom authentication service setup in Photon Dashboard. Used in OpAuthenticate
- const byte MasterClientId = (byte)203

  (203) Code for MasterClientId, which is synced by server.
- const byte FindFriendsRequestList = (byte)1

  (1) Used in Op FindFriends request. Value must be string[] of friends to look up.
- const byte FindFriendsResponseOnlineList = (byte)1

  (1) Used in Op FindFriends response. Contains bool[] list of online states (false if not online).
- const byte FindFriendsResponseRoomIdList = (byte)2

  (2) Used in Op FindFriends response. Contains string[] of room names ("" where not known or no room joined).
- const byte LobbyName = (byte)213

  (213) Used in matchmaking-related methods and when creating a room to name a lobby (to join or to attach a room to).

- const byte LobbyType = (byte)212

  (212) Used in matchmaking-related methods and when creating a room to define the type of a lobby. Combined with the lobby name this identifies the lobby.
- const byte LobbyStats = (byte)211

  (211) This (optional) parameter can be sent in Op Authenticate to turn on Lobby Stats (info about lobby names and their user- and game-counts). See: PhotonNetwork.Lobbies
- const byte Region = (byte)210

  (210) Used for region values in OpAuth and OpGetRegions.
- const byte UriPath = 209

  (209) Path of the WebRPC that got called. Also known as "WebRpc Name". Type: string.
- const byte WebRpcParameters = 208

  (208) Parameters for a WebRPC as: Dictionaryy<string, objecty>. This will get serialized to JSon.
- const byte WebRpcReturnCode = 207

  (207) ReturnCode for the WebRPC, as sent by the web service (not by Photon, which uses ErrorCode). Type: byte.
- const byte WebRpcReturnMessage = 206

  (206) Message returned by WebRPC server. Analog to Photon's debug message. Type: string.
- const byte CacheSliceIndex = 205

  (205) Used to define a "slice" for cached events. Slices can easily be removed from cache. Type: int.
- const byte Plugins = 204

  Informs the server of the expected plugin setup.
- const byte PluginName = 201

  (201) Informs user about name of plugin load to game
- const byte PluginVersion = 200

  (200) Informs user about version of plugin load to game

8.50.1 Detailed Description

Class for constants.

Codes for parameters of Operations and Events. Pun uses these constants internally.

8.50.2 Member Data Documentation

8.50.2.1 const byte ExitGames.Client.Photon.ParameterCode.ActorList = (byte)252

(252) Code for list of players in a room. Currently not used.

8.50.2.2 const byte ExitGames.Client.Photon.ParameterCode.ActorNr = (byte)254

(254) Code of the Actor of an operation. Used for property get and set.

8.50.2.3 const byte ExitGames.Client.Photon.ParameterCode.Add = 238

(238) The "Add" operation-parameter can be used to add something to some list or set. E.g. add groups to player's interest groups.

8.50.2.4 const byte ExitGames.Client.Photon.ParameterCode.Address = 230

(230) Address of a (game) server to use.

8.50.2.5 const byte ExitGames.Client.Photon.ParameterCode.ApplicationId = 224

(224) Your application's ID: a name on your own Photon or a GUID on the Photon Cloud

8.50.2.6 const byte ExitGames.Client.Photon.ParameterCode.AppVersion = 220

(220) Version of your application

8.50.2.7 const byte ExitGames.Client.Photon.ParameterCode.AzureLocalNodeId = 209

(209) Internally used in case of hosting by Azure

8.50.2.8 const byte ExitGames.Client.Photon.ParameterCode.AzureMasterNodeId = 208

(208) Internally used in case of hosting by Azure

8.50.2.9 const byte ExitGames.Client.Photon.ParameterCode.AzureNodeInfo = 210

(210) Internally used in case of hosting by Azure

8.50.2.10 const byte ExitGames.Client.Photon.ParameterCode.Broadcast = (byte)250

(250) Code for broadcast parameter of OpSetProperties method.

8.50.2.11 const byte ExitGames.Client.Photon.ParameterCode.Cache = (byte)247

(247) Code for caching events while raising them.

8.50.2.12 const byte ExitGames.Client.Photon.ParameterCode.CacheSliceIndex = 205

(205) Used to define a "slice" for cached events. Slices can easily be removed from cache. Type: int.

8.50.2.13 const byte ExitGames.Client.Photon.ParameterCode.CheckUserOnJoin = (byte)232

(232) Used when creating rooms to define if any userid can join the room only once.

8.50.2.14 const byte ExitGames.Client.Photon.ParameterCode.CleanupCacheOnLeave = (byte)241

(241) Bool parameter of CreateGame Operation. If true, server cleans up roomcache of leaving players (their cached events get removed).

8.50.2.15 const byte ExitGames.Client.Photon.ParameterCode.ClientAuthenticationData = 214

(214) This key's (string or byte[]) value provides parameters sent to the custom authentication service setup in Photon Dashboard. Used in OpAuthenticate

8.50.2.16 const byte ExitGames.Client.Photon.ParameterCode.ClientAuthenticationParams = 216

(216) This key's (string) value provides parameters sent to the custom authentication type/service the client connects with. Used in OpAuthenticate

8.50.2.17 const byte ExitGames.Client.Photon.ParameterCode.ClientAuthenticationType = 217

(217) This key's (byte) value defines the target custom authentication type/service the client connects with. Used in OpAuthenticate

8.50.2.18 const byte ExitGames.Client.Photon.ParameterCode.Code = (byte)244

(244) Code used when sending some code-related parameter, like OpRaiseEvent's event-code.

This is not the same as the Operation's code, which is no longer sent as part of the parameter Dictionary in Photon 3.

8.50.2.19 const byte ExitGames.Client.Photon.ParameterCode.CustomEventContent = (byte)245

(245) Code of data/custom content of an event. Used in OpRaiseEvent.

8.50.2.20 const byte ExitGames.Client.Photon.ParameterCode.Data = (byte)245

(245) Code of data of an event. Used in OpRaiseEvent.

8.50.2.21 const byte ExitGames.Client.Photon.ParameterCode.EmptyRoomTTL = 236

(236) Time To Live (TTL) for a room when the last player leaves. Keeps room in memory for case a player re-joins soon. In milliseconds.

8.50.2.22 const byte ExitGames.Client.Photon.ParameterCode.EventForward = 234

(234) Optional parameter of OpRaiseEvent to forward the event to some web-service.

8.50.2.23 const byte ExitGames.Client.Photon.ParameterCode.ExpectedValues = (byte)231

(231) Code for "Check And Swap" (CAS) when changing properties.

8.50.2.24 const byte ExitGames.Client.Photon.ParameterCode.FindFriendsRequestList = (byte)1

(1) Used in Op FindFriends request. Value must be string[] of friends to look up.

8.50.2.25 const byte ExitGames.Client.Photon.ParameterCode.FindFriendsResponseOnlineList = (byte)1

(1) Used in Op FindFriends response. Contains bool[] list of online states (false if not online).

8.50.2.26 const byte ExitGames.Client.Photon.ParameterCode.FindFriendsResponseRoomIdList = (byte)2

(2) Used in Op FindFriends response. Contains string[] of room names ("" where not known or no room joined).

8.50.2.27 const byte ExitGames.Client.Photon.ParameterCode.GameCount = 228

(228) Count of games in this application (used in stats event)

8.50.2.28 const byte ExitGames.Client.Photon.ParameterCode.GameList = 222

(222) List of RoomInfos about open / listed rooms

8.50.2.29 const byte ExitGames.Client.Photon.ParameterCode.GameProperties = (byte)248

(248) Code for property set (Hashtable).

8.50.2.30 const byte ExitGames.Client.Photon.ParameterCode.Group = 240

(240) Code for "group" operation-parameter (as used in Op RaiseEvent).

8.50.2.31 const byte ExitGames.Client.Photon.ParameterCode.Info = 218

(218) Content for EventCode.ErrorInfo and internal debug operations.

8.50.2.32 const byte ExitGames.Client.Photon.ParameterCode.IsComingBack = (byte)233

(233) Optional parameter of OpLeave in async games. If false, the player does abandons the game (forever). By default players become inactive and can re-join.

8.50.2.33 const byte ExitGames.Client.Photon.ParameterCode.IsInactive = (byte)233

(233) Used in EvLeave to describe if a user is inactive (and might come back) or not. In async / Turnbased games, inactive is default.

8.50.2.34 const byte ExitGames.Client.Photon.ParameterCode.JoinMode = 215

(215) Makes the server create a room if it doesn't exist. OpJoin uses this to always enter a room, unless it exists and is full/closed.

(215) The JoinMode enum defines which variant of joining a room will be executed: Join only if available, create if not exists or re-join.

Replaces CreateIfNotExists which was only a bool-value.

8.50.2.35 const byte ExitGames.Client.Photon.ParameterCode.LobbyName = (byte)213

(213) Used in matchmaking-related methods and when creating a room to name a lobby (to join or to attach a room to).

8.50.2.36 const byte ExitGames.Client.Photon.ParameterCode.LobbyStats = (byte)211

(211) This (optional) parameter can be sent in Op Authenticate to turn on Lobby Stats (info about lobby names and their user- and game-counts). See: PhotonNetwork.Lobbies

8.50.2.37 const byte ExitGames.Client.Photon.ParameterCode.LobbyType = (byte)212

(212) Used in matchmaking-related methods and when creating a room to define the type of a lobby. Combined with the lobby name this identifies the lobby.

8.50.2.38 const byte ExitGames.Client.Photon.ParameterCode.MasterClientId = (byte)203

(203) Code for MasterClientId, which is synced by server.

When sent as op-parameter this is code 203.

Tightly related to GamePropertyKey.MasterClientId.

8.50.2.39 const byte ExitGames.Client.Photon.ParameterCode.MasterPeerCount = 227

(227) Count of players on the master server (in this app, looking for rooms)

8.50.2.40 const byte ExitGames.Client.Photon.ParameterCode.MatchMakingType = 223

(223) Modifies the matchmaking algorithm used for OpJoinRandom. Allowed parameter values are defined in enum MatchmakingMode.

8.50.2.41 const byte ExitGames.Client.Photon.ParameterCode.PeerCount = 229

(229) Count of players in this application in a rooms (used in stats event)

8.50.2.42 const byte ExitGames.Client.Photon.ParameterCode.PlayerProperties = (byte)249

(249) Code for property set (Hashtable).

8.50.2.43 const byte ExitGames.Client.Photon.ParameterCode.PlayerTTL = 235

(235) Time To Live (TTL) for an 'actor' in a room. If a client disconnects, this actor is inactive first and removed after this timeout. In milliseconds.

8.50.2.44 const byte ExitGames.Client.Photon.ParameterCode.PluginName = 201

(201) Informs user about name of plugin load to game

8.50.2.45 const byte ExitGames.Client.Photon.ParameterCode.Plugins = 204

Informs the server of the expected plugin setup.

The operation will fail in case of a plugin mismatch returning error code PluginMismatch 32751(0x7FFF - 16). Setting string[]{} means the client expects no plugin to be setup. Note: for backwards compatibility null omits any check.

8.50.2.46 const byte ExitGames.Client.Photon.ParameterCode.PluginVersion = 200

(200) Informs user about version of plugin load to game

8.50.2.47 const byte ExitGames.Client.Photon.ParameterCode.Position = 223

(223) Not used currently (as "Position"). If you get queued before connect, this is your position

8.50.2.48 const byte ExitGames.Client.Photon.ParameterCode.Properties = (byte)251

(251) Code for property-set (Hashtable).

This key is used when sending only one set of properties. If either ActorProperties or GameProperties are used (or both), check those keys.

8.50.2.49 const byte ExitGames.Client.Photon.ParameterCode.PublishUserId = 239

(239) Used in Op Join to define if UserIds of the players are broadcast in the room. Useful for FindFriends and reserving slots for expected users.

8.50.2.50 const byte ExitGames.Client.Photon.ParameterCode.ReceiverGroup = (byte)246

(246) Code to select the receivers of events (used in Lite, Operation RaiseEvent).

8.50.2.51 const byte ExitGames.Client.Photon.ParameterCode.Region = (byte)210

(210) Used for region values in OpAuth and OpGetRegions.

8.50.2.52 const byte ExitGames.Client.Photon.ParameterCode.Remove = 239

(239) The "Remove" operation-parameter can be used to remove something from a list. E.g. remove groups from player's interest groups.

8.50.2.53 const byte ExitGames.Client.Photon.ParameterCode.RoomName = (byte)255

(255) Code for the gameId/roomName (a unique name per room). Used in OpJoin and similar.

8.50.2.54 const byte ExitGames.Client.Photon.ParameterCode.Secret = 221

(221) Internally used to establish encryption

8.50.2.55 const byte ExitGames.Client.Photon.ParameterCode.SuppressRoomEvents = 237

(237) A bool parameter for creating games. If set to true, no room events are sent to the clients on join and leave. Default: false (and not sent).

8.50.2.56 const byte ExitGames.Client.Photon.ParameterCode.TargetActorNr = (byte)253

(253) Code of the target Actor of an operation. Used for property set. Is 0 for game

8.50.2.57 const byte ExitGames.Client.Photon.ParameterCode.UriPath = 209

(209) Path of the WebRPC that got called. Also known as "WebRpc Name". Type: string.

8.50.2.58 const byte ExitGames.Client.Photon.ParameterCode.UserId = 225

(225) User's ID

8.50.2.59 const byte ExitGames.Client.Photon.ParameterCode.WebRpcParameters = 208

(208) Parameters for a WebRPC as: Dictionaryy<string, objecty>. This will get serialized to JSon.

8.50.2.60 const byte ExitGames.Client.Photon.ParameterCode.WebRpcReturnCode = 207

(207) ReturnCode for the WebRPC, as sent by the web service (not by Photon, which uses ErrorCode). Type: byte.

8.50.2.61 const byte ExitGames.Client.Photon.ParameterCode.WebRpcReturnMessage = 206

(206) Message returned by WebRPC server. Analog to Photon's debug message. Type: string.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.51 ExitGames.Client.Photon.Chat.ParameterCode Class Reference

Public Attributes

- const byte ApplicationId = 224
- const byte Secret = 221

  (221) Internally used to establish encryption
- const byte AppVersion = 220
- const byte ClientAuthenticationType = 217

  (217) This key's (byte) value defines the target custom authentication type/service the client connects with. Used in OpAuthenticate
- const byte ClientAuthenticationParams = 216

  (216) This key's (string) value provides parameters sent to the custom authentication type/service the client connects with. Used in OpAuthenticate
- const byte ClientAuthenticationData = 214

  (214) This key's (string or byte[]) value provides parameters sent to the custom authentication service setup in Photon Dashboard. Used in OpAuthenticate
- const byte Region = 210

  (210) Used for region values in OpAuth and OpGetRegions.
- const byte Address = 230

  (230) Address of a (game) server to use.
- const byte UserId = 225

  (225) User's ID

8.51.1 Member Data Documentation

8.51.1.1 const byte ExitGames.Client.Photon.Chat.ParameterCode.Address = 230

(230) Address of a (game) server to use.

8.51.1.2 const byte ExitGames.Client.Photon.Chat.ParameterCode.ApplicationId = 224

8.51.1.3 const byte ExitGames.Client.Photon.Chat.ParameterCode.AppVersion = 220

8.51.1.4 const byte ExitGames.Client.Photon.Chat.ParameterCode.ClientAuthenticationData = 214

(214) This key's (string or byte[]) value provides parameters sent to the custom authentication service setup in Photon Dashboard. Used in OpAuthenticate

8.51.1.5 const byte ExitGames.Client.Photon.Chat.ParameterCode.ClientAuthenticationParams = 216

(216) This key's (string) value provides parameters sent to the custom authentication type/service the client connects with. Used in OpAuthenticate

8.51.1.6 const byte ExitGames.Client.Photon.Chat.ParameterCode.ClientAuthenticationType = 217

(217) This key's (byte) value defines the target custom authentication type/service the client connects with. Used in OpAuthenticate

8.51.1.7 const byte ExitGames.Client.Photon.Chat.ParameterCode.Region = 210

(210) Used for region values in OpAuth and OpGetRegions.

8.51.1.8 const byte ExitGames.Client.Photon.Chat.ParameterCode.Secret = 221

(221) Internally used to establish encryption

8.51.1.9 const byte ExitGames.Client.Photon.Chat.ParameterCode.UserId = 225

(225) User's ID

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatPeer.cs

8.52 PhotonAnimatorView Class Reference

This class helps you to synchronize Mecanim animations Simply add the component to your GameObject and make sure that the PhotonAnimatorView is added to the list of observed components

Inherits MonoBehaviour.

Classes

- class SynchronizedLayer
- class SynchronizedParameter

Public Types

- enum ParameterType { ParameterType.Float = 1, ParameterType.Int = 3, ParameterType.Bool = 4, ParameterType.Trigger = 9 }
- enum SynchronizeType { SynchronizeType.Disabled = 0, SynchronizeType.Discrete = 1, SynchronizeType.↩ Continuous = 2 }

Public Member Functions

- bool DoesLayerSynchronizeTypeExist (int layerIndex)

  Check if a specific layer is configured to be synchronize
- bool DoesParameterSynchronizeTypeExist (string name)

  Check if the specified parameter is configured to be synchronized
- List< SynchronizedLayer > GetSynchronizedLayers ()

  Get a list of all synchronized layers
- List< SynchronizedParameter > GetSynchronizedParameters ()

  Get a list of all synchronized parameters
- SynchronizeType GetLayerSynchronizeType (int layerIndex)

  Gets the type how the layer is synchronized
- SynchronizeType GetParameterSynchronizeType (string name)

  Gets the type how the parameter is synchronized
- void SetLayerSynchronized (int layerIndex, SynchronizeType synchronizeType)

  Sets the how a layer should be synchronized
- void SetParameterSynchronized (string name, ParameterType type, SynchronizeType synchronizeType)

  Sets the how a parameter should be synchronized

8.52.1 Detailed Description

This class helps you to synchronize Mecanim animations Simply add the component to your GameObject and make sure that the PhotonAnimatorView is added to the list of observed components

8.52.2 Member Enumeration Documentation

8.52.2.1 enum PhotonAnimatorView.ParameterType [strong]

Enumerator

Float

Int

Bool

Trigger

8.52.2.2 enum PhotonAnimatorView.SynchronizeType [strong]

Enumerator

Disabled

Discrete

Continuous

8.52.3 Member Function Documentation

8.52.3.1 bool PhotonAnimatorView.DoesLayerSynchronizeTypeExist (int *layerIndex*)

Check if a specific layer is configured to be synchronize

Parameters

layerIndex	Index of the layer.

Returns

True if the layer is synchronized

8.52.3.2 bool PhotonAnimatorView.DoesParameterSynchronizeTypeExist (string *name*)

Check if the specified parameter is configured to be synchronized

Parameters

name	The name of the parameter.

Returns

True if the parameter is synchronized

8.52.3.3 SynchronizeType PhotonAnimatorView.GetLayerSynchronizeType (int *layerIndex*)

Gets the type how the layer is synchronized

Parameters

layerIndex	Index of the layer.

Returns

Disabled/Discrete/Continuous

8.52.3.4 SynchronizeType PhotonAnimatorView.GetParameterSynchronizeType (string *name*)

Gets the type how the parameter is synchronized

Parameters

name	The name of the parameter.

Returns

Disabled/Discrete/Continuous

8.52.3.5 List<SynchronizedLayer> PhotonAnimatorView.GetSynchronizedLayers ( )

Get a list of all synchronized layers

Returns

List of SynchronizedLayer objects

8.52.3.6 List<SynchronizedParameter> PhotonAnimatorView.GetSynchronizedParameters ( )

Get a list of all synchronized parameters

Returns

List of SynchronizedParameter objects

8.52.3.7 void PhotonAnimatorView.SetLayerSynchronized (int *layerIndex*, SynchronizeType *synchronizeType*)

Sets the how a layer should be synchronized

Parameters

layerIndex	Index of the layer.
synchronizeType	Disabled/Discrete/Continuous

8.52.3.8 void PhotonAnimatorView.SetParameterSynchronized (string *name*, ParameterType *type*, SynchronizeType *synchronizeType*)

Sets the how a parameter should be synchronized

Parameters

name	The name of the parameter.

Parameters

type	The type of the parameter.
synchronizeType	Disabled/Discrete/Continuous

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonAnimatorView.cs

8.53 PhotonAnimatorViewEditor Class Reference

Inherits Editor.

Public Member Functions

- override void OnInspectorGUI ()

8.53.1 Member Function Documentation

8.53.1.1 override void PhotonAnimatorViewEditor.OnInspectorGUI ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/Views/PhotonAnimatorViewEditor.cs

8.54 PhotonConverter Class Reference

Inherits Photon.MonoBehaviour.

Static Public Member Functions

- static void RunConversion ()
- static void PickFolderAndConvertScripts ()
- static List< string > GetScriptsInFolder (string folder)
- static void ConvertRpcAttribute (string path)

  default path: "Assets"

Additional Inherited Members

8.54.1 Member Function Documentation

8.54.1.1 static void PhotonConverter.ConvertRpcAttribute (string *path*) [static]

default path: "Assets"

8.54.1.2 static List<string> PhotonConverter.GetScriptsInFolder (string *folder*) [static]

8.54.1.3 static void PhotonConverter.PickFolderAndConvertScripts ( ) [static]

8.54.1.4 static void PhotonConverter.RunConversion ( ) [static]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonConverter.cs

8.55 PhotonEditor Class Reference

Inherits EditorWindow.

Public Member Functions

- PhotonEditor ()

Static Public Member Functions

- static void UpdateRpcList ()
- static void ClearRpcList ()
- static System.Type[ ] GetAllSubTypesInScripts (System.Type aBaseClass)

Static Public Attributes

- static PunWizardText CurrentLang = new PunWizardText()

Protected Member Functions

- void Update ()
- virtual void OnGUI ()
- virtual void UiSetupApp ()
- virtual void UiMainWizard ()
- virtual void RegisterWithEmail (string email)

Static Protected Member Functions

- static void MenuItemOpenWizard ()
- static void MenuItemHighlightSettings ()
- static void ShowRegistrationWizard ()

  Creates an Editor window, showing the cloud-registration wizard for Photon (entry point to setup PUN).

Protected Attributes

- Vector2 scrollPos = Vector2.zero

Static Protected Attributes

- static Type WindowType = typeof (PhotonEditor)
- static AccountService.Origin RegisterOrigin = AccountService.Origin.Pun
- static string DocumentationLocation = "Assets/Photon Unity Networking/PhotonNetwork-Documentation.pdf"
- static string UrlFreeLicense = "https://www.photonengine.com/en/OnPremise/Dashboard"
- static string UrlDevNet = "http://doc.photonengine.com/en/pun/current"
- static string UrlForum = "http://forum.exitgames.com"
- static string UrlCompare = "http://doc.photonengine.com/en/realtime/current/getting-started/onpremise-or-saas"
- static string UrlHowToSetup = "http://doc.photonengine.com/en/onpremise/current/getting-started/photon-server-in-5min"
- static string UrlAppIDExplained = "http://doc.photonengine.com/en/realtime/current/getting-started/obtain-your-app-id"
- static string UrlAccountPage = "https://www.photonengine.com/Account/SignIn?email="
- static string UrlCloudDashboard = "https://www.photonengine.com/Dashboard?email="

8.55.1 Constructor & Destructor Documentation

8.55.1.1 PhotonEditor.PhotonEditor ( )

8.55.2 Member Function Documentation

8.55.2.1 static void PhotonEditor.ClearRpcList ( ) [static]

8.55.2.2 static System.Type [ ] PhotonEditor.GetAllSubTypesInScripts (System.Type *aBaseClass*) [static]

8.55.2.3 static void PhotonEditor.MenuItemHighlightSettings ( ) [static], [protected]

8.55.2.4 static void PhotonEditor.MenuItemOpenWizard ( ) [static], [protected]

8.55.2.5 virtual void PhotonEditor.OnGUI ( ) [protected], [virtual]

8.55.2.6 virtual void PhotonEditor.RegisterWithEmail (string *email*) [protected], [virtual]

8.55.2.7 static void PhotonEditor.ShowRegistrationWizard ( ) [static], [protected]

Creates an Editor window, showing the cloud-registration wizard for Photon (entry point to setup PUN).

8.55.2.8 virtual void PhotonEditor.UiMainWizard ( ) [protected], [virtual]

8.55.2.9 virtual void PhotonEditor.UiSetupApp ( ) [protected], [virtual]

8.55.2.10 void PhotonEditor.Update ( ) [protected]

8.55.2.11 static void PhotonEditor.UpdateRpcList ( ) [static]

8.55.3 Member Data Documentation

8.55.3.1 **PunWizardText** PhotonEditor.CurrentLang = new **PunWizardText**() [static]

8.55.3.2 string PhotonEditor.DocumentationLocation = "Assets/Photon Unity Networking/**PhotonNetwork**-Documentation.↩pdf" [static], [protected]

8.55.3.3 **AccountService.Origin** PhotonEditor.RegisterOrigin = **AccountService.Origin.Pun** [static], [protected]

8.55.3.4 Vector2 PhotonEditor.scrollPos = Vector2.zero [protected]

8.55.3.5 string PhotonEditor.UrlAccountPage = "https://www.photonengine.com/Account/SignIn?email=" [static], [protected]

8.55.3.6 string PhotonEditor.UrlAppIDExplained = "http://doc.photonengine.com/en/realtime/current/getting-started/obtain-your-app-id" [static], [protected]

8.55.3.7 string PhotonEditor.UrlCloudDashboard = "https://www.photonengine.com/Dashboard?email=" [static], [protected]

8.55.3.8 string PhotonEditor.UrlCompare = "http://doc.photonengine.com/en/realtime/current/getting-started/onpremise-or-saas" [static], [protected]

8.55.3.9 string PhotonEditor.UrlDevNet = "http://doc.photonengine.com/en/pun/current" [static], [protected]

8.55.3.10 string PhotonEditor.UrlForum = "http://forum.exitgames.com" [static], [protected]

8.55.3.11 string PhotonEditor.UrlFreeLicense = "https://www.photonengine.com/en/OnPremise/Dashboard" [static], [protected]

8.55.3.12 string PhotonEditor.UrlHowToSetup = "http://doc.photonengine.com/en/onpremise/current/getting-started/photon-server-in-5min" [static], [protected]

8.55.3.13 Type PhotonEditor.WindowType = typeof (**PhotonEditor**) [static], [protected]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/Photon↩Network/PhotonEditor.cs

8.56 PhotonGUI Class Reference

Static Public Member Functions

- static void ContainerHeader (string headline)
- static bool ContainerHeaderToggle (string headline, bool toggle)
- static bool ContainerHeaderFoldout (string headline, bool foldout)
- static Rect ContainerBody (float height)
- static bool AddButton ()
- static void DrawSplitter (Rect position)
- static void DrawGizmoOptions (Rect position, string label, SerializedProperty gizmoEnabledProperty, SerializedProperty gizmoColorProperty, SerializedProperty gizmoTypeProperty, SerializedProperty gizmo↩ SizeProperty)

Properties

- static GUIStyle DefaultTitleStyle `[get]`
- static GUIStyle DefaultContainerStyle `[get]`
- static GUIStyle DefaultAddButtonStyle `[get]`
- static GUIStyle DefaultRemoveButtonStyle `[get]`
- static GUIStyle DefaultContainerRowStyle `[get]`
- static GUIStyle FoldoutBold `[get]`
- static GUIStyle RichLabel `[get]`
- static Texture2D HelpIcon `[get]`

8.56.1 Member Function Documentation

8.56.1.1 static bool PhotonGUI.AddButton ( ) [static]

8.56.1.2 static Rect PhotonGUI.ContainerBody (float *height*) [static]

8.56.1.3 static void PhotonGUI.ContainerHeader (string *headline*) [static]

8.56.1.4 static bool PhotonGUI.ContainerHeaderFoldout (string *headline,* bool *foldout*) [static]

8.56.1.5 static bool PhotonGUI.ContainerHeaderToggle (string *headline,* bool *toggle*) [static]

8.56.1.6 static void PhotonGUI.DrawGizmoOptions (Rect *position,* string *label,* SerializedProperty *gizmoEnabledProperty,* SerializedProperty *gizmoColorProperty,* SerializedProperty *gizmoTypeProperty,* SerializedProperty *gizmoSizeProperty*) [static]

8.56.1.7 static void PhotonGUI.DrawSplitter (Rect *position*) [static]

8.56.2 Property Documentation

8.56.2.1 GUIStyle PhotonGUI.DefaultAddButtonStyle [static], [get]

8.56.2.2 GUIStyle PhotonGUI.DefaultContainerRowStyle [static],[get]

8.56.2.3 GUIStyle PhotonGUI.DefaultContainerStyle [static],[get]

8.56.2.4 GUIStyle PhotonGUI.DefaultRemoveButtonStyle [static],[get]

8.56.2.5 GUIStyle PhotonGUI.DefaultTitleStyle [static],[get]

8.56.2.6 GUIStyle PhotonGUI.FoldoutBold [static],[get]

8.56.2.7 Texture2D PhotonGUI.HelpIcon [static],[get]

8.56.2.8 GUIStyle PhotonGUI.RichLabel [static],[get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonGUI.cs

8.57 PhotonLagSimulationGui Class Reference

This MonoBehaviour is a basic GUI for the Photon client's network-simulation feature.

Inherits MonoBehaviour.

Public Member Functions

- void Start ()
- void OnGUI ()

Public Attributes

- Rect WindowRect = new Rect(0, 100, 120, 100)

  Positioning rect for window.
- int WindowId = 101

  Unity GUI Window ID (must be unique or will cause issues).
- bool Visible = true

  Shows or hides GUI (does not affect settings).

Properties

- PhotonPeer Peer [get, set]

  The peer currently in use (to set the network simulation).

8.57.1 Detailed Description

This MonoBehaviour is a basic GUI for the Photon client's network-simulation feature.

It can modify lag (fixed delay), jitter (random lag) and packet loss.

8.57.2 Member Function Documentation

8.57.2.1 void PhotonLagSimulationGui.OnGUI ( )

8.57.2.2 void PhotonLagSimulationGui.Start ( )

8.57.3 Member Data Documentation

8.57.3.1 bool PhotonLagSimulationGui.Visible = true

Shows or hides GUI (does not affect settings).

8.57.3.2 int PhotonLagSimulationGui.WindowId = 101

Unity GUI Window ID (must be unique or will cause issues).

8.57.3.3 Rect PhotonLagSimulationGui.WindowRect = new Rect(0, 100, 120, 100)

Positioning rect for window.

8.57.4 Property Documentation

8.57.4.1 PhotonPeer PhotonLagSimulationGui.Peer [get], [set]

The peer currently in use (to set the network simulation).

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonLagSimulationGui.cs

8.58 PhotonMessageInfo Class Reference

Container class for info about a particular message, RPC or update.

Public Member Functions

- PhotonMessageInfo ()

  Initializes a new instance of the PhotonMessageInfo class.
- PhotonMessageInfo (PhotonPlayer player, int timestamp, PhotonView view)
- override string ToString ()

Public Attributes

- PhotonPlayer sender
- PhotonView photonView

Properties

- double timestamp [get]

8.58.1 Detailed Description

Container class for info about a particular message, RPC or update.

8.58.2 Constructor & Destructor Documentation

8.58.2.1 PhotonMessageInfo.PhotonMessageInfo ( )

Initializes a new instance of the PhotonMessageInfo class.

To create an empty messageinfo only!

8.58.2.2 PhotonMessageInfo.PhotonMessageInfo (PhotonPlayer *player,* int *timestamp,* PhotonView *view*)

8.58.3 Member Function Documentation

8.58.3.1 override string PhotonMessageInfo.ToString ( )

8.58.4 Member Data Documentation

8.58.4.1 PhotonView PhotonMessageInfo.photonView

8.58.4.2 PhotonPlayer PhotonMessageInfo.sender

8.58.5 Property Documentation

8.58.5.1 double PhotonMessageInfo.timestamp [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.59 PhotonNetwork Class Reference

The main class to use the PhotonNetwork plugin.

Public Member Functions

- delegate void EventCallback (byte eventCode, object content, int senderId)

  Defines the delegate usable in OnEventCall.

Static Public Member Functions

- static void SwitchToProtocol (ConnectionProtocol cp)

  While offline, the network protocol can be switched (which affects the ports you can use to connect).
- static bool ConnectUsingSettings (string gameVersion)

  Connect to Photon as configured in the editor (saved in PhotonServerSettings file).
- static bool ConnectToMaster (string masterServerAddress, int port, string appID, string gameVersion)

  Connect to a Photon Master Server by address, port, appID and game(client) version.
- static bool ConnectToBestCloudServer (string gameVersion)

  Connect to the Photon Cloud region with the lowest ping (on platforms that support Unity's Ping).
- static bool ConnectToRegion (CloudRegionCode region, string gameVersion)

  Connects to the Photon Cloud region of choice.
- static void OverrideBestCloudServer (CloudRegionCode region)

  Overwrites the region that is used for ConnectToBestCloudServer(string gameVersion).
- static void RefreshCloudServerRating ()

  Pings all cloud servers again to find the one with best ping (currently).
- static void NetworkStatisticsReset ()

  Resets the traffic stats and re-enables them.
- static string NetworkStatisticsToString ()

  Only available when NetworkStatisticsEnabled was used to gather some stats.
- static void InitializeSecurity ()

  Used for compatibility with Unity networking only.
- static void Disconnect ()

  Makes this client disconnect from the photon server, a process that leaves any room and calls OnDisconnected↩ FromPhoton on completion.
- static bool FindFriends (string[ ] friendsToFind)

  Requests the rooms and online status for a list of friends and saves the result in PhotonNetwork.Friends.
- static bool CreateRoom (string roomName)

  Creates a room with given name but fails if this room(name) is existing already.
- static bool CreateRoom (string roomName, RoomOptions roomOptions, TypedLobby typedLobby)

  Creates a room but fails if this room is existing already.
- static bool JoinRoom (string roomName)

  Join room by roomname and on success calls OnJoinedRoom().
- static bool JoinOrCreateRoom (string roomName, RoomOptions roomOptions, TypedLobby typedLobby)

  Lets you either join a named room or create it on the fly - you don't have to know if someone created the room already.
- static bool JoinRandomRoom ()

  Joins any available room of the currently used lobby and fails if none is available.
- static bool JoinRandomRoom (Hashtable expectedCustomRoomProperties, byte expectedMaxPlayers)

  Attempts to join an open room with fitting, custom properties but fails if none is currently available.

- static bool JoinRandomRoom (Hashtable expectedCustomRoomProperties, byte expectedMaxPlayers, MatchmakingMode matchingType, TypedLobby typedLobby, string sqlLobbyFilter)

  Attempts to join an open room with fitting, custom properties but fails if none is currently available.
- static bool JoinLobby ()

  On MasterServer this joins the default lobby which list rooms currently in use.
- static bool JoinLobby (TypedLobby typedLobby)

  On a Master Server you can join a lobby to get lists of available rooms.
- static bool LeaveLobby ()

  Leave a lobby to stop getting updates about available rooms.
- static bool LeaveRoom ()

  Leave the current room and return to the Master Server where you can join or create rooms (see remarks).
- static RoomInfo[ ] GetRoomList ()

  Gets currently known rooms as RoomInfo array.
- static void SetPlayerCustomProperties (Hashtable customProperties)

  Sets this (local) player's properties and synchronizes them to the other players (don't modify them directly).
- static void RemovePlayerCustomProperties (string[ ] customPropertiesToDelete)

  Locally removes Custom Properties of "this" player.
- static bool RaiseEvent (byte eventCode, object eventContent, bool sendReliable, RaiseEventOptions options)

  Sends fully customizable events in a room.
- static int AllocateViewID ()

  Allocates a viewID that's valid for the current/local player.
- static int AllocateSceneViewID ()

  Enables the Master Client to allocate a viewID that is valid for scene objects.
- static void UnAllocateViewID (int viewID)

  Unregister a viewID (of manually instantiated and destroyed networked objects).
- static GameObject Instantiate (string prefabName, Vector3 position, Quaternion rotation, int group)

  Instantiate a prefab over the network.
- static GameObject Instantiate (string prefabName, Vector3 position, Quaternion rotation, int group, object[ ] data)

  Instantiate a prefab over the network.
- static GameObject InstantiateSceneObject (string prefabName, Vector3 position, Quaternion rotation, int group, object[ ] data)

  Instantiate a scene-owned prefab over the network.
- static int GetPing ()

  The current roundtrip time to the photon server.
- static void FetchServerTimestamp ()

  Refreshes the server timestamp (async operation, takes a roundtrip).
- static void SendOutgoingCommands ()

  Can be used to immediately send the RPCs and Instantiates just called, so they are on their way to the other players.
- static bool CloseConnection (PhotonPlayer kickPlayer)

  Request a client to disconnect (KICK).
- static bool SetMasterClient (PhotonPlayer masterClientPlayer)

  Asks the server to assign another player as Master Client of your current room.
- static void Destroy (PhotonView targetView)

  Network-Destroy the GameObject associated with the PhotonView, unless the PhotonView is static or not under this client's control.
- static void Destroy (GameObject targetGo)

  Network-Destroy the GameObject, unless it is static or not under this client's control.
- static void DestroyPlayerObjects (PhotonPlayer targetPlayer)

  Network-Destroy all GameObjects, PhotonViews and their RPCs of targetPlayer.
- static void DestroyPlayerObjects (int targetPlayerId)

Network-Destroy all GameObjects, PhotonViews and their RPCs of this player (by ID).

- static void DestroyAll ()

  Network-Destroy all GameObjects, PhotonViews and their RPCs in the room.
- static void RemoveRPCs (PhotonPlayer targetPlayer)

  Remove all buffered RPCs from server that were sent by targetPlayer.
- static void RemoveRPCs (PhotonView targetPhotonView)

  Remove all buffered RPCs from server that were sent via targetPhotonView.
- static void RemoveRPCsInGroup (int targetGroup)

  Remove all buffered RPCs from server that were sent in the targetGroup, if this is the Master Client or if this controls the individual PhotonView.
- static void CacheSendMonoMessageTargets (Type type)

  Populates SendMonoMessageTargets with currently existing GameObjects that have a Component of type.
- static HashSet< GameObject > FindGameObjectsWithComponent (Type type)

  Finds the GameObjects with Components of a specific type (using FindObjectsOfType).
- static void SetReceivingEnabled (int group, bool enabled)

  Enable/disable receiving on given group (applied to PhotonViews)
- static void SetReceivingEnabled (int[ ] enableGroups, int[ ] disableGroups)

  Enable/disable receiving on given groups (applied to PhotonViews)
- static void SetSendingEnabled (int group, bool enabled)

  Enable/disable sending on given group (applied to PhotonViews)
- static void SetSendingEnabled (int[ ] enableGroups, int[ ] disableGroups)

  Enable/disable sending on given groups (applied to PhotonViews)
- static void SetLevelPrefix (short prefix)

  Sets level prefix for PhotonViews instantiated later on.
- static void LoadLevel (int levelNumber)

  Wraps loading a level to pause the network mesage-queue.
- static void LoadLevel (string levelName)

  Wraps loading a level to pause the network mesage-queue.
- static bool WebRpc (string name, object parameters)

  This operation makes Photon call your custom web-service by name (path) with the given parameters.

Public Attributes

- const string versionPUN = "1.65"

  Version number of PUN. Also used in GameVersion to separate client version from each other.

Static Public Attributes

- static readonly int MAX_VIEW_IDS = 1000

  The maximum number of assigned PhotonViews per player (or scene).
- static ServerSettings PhotonServerSettings = (ServerSettings)Resources.Load(PhotonNetwork.server↩ SettingsAssetFile, typeof(ServerSettings))

  Serialized server settings, written by the Setup Wizard for use in ConnectUsingSettings.
- static bool InstantiateInRoomOnly = true

  If true, Instantiate methods will check if you are in a room and fail if you are not.
- static PhotonLogLevel logLevel = PhotonLogLevel.ErrorsOnly

  Network log level.
- static float precisionForVectorSynchronization = 0.000099f

  The minimum difference that a Vector2 or Vector3(e.g.
- static float precisionForQuaternionSynchronization = 1.0f

The minimum angle that a rotation needs to change before we send it via a PhotonView's OnSerialize/ObservingComponent.

- static float precisionForFloatSynchronization = 0.01f

  The minimum difference between floats before we send it via a PhotonView's OnSerialize/ObservingComponent.

- static bool UseRpcMonoBehaviourCache

  While enabled, the MonoBehaviours on which we call RPCs are cached, avoiding costly GetComponents<MonoBehaviour>() calls.

- static bool UsePrefabCache = true

  While enabled (true), Instantiate uses PhotonNetwork.PrefabCache to keep game objects in memory (improving instantiation of the same prefab).

- static Dictionary< string, GameObject > PrefabCache = new Dictionary<string, GameObject>()

  Keeps references to GameObjects for frequent instantiation (out of memory instead of loading the Resources).

- static HashSet< GameObject > SendMonoMessageTargets

  If not null, this is the (exclusive) list of GameObjects that get called by PUN SendMonoMessage().

- static Type SendMonoMessageTargetType = typeof(MonoBehaviour)

  Defines which classes can contain PUN Callback implementations.

- static int maxConnections

  Only used in Unity Networking. In PUN, set the number of players in PhotonNetwork.CreateRoom.

- static float BackgroundTimeout = 0.0f

  Defines after how many seconds PUN will close a connection, after Unity's OnApplicationPause(true) call.

- static EventCallback OnEventCall

  Register your RaiseEvent handling methods here by using "+=".

Properties

- static string gameVersion `[get, set]`

  Version string for your this build.

- static string ServerAddress `[get]`

  Currently used server address (no matter if master or game server).

- static bool connected `[get]`

  False until you connected to Photon initially.

- static bool connecting `[get]`

  True when you called ConnectUsingSettings (or similar) until the low level connection to Photon gets established.

- static bool connectedAndReady `[get]`

  A refined version of connected which is true only if your connection to the server is ready to accept operations like join, leave, etc.

- static ConnectionState connectionState `[get]`

  Simplified connection state

- static PeerState connectionStateDetailed `[get]`

  Detailed connection state (ignorant of PUN, so it can be "disconnected" while switching servers).

- static ServerConnection Server `[get]`

  The server (type) this client is currently connected or connecting to.

- static AuthenticationValues AuthValues `[get, set]`

  A user's authentication values used during connect for Custom Authentication with Photon (and a custom service/community).

- static Room room `[get]`

  Get the room we're currently in.

- static PhotonPlayer player `[get]`

  The local PhotonPlayer.

- static PhotonPlayer masterClient `[get]`

  The Master Client of the current room or null (outside of rooms).

- static string playerName [get, set]

  Set to synchronize the player's nickname with everyone in the room(s) you enter.
- static PhotonPlayer[] playerList [get]

  The list of players in the current room, including the local player.
- static PhotonPlayer[] otherPlayers [get]

  The list of players in the current room, excluding the local player.
- static List< FriendInfo > Friends [get, set]

  Read-only list of friends, their online status and the room they are in.
- static int FriendsListAge [get]

  Age of friend list info (in milliseconds).
- static IPunPrefabPool PrefabPool [get, set]

  An Object Pool can be used to keep and reuse instantiated object instances.
- static bool offlineMode [get, set]

  Offline mode can be set to re-use your multiplayer code in singleplayer game modes.
- static bool automaticallySyncScene [get, set]

  Defines if all clients in a room should load the same level as the Master Client (if that used PhotonNetwork.LoadLevel).
- static bool autoCleanUpPlayerObjects [get, set]

  This setting defines per room, if network-instantiated GameObjects (with PhotonView) get cleaned up when the creator of it leaves.
- static bool autoJoinLobby [get, set]

  Set in PhotonServerSettings asset.
- static bool EnableLobbyStatistics [get, set]

  Set in PhotonServerSettings asset.
- static List< TypedLobbyInfo > LobbyStatistics [get]

  If turned on, the Master Server will provide information about active lobbies for this application.
- static bool insideLobby [get]

  True while this client is in a lobby.
- static TypedLobby lobby [get, set]

  The lobby that will be used when PUN joins a lobby or creates a game.
- static int sendRate [get, set]

  Defines how many times per second PhotonNetwork should send a package.
- static int sendRateOnSerialize [get, set]

  Defines how many times per second OnPhotonSerialize should be called on PhotonViews.
- static bool isMessageQueueRunning [get, set]

  Can be used to pause dispatching of incoming evtents (RPCs, Instantiates and anything else incoming).
- static int unreliableCommandsLimit [get, set]

  Used once per dispatch to limit unreliable commands per channel (so after a pause, many channels can still cause a lot of unreliable commands)
- static double time [get]

  Photon network time, synched with the server.
- static int ServerTimestamp [get]

  The current server's millisecond timestamp.
- static bool isMasterClient [get]

  Are we the master client?
- static bool inRoom [get]

  Is true while being in a room (connectionStateDetailed == PeerState.Joined).
- static bool isNonMasterClientInRoom [get]

  True if we are in a room (client) and NOT the room's masterclient
- static int countOfPlayersOnMaster [get]

  The count of players currently looking for a room (available on MasterServer in 5sec intervals).
- static int countOfPlayersInRooms [get]

Count of users currently playing your app in some room (sent every 5sec by Master Server).

- static int countOfPlayers [get]

  The count of players currently using this application (available on MasterServer in 5sec intervals).
- static int countOfRooms [get]

  The count of rooms currently in use (available on MasterServer in 5sec intervals).
- static bool NetworkStatisticsEnabled [get, set]

  Enables or disables the collection of statistics about this client's traffic.
- static int ResentReliableCommands [get]

  Count of commands that got repeated (due to local repeat-timing before an ACK was received).
- static bool CrcCheckEnabled [get, set]

  Crc checks can be useful to detect and avoid issues with broken datagrams. Can be enabled while not connected.
- static int PacketLossByCrcCheck [get]

  If CrcCheckEnabled, this counts the incoming packages that don't have a valid CRC checksum and got rejected.
- static int MaxResendsBeforeDisconnect [get, set]

  Defines the number of times a reliable message can be resent before not getting an ACK for it will trigger a disconnect.
- static int QuickResends [get, set]

  In case of network loss, reliable messages can be repeated quickly up to 3 times.

8.59.1 Detailed Description

The main class to use the PhotonNetwork plugin.

This class is static.

8.59.2 Member Function Documentation

8.59.2.1 static int PhotonNetwork.AllocateSceneViewID ( ) [static]

Enables the Master Client to allocate a viewID that is valid for scene objects.

Returns

A viewID that can be used for a new PhotonView or -1 in case of an error.

8.59.2.2 static int PhotonNetwork.AllocateViewID ( ) [static]

Allocates a viewID that's valid for the current/local player.

Returns

A viewID that can be used for a new PhotonView.

8.59.2.3 static void PhotonNetwork.CacheSendMonoMessageTargets (Type *type*) [static]

Populates SendMonoMessageTargets with currently existing GameObjects that have a Component of type.

Parameters

type	If null, this will use SendMonoMessageTargets as component-type (MonoBehaviour by default).

8.59.2.4 static bool PhotonNetwork.CloseConnection (PhotonPlayer *kickPlayer*) [static]

Request a client to disconnect (KICK).

Only the master client can do this

Only the target player gets this event. That player will disconnect automatically, which is what the others will notice, too.

Parameters

kickPlayer	The PhotonPlayer to kick.

8.59.2.5 static bool PhotonNetwork.ConnectToBestCloudServer (string *gameVersion*) [static]

Connect to the Photon Cloud region with the lowest ping (on platforms that support Unity's Ping).

Will save the result of pinging all cloud servers in PlayerPrefs. Calling this the first time can take +-2 seconds. The ping result can be overridden via PhotonNetwork.OverrideBestCloudServer(..) This call can take up to 2 seconds if it is the first time you are using this, all cloud servers will be pinged to check for the best region.

The PUN Setup Wizard stores your appID in a settings file and applies a server address/port. To connect to the Photon Cloud, a valid AppId must be in the settings file (shown in the Photon Cloud Dashboard). https://www.exitgames.com/dashboard

Connecting to the Photon Cloud might fail due to:

- Invalid AppId (calls: OnFailedToConnectToPhoton(). check exact AppId value)
- Network issues (calls: OnFailedToConnectToPhoton())
- Invalid region (calls: OnConnectionFail() with DisconnectCause.InvalidRegion)
- Subscription CCU limit reached (calls: OnConnectionFail() with DisconnectCause.MaxCcuReached. also calls: OnPhotonMaxCccuReached())

More about the connection limitations: http://doc.exitgames.com/en/pun

Parameters

gameVersion	This client's version number. Users are separated from each other by gameversion (which allows you to make breaking changes).

Returns

If this client is going to connect to cloud server based on ping. Even if true, this does not guarantee a connection but the attempt is being made.

8.59.2.6 static bool PhotonNetwork.ConnectToMaster (string *masterServerAddress,* int *port,* string *appID,* string *gameVersion*) [static]

Connect to a Photon Master Server by address, port, appID and game(client) version.

To connect to the Photon Cloud, a valid AppId must be in the settings file (shown in the Photon Cloud Dashboard). https://www.exitgames.com/dashboard

Connecting to the Photon Cloud might fail due to:

- Invalid AppId (calls: OnFailedToConnectToPhoton(). check exact AppId value)
- Network issues (calls: OnFailedToConnectToPhoton())
- Invalid region (calls: OnConnectionFail() with DisconnectCause.InvalidRegion)
- Subscription CCU limit reached (calls: OnConnectionFail() with DisconnectCause.MaxCcuReached. also calls: OnPhotonMaxCccuReached())

More about the connection limitations: http://doc.exitgames.com/en/pun

Parameters

masterServerAddress	The server's address (either your own or Photon Cloud address).
port	The server's port to connect to.
appID	Your application ID (Photon Cloud provides you with a GUID for your game).
gameVersion	This client's version number. Users are separated by gameversion (which allows you to make breaking changes).

8.59.2.7 static bool PhotonNetwork.ConnectToRegion (CloudRegionCode *region,* string *gameVersion*) [static]

Connects to the Photon Cloud region of choice.

8.59.2.8 static bool PhotonNetwork.ConnectUsingSettings (string *gameVersion*) [static]

Connect to Photon as configured in the editor (saved in PhotonServerSettings file).

This method will disable offlineMode (which won't destroy any instantiated GOs) and it will set isMessageQueue↩ Running to true.

Your server configuration is created by the PUN Wizard and contains the AppId and region for Photon Cloud games and the server address if you host Photon yourself. These settings usually don't change often.

To ignore the config file and connect anywhere call: PhotonNetwork.ConnectToMaster.

To connect to the Photon Cloud, a valid AppId must be in the settings file (shown in the Photon Cloud Dashboard). https://www.exitgames.com/dashboard

Connecting to the Photon Cloud might fail due to:

- Invalid AppId (calls: OnFailedToConnectToPhoton(). check exact AppId value)
- Network issues (calls: OnFailedToConnectToPhoton())
- Invalid region (calls: OnConnectionFail() with DisconnectCause.InvalidRegion)
- Subscription CCU limit reached (calls: OnConnectionFail() with DisconnectCause.MaxCcuReached. also calls: OnPhotonMaxCccuReached())

More about the connection limitations: http://doc.exitgames.com/en/pun

Parameters

gameVersion	This client's version number. Users are separated from each other by gameversion (which allows you to make breaking changes).

8.59.2.9 static bool PhotonNetwork.CreateRoom (string *roomName*) [static]

Creates a room with given name but fails if this room(name) is existing already.

Creates random name for roomName null.

If you don't want to create a unique room-name, pass null or "" as name and the server will assign a roomName (a GUID as string).

The created room is automatically placed in the currently used lobby (if any) or the default-lobby if you didn't explicitly join one.

Call this only on the master server. Internally, the master will respond with a server-address (and roomName, if needed). Both are used internally to switch to the assigned game server and roomName.

PhotonNetwork.autoCleanUpPlayerObjects will become this room's AutoCleanUp property and that's used by all clients that join this room.

Parameters

roomName	Unique name of the room to create.

8.59.2.10 static bool PhotonNetwork.CreateRoom (string *roomName,* RoomOptions *roomOptions,* TypedLobby *typedLobby*) [static]

Creates a room but fails if this room is existing already.

Can only be called on Master Server.

When successful, this calls the callbacks OnCreatedRoom and OnJoinedRoom (the latter, cause you join as first player). If the room can't be created (because it exists already), OnPhotonCreateRoomFailed gets called.

If you don't want to create a unique room-name, pass null or "" as name and the server will assign a roomName (a GUID as string).

Rooms can be created in any number of lobbies. Those don't have to exist before you create a room in them (they get auto-created on demand). Lobbies can be useful to split room lists on the server-side already. That can help

keep the room lists short and manageable. If you set a typedLobby parameter, the room will be created in that lobby (no matter if you are active in any). If you don't set a typedLobby, the room is automatically placed in the currently active lobby (if any) or the default-lobby.

Call this only on the master server. Internally, the master will respond with a server-address (and roomName, if needed). Both are used internally to switch to the assigned game server and roomName.

PhotonNetwork.autoCleanUpPlayerObjects will become this room's autoCleanUp property and that's used by all clients that join this room.

Parameters

roomName	Unique name of the room to create. Pass null or "" to make the server generate a name.
roomOptions	Common options for the room like maxPlayers, initial custom room properties and similar. See RoomOptions type..
typedLobby	If null, the room is automatically created in the currently used lobby (which is "default" when you didn't join one explicitly).

8.59.2.11 static void PhotonNetwork.Destroy (PhotonView *targetView*) [static]

Network-Destroy the GameObject associated with the PhotonView, unless the PhotonView is static or not under this client's control.

Destroying a networked GameObject while in a Room includes:

- Removal of the Instantiate call from the server's room buffer.
- Removing RPCs buffered for PhotonViews that got created indirectly with the PhotonNetwork.Instantiate call.
- Sending a message to other clients to remove the GameObject also (affected by network lag).

Usually, when you leave a room, the GOs get destroyed automatically. If you have to destroy a GO while not in a room, the Destroy is only done locally.

Destroying networked objects works only if they got created with PhotonNetwork.Instantiate(). Objects loaded with a scene are ignored, no matter if they have PhotonView components.

The GameObject must be under this client's control:

- Instantiated and owned by this client.
- Instantiated objects of players who left the room are controlled by the Master Client.
- Scene-owned game objects are controlled by the Master Client.
- GameObject can be destroyed while client is not in a room.

Returns

Nothing. Check error debug log for any issues.

8.59.2.12 static void PhotonNetwork.Destroy (GameObject *targetGo*) [static]

Network-Destroy the GameObject, unless it is static or not under this client's control.

Destroying a networked GameObject includes:

- Removal of the Instantiate call from the server's room buffer.
- Removing RPCs buffered for PhotonViews that got created indirectly with the PhotonNetwork.Instantiate call.
- Sending a message to other clients to remove the GameObject also (affected by network lag).

Usually, when you leave a room, the GOs get destroyed automatically. If you have to destroy a GO while not in a room, the Destroy is only done locally.

Destroying networked objects works only if they got created with PhotonNetwork.Instantiate(). Objects loaded with a scene are ignored, no matter if they have PhotonView components.

The GameObject must be under this client's control:

- Instantiated and owned by this client.
- Instantiated objects of players who left the room are controlled by the Master Client.
- Scene-owned game objects are controlled by the Master Client.
- GameObject can be destroyed while client is not in a room.

Returns

Nothing. Check error debug log for any issues.

8.59.2.13 static void PhotonNetwork.DestroyAll ( ) [static]

Network-Destroy all GameObjects, PhotonViews and their RPCs in the room.

Removes anything buffered from the server. Can only be called by Master Client (for anyone).

Can only be called by Master Client (for anyone). Unlike the Destroy methods, this will remove anything from the server's room buffer. If your game buffers anything beyond Instantiate and RPC calls, that will be cleaned as well from server.

Destroying all includes:

- Remove anything from the server's room buffer (Instantiate, RPCs, anything buffered).
- Sending a message to other clients to destroy everything locally, too (affected by network lag).

Destroying networked objects works only if they got created with PhotonNetwork.Instantiate(). Objects loaded with a scene are ignored, no matter if they have PhotonView components.

Returns

Nothing. Check error debug log for any issues.

8.59.2.14 static void PhotonNetwork.DestroyPlayerObjects (PhotonPlayer *targetPlayer*) [static]

Network-Destroy all GameObjects, PhotonViews and their RPCs of targetPlayer.

Can only be called on local player (for "self") or Master Client (for anyone).

Destroying a networked GameObject includes:

- Removal of the Instantiate call from the server's room buffer.
- Removing RPCs buffered for PhotonViews that got created indirectly with the PhotonNetwork.Instantiate call.
- Sending a message to other clients to remove the GameObject also (affected by network lag).

Destroying networked objects works only if they got created with PhotonNetwork.Instantiate(). Objects loaded with a scene are ignored, no matter if they have PhotonView components.

Returns

Nothing. Check error debug log for any issues.

8.59.2.15 static void PhotonNetwork.DestroyPlayerObjects (int *targetPlayerId*) [static]

Network-Destroy all GameObjects, PhotonViews and their RPCs of this player (by ID).

Can only be called on local player (for "self") or Master Client (for anyone).

Destroying a networked GameObject includes:

- Removal of the Instantiate call from the server's room buffer.
- Removing RPCs buffered for PhotonViews that got created indirectly with the PhotonNetwork.Instantiate call.
- Sending a message to other clients to remove the GameObject also (affected by network lag).

Destroying networked objects works only if they got created with PhotonNetwork.Instantiate(). Objects loaded with a scene are ignored, no matter if they have PhotonView components.

Returns

Nothing. Check error debug log for any issues.

8.59.2.16 static void PhotonNetwork.Disconnect ( ) [static]

Makes this client disconnect from the photon server, a process that leaves any room and calls OnDisconnected↩ FromPhoton on completion.

When you disconnect, the client will send a "disconnecting" message to the server. This speeds up leave/disconnect messages for players in the same room as you (otherwise the server would timeout this client's connection). When used in offlineMode, the state-change and event-call OnDisconnectedFromPhoton are immediate. Offline mode is set to false as well. Once disconnected, the client can connect again. Use ConnectUsingSettings.

8.59.2.17 delegate void PhotonNetwork.EventCallback (byte *eventCode,* object *content,* int *senderId*)

Defines the delegate usable in OnEventCall.

Any eventCode $<$ 200 will be forwarded to your delegate(s).

Parameters

eventCode	The code assigend to the incoming event.
content	The content the sender put into the event.
senderId	The ID of the player who sent the event. It might be 0, if the "room" sent the event.

8.59.2.18 static void PhotonNetwork.FetchServerTimestamp ( ) [static]

Refreshes the server timestamp (async operation, takes a roundtrip).

Can be useful if a bad connection made the timestamp unusable or imprecise.

8.59.2.19 static bool PhotonNetwork.FindFriends (string[ ] *friendsToFind*) [static]

Requests the rooms and online status for a list of friends and saves the result in PhotonNetwork.Friends.

Works only on Master Server to find the rooms played by a selected list of users.

The result will be stored in PhotonNetwork.Friends when available. That list is initialized on first use of OpFind↩ Friends (before that, it is null). To refresh the list, call FindFriends again (in 5 seconds or 10 or 20).

Users identify themselves by setting a unique username via PhotonNetwork.playerName or by PhotonNetwork.↩ AuthValues. The user id set in AuthValues overrides the playerName, so make sure you know the ID your friends use to authenticate. The AuthValues are sent in OpAuthenticate when you connect, so the AuthValues must be set before you connect!

Note: Changing a player's name doesn't make sense when using a friend list.

The list of friends must be fetched from some other source (not provided by Photon).

Internal: The server response includes 2 arrays of info (each index matching a friend from the request): Parameter↩ Code.FindFriendsResponseOnlineList = bool[] of online states ParameterCode.FindFriendsResponseRoomIdList = string[] of room names (empty string if not in a room)

Parameters

friendsToFind	Array of friend (make sure to use unique playerName or AuthValues).

Returns

If the operation could be sent (requires connection, only one request is allowed at any time). Always false in offline mode.

8.59.2.20 static HashSet<GameObject> PhotonNetwork.FindGameObjectsWithComponent (Type *type*) [static]

Finds the GameObjects with Components of a specific type (using FindObjectsOfType).

Parameters

type	Type must be a Component

Returns

HashSet with GameObjects that have a specific type of Component.

8.59.2.21 static int PhotonNetwork.GetPing ( ) [static]

The current roundtrip time to the photon server.

Returns

Roundtrip time (to server and back).

8.59.2.22 static RoomInfo [ ] PhotonNetwork.GetRoomList ( ) [static]

Gets currently known rooms as RoomInfo array.

This is available and updated while in a lobby (check insideLobby).

This list is a cached copy of the internal rooms list so it can be accessed each frame if needed. Per RoomInfo you can check if the room is full by comparing playerCount and maxPlayers before you allow a join.

The name of a room must be used to join it (via JoinRoom).

Closed rooms are also listed by lobbies but they can't be joined. While in a room, any player can set Room.visible and Room.open to hide rooms from matchmaking and close them.

Returns

RoomInfo[] of current rooms in lobby.

8.59.2.23 static void PhotonNetwork.InitializeSecurity ( ) [static]

Used for compatibility with Unity networking only.

Encryption is automatically initialized while connecting.

8.59.2.24 static GameObject PhotonNetwork.Instantiate (string *prefabName,* Vector3 *position,* Quaternion *rotation,* int *group*) [static]

Instantiate a prefab over the network.

This prefab needs to be located in the root of a "Resources" folder.

Instead of using prefabs in the Resources folder, you can manually Instantiate and assign PhotonViews. See doc.

Parameters

prefabName	Name of the prefab to instantiate.
position	Position Vector3 to apply on instantiation.
rotation	Rotation Quaternion to apply on instantiation.
group	The group for this PhotonView.

Returns

The new instance of a GameObject with initialized PhotonView.

8.59.2.25 static GameObject PhotonNetwork.Instantiate (string *prefabName*, Vector3 *position*, Quaternion *rotation*, int *group*, object[ ] *data*) [static]

Instantiate a prefab over the network.

This prefab needs to be located in the root of a "Resources" folder.

Instead of using prefabs in the Resources folder, you can manually Instantiate and assign PhotonViews. See doc.

Parameters

prefabName	Name of the prefab to instantiate.
position	Position Vector3 to apply on instantiation.
rotation	Rotation Quaternion to apply on instantiation.
group	The group for this PhotonView.
data	Optional instantiation data. This will be saved to it's PhotonView.instantiationData.

Returns

The new instance of a GameObject with initialized PhotonView.

8.59.2.26 static GameObject PhotonNetwork.InstantiateSceneObject (string *prefabName*, Vector3 *position*, Quaternion *rotation*, int *group*, object[ ] *data*) [static]

Instantiate a scene-owned prefab over the network.

The PhotonViews will be controllable by the MasterClient. This prefab needs to be located in the root of a "Resources" folder.

Only the master client can Instantiate scene objects. Instead of using prefabs in the Resources folder, you can manually Instantiate and assign PhotonViews. See doc.

Parameters

prefabName	Name of the prefab to instantiate.
position	Position Vector3 to apply on instantiation.
rotation	Rotation Quaternion to apply on instantiation.
group	The group for this PhotonView.
data	Optional instantiation data. This will be saved to it's PhotonView.instantiationData.

Returns

The new instance of a GameObject with initialized PhotonView.

8.59.2.27 static bool PhotonNetwork.JoinLobby ( ) [static]

On MasterServer this joins the default lobby which list rooms currently in use.

The room list is sent and refreshed by the server. You can access this cached list by PhotonNetwork.GetRoomList().

Per room you should check if it's full or not before joining. Photon also lists rooms that are full, unless you close and hide them (room.open = false and room.visible = false).

In best case, you make your clients join random games, as described here: http://doc.exitgames.com/en/realtime/current/reference/matchmaking-and-lobby

You can show your current players and room count without joining a lobby (but you must be on the master server). Use: countOfPlayers, countOfPlayersOnMaster, countOfPlayersInRooms and countOfRooms.

You can use more than one lobby to keep the room lists shorter. See JoinLobby(TypedLobby lobby). When creating new rooms, they will be "attached" to the currently used lobby or the default lobby.

You can use JoinRandomRoom without being in a lobby! Set autoJoinLobby = false before you connect, to not join a lobby. In that case, the connect-workflow will call OnConnectedToMaster (if you implement it) when it's done.

8.59.2.28 static bool PhotonNetwork.JoinLobby (TypedLobby *typedLobby*) [static]

On a Master Server you can join a lobby to get lists of available rooms.

The room list is sent and refreshed by the server. You can access this cached list by PhotonNetwork.GetRoomList().

Any client can "make up" any lobby on the fly. Splitting rooms into multiple lobbies will keep each list shorter. However, having too many lists might ruin the matchmaking experience.

In best case, you create a limited number of lobbies. For example, create a lobby per game-mode: "koth" for king of the hill and "ffa" for free for all, etc.

There is no listing of lobbies at the moment.

Sql-typed lobbies offer a different filtering model for random matchmaking. This might be more suited for skillbased-games. However, you will also need to follow the conventions for naming filterable properties in sql-lobbies! Both is explained in the matchmaking doc linked below.

In best case, you make your clients join random games, as described here: http://confluence.exitgames.com/display/PTN/Op+JoinRandomGame

Per room you should check if it's full or not before joining. Photon does list rooms that are full, unless you close and hide them (room.open = false and room.visible = false).

You can show your games current players and room count without joining a lobby (but you must be on the master server). Use: countOfPlayers, countOfPlayersOnMaster, countOfPlayersInRooms and countOfRooms.

When creating new rooms, they will be "attached" to the currently used lobby or the default lobby.

You can use JoinRandomRoom without being in a lobby! Set autoJoinLobby = false before you connect, to not join a lobby. In that case, the connect-workflow will call OnConnectedToMaster (if you implement it) when it's done.

Parameters

typedLobby	A typed lobby to join (must have name and type).

8.59.2.29 static bool PhotonNetwork.JoinOrCreateRoom (string *roomName,* RoomOptions *roomOptions,* TypedLobby *typedLobby*) [static]

Lets you either join a named room or create it on the fly - you don't have to know if someone created the room already.

This makes it easier for groups of players to get into the same room. Once the group exchanged a roomName, any player can call JoinOrCreateRoom and it doesn't matter who actually joins or creates the room.

The parameters roomOptions and typedLobby are only used when the room actually gets created by this client. You know if this client created a room, if you get a callback OnCreatedRoom (before OnJoinedRoom gets called as well).

Parameters

roomName	Name of the room to join. Must be non null.
roomOptions	Options for the room, in case it does not exist yet. Else these values are ignored.
typedLobby	Lobby you want a new room to be listed in. Ignored if the room was existing and got joined.

Returns

If the operation got queued and will be sent.

8.59.2.30 static bool PhotonNetwork.JoinRandomRoom ( ) [static]

Joins any available room of the currently used lobby and fails if none is available.

Rooms can be created in arbitrary lobbies which get created on demand. You can join rooms from any lobby without actually joining the lobby. Use the JoinRandomRoom overload with TypedLobby parameter.

This method will only match rooms attached to one lobby! If you use many lobbies, you might have to repeat JoinRandomRoom, to find some fitting room. This method looks up a room in the currently active lobby or (if no lobby is joined) in the default lobby.

If this fails, you can still create a room (and make this available for the next who uses JoinRandomRoom). Alternatively, try again in a moment.

8.59.2.31 static bool PhotonNetwork.JoinRandomRoom (Hashtable *expectedCustomRoomProperties,* byte *expectedMaxPlayers*) [static]

Attempts to join an open room with fitting, custom properties but fails if none is currently available.

Rooms can be created in arbitrary lobbies which get created on demand. You can join rooms from any lobby without actually joining the lobby. Use the JoinRandomRoom overload with TypedLobby parameter.

This method will only match rooms attached to one lobby! If you use many lobbies, you might have to repeat JoinRandomRoom, to find some fitting room. This method looks up a room in the currently active lobby or (if no lobby is joined) in the default lobby.

If this fails, you can still create a room (and make this available for the next who uses JoinRandomRoom). Alternatively, try again in a moment.

Parameters

expectedCustomRoomProperties	Filters for rooms that match these custom properties (string keys and values). To ignore, pass null.
expectedMaxPlayers	Filters for a particular maxplayer setting. Use 0 to accept any maxPlayer value.

8.59.2.32 static bool PhotonNetwork.JoinRandomRoom (Hashtable *expectedCustomRoomProperties,* byte *expectedMaxPlayers,* MatchmakingMode *matchingType,* TypedLobby *typedLobby,* string *sqlLobbyFilter*) [static]

Attempts to join an open room with fitting, custom properties but fails if none is currently available.

Rooms can be created in arbitrary lobbies which get created on demand. You can join rooms from any lobby without actually joining the lobby with this overload.

This method will only match rooms attached to one lobby! If you use many lobbies, you might have to repeat JoinRandomRoom, to find some fitting room. This method looks up a room in the specified lobby or the currently active lobby (if none specified) or in the default lobby (if none active).

If this fails, you can still create a room (and make this available for the next who uses JoinRandomRoom). Alternatively, try again in a moment.

In offlineMode, a room will be created but no properties will be set and all parameters of this JoinRandomRoom call are ignored. The event/callback OnJoinedRoom gets called (see enum PhotonNetworkingMessage).

Parameters

expectedCustomRoomProperties	Filters for rooms that match these custom properties (string keys and values). To ignore, pass null.
expectedMaxPlayers	Filters for a particular maxplayer setting. Use 0 to accept any maxPlayer value.
matchingType	Selects one of the available matchmaking algorithms. See MatchmakingMode enum for options.
typedLobby	The lobby in which you want to lookup a room. Pass null, to use the default lobby. This does not join that lobby and neither sets the lobby property.
sqlLobbyFilter	A filter-string for SQL-typed lobbies.

8.59.2.33 static bool PhotonNetwork.JoinRoom (string *roomName*) [static]

Join room by roomname and on success calls OnJoinedRoom().

This is not affected by lobbies.

On success, the method OnJoinedRoom() is called on any script. You can implement it to react to joining a room.

JoinRoom fails if the room is either full or no longer available (it might become empty while you attempt to join). Implement OnPhotonJoinRoomFailed() to get a callback in error case.

To join a room from the lobby's listing, use RoomInfo.name as roomName here. Despite using multiple lobbies, a roomName is always "global" for your application and so you don't have to specify which lobby it's in. The Master Server will find the room. In the Photon Cloud, an application is defined by AppId, Game- and PUN-version.

PhotonNetworkingMessage.OnPhotonJoinRoomFailed PhotonNetworkingMessage.OnJoinedRoom

Parameters

roomName	Unique name of the room to join.

8.59.2.34 static bool PhotonNetwork.LeaveLobby ( ) [static]

Leave a lobby to stop getting updates about available rooms.

This does not reset PhotonNetwork.lobby! This allows you to join this particular lobby later easily.

The values countOfPlayers, countOfPlayersOnMaster, countOfPlayersInRooms and countOfRooms are received even without being in a lobby.

You can use JoinRandomRoom without being in a lobby. Use autoJoinLobby to not join a lobby when you connect.

8.59.2.35 static bool PhotonNetwork.LeaveRoom ( ) [static]

Leave the current room and return to the Master Server where you can join or create rooms (see remarks).

This will clean up all (network) GameObjects with a PhotonView, unless you changed autoCleanUp to false. Returns to the Master Server.

In OfflineMode, the local "fake" room gets cleaned up and OnLeftRoom gets called immediately.

8.59.2.36 static void PhotonNetwork.LoadLevel (int *levelNumber*) [static]

Wraps loading a level to pause the network mesage-queue.

Optionally syncs the loaded level in a room.

To sync the loaded level in a room, set PhotonNetwork.automaticallySyncScene to true. The Master Client of a room will then sync the loaded level with every other player in the room.

While loading levels, it makes sense to not dispatch messages received by other players. This method takes care of that by setting PhotonNetwork.isMessageQueueRunning = false and enabling the queue when the level was loaded.

You should make sure you don't fire RPCs before you load another scene (which doesn't contain the same GameObjects and PhotonViews). You can call this in OnJoinedRoom.

This uses Application.LoadLevel.

Parameters

levelNumber	Number of the level to load. When using level numbers, make sure they are identical on all clients.

8.59.2.37 static void PhotonNetwork.LoadLevel (string *levelName*) [static]

Wraps loading a level to pause the network mesage-queue.

Optionally syncs the loaded level in a room.

While loading levels, it makes sense to not dispatch messages received by other players. This method takes care of that by setting PhotonNetwork.isMessageQueueRunning = false and enabling the queue when the level was loaded.

To sync the loaded level in a room, set PhotonNetwork.automaticallySyncScene to true. The Master Client of a room will then sync the loaded level with every other player in the room.

You should make sure you don't fire RPCs before you load another scene (which doesn't contain the same GameObjects and PhotonViews). You can call this in OnJoinedRoom.

This uses Application.LoadLevel.

Parameters

levelName	Name of the level to load. Make sure it's available to all clients in the same room.

8.59.2.38 static void PhotonNetwork.NetworkStatisticsReset ( ) [static]

Resets the traffic stats and re-enables them.

8.59.2.39 static string PhotonNetwork.NetworkStatisticsToString ( ) [static]

Only available when NetworkStatisticsEnabled was used to gather some stats.

Returns

A string with vital networking statistics.

8.59.2.40 static void PhotonNetwork.OverrideBestCloudServer (CloudRegionCode *region*) [static]

Overwrites the region that is used for ConnectToBestCloudServer(string gameVersion).

This will overwrite the result of pinging all cloud servers.
Use this to allow your users to save a manually selected region in the player preferences.
Note: You can also use PhotonNetwork.ConnectToRegion to (temporarily) connect to a specific region.

8.59.2.41 static bool PhotonNetwork.RaiseEvent (byte *eventCode*, object *eventContent*, bool *sendReliable*, RaiseEventOptions *options*) [static]

Sends fully customizable events in a room.

Events consist of at least an EventCode (0..199) and can have content.

To receive the events someone sends, register your handling method in PhotonNetwork.OnEventCall.

Example: private void OnEventHandler(byte eventCode, object content, int senderId) { Debug.Log("OnEventHandler"); }

PhotonNetwork.OnEventCall += this.OnEventHandler;

With the senderId, you can look up the PhotonPlayer who sent the event. It is best practice to assign a eventCode for each different type of content and action. You have to cast the content.

The eventContent is optional. To be able to send something, it must be a "serializable type", something that the client can turn into a byte[] basically. Most basic types and arrays of them are supported, including Unity's Vector2, Vector3, Quaternion. Transforms or classes some project defines are NOT supported! You can make your own class a "serializable type" by following the example in CustomTypes.cs.

The RaiseEventOptions have some (less intuitive) combination rules: If you set targetActors (an array of PhotonPlayer.ID values), the receivers parameter gets ignored. When using event caching, the targetActors, receivers and interestGroup can't be used. Buffered events go to all. When using cachingOption removeFromRoomCache, the eventCode and content are actually not sent but used as filter.

Parameters

eventCode	A byte identifying the type of event. You might want to use a code per action or to signal which content can be expected. Allowed: 0..199.
eventContent	Some serializable object like string, byte, integer, float (etc) and arrays of those. Hashtables with byte keys are good to send variable content.
sendReliable	Makes sure this event reaches all players. It gets acknowledged, which requires bandwidth and it can't be skipped (might add lag in case of loss).
options	Allows more complex usage of events. If null, RaiseEventOptions.Default will be used (which is fine).

Returns

False if event could not be sent

8.59.2.42 static void PhotonNetwork.RefreshCloudServerRating ( ) [static]

Pings all cloud servers again to find the one with best ping (currently).

8.59.2.43 static void PhotonNetwork.RemovePlayerCustomProperties (string[ ] *customPropertiesToDelete*) [static]

Locally removes Custom Properties of "this" player.

Important: This does not synchronize the change! Useful when you switch rooms.

Use this method with care. It can create inconsistencies of state between players! This only changes the player.customProperties locally. This can be useful to clear your Custom Properties between games (let's say they store which turn you made, kills, etc).

SetPlayerCustomProperties() syncs and can be used to set values to null while in a room. That can be considered "removed" while in a room.

If customPropertiesToDelete is null or has 0 entries, all Custom Properties are deleted (replaced with a new Hashtable). If you specify keys to remove, those will be removed from the Hashtable but other keys are unaffected.

Parameters

customPropertiesToDelete	List of Custom Property keys to remove. See remarks.

8.59.2.44 static void PhotonNetwork.RemoveRPCs (PhotonPlayer *targetPlayer*) [static]

Remove all buffered RPCs from server that were sent by targetPlayer.

Can only be called on local player (for "self") or Master Client (for anyone).

This method requires either:

- This is the targetPlayer's client.
- This client is the Master Client (can remove any PhotonPlayer's RPCs).

If the targetPlayer calls RPCs at the same time that this is called, network lag will determine if those get buffered or cleared like the rest.

Parameters

targetPlayer	This player's buffered RPCs get removed from server buffer.

8.59.2.45 static void PhotonNetwork.RemoveRPCs (PhotonView *targetPhotonView*) [static]

Remove all buffered RPCs from server that were sent via targetPhotonView.

The Master Client and the owner of the targetPhotonView may call this.

This method requires either:

- The targetPhotonView is owned by this client (Instantiated by it).
- This client is the Master Client (can remove any PhotonView's RPCs).

Parameters

targetPhotonView	RPCs buffered for this PhotonView get removed from server buffer.

8.59.2.46 static void PhotonNetwork.RemoveRPCsInGroup (int *targetGroup*) [static]

Remove all buffered RPCs from server that were sent in the targetGroup, if this is the Master Client or if this controls the individual PhotonView.

This method requires either:

- This client is the Master Client (can remove any RPCs per group).
- Any other client: each PhotonView is checked if it is under this client's control. Only those RPCs are removed.

Parameters

targetGroup	Interest group that gets all RPCs removed.

8.59.2.47 static void PhotonNetwork.SendOutgoingCommands ( ) [static]

Can be used to immediately send the RPCs and Instantiates just called, so they are on their way to the other players.

This could be useful if you do a RPC to load a level and then load it yourself. While loading, no RPCs are sent to others, so this would delay the "load" RPC. You can send the RPC to "others", use this method, disable the message queue (by isMessageQueueRunning) and then load.

8.59.2.48 static void PhotonNetwork.SetLevelPrefix (short *prefix*) [static]

Sets level prefix for PhotonViews instantiated later on.

Don't set it if you need only one!

Important: If you don't use multiple level prefixes, simply don't set this value. The default value is optimized out of the traffic.

This won't affect existing PhotonViews (they can't be changed yet for existing PhotonViews).

Messages sent with a different level prefix will be received but not executed. This affects RPCs, Instantiates and synchronization.

Be aware that PUN never resets this value, you'll have to do so yourself.

Parameters

prefix	Max value is short.MaxValue = 32767

8.59.2.49 static bool PhotonNetwork.SetMasterClient (PhotonPlayer *masterClientPlayer*) [static]

Asks the server to assign another player as Master Client of your current room.

RPCs and RaiseEvent have the option to send messages only to the Master Client of a room. SetMasterClient affects which client gets those messages.

This method calls an operation on the server to set a new Master Client, which takes a roundtrip. In case of success, this client and the others get the new Master Client from the server.

SetMasterClient tells the server which current Master Client should be replaced with the new one. It will fail, if anything switches the Master Client moments earlier. There is no callback for this error. All clients should get the new Master Client assigned by the server anyways.

See also: PhotonNetwork.masterClient

On v3 servers: The ReceiverGroup.MasterClient (usable in RPCs) is not affected by this (still points to lowest player.ID in room). Avoid using this enum value (and send to a specific player instead).

If the current Master Client leaves, PUN will detect a new one by "lowest player ID". Implement OnMasterClient↩ Switched to get a callback in this case. The PUN-selected Master Client might assign a new one.

Make sure you don't create an endless loop of Master-assigning! When selecting a custom Master Client, all clients should point to the same player, no matter who actually assigns this player.

Locally the Master Client is immediately switched, while remote clients get an event. This means the game is tempoarily without Master Client like when a current Master Client leaves.

When switching the Master Client manually, keep in mind that this user might leave and not do it's work, just like any Master Client.

Parameters

masterClientPlayer	The player to become the next Master Client.

Returns

False when this operation couldn't be done. Must be in a room (not in offlineMode).

8.59.2.50 static void PhotonNetwork.SetPlayerCustomProperties (Hashtable *customProperties*) [static]

Sets this (local) player's properties and synchronizes them to the other players (don't modify them directly).

While in a room, your properties are synced with the other players. CreateRoom, JoinRoom and JoinRandomRoom will all apply your player's custom properties when you enter the room. The whole Hashtable will get sent. Minimize the traffic by setting only updated key/values.

If the Hashtable is null, the custom properties will be cleared. Custom properties are never cleared automatically, so they carry over to the next room, if you don't change them.

Don't set properties by modifying PhotonNetwork.player.customProperties!

Parameters

customProperties	Only string-typed keys will be used from this hashtable. If null, custom properties are all deleted.

8.59.2.51 static void PhotonNetwork.SetReceivingEnabled (int *group*, bool *enabled*) [static]

Enable/disable receiving on given group (applied to PhotonViews)

Parameters

group	The interest group to affect.
enabled	Sets if receiving from group to enabled (or not).

8.59.2.52 static void PhotonNetwork.SetReceivingEnabled (int[ ] *enableGroups,* int[ ] *disableGroups*) [static]

Enable/disable receiving on given groups (applied to PhotonViews)

Parameters

enableGroups	The interest groups to enable (or null).
disableGroups	The interest groups to disable (or null).

8.59.2.53 static void PhotonNetwork.SetSendingEnabled (int *group,* bool *enabled*) [static]

Enable/disable sending on given group (applied to PhotonViews)

Parameters

group	The interest group to affect.
enabled	Sets if sending to group is enabled (or not).

8.59.2.54 static void PhotonNetwork.SetSendingEnabled (int[ ] *enableGroups,* int[ ] *disableGroups*) [static]

Enable/disable sending on given groups (applied to PhotonViews)

Parameters

enableGroups	The interest groups to enable sending on (or null).
disableGroups	The interest groups to disable sending on (or null).

8.59.2.55 static void PhotonNetwork.SwitchToProtocol (ConnectionProtocol *cp*) [static]

While offline, the network protocol can be switched (which affects the ports you can use to connect).

When you switch the protocol, make sure to also switch the port for the master server. Default ports are: TCP: 4530 UDP: 5055

This could look like this:
Connect(serverAddress, <udpport|tcpport>, appID, gameVersion)

Or when you use ConnectUsingSettings(), the PORT in the settings can be switched like so:
PhotonNetwork.PhotonServerSettings.ServerPort = 4530;

The current protocol can be read this way:
PhotonNetwork.networkingPeer.UsedProtocol

This does not work with the native socket plugin of PUN+ on mobile!

Parameters

cp	Network protocol to use as low level connection. UDP is default. TCP is not available on all platforms (see remarks).

8.59.2.56 static void PhotonNetwork.UnAllocateViewID (int *viewID*) [static]

Unregister a viewID (of manually instantiated and destroyed networked objects).

Parameters

viewID	A viewID manually allocated by this player.

8.59.2.57 static bool PhotonNetwork.WebRpc (string *name,* object *parameters*) [static]

This operation makes Photon call your custom web-service by name (path) with the given parameters.

This is a server-side feature which must be setup in the Photon Cloud Dashboard prior to use.
See the Turnbased Feature Overview for a short intro.
http://doc.photonengine.com/en/turnbased/current/getting-started/feature-overview
br/> The Parameters will be converted into JSon format, so make sure your parameters are compatible.

See PhotonNetworkingMessage.OnWebRpcResponse on how to get a response.

It's important to understand that the OperationResponse only tells if the WebRPC could be called. The content of the response contains any values your web-service sent and the error/success code. In case the web-service failed, an error code and a debug message are usually inside the OperationResponse.

The class WebRpcResponse is a helper-class that extracts the most valuable content from the WebRPC response.

Example callback implementation:

```
public void OnWebRpcResponse(OperationResponse response)
{
    WebRpcResponse webResponse = new WebRpcResponse(operationResponse);
    if (webResponse.ReturnCode != 0) { //...
    }


    switch (webResponse.Name) { //...
    }
    // and so on
}
```

8.59.3 Member Data Documentation

8.59.3.1 float PhotonNetwork.BackgroundTimeout = 0.0f [static]

Defines after how many seconds PUN will close a connection, after Unity's OnApplicationPause(true) call.

The value is set in seconds. Set a value greater than 0.001f, if you want to disconnect in background. Default: 0.0f.

Note: Some platforms (e.g. iOS) don't allow to keep a connection while the app is in background. In those cases, this value does not change anything.

Unity's OnApplicationPause() callback is broken in some exports (Android) of some Unity versions. Make sure OnApplicationPause() gets the callbacks you'd expect on the platform you target! Check PhotonHandler.On↩ ApplicationPause(bool pause), to see the implementation.

8.59.3.2 bool PhotonNetwork.InstantiateInRoomOnly = true [static]

If true, Instantiate methods will check if you are in a room and fail if you are not.

Instantiating anything outside of a specific room is very likely to break things. Turn this off only if you know what you do.

8.59.3.3 PhotonLogLevel PhotonNetwork.logLevel = PhotonLogLevel.ErrorsOnly [static]

Network log level.

Controls how verbose PUN is.

8.59.3.4 readonly int PhotonNetwork.MAX_VIEW_IDS = 1000 [static]

The maximum number of assigned PhotonViews *per player* (or scene).

See the General Documentation topic "Limitations" on how to raise this limitation.

8.59.3.5 int PhotonNetwork.maxConnections [static]

Only used in Unity Networking. In PUN, set the number of players in PhotonNetwork.CreateRoom.

8.59.3.6 EventCallback PhotonNetwork.OnEventCall [static]

Register your RaiseEvent handling methods here by using "+=".

Any eventCode $<$ 200 will be forwarded to your delegate(s).

RaiseEvent

8.59.3.7 ServerSettings PhotonNetwork.PhotonServerSettings = (ServerSettings)Resources.Load(PhotonNetwork.↩ serverSettingsAssetFile, typeof(ServerSettings)) [static]

Serialized server settings, written by the Setup Wizard for use in ConnectUsingSettings.

8.59.3.8 float PhotonNetwork.precisionForFloatSynchronization = 0.01f [static]

The minimum difference between floats before we send it via a PhotonView's OnSerialize/ObservingComponent.

8.59.3.9 float PhotonNetwork.precisionForQuaternionSynchronization = 1.0f [static]

The minimum angle that a rotation needs to change before we send it via a PhotonView's OnSerialize/Observing↩ Component.

8.59.3.10 float PhotonNetwork.precisionForVectorSynchronization = 0.000099f [static]

The minimum difference that a Vector2 or Vector3(e.g.

a transforms rotation) needs to change before we send it via a PhotonView's OnSerialize/ObservingComponent.

Note that this is the sqrMagnitude. E.g. to send only after a 0.01 change on the Y-axix, we use 0.01f∗0.01f=0.0001f. As a remedy against float inaccuracy we use 0.000099f instead of 0.0001f.

8.59.3.11 Dictionary<string, GameObject> PhotonNetwork.PrefabCache = new Dictionary<string, GameObject>() [static]

Keeps references to GameObjects for frequent instantiation (out of memory instead of loading the Resources).

You should be able to modify the cache anytime you like, except while Instantiate is used. Best do it only in the main-Thread.

8.59.3.12 HashSet<GameObject> PhotonNetwork.SendMonoMessageTargets [static]

If not null, this is the (exclusive) list of GameObjects that get called by PUN SendMonoMessage().

For all callbacks defined in PhotonNetworkingMessage, PUN will use SendMonoMessage and call FindObjects↩ OfType() to find all scripts and GameObjects that might want a callback by PUN.

PUN callbacks are not very frequent (in-game, property updates are most frequent) but FindObjectsOfType is time consuming and with a large number of GameObjects, performance might suffer.

Optionally, SendMonoMessageTargets can be used to supply a list of target GameObjects. This skips the Find↩ ObjectsOfType() but any GameObject that needs callbacks will have to Add itself to this list.

If null, the default behaviour is to do a SendMessage on each GameObject with a MonoBehaviour.

8.59.3.13 Type PhotonNetwork.SendMonoMessageTargetType = typeof(MonoBehaviour) [static]

Defines which classes can contain PUN Callback implementations.

This provides the option to optimize your runtime for speed.
The more specific this Type is, the fewer classes will be checked with reflection for callback methods.

8.59.3.14 bool PhotonNetwork.UsePrefabCache = true [static]

While enabled (true), Instantiate uses PhotonNetwork.PrefabCache to keep game objects in memory (improving instantiation of the same prefab).

Setting UsePrefabCache to false during runtime will not clear PrefabCache but will ignore it right away. You could clean and modify the cache yourself. Read its comments.

8.59.3.15 bool PhotonNetwork.UseRpcMonoBehaviourCache [static]

While enabled, the MonoBehaviours on which we call RPCs are cached, avoiding costly GetComponents<Mono↩ Behaviour>() calls.

RPCs are called on the MonoBehaviours of a target PhotonView. Those have to be found via GetComponents.

When set this to true, the list of MonoBehaviours gets cached in each PhotonView. You can use photonView.↩ RefreshRpcMonoBehaviourCache() to manually refresh a PhotonView's list of MonoBehaviours on demand (when a new MonoBehaviour gets added to a networked GameObject, e.g.).

8.59.3.16 const string PhotonNetwork.versionPUN = "1.65"

Version number of PUN. Also used in GameVersion to separate client version from each other.

8.59.4 Property Documentation

8.59.4.1 AuthenticationValues PhotonNetwork.AuthValues [static], [get], [set]

A user's authentication values used during connect for Custom Authentication with Photon (and a custom service/community).

Set these before calling Connect if you want custom authentication.

If authentication fails for any values, PUN will call your implementation of OnCustomAuthenticationFailed(string debugMsg). See: PhotonNetworkingMessage.OnCustomAuthenticationFailed

8.59.4.2 bool PhotonNetwork.autoCleanUpPlayerObjects [static], [get], [set]

This setting defines per room, if network-instantiated GameObjects (with PhotonView) get cleaned up when the creator of it leaves.

This setting is done per room. It can't be changed in the room and it will override the settings of individual clients.

If room.AutoCleanUp is enabled in a room, the PUN clients will destroy a player's GameObjects on leave. This includes GameObjects manually instantiated (via RPCs, e.g.). When enabled, the server will clean RPCs, instantiated GameObjects and PhotonViews of the leaving player, too. and Players who join after someone left, won't get the events of that player anymore.

Under the hood, this setting is stored as a Custom Room Property. Enabled by default.

8.59.4.3 bool PhotonNetwork.autoJoinLobby [static],[get],[set]

Set in PhotonServerSettings asset.

Defines if the PhotonNetwork should join the "lobby" when connected to the Master server.

If this is false, OnConnectedToMaster() will be called when connection to the Master is available. OnJoinedLobby() will NOT be called if this is false.

Enabled by default.

The room listing will not become available. Rooms can be created and joined (randomly) without joining the lobby (and getting sent the room list).

8.59.4.4 bool PhotonNetwork.automaticallySyncScene [static],[get],[set]

Defines if all clients in a room should load the same level as the Master Client (if that used PhotonNetwork.Load↩ Level).

To synchronize the loaded level, the Master Client should use PhotonNetwork.LoadLevel. All clients will load the new scene when they get the update or when they join.

Internally, a Custom Room Property is set for the loaded scene. When a client reads that and is not in the same scene yet, it will immediately pause the Message Queue (PhotonNetwork.isMessageQueueRunning = false) and load. When the scene finished loading, PUN will automatically re-enable the Message Queue.

8.59.4.5 bool PhotonNetwork.connected [static],[get]

False until you connected to Photon initially.

True in offline mode, while connected to any server and even while switching servers.

8.59.4.6 bool PhotonNetwork.connectedAndReady [static],[get]

A refined version of connected which is true only if your connection to the server is ready to accept operations like join, leave, etc.

8.59.4.7 bool PhotonNetwork.connecting [static],[get]

True when you called ConnectUsingSettings (or similar) until the low level connection to Photon gets established.

8.59.4.8 ConnectionState PhotonNetwork.connectionState [static],[get]

Simplified connection state

8.59.4.9 PeerState PhotonNetwork.connectionStateDetailed [static], [get]

Detailed connection state (ignorant of PUN, so it can be "disconnected" while switching servers).

In OfflineMode, this is PeerState.Joined (after create/join) or it is ConnectedToMaster in all other cases.

8.59.4.10 int PhotonNetwork.countOfPlayers [static], [get]

The count of players currently using this application (available on MasterServer in 5sec intervals).

8.59.4.11 int PhotonNetwork.countOfPlayersInRooms [static], [get]

Count of users currently playing your app in some room (sent every 5sec by Master Server).

Use playerList.Count to get the count of players in the room you're in!

8.59.4.12 int PhotonNetwork.countOfPlayersOnMaster [static], [get]

The count of players currently looking for a room (available on MasterServer in 5sec intervals).

8.59.4.13 int PhotonNetwork.countOfRooms [static], [get]

The count of rooms currently in use (available on MasterServer in 5sec intervals).

While inside the lobby you can also check the count of listed rooms as: PhotonNetwork.GetRoomList().Length. Since PUN v1.25 this is only based on the statistic event Photon sends (counting all rooms).

8.59.4.14 bool PhotonNetwork.CrcCheckEnabled [static], [get], [set]

Crc checks can be useful to detect and avoid issues with broken datagrams. Can be enabled while not connected.

8.59.4.15 bool PhotonNetwork.EnableLobbyStatistics [static], [get], [set]

Set in PhotonServerSettings asset.

Enable to get a list of active lobbies from the Master Server.

Lobby Statistics can be useful if a game uses multiple lobbies and you want to show activity of each to players.

This value is stored in PhotonServerSettings.

PhotonNetwork.LobbyStatistics is updated when you connect to the Master Server. There is also a callback Pun↩ Behaviour.

8.59.4.16 List<FriendInfo> PhotonNetwork.Friends [static],[get],[set]

Read-only list of friends, their online status and the room they are in.

Null until initialized by a FindFriends call.

Do not modify this list! It is internally handled by FindFriends and only available to read the values. The value of FriendsListAge tells you how old the data is in milliseconds.

Don't get this list more often than useful (> 10 seconds). In best case, keep the list you fetch really short. You could (e.g.) get the full list only once, then request a few updates only for friends who are online. After a while (e.g. 1 minute), you can get the full list again (to update online states).

8.59.4.17 int PhotonNetwork.FriendsListAge [static],[get]

Age of friend list info (in milliseconds).

It's 0 until a friend list is fetched.

8.59.4.18 string PhotonNetwork.gameVersion [static],[get],[set]

Version string for your this build.

Can be used to separate incompatible clients. Sent during connect.

This is only sent when you connect so that is also the place you set it usually (e.g. in ConnectUsingSettings).

8.59.4.19 bool PhotonNetwork.inRoom [static],[get]

Is true while being in a room (connectionStateDetailed == PeerState.Joined).

Many actions can only be executed in a room, like Instantiate or Leave, etc. You can join a room in offline mode, too.

8.59.4.20 bool PhotonNetwork.insideLobby [static],[get]

True while this client is in a lobby.

Implement IPunCallbacks.OnReceivedRoomListUpdate() for a notification when the list of rooms becomes available or updated.

You are automatically leaving any lobby when you join a room! Lobbies only exist on the Master Server (whereas rooms are handled by Game Servers).

8.59.4.21 bool PhotonNetwork.isMasterClient [static],[get]

Are we the master client?

8.59.4.22 bool PhotonNetwork.isMessageQueueRunning [static],[get],[set]

Can be used to pause dispatching of incoming evtents (RPCs, Instantiates and anything else incoming).

While IsMessageQueueRunning == false, the OnPhotonSerializeView calls are not done and nothing is sent by a client. Also, incoming messages will be queued until you re-activate the message queue.

This can be useful if you first want to load a level, then go on receiving data of PhotonViews and RPCs. The client will go on receiving and sending acknowledgements for incoming packages and your RPCs/Events. This adds "lag" and can cause issues when the pause is longer, as all incoming messages are just queued.

8.59.4.23 bool PhotonNetwork.isNonMasterClientInRoom [static],[get]

True if we are in a room (client) and NOT the room's masterclient

8.59.4.24 TypedLobby PhotonNetwork.lobby [static],[get],[set]

The lobby that will be used when PUN joins a lobby or creates a game.

The default lobby uses an empty string as name. PUN will enter a lobby on the Master Server if autoJoinLobby is set to true. So when you connect or leave a room, PUN automatically gets you into a lobby again.

Check PhotonNetwork.insideLobby if the client is in a lobby. (masterServerAndLobby)

8.59.4.25 List<TypedLobbyInfo> PhotonNetwork.LobbyStatistics [static],[get]

If turned on, the Master Server will provide information about active lobbies for this application.

Lobby Statistics can be useful if a game uses multiple lobbies and you want to show activity of each to players. Per lobby, you get: name, type, room- and player-count.

PhotonNetwork.LobbyStatistics is updated when you connect to the Master Server. There is also a callback Pun↩ Behaviour.OnLobbyStatisticsUpdate, which you should implement to update your UI (e.g.).

Lobby Statistics are not turned on by default. Enable them in the PhotonServerSettings file of the project.

8.59.4.26 PhotonPlayer PhotonNetwork.masterClient [static],[get]

The Master Client of the current room or null (outside of rooms).

Can be used as "authoritative" client/player to make descisions, run AI or other.

If the current Master Client leaves the room (leave/disconnect), the server will quickly assign someone else. If the current Master Client times out (closed app, lost connection, etc), messages sent to this client are effectively lost for the others! A timeout can take 10 seconds in which no Master Client is active.

Implement the method IPunCallbacks.OnMasterClientSwitched to be called when the Master Client switched.

Use PhotonNetwork.SetMasterClient, to switch manually to some other player / client.

With offlineMode == true, this always returns the PhotonNetwork.player.

8.59.4.27 int PhotonNetwork.MaxResendsBeforeDisconnect [static], [get], [set]

Defines the number of times a reliable message can be resent before not getting an ACK for it will trigger a disconnect.

Default: 5.

Less resends mean quicker disconnects, while more can lead to much more lag without helping. Min: 3. Max: 10.

8.59.4.28 bool PhotonNetwork.NetworkStatisticsEnabled [static], [get], [set]

Enables or disables the collection of statistics about this client's traffic.

If you encounter issues with clients, the traffic stats are a good starting point to find solutions. Only with enabled stats, you can use GetVitalStats

8.59.4.29 bool PhotonNetwork.offlineMode [static], [get], [set]

Offline mode can be set to re-use your multiplayer code in singleplayer game modes.

When this is on PhotonNetwork will not create any connections and there is near to no overhead. Mostly usefull for reusing RPC's and PhotonNetwork.Instantiate

8.59.4.30 PhotonPlayer [ ] PhotonNetwork.otherPlayers [static], [get]

The list of players in the current room, excluding the local player.

This list is only valid, while the client is in a room. It automatically gets updated when someone joins or leaves.

This can be used to list all other players in a room. Each player's PhotonPlayer.customProperties are accessible (set and synchronized via PhotonPlayer.SetCustomProperties).

You can use a PhotonPlayer.TagObject to store an arbitrary object for reference. That is not synchronized via the network.

8.59.4.31 int PhotonNetwork.PacketLossByCrcCheck [static], [get]

If CrcCheckEnabled, this counts the incoming packages that don't have a valid CRC checksum and got rejected.

8.59.4.32 PhotonPlayer PhotonNetwork.player [static], [get]

The local PhotonPlayer.

Always available and represents this player. CustomProperties can be set before entering a room and will be synced as well.

8.59.4.33 PhotonPlayer [] PhotonNetwork.playerList [static],[get]

The list of players in the current room, including the local player.

This list is only valid, while the client is in a room. It automatically gets updated when someone joins or leaves.

This can be used to list all players in a room. Each player's PhotonPlayer.customProperties are accessible (set and synchronized via PhotonPlayer.SetCustomProperties).

You can use a PhotonPlayer.TagObject to store an arbitrary object for reference. That is not synchronized via the network.

8.59.4.34 string PhotonNetwork.playerName [static],[get],[set]

Set to synchronize the player's nickname with everyone in the room(s) you enter.

This sets PhotonPlayer.name.

The playerName is just a nickname and does not have to be unique or backed up with some account.
Set the value any time (e.g. before you connect) and it will be available to everyone you play with.
Access the names of players by: PhotonPlayer.name.
PhotonNetwork.otherPlayers is a list of other players - each contains the playerName the remote player set.

8.59.4.35 IPunPrefabPool PhotonNetwork.PrefabPool [static],[get],[set]

An Object Pool can be used to keep and reuse instantiated object instances.

It replaced Unity's default Instantiate and Destroy methods.

To use a GameObject pool, implement IPunPrefabPool and assign it here. Prefabs are identified by name.

8.59.4.36 int PhotonNetwork.QuickResends [static],[get],[set]

In case of network loss, reliable messages can be repeated quickly up to 3 times.

When reliable messages get lost more than once, subsequent repeats are delayed a bit to allow the network to recover.
With this option, the repeats 2 and 3 can be sped up. This can help avoid timeouts but also it increases the speed in which gaps are closed.
When you set this, increase PhotonNetwork.MaxResendsBeforeDisconnect to 6 or 7.

8.59.4.37 int PhotonNetwork.ResentReliableCommands [static],[get]

Count of commands that got repeated (due to local repeat-timing before an ACK was received).

If this value increases a lot, there is a good chance that a timeout disconnect will happen due to bad conditions.

8.59.4.38 Room PhotonNetwork.room [static],[get]

Get the room we're currently in.

Null if we aren't in any room.

8.59.4.39 int PhotonNetwork.sendRate [static],[get],[set]

Defines how many times per second PhotonNetwork should send a package.

If you change this, do not forget to also change 'sendRateOnSerialize'.

Less packages are less overhead but more delay. Setting the sendRate to 50 will create up to 50 packages per second (which is a lot!). Keep your target platform in mind: mobile networks are slower and less reliable.

8.59.4.40 int PhotonNetwork.sendRateOnSerialize [static],[get],[set]

Defines how many times per second OnPhotonSerialize should be called on PhotonViews.

Choose this value in relation to PhotonNetwork.sendRate. OnPhotonSerialize will create updates and messages to be sent.
A lower rate takes up less performance but will cause more lag.

8.59.4.41 ServerConnection PhotonNetwork.Server [static],[get]

The server (type) this client is currently connected or connecting to.

Photon uses 3 different roles of servers: Name Server, Master Server and Game Server.

8.59.4.42 string PhotonNetwork.ServerAddress [static],[get]

Currently used server address (no matter if master or game server).

8.59.4.43 int PhotonNetwork.ServerTimestamp [static],[get]

The current server's millisecond timestamp.

This can be useful to sync actions and events on all clients in one room. The timestamp is based on the server's Environment.TickCount.

It will overflow from a positive to a negative value every so often, so be careful to use only time-differences to check the time delta when things happen.

This is the basis for PhotonNetwork.time.

8.59.4.44 double PhotonNetwork.time [static],[get]

Photon network time, synched with the server.

v1.55
This time value depends on the server's Environment.TickCount. It is different per server but inside a Room, all clients should have the same value (Rooms are on one server only).
This is not a DateTime!

Use this value with care:
It can start with any positive value.
It will "wrap around" from 4294967.295 to 0!

8.59.4.45 int PhotonNetwork.unreliableCommandsLimit [static],[get],[set]

Used once per dispatch to limit unreliable commands per channel (so after a pause, many channels can still cause a lot of unreliable commands)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonNetwork.cs

8.60 PhotonPingManager Class Reference

Public Member Functions

- IEnumerator PingSocket (Region region)

Static Public Member Functions

- static string ResolveHost (string hostName)

  Attempts to resolve a hostname into an IP string or returns empty string if that fails.

Public Attributes

- bool UseNative

Static Public Attributes

- static int Attempts = 5
- static bool IgnoreInitialAttempt = true
- static int MaxMilliseconsPerPing = 800

Properties

- Region BestRegion [get]
- bool Done [get]

8.60.1 Member Function Documentation

8.60.1.1 IEnumerator PhotonPingManager.PingSocket (Region *region*)

Affected by frame-rate of app, as this Coroutine checks the socket for a result once per frame.

8.60.1.2 static string PhotonPingManager.ResolveHost (string *hostName*) [static]

Attempts to resolve a hostname into an IP string or returns empty string if that fails.

Parameters

hostName	Hostname to resolve.

Returns

IP string or empty string if resolution fails

8.60.2 Member Data Documentation

8.60.2.1 int PhotonPingManager.Attempts = 5 [static]

8.60.2.2 bool PhotonPingManager.IgnoreInitialAttempt = true [static]

8.60.2.3 int PhotonPingManager.MaxMilliseconsPerPing = 800 [static]

8.60.2.4 bool PhotonPingManager.UseNative

8.60.3 Property Documentation

8.60.3.1 Region PhotonPingManager.BestRegion [get]

8.60.3.2 bool PhotonPingManager.Done [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PingCloudRegions.cs

8.61 PhotonPlayer Class Reference

Summarizes a "player" within a room, identified (in that room) by actorID.

Public Member Functions

- PhotonPlayer (bool isLocal, int actorID, string name)

  Creates a PhotonPlayer instance.
- override bool Equals (object p)

  Makes PhotonPlayer comparable
- override int GetHashCode ()
- void SetCustomProperties (Hashtable propertiesToSet, Hashtable expectedValues=null, bool webForward=false)

  Updates the this player's Custom Properties with new/updated key-values.
- PhotonPlayer Get (int id)
- PhotonPlayer GetNext ()
- PhotonPlayer GetNextFor (PhotonPlayer currentPlayer)
- PhotonPlayer GetNextFor (int currentPlayerId)
- override string ToString ()

  Brief summary string of the PhotonPlayer.
- string ToStringFull ()

  String summary of the PhotonPlayer: player.ID, name and all custom properties of this user.

Static Public Member Functions

- static PhotonPlayer Find (int ID)

  Try to get a specific player by id.

Public Attributes

- readonly bool isLocal = false

  Only one player is controlled by each client. Others are not local.
- object TagObject

  Can be used to store a reference that's useful to know "by player".

Protected Member Functions

- PhotonPlayer (bool isLocal, int actorID, Hashtable properties)

  Internally used to create players from event Join

Properties

- int ID `[get]`

  This player's actorID
- string name `[get, set]`

  Nickname of this player.
- bool isMasterClient `[get]`

  True if this player is the Master Client of the current room.
- Hashtable customProperties `[get, set]`

  Read-only cache for custom properties of player.
- Hashtable allProperties `[get]`

  Creates a Hashtable with all properties (custom and "well known" ones).

8.61.1 Detailed Description

Summarizes a "player" within a room, identified (in that room) by actorID.

Each player has an actorId (or ID), valid for that room. It's -1 until it's assigned by server. Each client can set it's player's custom properties with SetCustomProperties, even before being in a room. They are synced when joining a room.

8.61.2 Constructor & Destructor Documentation

8.61.2.1 PhotonPlayer.PhotonPlayer (bool *isLocal,* int *actorID,* string *name*)

Creates a PhotonPlayer instance.

Parameters

isLocal	If this is the local peer's player (or a remote one).
actorID	ID or ActorNumber of this player in the current room (a shortcut to identify each player in room)
name	Name of the player (a "well known property").

8.61.2.2 PhotonPlayer.PhotonPlayer (bool *isLocal,* int *actorID,* Hashtable *properties*) [protected]

Internally used to create players from event Join

8.61.3 Member Function Documentation

8.61.3.1 override bool PhotonPlayer.Equals (object *p*)

Makes PhotonPlayer comparable

8.61.3.2 static PhotonPlayer PhotonPlayer.Find (int *ID*) [static]

Try to get a specific player by id.

Parameters

ID	ActorID

Returns

The player with matching actorID or null, if the actorID is not in use.

8.61.3.3 PhotonPlayer PhotonPlayer.Get (int *id*)

8.61.3.4 override int PhotonPlayer.GetHashCode ( )

8.61.3.5 PhotonPlayer PhotonPlayer.GetNext ( )

8.61.3.6 PhotonPlayer PhotonPlayer.GetNextFor (PhotonPlayer *currentPlayer*)

8.61.3.7 PhotonPlayer PhotonPlayer.GetNextFor (int *currentPlayerId*)

8.61.3.8 void PhotonPlayer.SetCustomProperties (Hashtable *propertiesToSet*, Hashtable *expectedValues* = `null`, bool *webForward* = `false`)

Updates the this player's Custom Properties with new/updated key-values.

Custom Properties are a key-value set (Hashtable) which is available to all players in a room. They can relate to the room or individual players and are useful when only the current value of something is of interest. For example: The map of a room. All keys must be strings.

The Room and the PhotonPlayer class both have SetCustomProperties methods. Also, both classes offer access to current key-values by: customProperties.

Always use SetCustomProperties to change values. To reduce network traffic, set only values that actually changed. New properties are added, existing values are updated. Other values will not be changed, so only provide values that changed or are new.

To delete a named (custom) property of this room, use null as value.

Locally, SetCustomProperties will update it's cache without delay. Other clients are updated through Photon (the server) with a fitting operation.

Check and Swap

SetCustomProperties have the option to do a server-side Check-And-Swap (CAS): Values only get updated if the expected values are correct. The expectedValues can be different key/values than the propertiesToSet. So you can check some key and set another key's value (if the check succeeds).

If the client's knowledge of properties is wrong or outdated, it can't set values with CAS. This can be useful to keep players from concurrently setting values. For example: If all players try to pickup some card or item, only one should get it. With CAS, only the first SetProperties gets executed server-side and any other (sent at the same time) fails.

The server will broadcast successfully changed values and the local "cache" of customProperties only gets updated after a roundtrip (if anything changed).

You can do a "webForward": Photon will send the changed properties to a WebHook defined for your application.

OfflineMode

While PhotonNetwork.offlineMode is true, the expectedValues and webForward parameters are ignored. In Offline↩ Mode, the local customProperties values are immediately updated (without the roundtrip).

Parameters

propertiesToSet	The new properties to be set.
expectedValues	At least one property key/value set to check server-side. Key and value must be correct. Ignored in OfflineMode.
webForward	Set to true, to forward the set properties to a WebHook, defined for this app (in Dashboard). Ignored in OfflineMode.

8.61.3.9 override string PhotonPlayer.ToString ( )

Brief summary string of the PhotonPlayer.

Includes name or player.ID and if it's the Master Client.

8.61.3.10 string PhotonPlayer.ToStringFull ( )

String summary of the PhotonPlayer: player.ID, name and all custom properties of this user.

Use with care and not every frame! Converts the customProperties to a String on every single call.

8.61.4 Member Data Documentation

8.61.4.1 readonly bool PhotonPlayer.isLocal = false

Only one player is controlled by each client. Others are not local.

8.61.4.2 object PhotonPlayer.TagObject

Can be used to store a reference that's useful to know "by player".

Example: Set a player's character as Tag by assigning the GameObject on Instantiate.

8.61.5 Property Documentation

8.61.5.1 Hashtable PhotonPlayer.allProperties [get]

Creates a Hashtable with all properties (custom and "well known" ones).

If used more often, this should be cached.

8.61.5.2 Hashtable PhotonPlayer.customProperties [get], [set]

Read-only cache for custom properties of player.

Set via PhotonPlayer.SetCustomProperties.

Don't modify the content of this Hashtable. Use SetCustomProperties and the properties of this class to modify values. When you use those, the client will sync values with the server.

SetCustomProperties

8.61.5.3 int PhotonPlayer.ID [get]

This player's actorID

8.61.5.4 bool PhotonPlayer.isMasterClient [get]

True if this player is the Master Client of the current room.

See also: PhotonNetwork.masterClient.

8.61.5.5 string PhotonPlayer.name [get], [set]

Nickname of this player.

Set the PhotonNetwork.playerName to make the name synchronized in a room.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonPlayer.cs

8.62 PhotonRigidbody2DView Class Reference

This class helps you to synchronize the velocities of a 2d physics RigidBody.

Inherits MonoBehaviour.

8.62.1 Detailed Description

This class helps you to synchronize the velocities of a 2d physics RigidBody.

Note that only the velocities are synchronized and because Unitys physics engine is not deterministic (ie. the results aren't always the same on all computers) - the actual positions of the objects may go out of sync. If you want to have the position of this object the same on all clients, you should also add a PhotonTransformView to synchronize the position. Simply add the component to your GameObject and make sure that the PhotonRigidbody2DView is added to the list of observed components

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonRigidbody2DView.cs

8.63 PhotonRigidbody2DViewEditor Class Reference

Inherits Editor.

Public Member Functions

- override void OnInspectorGUI ()

8.63.1 Member Function Documentation

8.63.1.1 override void PhotonRigidbody2DViewEditor.OnInspectorGUI ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/Views/PhotonRigidbody2DViewEditor.cs

8.64 PhotonRigidbodyView Class Reference

This class helps you to synchronize the velocities of a physics RigidBody.

Inherits MonoBehaviour.

8.64.1 Detailed Description

This class helps you to synchronize the velocities of a physics RigidBody.

Note that only the velocities are synchronized and because Unitys physics engine is not deterministic (ie. the results aren't always the same on all computers) - the actual positions of the objects may go out of sync. If you want to have the position of this object the same on all clients, you should also add a PhotonTransformView to synchronize the position. Simply add the component to your GameObject and make sure that the PhotonRigidbodyView is added to the list of observed components

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonRigidbodyView.cs

8.65 PhotonRigidbodyViewEditor Class Reference

Inherits Editor.

Public Member Functions

- override void OnInspectorGUI ()

8.65.1 Member Function Documentation

8.65.1.1 override void PhotonRigidbodyViewEditor.OnInspectorGUI ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/Views/PhotonRigidbodyViewEditor.cs

8.66 PhotonStatsGui Class Reference

Basic GUI to show traffic and health statistics of the connection to Photon, toggled by shift+tab.

Inherits MonoBehaviour.

Public Member Functions

- void Start ()
- void Update ()

  Checks for shift+tab input combination (to toggle statsOn).
- void OnGUI ()
- void TrafficStatsWindow (int windowID)

Public Attributes

- bool statsWindowOn = true

  Shows or hides GUI (does not affect if stats are collected).
- bool statsOn = true

  Option to turn collecting stats on or off (used in Update()).
- bool healthStatsVisible

  Shows additional "health" values of connection.
- bool trafficStatsOn

  Shows additional "lower level" traffic stats.
- bool buttonsOn

  Show buttons to control stats and reset them.
- Rect statsRect = new Rect(0, 100, 200, 50)

  Positioning rect for window.
- int WindowId = 100

  Unity GUI Window ID (must be unique or will cause issues).

8.66.1 Detailed Description

Basic GUI to show traffic and health statistics of the connection to Photon, toggled by shift+tab.

The shown health values can help identify problems with connection losses or performance. Example: If the time delta between two consecutive SendOutgoingCommands calls is a second or more, chances rise for a disconnect being caused by this (because acknowledgements to the server need to be sent in due time).

8.66.2 Member Function Documentation

8.66.2.1 void PhotonStatsGui.OnGUI ( )

8.66.2.2 void PhotonStatsGui.Start ( )

8.66.2.3 void PhotonStatsGui.TrafficStatsWindow (int *windowID*)

8.66.2.4 void PhotonStatsGui.Update ( )

Checks for shift+tab input combination (to toggle statsOn).

8.66.3 Member Data Documentation

8.66.3.1 bool PhotonStatsGui.buttonsOn

Show buttons to control stats and reset them.

8.66.3.2 bool PhotonStatsGui.healthStatsVisible

Shows additional "health" values of connection.

8.66.3.3 bool PhotonStatsGui.statsOn = true

Option to turn collecting stats on or off (used in Update()).

8.66.3.4 Rect PhotonStatsGui.statsRect = new Rect(0, 100, 200, 50)

Positioning rect for window.

8.66.3.5 bool PhotonStatsGui.statsWindowOn = true

Shows or hides GUI (does not affect if stats are collected).

8.66.3.6 bool PhotonStatsGui.trafficStatsOn

Shows additional "lower level" traffic stats.

8.66.3.7 int PhotonStatsGui.WindowId = 100

Unity GUI Window ID (must be unique or will cause issues).

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonStatsGui.cs

8.67 PhotonStream Class Reference

This container is used in OnPhotonSerializeView() to either provide incoming data of a PhotonView or for you to provide it.

Public Member Functions

- PhotonStream (bool write, object[ ] incomingData)

  Creates a stream and initializes it.
- object ReceiveNext ()

  Read next piece of data from the stream when isReading is true.
- object PeekNext ()

  Read next piece of data from the stream without advancing the "current" item.
- void SendNext (object obj)

  Add another piece of data to send it when isWriting is true.
- object[ ] ToArray ()

  Turns the stream into a new object[].
- void Serialize (ref bool myBool)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref int myInt)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref string value)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref char value)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref short value)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref float obj)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref PhotonPlayer obj)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref Vector3 obj)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref Vector2 obj)

  Will read or write the value, depending on the stream's isWriting value.
- void Serialize (ref Quaternion obj)

  Will read or write the value, depending on the stream's isWriting value.

Properties

- bool isWriting `[get]`

  If true, this client should add data to the stream to send it.
- bool isReading `[get]`

  If true, this client should read data send by another client.
- int Count `[get]`

  Count of items in the stream.

8.67.1 Detailed Description

This container is used in OnPhotonSerializeView() to either provide incoming data of a PhotonView or for you to provide it.

The isWriting property will be true if this client is the "owner" of the PhotonView (and thus the GameObject). Add data to the stream and it's sent via the server to the other players in a room. On the receiving side, isWriting is false and the data should be read.

Send as few data as possible to keep connection quality up. An empty PhotonStream will not be sent.

Use either Serialize() for reading and writing or SendNext() and ReceiveNext(). The latter two are just explicit read and write methods but do about the same work as Serialize(). It's a matter of preference which methods you use.

See also

PhotonNetworkingMessage

8.67.2 Constructor & Destructor Documentation

8.67.2.1 PhotonStream.PhotonStream (bool *write,* object[ ] *incomingData*)

Creates a stream and initializes it.

Used by PUN internally.

8.67.3 Member Function Documentation

8.67.3.1 object PhotonStream.PeekNext ( )

Read next piece of data from the stream without advancing the "current" item.

8.67.3.2 object PhotonStream.ReceiveNext ( )

Read next piece of data from the stream when isReading is true.

8.67.3.3 void PhotonStream.SendNext (object *obj*)

Add another piece of data to send it when isWriting is true.

8.67.3.4 void PhotonStream.Serialize (ref bool *myBool*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.5 void PhotonStream.Serialize (ref int *myInt*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.6 void PhotonStream.Serialize (ref string *value*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.7 void PhotonStream.Serialize (ref char *value*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.8 void PhotonStream.Serialize (ref short *value*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.9 void PhotonStream.Serialize (ref float *obj*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.10 void PhotonStream.Serialize (ref **PhotonPlayer** *obj*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.11 void PhotonStream.Serialize (ref Vector3 *obj*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.12 void PhotonStream.Serialize (ref Vector2 *obj*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.13 void PhotonStream.Serialize (ref Quaternion *obj*)

Will read or write the value, depending on the stream's isWriting value.

8.67.3.14 object [ ] PhotonStream.ToArray ( )

Turns the stream into a new object[].

8.67.4 Property Documentation

8.67.4.1 int PhotonStream.Count [get]

Count of items in the stream.

8.67.4.2 bool PhotonStream.isReading [get]

If true, this client should read data send by another client.

8.67.4.3 bool PhotonStream.isWriting [get]

If true, this client should add data to the stream to send it.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.68 PhotonStreamQueue Class Reference

The PhotonStreamQueue helps you poll object states at higher frequencies then what PhotonNetwork.sendRate dictates and then sends all those states at once when Serialize() is called.

Public Member Functions

- PhotonStreamQueue (int sampleRate)
  Initializes a new instance of the PhotonStreamQueue class.
- void Reset ()
  Resets the PhotonStreamQueue.
- void SendNext (object obj)
  Adds the next object to the queue.
- bool HasQueuedObjects ()
  Determines whether the queue has stored any objects
- object ReceiveNext ()
  Receives the next object from the queue.
- void Serialize (PhotonStream stream)
  Serializes the specified stream.
- void Deserialize (PhotonStream stream)
  Deserializes the specified stream.

8.68.1 Detailed Description

The PhotonStreamQueue helps you poll object states at higher frequencies then what PhotonNetwork.sendRate dictates and then sends all those states at once when Serialize() is called.

On the receiving end you can call Deserialize() and then the stream will roll out the received object states in the same order and timeStep they were recorded in.

8.68.2 Constructor & Destructor Documentation

8.68.2.1 PhotonStreamQueue.PhotonStreamQueue (int *sampleRate*)

Initializes a new instance of the PhotonStreamQueue class.

Parameters

sampleRate	How many times per second should the object states be sampled

8.68.3 Member Function Documentation

8.68.3.1 void PhotonStreamQueue.Deserialize (PhotonStream *stream*)

Deserializes the specified stream.

Call this in your OnPhotonSerializeView method to receive the whole recorded stream.

Parameters

stream	The PhotonStream you receive as a parameter in OnPhotonSerializeView

8.68.3.2 bool PhotonStreamQueue.HasQueuedObjects ( )

Determines whether the queue has stored any objects

8.68.3.3 object PhotonStreamQueue.ReceiveNext ( )

Receives the next object from the queue.

This works just like PhotonStream.ReceiveNext

Returns

8.68.3.4 void PhotonStreamQueue.Reset ( )

Resets the PhotonStreamQueue.

You need to do this whenever the amount of objects you are observing changes

8.68.3.5 void PhotonStreamQueue.SendNext (object *obj*)

Adds the next object to the queue.

This works just like PhotonStream.SendNext

Parameters

obj	The object you want to add to the queue

8.68.3.6 void PhotonStreamQueue.Serialize (PhotonStream *stream*)

Serializes the specified stream.

Call this in your OnPhotonSerializeView method to send the whole recorded stream.

Parameters

stream	The PhotonStream you receive as a parameter in OnPhotonSerializeView

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonStreamQueue.cs

8.69 PhotonTransformView Class Reference

This class helps you to synchronize position, rotation and scale of a GameObject.

Inherits MonoBehaviour, and IPunObservable.

Public Member Functions

- void SetSynchronizedValues (Vector3 speed, float turnSpeed)

  These values are synchronized to the remote objects if the interpolation mode or the extrapolation mode SynchronizeValues is used.
- void OnPhotonSerializeView (PhotonStream stream, PhotonMessageInfo info)

  Called by PUN several times per second, so that your script can write and read synchronization data for the PhotonView.

8.69.1 Detailed Description

This class helps you to synchronize position, rotation and scale of a GameObject.

It also gives you many different options to make the synchronized values appear smooth, even when the data is only send a couple of times per second. Simply add the component to your GameObject and make sure that the PhotonTransformView is added to the list of observed components

8.69.2 Member Function Documentation

8.69.2.1 void PhotonTransformView.OnPhotonSerializeView (PhotonStream *stream,* PhotonMessageInfo *info*)

Called by PUN several times per second, so that your script can write and read synchronization data for the PhotonView.

This method will be called in scripts that are assigned as Observed component of a PhotonView.
PhotonNetwork.sendRateOnSerialize affects how often this method is called.
PhotonNetwork.sendRate affects how often packages are sent by this client.

Implementing this method, you can customize which data a PhotonView regularly synchronizes. Your code defines what is being sent (content) and how your data is used by receiving clients.

Unlike other callbacks, *OnPhotonSerializeView only gets called when it is assigned to a PhotonView* as PhotonView.observed script.

To make use of this method, the PhotonStream is essential. It will be in "writing" mode" on the client that controls a PhotonView (PhotonStream.isWriting == true) and in "reading mode" on the remote clients that just receive that the controlling client sends.

If you skip writing any value into the stream, PUN will skip the update. Used carefully, this can conserve bandwidth and messages (which have a limit per room/second).

Note that OnPhotonSerializeView is not called on remote clients when the sender does not send any update. This can't be used as "x-times per second Update()".

Implements IPunObservable.

8.69.2.2 void PhotonTransformView.SetSynchronizedValues (Vector3 *speed,* float *turnSpeed*)

These values are synchronized to the remote objects if the interpolation mode or the extrapolation mode SynchronizeValues is used.

Your movement script should pass on the current speed (in units/second) and turning speed (in angles/second) so the remote object can use them to predict the objects movement.

Parameters

speed	The current movement vector of the object in units/second.
turnSpeed	The current turn speed of the object in angles/second.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformView.cs

8.70 PhotonTransformViewEditor Class Reference

Inherits Editor.

Public Member Functions

- void OnEnable ()
- override void OnInspectorGUI ()

8.70.1 Member Function Documentation

8.70.1.1 void PhotonTransformViewEditor.OnEnable ( )

8.70.1.2 override void PhotonTransformViewEditor.OnInspectorGUI ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/Views/PhotonTransformViewEditor.cs

8.71 PhotonTransformViewPositionControl Class Reference

Public Member Functions

- PhotonTransformViewPositionControl (PhotonTransformViewPositionModel model)
- void SetSynchronizedValues (Vector3 speed, float turnSpeed)

  These values are synchronized to the remote objects if the interpolation mode or the extrapolation mode SynchronizeValues is used.
- Vector3 UpdatePosition (Vector3 currentPosition)

  Calculates the new position based on the values setup in the inspector
- Vector3 GetNetworkPosition ()

  Gets the last position that was received through the network
- Vector3 GetExtrapolatedPositionOffset ()

  Calculates an estimated position based on the last synchronized position, the time when the last position was received and the movement speed of the object
- void OnPhotonSerializeView (Vector3 currentPosition, PhotonStream stream, PhotonMessageInfo info)

8.71.1 Constructor & Destructor Documentation

8.71.1.1 PhotonTransformViewPositionControl.PhotonTransformViewPositionControl (PhotonTransformViewPositionModel *model*)

8.71.2 Member Function Documentation

8.71.2.1 Vector3 PhotonTransformViewPositionControl.GetExtrapolatedPositionOffset ( )

Calculates an estimated position based on the last synchronized position, the time when the last position was received and the movement speed of the object

Returns

Estimated position of the remote object

8.71.2.2 Vector3 PhotonTransformViewPositionControl.GetNetworkPosition ( )

Gets the last position that was received through the network

Returns

8.71.2.3 void PhotonTransformViewPositionControl.OnPhotonSerializeView (Vector3 *currentPosition,* PhotonStream *stream,* PhotonMessageInfo *info*)

8.71.2.4 void PhotonTransformViewPositionControl.SetSynchronizedValues (Vector3 *speed,* float *turnSpeed*)

These values are synchronized to the remote objects if the interpolation mode or the extrapolation mode SynchronizeValues is used.

Your movement script should pass on the current speed (in units/second) and turning speed (in angles/second) so the remote object can use them to predict the objects movement.

Parameters

speed	The current movement vector of the object in units/second.
turnSpeed	The current turn speed of the object in angles/second.

8.71.2.5 Vector3 PhotonTransformViewPositionControl.UpdatePosition (Vector3 *currentPosition*)

Calculates the new position based on the values setup in the inspector

Parameters

currentPosition	The current position.

Returns

The new position.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformViewPositionControl.cs

8.72 PhotonTransformViewPositionModel Class Reference

Public Types

- enum InterpolateOptions { InterpolateOptions.Disabled, InterpolateOptions.FixedSpeed, InterpolateOptions.EstimatedSpeed, InterpolateOptions.SynchronizeValues, InterpolateOptions.Lerp }

- enum ExtrapolateOptions { ExtrapolateOptions.Disabled, ExtrapolateOptions.SynchronizeValues, ExtrapolateOptions.EstimateSpeedAndTurn, ExtrapolateOptions.FixedSpeed }

Public Attributes

- bool SynchronizeEnabled
- bool TeleportEnabled = true
- float TeleportIfDistanceGreaterThan = 3f
- InterpolateOptions InterpolateOption = InterpolateOptions.EstimatedSpeed
- float InterpolateMoveTowardsSpeed = 1f
- float InterpolateLerpSpeed = 1f
- float InterpolateMoveTowardsAcceleration = 2
- float InterpolateMoveTowardsDeceleration = 2
- AnimationCurve InterpolateSpeedCurve
- ExtrapolateOptions ExtrapolateOption = ExtrapolateOptions.Disabled
- float ExtrapolateSpeed = 1f
- bool ExtrapolateIncludingRoundTripTime = true
- int ExtrapolateNumberOfStoredPositions = 1
- bool DrawErrorGizmo = true

8.72.1 Member Enumeration Documentation

8.72.1.1 enum PhotonTransformViewPositionModel.ExtrapolateOptions [strong]

Enumerator

Disabled

SynchronizeValues

EstimateSpeedAndTurn

FixedSpeed

8.72.1.2 enum PhotonTransformViewPositionModel.InterpolateOptions [strong]

Enumerator

Disabled

FixedSpeed

EstimatedSpeed

SynchronizeValues

Lerp

8.72.2 Member Data Documentation

8.72.2.1 bool PhotonTransformViewPositionModel.DrawErrorGizmo = true

8.72.2.2 bool PhotonTransformViewPositionModel.ExtrapolateIncludingRoundTripTime = true

8.72.2.3 int PhotonTransformViewPositionModel.ExtrapolateNumberOfStoredPositions = 1

8.72.2.4 ExtrapolateOptions PhotonTransformViewPositionModel.ExtrapolateOption = ExtrapolateOptions.Disabled

8.72.2.5 float PhotonTransformViewPositionModel.ExtrapolateSpeed = 1f

8.72.2.6 float PhotonTransformViewPositionModel.InterpolateLerpSpeed = 1f

8.72.2.7 float PhotonTransformViewPositionModel.InterpolateMoveTowardsAcceleration = 2

8.72.2.8 float PhotonTransformViewPositionModel.InterpolateMoveTowardsDeceleration = 2

8.72.2.9 float PhotonTransformViewPositionModel.InterpolateMoveTowardsSpeed = 1f

8.72.2.10 InterpolateOptions PhotonTransformViewPositionModel.InterpolateOption = InterpolateOptions.↩ EstimatedSpeed

8.72.2.11 AnimationCurve PhotonTransformViewPositionModel.InterpolateSpeedCurve

Initial value:

```
= new AnimationCurve( new Keyframe[] {
                                                                    new Keyframe( -1, 0, 0, Mathf
      .Infinity ),

                                                                    new Keyframe( 0, 1, 0, 0 ),
                                                                    new Keyframe( 1, 1, 0, 1 ),
                                                                    new Keyframe( 4, 4, 1, 0 ) }
      )
```

8.72.2.12 bool PhotonTransformViewPositionModel.SynchronizeEnabled

8.72.2.13 bool PhotonTransformViewPositionModel.TeleportEnabled = true

8.72.2.14 float PhotonTransformViewPositionModel.TeleportIfDistanceGreaterThan = 3f

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/Photon↩ Network/Views/PhotonTransformViewPositionModel.cs

8.73 PhotonTransformViewRotationControl Class Reference

Public Member Functions

- PhotonTransformViewRotationControl (PhotonTransformViewRotationModel model)
- Quaternion GetRotation (Quaternion currentRotation)
- void OnPhotonSerializeView (Quaternion currentRotation, PhotonStream stream, PhotonMessageInfo info)

8.73.1 Constructor & Destructor Documentation

8.73.1.1 PhotonTransformViewRotationControl.PhotonTransformViewRotationControl (PhotonTransformViewRotationModel *model*)

8.73.2 Member Function Documentation

8.73.2.1 Quaternion PhotonTransformViewRotationControl.GetRotation (Quaternion *currentRotation*)

8.73.2.2 void PhotonTransformViewRotationControl.OnPhotonSerializeView (Quaternion *currentRotation,* PhotonStream *stream,* PhotonMessageInfo *info*)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformViewRotationControl.cs

8.74 PhotonTransformViewRotationModel Class Reference

Public Types

- enum InterpolateOptions { InterpolateOptions.Disabled, InterpolateOptions.RotateTowards, InterpolateOptions.Lerp }

Public Attributes

- bool SynchronizeEnabled
- InterpolateOptions InterpolateOption = InterpolateOptions.RotateTowards
- float InterpolateRotateTowardsSpeed = 180
- float InterpolateLerpSpeed = 5

8.74.1 Member Enumeration Documentation

8.74.1.1 enum PhotonTransformViewRotationModel.InterpolateOptions [strong]

Enumerator

Disabled

RotateTowards

Lerp

8.74.2 Member Data Documentation

8.74.2.1 float PhotonTransformViewRotationModel.InterpolateLerpSpeed = 5

8.74.2.2 InterpolateOptions PhotonTransformViewRotationModel.InterpolateOption = InterpolateOptions.RotateTowards

8.74.2.3 float PhotonTransformViewRotationModel.InterpolateRotateTowardsSpeed = 180

8.74.2.4 bool PhotonTransformViewRotationModel.SynchronizeEnabled

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformViewRotationModel.cs

8.75 PhotonTransformViewScaleControl Class Reference

Public Member Functions

- PhotonTransformViewScaleControl (PhotonTransformViewScaleModel model)
- Vector3 GetScale (Vector3 currentScale)
- void OnPhotonSerializeView (Vector3 currentScale, PhotonStream stream, PhotonMessageInfo info)

8.75.1 Constructor & Destructor Documentation

8.75.1.1 PhotonTransformViewScaleControl.PhotonTransformViewScaleControl (PhotonTransformViewScaleModel *model*)

8.75.2 Member Function Documentation

8.75.2.1 Vector3 PhotonTransformViewScaleControl.GetScale (Vector3 *currentScale*)

8.75.2.2 void PhotonTransformViewScaleControl.OnPhotonSerializeView (Vector3 *currentScale,* PhotonStream *stream,* PhotonMessageInfo *info*)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformViewScaleControl.cs

8.76 PhotonTransformViewScaleModel Class Reference

Public Types

- enum InterpolateOptions { InterpolateOptions.Disabled, InterpolateOptions.MoveTowards, InterpolateOptions.Lerp }

Public Attributes

- bool SynchronizeEnabled
- InterpolateOptions InterpolateOption = InterpolateOptions.Disabled
- float InterpolateMoveTowardsSpeed = 1f
- float InterpolateLerpSpeed

8.76.1 Member Enumeration Documentation

8.76.1.1 enum PhotonTransformViewScaleModel.InterpolateOptions [strong]

Enumerator

Disabled

MoveTowards

Lerp

8.76.2 Member Data Documentation

8.76.2.1 float PhotonTransformViewScaleModel.InterpolateLerpSpeed

8.76.2.2 float PhotonTransformViewScaleModel.InterpolateMoveTowardsSpeed = 1f

8.76.2.3 InterpolateOptions PhotonTransformViewScaleModel.InterpolateOption = InterpolateOptions.Disabled

8.76.2.4 bool PhotonTransformViewScaleModel.SynchronizeEnabled

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformViewScaleModel.cs

8.77 PhotonView Class Reference

PUN's NetworkView replacement class for networking.

Inherits Photon.MonoBehaviour.

Public Member Functions

- void RequestOwnership ()

  Depending on the PhotonView's ownershipTransfer setting, any client can request to become owner of the PhotonView.
- void TransferOwnership (PhotonPlayer newOwner)

  Transfers the ownership of this PhotonView (and GameObject) to another player.
- void TransferOwnership (int newOwnerId)

  Transfers the ownership of this PhotonView (and GameObject) to another player.
- void SerializeView (PhotonStream stream, PhotonMessageInfo info)
- void DeserializeView (PhotonStream stream, PhotonMessageInfo info)
- void RefreshRpcMonoBehaviourCache ()

  Can be used to refesh the list of MonoBehaviours on this GameObject while PhotonNetwork.UseRpcMonoBehaviourCache is true.
- void RPC (string methodName, PhotonTargets target, params object[] parameters)

  Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).
- void RpcSecure (string methodName, PhotonTargets target, bool encrypt, params object[] parameters)

  Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).
- void RPC (string methodName, PhotonPlayer targetPlayer, params object[] parameters)

  Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).
- void RpcSecure (string methodName, PhotonPlayer targetPlayer, bool encrypt, params object[] parameters)

  Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).
- override string ToString ()

Static Public Member Functions

- static PhotonView Get (Component component)
- static PhotonView Get (GameObject gameObj)
- static PhotonView Find (int viewID)

Public Attributes

- int ownerId
- int group = 0
- int prefixBackup = -1
- Component observed
- ViewSynchronization synchronization
- OnSerializeTransform onSerializeTransformOption = OnSerializeTransform.PositionAndRotation
- OnSerializeRigidBody onSerializeRigidBodyOption = OnSerializeRigidBody.All
- OwnershipOption ownershipTransfer = OwnershipOption.Fixed

  Defines if ownership of this PhotonView is fixed, can be requested or simply taken.
- List< Component > ObservedComponents
- int instantiationId

Properties

- int prefix [get, set]
- object[] instantiationData [get, set]

  This is the instantiationData that was passed when calling PhotonNetwork.Instantiate (if that was used to spawn this prefab)*
- int viewID [get, set]

  The ID of the PhotonView.
- bool isSceneView [get]

  True if the PhotonView was loaded with the scene (game object) or instantiated with InstantiateSceneObject.
- PhotonPlayer owner [get]

  The owner of a PhotonView is the player who created the GameObject with that view.
- int OwnerActorNr [get]
- bool isOwnerActive [get]
- int CreatorActorNr [get]
- bool isMine [get]

  True if the PhotonView is "mine" and can be controlled by this client.

8.77.1 Detailed Description

PUN's NetworkView replacement class for networking.

Use it like a NetworkView.

8.77.2 Member Function Documentation

8.77.2.1 void PhotonView.DeserializeView (PhotonStream *stream,* PhotonMessageInfo *info*)

8.77.2.2 static PhotonView PhotonView.Find (int *viewID*) [static]

8.77.2.3 static PhotonView PhotonView.Get (Component *component*) [static]

8.77.2.4 static PhotonView PhotonView.Get (GameObject *gameObj*) [static]

8.77.2.5 void PhotonView.RefreshRpcMonoBehaviourCache ( )

Can be used to refesh the list of MonoBehaviours on this GameObject while PhotonNetwork.UseRpcMonoBehaviourCache is true.

Set PhotonNetwork.UseRpcMonoBehaviourCache to true to enable the caching. Uses this.GetComponents<MonoBehaviour>() to get a list of MonoBehaviours to call RPCs on (potentially).

While PhotonNetwork.UseRpcMonoBehaviourCache is false, this method has no effect, because the list is refreshed when a RPC gets called.

8.77.2.6 void PhotonView.RequestOwnership ( )

Depending on the PhotonView's ownershipTransfer setting, any client can request to become owner of the PhotonView.

Requesting ownership can give you control over a PhotonView, if the ownershipTransfer setting allows that. The current owner might have to implement IPunCallbacks.OnOwnershipRequest to react to the ownership request.

The owner/controller of a PhotonView is also the client which sends position updates of the GameObject.

8.77.2.7 void PhotonView.RPC (string *methodName,* PhotonTargets *target,* params object[ ] *parameters*)

Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).

Remote Procedure Calls are an essential tool in making multiplayer games with PUN. It enables you to make every client in a room call a specific method.

RPC calls can target "All" or the "Others". Usually, the target "All" gets executed locally immediately after sending the RPC. The "∗ViaServer" options send the RPC to the server and execute it on this client when it's sent back. Of course, calls are affected by this client's lag and that of remote clients.

Each call automatically is routed to the same PhotonView (and GameObject) that was used on the originating client.

See: Remote Procedure Calls.

Parameters

methodName	The name of a fitting method that was has the RPC attribute.
target	The group of targets and the way the RPC gets sent.
parameters	The parameters that the RPC method has (must fit this call!).

8.77.2.8 void PhotonView.RPC (string *methodName,* PhotonPlayer *targetPlayer,* params object[ ] *parameters*)

Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).

Remote Procedure Calls are an essential tool in making multiplayer games with PUN. It enables you to make every client in a room call a specific method.

This method allows you to make an RPC calls on a specific player's client. Of course, calls are affected by this client's lag and that of remote clients.

Each call automatically is routed to the same PhotonView (and GameObject) that was used on the originating client.

See: Remote Procedure Calls.

Parameters

methodName	The name of a fitting method that was has the RPC attribute.
targetPlayer	The group of targets and the way the RPC gets sent.
parameters	The parameters that the RPC method has (must fit this call!).

8.77.2.9 void PhotonView.RpcSecure (string *methodName,* PhotonTargets *target,* bool *encrypt,* params object[ ] *parameters*)

Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).

Remote Procedure Calls are an essential tool in making multiplayer games with PUN. It enables you to make every client in a room call a specific method.

RPC calls can target "All" or the "Others". Usually, the target "All" gets executed locally immediately after sending the RPC. The "∗ViaServer" options send the RPC to the server and execute it on this client when it's sent back. Of course, calls are affected by this client's lag and that of remote clients.

Each call automatically is routed to the same PhotonView (and GameObject) that was used on the originating client.

See: Remote Procedure Calls.

param name="methodName">The name of a fitting method that was has the RPC attribute.

param name="target">The group of targets and the way the RPC gets sent.

param name="encrypt">

param name="parameters">The parameters that the RPC method has (must fit this call!).

8.77.2.10 void PhotonView.RpcSecure (string *methodName,* PhotonPlayer *targetPlayer,* bool *encrypt,* params object[ ] *parameters*)

Call a RPC method of this GameObject on remote clients of this room (or on all, inclunding this client).

Remote Procedure Calls are an essential tool in making multiplayer games with PUN. It enables you to make every client in a room call a specific method.

This method allows you to make an RPC calls on a specific player's client. Of course, calls are affected by this client's lag and that of remote clients.

Each call automatically is routed to the same PhotonView (and GameObject) that was used on the originating client.

See: Remote Procedure Calls.

param name="methodName">The name of a fitting method that was has the RPC attribute.

param name="targetPlayer">The group of targets and the way the RPC gets sent.

param name="encrypt">

param name="parameters">The parameters that the RPC method has (must fit this call!).

8.77.2.11 void PhotonView.SerializeView (PhotonStream *stream,* PhotonMessageInfo *info*)

8.77.2.12 override string PhotonView.ToString ( )

8.77.2.13 void PhotonView.TransferOwnership (PhotonPlayer *newOwner*)

Transfers the ownership of this PhotonView (and GameObject) to another player.

The owner/controller of a PhotonView is also the client which sends position updates of the GameObject.

8.77.2.14 void PhotonView.TransferOwnership (int *newOwnerId*)

Transfers the ownership of this PhotonView (and GameObject) to another player.

The owner/controller of a PhotonView is also the client which sends position updates of the GameObject.

8.77.3 Member Data Documentation

8.77.3.1 int PhotonView.group = 0

8.77.3.2 int PhotonView.instantiationId

8.77.3.3 Component PhotonView.observed

8.77.3.4 List<Component> PhotonView.ObservedComponents

8.77.3.5 OnSerializeRigidBody PhotonView.onSerializeRigidBodyOption = OnSerializeRigidBody.All

8.77.3.6 OnSerializeTransform PhotonView.onSerializeTransformOption = OnSerializeTransform.PositionAnd↩ Rotation

8.77.3.7 int PhotonView.ownerId

8.77.3.8 OwnershipOption PhotonView.ownershipTransfer = OwnershipOption.Fixed

Defines if ownership of this PhotonView is fixed, can be requested or simply taken.

Note that you can't edit this value at runtime. The options are described in enum OwnershipOption. The current owner has to implement IPunCallbacks.OnOwnershipRequest to react to the ownership request.

8.77.3.9 int PhotonView.prefixBackup = -1

8.77.3.10 ViewSynchronization PhotonView.synchronization

8.77.4 Property Documentation

8.77.4.1 int PhotonView.CreatorActorNr [get]

8.77.4.2 object [] PhotonView.instantiationData [get], [set]

This is the instantiationData that was passed when calling PhotonNetwork.Instantiate* (if that was used to spawn this prefab)

8.77.4.3 bool PhotonView.isMine [get]

True if the PhotonView is "mine" and can be controlled by this client.

PUN has an ownership concept that defines who can control and destroy each PhotonView. True in case the owner matches the local PhotonPlayer. True if this is a scene photonview on the Master client.

8.77.4.4 bool PhotonView.isOwnerActive [get]

8.77.4.5 bool PhotonView.isSceneView [get]

True if the PhotonView was loaded with the scene (game object) or instantiated with InstantiateSceneObject.

Scene objects are not owned by a particular player but belong to the scene. Thus they don't get destroyed when their creator leaves the game and the current Master Client can control them (whoever that is). The ownerId is 0 (player IDs are 1 and up).

8.77.4.6 PhotonPlayer PhotonView.owner [get]

The owner of a PhotonView is the player who created the GameObject with that view.

Objects in the scene don't have an owner.

The owner/controller of a PhotonView is also the client which sends position updates of the GameObject.

Ownership can be transferred to another player with PhotonView.TransferOwnership or any player can request ownership by calling the PhotonView's RequestOwnership method. The current owner has to implement IPun↩ Callbacks.OnOwnershipRequest to react to the ownership request.

8.77.4.7 int PhotonView.OwnerActorNr [get]

8.77.4.8 int PhotonView.prefix [get], [set]

8.77.4.9 int PhotonView.viewID [get], [set]

The ID of the PhotonView.

Identifies it in a networked game (per room).

See: Network Instantiation

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/Photon↩ Network/PhotonView.cs

8.78 PhotonViewHandler Class Reference

Inherits EditorWindow.

Static Public Member Functions

- static int GetID (int idOffset, HashSet< int > usedInstanceViewNumbers)
- static void LoadAllScenesToFix ()

8.78.1 Member Function Documentation

8.78.1.1 static int PhotonViewHandler.GetID (int *idOffset,* HashSet< int > *usedInstanceViewNumbers*) [static]

8.78.1.2 static void PhotonViewHandler.LoadAllScenesToFix ( ) [static]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonViewHandler.cs

8.79 PhotonViewInspector Class Reference

Inherits Editor.

Public Member Functions

- override void OnInspectorGUI ()

8.79.1 Member Function Documentation

8.79.1.1 override void PhotonViewInspector.OnInspectorGUI ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonViewInspector.cs

8.80 PickupItem Class Reference

Makes a scene object pickup-able.

Inherits Photon.MonoBehaviour, and IPunObservable.

Public Member Functions

- void OnTriggerEnter (Collider other)
- void OnPhotonSerializeView (PhotonStream stream, PhotonMessageInfo info)

  Called by PUN several times per second, so that your script can write and read synchronization data for the PhotonView.
- void Pickup ()
- void Drop ()

  Makes use of RPC PunRespawn to drop an item (sent through server for all).
- void Drop (Vector3 newPosition)

  Makes use of RPC PunRespawn to drop an item (sent through server for all).
- void PunPickup (PhotonMessageInfo msgInfo)

Public Attributes

- float SecondsBeforeRespawn = 2

  Enables you to define a timeout when the picked up item should re-spawn at the same place it was before.
- bool PickupOnTrigger

  The most likely trigger to pick up an item.
- bool PickupIsMine

  If the pickup item is currently yours. Interesting in OnPickedUp(PickupItem item).
- MonoBehaviour OnPickedUpCall

  GameObject to send an event "OnPickedUp(PickupItem item)" to.
- bool SentPickup

  If this client sent a pickup. To avoid sending multiple pickup requests before reply is there.
- double TimeOfRespawn

  Timestamp when to respawn the item (compared to PhotonNetwork.time).

Static Public Attributes

- static HashSet< PickupItem > DisabledPickupItems = new HashSet<PickupItem>()

Properties

- int ViewID `[get]`

8.80.1 Detailed Description

Makes a scene object pickup-able.

Needs a PhotonView which belongs to the scene.

Includes a OnPhotonSerializeView implementation that

8.80.2 Member Function Documentation

8.80.2.1 void PickupItem.Drop ( )

Makes use of RPC PunRespawn to drop an item (sent through server for all).

8.80.2.2 void PickupItem.Drop (Vector3 *newPosition*)

Makes use of RPC PunRespawn to drop an item (sent through server for all).

8.80.2.3 void PickupItem.OnPhotonSerializeView (PhotonStream *stream,* PhotonMessageInfo *info*)

Called by PUN several times per second, so that your script can write and read synchronization data for the PhotonView.

This method will be called in scripts that are assigned as Observed component of a PhotonView.
PhotonNetwork.sendRateOnSerialize affects how often this method is called.
PhotonNetwork.sendRate affects how often packages are sent by this client.

Implementing this method, you can customize which data a PhotonView regularly synchronizes. Your code defines what is being sent (content) and how your data is used by receiving clients.

Unlike other callbacks, *OnPhotonSerializeView only gets called when it is assigned to a PhotonView* as PhotonView.observed script.

To make use of this method, the PhotonStream is essential. It will be in "writing" mode" on the client that controls a PhotonView (PhotonStream.isWriting == true) and in "reading mode" on the remote clients that just receive that the controlling client sends.

If you skip writing any value into the stream, PUN will skip the update. Used carefully, this can conserve bandwidth and messages (which have a limit per room/second).

Note that OnPhotonSerializeView is not called on remote clients when the sender does not send any update. This can't be used as "x-times per second Update()".

Implements IPunObservable.

8.80.2.4 void PickupItem.OnTriggerEnter (Collider *other*)

8.80.2.5 void PickupItem.Pickup ( )

8.80.2.6 void PickupItem.PunPickup (PhotonMessageInfo *msgInfo*)

8.80.3 Member Data Documentation

8.80.3.1 HashSet<PickupItem> PickupItem.DisabledPickupItems = new HashSet<PickupItem>() [static]

8.80.3.2 MonoBehaviour PickupItem.OnPickedUpCall

GameObject to send an event "OnPickedUp(PickupItem item)" to.

Implement OnPickedUp(PickupItem item) {} in some script on the linked game object. The item will be "this" and item.PickupIsMine will help you to find if this pickup was done by "this player".

8.80.3.3 bool PickupItem.PickupIsMine

If the pickup item is currently yours. Interesting in OnPickedUp(PickupItem item).

8.80.3.4 bool PickupItem.PickupOnTrigger

The most likely trigger to pick up an item.

Set in inspector!

Edit the collider and set collision masks to avoid pickups by random objects.

8.80.3.5 float PickupItem.SecondsBeforeRespawn = 2

Enables you to define a timeout when the picked up item should re-spawn at the same place it was before.

Set in Inspector per GameObject! The value in code is just the default.

If you don't want an item to respawn, set SecondsBeforeRespawn == 0. If an item does not respawn, it could be consumed or carried around and dropped somewhere else.

A respawning item should stick to a fixed position. It should not be observed at all (in any PhotonView). It can only be consumed and can't be dropped somewhere else (cause that would double the item).

This script uses PunRespawn() as RPC and as method that gets called by Invoke() after a timeout. No matter if the item respawns timed or by Drop, that method makes sure (temporary) owner and other status-values are being re-set.

8.80.3.6 bool PickupItem.SentPickup

If this client sent a pickup. To avoid sending multiple pickup requests before reply is there.

8.80.3.7 double PickupItem.TimeOfRespawn

Timestamp when to respawn the item (compared to PhotonNetwork.time).

8.80.4 Property Documentation

8.80.4.1 int PickupItem.ViewID [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PickupItem.cs

8.81 PickupItemSimple Class Reference

Makes a scene object pickup-able.

Inherits Photon.MonoBehaviour.

Public Member Functions

- void OnTriggerEnter (Collider other)
- void Pickup ()
- void PunPickupSimple (PhotonMessageInfo msgInfo)
- void RespawnAfter ()

Public Attributes

- float SecondsBeforeRespawn = 2
- bool PickupOnCollide
- bool SentPickup

Additional Inherited Members

8.81.1 Detailed Description

Makes a scene object pickup-able.

Needs a PhotonView which belongs to the scene.

8.81.2 Member Function Documentation

8.81.2.1 void PickupItemSimple.OnTriggerEnter (Collider *other*)

8.81.2.2 void PickupItemSimple.Pickup ( )

8.81.2.3 void PickupItemSimple.PunPickupSimple (PhotonMessageInfo *msgInfo*)

8.81.2.4 void PickupItemSimple.RespawnAfter ( )

8.81.3 Member Data Documentation

8.81.3.1 bool PickupItemSimple.PickupOnCollide

8.81.3.2 float PickupItemSimple.SecondsBeforeRespawn = 2

8.81.3.3 bool PickupItemSimple.SentPickup

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PickupItemSimple.cs

8.82 PickupItemSyncer Class Reference

Finds out which PickupItems are not spawned at the moment and send this to new players.

Inherits Photon.MonoBehaviour.

Public Member Functions

- void OnPhotonPlayerConnected (PhotonPlayer newPlayer)
- void OnJoinedRoom ()
- void AskForPickupItemSpawnTimes ()
- void RequestForPickupTimes (PhotonMessageInfo msgInfo)
- void PickupItemInit (double timeBase, float[ ] inactivePickupsAndTimes)

Public Attributes

- bool IsWaitingForPickupInit

Additional Inherited Members

8.82.1 Detailed Description

Finds out which PickupItems are not spawned at the moment and send this to new players.

Attach this component to a single GameObject in the scene, not to all PickupItems.

8.82.2 Member Function Documentation

8.82.2.1 void PickupItemSyncer.AskForPickupItemSpawnTimes ( )

8.82.2.2 void PickupItemSyncer.OnJoinedRoom ( )

8.82.2.3 void PickupItemSyncer.OnPhotonPlayerConnected (PhotonPlayer *newPlayer*)

8.82.2.4 void PickupItemSyncer.PickupItemInit (double *timeBase,* float[ ] *inactivePickupsAndTimes*)

8.82.2.5 void PickupItemSyncer.RequestForPickupTimes (PhotonMessageInfo *msgInfo*)

8.82.3 Member Data Documentation

8.82.3.1 bool PickupItemSyncer.IsWaitingForPickupInit

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PickupItemSyncer.cs

8.83 PingMonoEditor Class Reference

Uses C# Socket class from System.Net.Sockets (as Unity usually does).

Inherits PhotonPing.

Public Member Functions

- override bool StartPing (string ip)
- override bool Done ()
- override void Dispose ()

8.83.1 Detailed Description

Uses C# Socket class from System.Net.Sockets (as Unity usually does).

Incompatible with Windows 8 Store/Phone API.

8.83.2 Member Function Documentation

8.83.2.1 override void PingMonoEditor.Dispose ( )

8.83.2.2 override bool PingMonoEditor.Done ( )

8.83.2.3 override bool PingMonoEditor.StartPing (string *ip*)

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PingCloudRegions.cs

8.84 PlayerController Class Reference

Inherits MonoBehaviour.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/PlayerController.cs

8.85 PointedAtGameObjectInfo Class Reference

Inherits MonoBehaviour.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PointedAtGameObjectInfo.cs

8.86 Photon.PunBehaviour Class Reference

This class provides a .photonView and all callbacks/events that PUN can call.

Inherits Photon.MonoBehaviour, and IPunCallbacks.

Public Member Functions

- virtual void OnConnectedToPhoton ()

  Called when the initial connection got established but before you can use the server.
- virtual void OnLeftRoom ()

  Called when the local user/client left a room.
- virtual void OnMasterClientSwitched (PhotonPlayer newMasterClient)

  Called after switching to a new MasterClient when the current one leaves.
- virtual void OnPhotonCreateRoomFailed (object[ ] codeAndMsg)

  Called when a CreateRoom() call failed.
- virtual void OnPhotonJoinRoomFailed (object[ ] codeAndMsg)

  Called when a JoinRoom() call failed.
- virtual void OnCreatedRoom ()

  Called when this client created a room and entered it.
- virtual void OnJoinedLobby ()

  Called on entering a lobby on the Master Server.
- virtual void OnLeftLobby ()

  Called after leaving a lobby.
- virtual void OnFailedToConnectToPhoton (DisconnectCause cause)

  Called if a connect call to the Photon server failed before the connection was established, followed by a call to OnDisconnectedFromPhoton().
- virtual void OnDisconnectedFromPhoton ()

  Called after disconnecting from the Photon server.
- virtual void OnConnectionFail (DisconnectCause cause)

  Called when something causes the connection to fail (after it was established), followed by a call to OnDisconnectedFromPhoton().
- virtual void OnPhotonInstantiate (PhotonMessageInfo info)

  Called on all scripts on a GameObject (and children) that have been Instantiated using PhotonNetwork.Instantiate.
- virtual void OnReceivedRoomListUpdate ()

  Called for any update of the room-listing while in a lobby (PhotonNetwork.insideLobby) on the Master Server.
- virtual void OnJoinedRoom ()

  Called when entering a room (by creating or joining it).
- virtual void OnPhotonPlayerConnected (PhotonPlayer newPlayer)

  Called when a remote player entered the room.
- virtual void OnPhotonPlayerDisconnected (PhotonPlayer otherPlayer)

  Called when a remote player left the room.
- virtual void OnPhotonRandomJoinFailed (object[ ] codeAndMsg)

  Called when a JoinRandom() call failed.
- virtual void OnConnectedToMaster ()

  Called after the connection to the master is established and authenticated but only when PhotonNetwork.autoJoinLobby is false.
- virtual void OnPhotonMaxCccuReached ()

  Because the concurrent user limit was (temporarily) reached, this client is rejected by the server and disconnecting.
- virtual void OnPhotonCustomRoomPropertiesChanged (Hashtable propertiesThatChanged)

Called when a room's custom properties changed.

- virtual void OnPhotonPlayerPropertiesChanged (object[ ] playerAndUpdatedProps)

  Called when custom player-properties are changed.

- virtual void OnUpdatedFriendList ()

  Called when the server sent the response to a FindFriends request and updated PhotonNetwork.Friends.

- virtual void OnCustomAuthenticationFailed (string debugMessage)

  Called when the custom authentication failed.

- virtual void OnWebRpcResponse (OperationResponse response)

  Called by PUN when the response to a WebRPC is available.

- virtual void OnOwnershipRequest (object[ ] viewAndPlayer)

  Called when another player requests ownership of a PhotonView from you (the current owner).

- virtual void OnLobbyStatisticsUpdate ()

  Called when the Master Server sent an update for the Lobby Statistics, updating PhotonNetwork.LobbyStatistics.

Additional Inherited Members

8.86.1 Detailed Description

This class provides a .photonView and all callbacks/events that PUN can call.

Override the events/methods you want to use.

By extending this class, you can implement individual methods as override.

Visual Studio and MonoDevelop should provide the list of methods when you begin typing "override". **Your implementation does not have to call "base.method()".**

This class implements IPunCallbacks, which is used as definition of all PUN callbacks. Don't implement IPunCallbacks in your classes. Instead, implent PunBehaviour or individual methods.

8.86.2 Member Function Documentation

8.86.2.1 virtual void Photon.PunBehaviour.OnConnectedToMaster ( ) [virtual]

Called after the connection to the master is established and authenticated but only when PhotonNetwork.autoJoinLobby is false.

If you set PhotonNetwork.autoJoinLobby to true, OnJoinedLobby() will be called instead of this.

You can join rooms and create them even without being in a lobby. The default lobby is used in that case. The list of available rooms won't become available unless you join a lobby via PhotonNetwork.joinLobby.

Implements IPunCallbacks.

8.86.2.2 virtual void Photon.PunBehaviour.OnConnectedToPhoton ( ) [virtual]

Called when the initial connection got established but before you can use the server.

OnJoinedLobby() or OnConnectedToMaster() are called when PUN is ready.

This callback is only useful to detect if the server can be reached at all (technically). Most often, it's enough to implement OnFailedToConnectToPhoton() and OnDisconnectedFromPhoton().

OnJoinedLobby() or OnConnectedToMaster() are called when PUN is ready.

When this is called, the low level connection is established and PUN will send your AppId, the user, etc in the background. This is not called for transitions from the masterserver to game servers.

Implements IPunCallbacks.

8.86.2.3 virtual void Photon.PunBehaviour.OnConnectionFail (DisconnectCause *cause*) [virtual]

Called when something causes the connection to fail (after it was established), followed by a call to OnDisconnectedFromPhoton().

If the server could not be reached in the first place, OnFailedToConnectToPhoton is called instead. The reason for the error is provided as DisconnectCause.

Implements IPunCallbacks.

8.86.2.4 virtual void Photon.PunBehaviour.OnCreatedRoom ( ) [virtual]

Called when this client created a room and entered it.

OnJoinedRoom() will be called as well.

This callback is only called on the client which created a room (see PhotonNetwork.CreateRoom).

As any client might close (or drop connection) anytime, there is a chance that the creator of a room does not execute OnCreatedRoom.

If you need specific room properties or a "start signal", it is safer to implement OnMasterClientSwitched() and to make the new MasterClient check the room's state.

Implements IPunCallbacks.

8.86.2.5 virtual void Photon.PunBehaviour.OnCustomAuthenticationFailed (string *debugMessage*) [virtual]

Called when the custom authentication failed.

Followed by disconnect!

Custom Authentication can fail due to user-input, bad tokens/secrets. If authentication is successful, this method is not called. Implement OnJoinedLobby() or OnConnectedToMaster() (as usual).

During development of a game, it might also fail due to wrong configuration on the server side. In those cases, logging the debugMessage is very important.

Unless you setup a custom authentication service for your app (in the Dashboard), this won't be called!

Parameters

debugMessage	Contains a debug message why authentication failed. This has to be fixed during development time.

Implements IPunCallbacks.

8.86.2.6 virtual void Photon.PunBehaviour.OnDisconnectedFromPhoton ( ) [virtual]

Called after disconnecting from the Photon server.

In some cases, other callbacks are called before OnDisconnectedFromPhoton is called. Examples: On↩ ConnectionFail() and OnFailedToConnectToPhoton().

Implements IPunCallbacks.

8.86.2.7 virtual void Photon.PunBehaviour.OnFailedToConnectToPhoton (DisconnectCause *cause*) [virtual]

Called if a connect call to the Photon server failed before the connection was established, followed by a call to OnDisconnectedFromPhoton().

This is called when no connection could be established at all. It differs from OnConnectionFail, which is called when an existing connection fails.

Implements IPunCallbacks.

8.86.2.8 virtual void Photon.PunBehaviour.OnJoinedLobby ( ) [virtual]

Called on entering a lobby on the Master Server.

The actual room-list updates will call OnReceivedRoomListUpdate().

Note: When PhotonNetwork.autoJoinLobby is false, OnConnectedToMaster() will be called and the room list won't become available.

While in the lobby, the roomlist is automatically updated in fixed intervals (which you can't modify). The room list gets available when OnReceivedRoomListUpdate() gets called after OnJoinedLobby().

Implements IPunCallbacks.

8.86.2.9 virtual void Photon.PunBehaviour.OnJoinedRoom ( ) [virtual]

Called when entering a room (by creating or joining it).

Called on all clients (including the Master Client).

This method is commonly used to instantiate player characters. If a match has to be started "actively", you can call an PunRPC triggered by a user's button-press or a timer.

When this is called, you can usually already access the existing players in the room via PhotonNetwork.playerList. Also, all custom properties should be already available as Room.customProperties. Check Room.playerCount to find out if enough players are in the room to start playing.

Implements IPunCallbacks.

8.86.2.10 virtual void Photon.PunBehaviour.OnLeftLobby ( ) [virtual]

Called after leaving a lobby.

When you leave a lobby, CreateRoom and JoinRandomRoom automatically refer to the default lobby.

Implements IPunCallbacks.

8.86.2.11 virtual void Photon.PunBehaviour.OnLeftRoom ( ) [virtual]

Called when the local user/client left a room.

When leaving a room, PUN brings you back to the Master Server. Before you can use lobbies and join or create rooms, OnJoinedLobby() or OnConnectedToMaster() will get called again.

Implements IPunCallbacks.

8.86.2.12 virtual void Photon.PunBehaviour.OnLobbyStatisticsUpdate ( ) [virtual]

Called when the Master Server sent an update for the Lobby Statistics, updating PhotonNetwork.LobbyStatistics.

This callback has two preconditions: EnableLobbyStatistics must be set to true, before this client connects. And the client has to be connected to the Master Server, which is providing the info about lobbies.

Implements IPunCallbacks.

8.86.2.13 virtual void Photon.PunBehaviour.OnMasterClientSwitched (PhotonPlayer *newMasterClient*) [virtual]

Called after switching to a new MasterClient when the current one leaves.

This is not called when this client enters a room. The former MasterClient is still in the player list when this method get called.

Implements IPunCallbacks.

8.86.2.14 virtual void Photon.PunBehaviour.OnOwnershipRequest (object[ ] *viewAndPlayer*) [virtual]

Called when another player requests ownership of a PhotonView from you (the current owner).

The parameter viewAndPlayer contains:

PhotonView view = viewAndPlayer[0] as PhotonView;

PhotonPlayer requestingPlayer = viewAndPlayer[1] as PhotonPlayer;

Parameters

viewAndPlayer	The PhotonView is viewAndPlayer[0] and the requesting player is viewAndPlayer[1].

Implements IPunCallbacks.

8.86.2.15 virtual void Photon.PunBehaviour.OnPhotonCreateRoomFailed (object[ ] *codeAndMsg*) [virtual]

Called when a CreateRoom() call failed.

The parameter provides ErrorCode and message (as array).

Most likely because the room name is already in use (some other client was faster than you). PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Parameters

codeAndMsg	codeAndMsg[0] is a short ErrorCode and codeAndMsg[1] is a string debug msg.

Implements IPunCallbacks.

8.86.2.16 virtual void Photon.PunBehaviour.OnPhotonCustomRoomPropertiesChanged (Hashtable *propertiesThatChanged*) [virtual]

Called when a room's custom properties changed.

The propertiesThatChanged contains all that was set via Room.SetCustomProperties.

Since v1.25 this method has one parameter: Hashtable propertiesThatChanged.
Changing properties must be done by Room.SetCustomProperties, which causes this callback locally, too.

Parameters

propertiesThatChanged	

Implements IPunCallbacks.

8.86.2.17 virtual void Photon.PunBehaviour.OnPhotonInstantiate (PhotonMessageInfo *info*) [virtual]

Called on all scripts on a GameObject (and children) that have been Instantiated using PhotonNetwork.Instantiate.

PhotonMessageInfo parameter provides info about who created the object and when (based off PhotonNetworking.time).

Implements IPunCallbacks.

8.86.2.18 virtual void Photon.PunBehaviour.OnPhotonJoinRoomFailed (object[ ] *codeAndMsg*) [virtual]

Called when a JoinRoom() call failed.

The parameter provides ErrorCode and message (as array).

Most likely error is that the room does not exist or the room is full (some other client was faster than you). PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Parameters

codeAndMsg	codeAndMsg[0] is short ErrorCode. codeAndMsg[1] is string debug msg.

Implements IPunCallbacks.

8.86.2.19 virtual void Photon.PunBehaviour.OnPhotonMaxCccuReached ( ) [virtual]

Because the concurrent user limit was (temporarily) reached, this client is rejected by the server and disconnecting.

When this happens, the user might try again later. You can't create or join rooms in OnPhotonMaxCcuReached(), cause the client will be disconnecting. You can raise the CCU limits with a new license (when you host yourself) or extended subscription (when using the Photon Cloud). The Photon Cloud will mail you when the CCU limit was reached. This is also visible in the Dashboard (webpage).

Implements IPunCallbacks.

8.86.2.20 virtual void Photon.PunBehaviour.OnPhotonPlayerConnected (PhotonPlayer *newPlayer*) [virtual]

Called when a remote player entered the room.

This PhotonPlayer is already added to the playerlist at this time.

If your game starts with a certain number of players, this callback can be useful to check the Room.playerCount and find out if you can start.

Implements IPunCallbacks.

8.86.2.21 virtual void Photon.PunBehaviour.OnPhotonPlayerDisconnected (PhotonPlayer *otherPlayer*) [virtual]

Called when a remote player left the room.

This PhotonPlayer is already removed from the playerlist at this time.

When your client calls PhotonNetwork.leaveRoom, PUN will call this method on the remaining clients. When a remote client drops connection or gets closed, this callback gets executed. after a timeout of several seconds.

Implements IPunCallbacks.

8.86.2.22 virtual void Photon.PunBehaviour.OnPhotonPlayerPropertiesChanged (object[] *playerAndUpdatedProps*) [virtual]

Called when custom player-properties are changed.

Player and the changed properties are passed as object[].

Since v1.25 this method has one parameter: object[] playerAndUpdatedProps, which contains two entries.
[0] is the affected PhotonPlayer.
[1] is the Hashtable of properties that changed.

We are using a object[] due to limitations of Unity's GameObject.SendMessage (which has only one optional parameter).

Changing properties must be done by PhotonPlayer.SetCustomProperties, which causes this callback locally, too.

Example:

```
void OnPhotonPlayerPropertiesChanged(object[] playerAndUpdatedProps) {
    PhotonPlayer player = playerAndUpdatedProps[0] as PhotonPlayer;
    Hashtable props = playerAndUpdatedProps[1] as Hashtable;
    //...
}
```

Parameters

playerAndUpdatedProps	Contains PhotonPlayer and the properties that changed See remarks.

Implements IPunCallbacks.

8.86.2.23 virtual void Photon.PunBehaviour.OnPhotonRandomJoinFailed (object[ ] *codeAndMsg*) [virtual]

Called when a JoinRandom() call failed.

The parameter provides ErrorCode and message.

Most likely all rooms are full or no rooms are available.
When using multiple lobbies (via JoinLobby or TypedLobby), another lobby might have more/fitting rooms.
PUN logs some info if the PhotonNetwork.logLevel is >= PhotonLogLevel.Informational.

Parameters

codeAndMsg	codeAndMsg[0] is short ErrorCode. codeAndMsg[1] is string debug msg.

Implements IPunCallbacks.

8.86.2.24 virtual void Photon.PunBehaviour.OnReceivedRoomListUpdate ( ) [virtual]

Called for any update of the room-listing while in a lobby (PhotonNetwork.insideLobby) on the Master Server.

PUN provides the list of rooms by PhotonNetwork.GetRoomList().
Each item is a RoomInfo which might include custom properties (provided you defined those as lobby-listed when creating a room).

Not all types of lobbies provide a listing of rooms to the client. Some are silent and specialized for server-side matchmaking.

Implements IPunCallbacks.

8.86.2.25 virtual void Photon.PunBehaviour.OnUpdatedFriendList ( ) [virtual]

Called when the server sent the response to a FindFriends request and updated PhotonNetwork.Friends.

The friends list is available as PhotonNetwork.Friends, listing name, online state and the room a user is in (if any).

Implements IPunCallbacks.

8.86.2.26 virtual void Photon.PunBehaviour.OnWebRpcResponse (OperationResponse *response*) [virtual]

Called by PUN when the response to a WebRPC is available.

See PhotonNetwork.WebRPC.

Important: The response.ReturnCode is 0 if Photon was able to reach your web-service. The content of the response is what your web-service sent. You can create a WebResponse instance from it. Example: WebRpcResponse webResponse = new WebRpcResponse(operationResponse);

Please note: Class OperationResponse is in a namespace which needs to be "used": using ExitGames.Client.Photon; // includes OperationResponse (and other classes)

The OperationResponse.ReturnCode by Photon is:

```
 0 for "OK"
-3 for "Web-Service not configured" (see Dashboard / WebHooks)
-5 for "Web-Service does now have RPC path/name" (at least for Azure)
```

Implements IPunCallbacks.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.87 PunPlayerScores Class Reference

Inherits MonoBehaviour.

Public Attributes

- const string PlayerScoreProp = "score"

8.87.1 Member Data Documentation

8.87.1.1 const string PunPlayerScores.PlayerScoreProp = "score"

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PunPlayerScores.cs

8.88 PunRPC Class Reference

Replacement for RPC attribute with different name. Used to flag methods as remote-callable.

Inherits Attribute.

8.88.1 Detailed Description

Replacement for RPC attribute with different name. Used to flag methods as remote-callable.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/RPC.cs

8.89 PunSceneSettings Class Reference

Inherits ScriptableObject.

Static Public Member Functions

- static int MinViewIdForScene (string scene)

Public Attributes

- List< SceneSetting > MinViewIdPerScene = new List<SceneSetting>()

Properties

- static string PunSceneSettingsCsPath [get]
- static PunSceneSettings Instance [get]

8.89.1 Member Function Documentation

8.89.1.1 static int PunSceneSettings.MinViewIdForScene (string *scene*) [static]

8.89.2 Member Data Documentation

8.89.2.1 List<SceneSetting> PunSceneSettings.MinViewIdPerScene = new List<SceneSetting>()

8.89.3 Property Documentation

8.89.3.1 PunSceneSettings PunSceneSettings.Instance [static], [get]

8.89.3.2 string PunSceneSettings.PunSceneSettingsCsPath [static], [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PunSceneSettings.cs

8.90 PunTeams Class Reference

Implements teams in a room/game with help of player properties.

Inherits MonoBehaviour.

Public Types

- enum Team : byte { Team.none, Team.red, Team.blue }

  Enum defining the teams available. First team should be neutral (it's the default value any field of this enum gets).

Public Member Functions

- void Start ()
- void OnJoinedRoom ()

  Needed to update the team lists when joining a room.
- void OnPhotonPlayerPropertiesChanged (object[] playerAndUpdatedProps)

  Refreshes the team lists.
- void UpdateTeams ()

Public Attributes

- const string TeamPlayerProp = "team"

  Defines the player custom property name to use for team affinity of "this" player.

Static Public Attributes

- static Dictionary< Team, List< PhotonPlayer > > PlayersPerTeam

  The main list of teams with their player-lists.

8.90.1 Detailed Description

Implements teams in a room/game with help of player properties.

Access them by PhotonPlayer.GetTeam extension.

Teams are defined by enum Team. Change this to get more / different teams. There are no rules when / if you can join a team. You could add this in JoinTeam or something.

8.90.2 Member Enumeration Documentation

8.90.2.1 enum PunTeams.Team : byte [strong]

Enum defining the teams available. First team should be neutral (it's the default value any field of this enum gets).

Enumerator

none

red

blue

8.90.3 Member Function Documentation

8.90.3.1 void PunTeams.OnJoinedRoom ( )

Needed to update the team lists when joining a room.

Called by PUN. See enum PhotonNetworkingMessage for an explanation.

8.90.3.2 void PunTeams.OnPhotonPlayerPropertiesChanged (object[ ] *playerAndUpdatedProps*)

Refreshes the team lists.

It could be a non-team related property change, too.

Called by PUN. See enum PhotonNetworkingMessage for an explanation.

8.90.3.3 void PunTeams.Start ( )

8.90.3.4 void PunTeams.UpdateTeams ( )

8.90.4 Member Data Documentation

8.90.4.1 Dictionary<Team, List<PhotonPlayer> > PunTeams.PlayersPerTeam [static]

The main list of teams with their player-lists.

Automatically kept up to date.

Note that this is static. Can be accessed by PunTeam.PlayersPerTeam. You should not modify this.

8.90.4.2 const string PunTeams.TeamPlayerProp = "team"

Defines the player custom property name to use for team affinity of "this" player.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PunTeams.cs

8.91 PunWizardText Class Reference

Public Attributes

- string WindowTitle = "PUN Wizard"
- string SetupWizardWarningTitle = "Warning"
- string SetupWizardWarningMessage = "You have not yet run the Photon setup wizard! Your game won't be able to connect. See Windows -> Photon Unity Networking."
- string MainMenuButton = "Main Menu"
- string SetupWizardTitle = "PUN Setup"
- string SetupWizardInfo = "Thanks for importing Photon Unity Networking.\nThis window should set you up.\n\n- To use an existing Photon Cloud App, enter your AppId.\n- To register an account or access an existing one, enter the account's mail address.\n- To use Photon OnPremise, skip this step."
- string EmailOrAppIdLabel = "AppId or Email"
- string AlreadyRegisteredInfo = "The email is registered so we can't fetch your AppId (without password).\n\n↩ Please login online to get your AppId and paste it above."
- string SkipRegistrationInfo = "Skipping? No problem:\nEdit your server settings in the PhotonServerSettings file."
- string RegisteredNewAccountInfo = "We created a (free) account and fetched you an AppId.\nWelcome. Your PUN project is setup."
- string AppliedToSettingsInfo = "Your AppId is now applied to this project."
- string SetupCompleteInfo = "Done!\nAll connection settings can be edited in the Photon↩ ServerSettings now.\nHave a look."
- string CloseWindowButton = "Close"
- string SkipButton = "Skip"
- string SetupButton = "Setup Project"
- string MobileExportNoteLabel = "Build for mobiles impossible. Get PUN+ or Unity Pro for mobile or use Unity 5."
- string MobilePunPlusExportNoteLabel = "PUN+ available. Using native sockets for iOS/Android."
- string CancelButton = "Cancel"
- string PUNWizardLabel = "PUN Wizard"
- string SettingsButton = "Settings"
- string SetupServerCloudLabel = "Setup wizard for setting up your own server or the cloud."
- string WarningPhotonDisconnect = ""
- string ConverterLabel = "Converter"
- string StartButton = "Start"
- string UNtoPUNLabel = "Converts pure Unity Networking to Photon Unity Networking."
- string LocateSettingsButton = "Locate PhotonServerSettings"
- string SettingsHighlightLabel = "Highlights the used photon settings file in the project."
- string DocumentationLabel = "Documentation"
- string OpenPDFText = "Reference PDF"
- string OpenPDFTooltip = "Opens the local documentation pdf."
- string OpenDevNetText = "DevNet / Manual"
- string OpenDevNetTooltip = "Online documentation for Photon."
- string OpenCloudDashboardText = "Cloud Dashboard Login"
- string OpenCloudDashboardTooltip = "Review Cloud App information and statistics."
- string OpenForumText = "Open Forum"
- string OpenForumTooltip = "Online support for Photon."
- string OkButton = "Ok"
- string OwnHostCloudCompareLabel = "I am not quite sure how 'my own host' compares to 'cloud'."
- string ComparisonPageButton = "Cloud versus OnPremise"
- string ConnectionTitle = "Connecting"
- string ConnectionInfo = "Connecting to the account service..."

- string ErrorTextTitle = "Error"
- string IncorrectRPCListTitle = "Warning: RPC-list becoming incompatible!"
- string IncorrectRPCListLabel = "Your project's RPC-list is full, so we can't add some RPCs just compiled.\n\nBy removing outdated RPCs, the list will be long enough but incompatible with older client builds!\n\nMake sure you change the game version where you use PhotonNetwork.ConnectUsingSettings()."
- string RemoveOutdatedRPCsLabel = "Remove outdated RPCs"
- string FullRPCListTitle = "Warning: RPC-list is full!"
- string FullRPCListLabel = "Your project's RPC-list is too long for PUN.\n\nYou can change PUN's source to use short-typed RPC index. Look for comments 'LIMITS RPC COUNT'\n\nAlternatively, remove some RPC methods (use more parameters per RPC maybe).\n\nAfter a RPC-list refresh, make sure you change the game version where you use PhotonNetwork.ConnectUsingSettings()."
- string SkipRPCListUpdateLabel = "Skip RPC-list update"
- string PUNNameReplaceTitle = "Warning: RPC-list Compatibility"
- string PUNNameReplaceLabel = "PUN replaces RPC names with numbers by using the RPC-list. All clients must use the same list for that.\n\nClearing it most likely makes your client incompatible with previous versions! Change your game version or make sure the RPC-list matches other clients."
- string RPCListCleared = "Clear RPC-list"
- string ServerSettingsCleanedWarning = "Cleared the PhotonServerSettings.RpcList! This makes new builds incompatible with older ones. Better change game version in PhotonNetwork.ConnectUsingSettings()."
- string RpcFoundMessage = "Some code uses the obsolete RPC attribute. PUN now requires the PunRPC attribute to mark remote-callable methods.\nThe Editor can search and replace that code which will modify your source."
- string RpcFoundDialogTitle = "RPC Attribute Outdated"
- string RpcReplaceButton = "Replace. I got a backup."
- string RpcSkipReplace = "Not now."
- string WizardMainWindowInfo = "This window should help you find important settings for PUN, as well as documentation."

8.91.1 Member Data Documentation

8.91.1.1 string PunWizardText.AlreadyRegisteredInfo = "The email is registered so we can't fetch your AppId (without password).\n\nPlease login online to get your AppId and paste it above."

8.91.1.2 string PunWizardText.AppliedToSettingsInfo = "Your AppId is now applied to this project."

8.91.1.3 string PunWizardText.CancelButton = "Cancel"

8.91.1.4 string PunWizardText.CloseWindowButton = "Close"

8.91.1.5 string PunWizardText.ComparisonPageButton = "Cloud versus OnPremise"

8.91.1.6 string PunWizardText.ConnectionInfo = "Connecting to the account service..."

8.91.1.7 string PunWizardText.ConnectionTitle = "Connecting"

8.91.1.8 string PunWizardText.ConverterLabel = "Converter"

8.91.1.9 string PunWizardText.DocumentationLabel = "Documentation"

8.91.1.10 string PunWizardText.EmailOrAppIdLabel = "AppId or Email"

8.91.1.11 string PunWizardText.ErrorTextTitle = "Error"

8.91.1.12 string PunWizardText.FullRPCListLabel = "Your project's RPC-list is too long for PUN.\n\nYou can change PUN's source to use short-typed RPC index. Look for comments 'LIMITS RPC COUNT'\n\nAlternatively, remove some RPC methods (use more parameters per RPC maybe).\n\nAfter a RPC-list refresh, make sure you change the game version where you use PhotonNetwork.ConnectUsingSettings()."

8.91.1.13 string PunWizardText.FullRPCListTitle = "Warning: RPC-list is full!"

8.91.1.14 string PunWizardText.IncorrectRPCListLabel = "Your project's RPC-list is full, so we can't add some RPCs just compiled.\n\nBy removing outdated RPCs, the list will be long enough but incompatible with older client builds!\n\nMake sure you change the game version where you use PhotonNetwork.ConnectUsingSettings()."

8.91.1.15 string PunWizardText.IncorrectRPCListTitle = "Warning: RPC-list becoming incompatible!"

8.91.1.16 string PunWizardText.LocateSettingsButton = "Locate PhotonServerSettings"

8.91.1.17 string PunWizardText.MainMenuButton = "Main Menu"

8.91.1.18 string PunWizardText.MobileExportNoteLabel = "Build for mobiles impossible. Get PUN+ or Unity Pro for mobile or use Unity 5."

8.91.1.19 string PunWizardText.MobilePunPlusExportNoteLabel = "PUN+ available. Using native sockets for iOS/Android."

8.91.1.20 string PunWizardText.OkButton = "Ok"

8.91.1.21 string PunWizardText.OpenCloudDashboardText = "Cloud Dashboard Login"

8.91.1.22 string PunWizardText.OpenCloudDashboardTooltip = "Review Cloud App information and statistics."

8.91.1.23 string PunWizardText.OpenDevNetText = "DevNet / Manual"

8.91.1.24 string PunWizardText.OpenDevNetTooltip = "Online documentation for Photon."

8.91.1.25 string PunWizardText.OpenForumText = "Open Forum"

8.91.1.26 string PunWizardText.OpenForumTooltip = "Online support for Photon."

8.91.1.27 string PunWizardText.OpenPDFText = "Reference PDF"

8.91.1.28 string PunWizardText.OpenPDFTooltip = "Opens the local documentation pdf."

8.91.1.29 string PunWizardText.OwnHostCloudCompareLabel = "I am not quite sure how 'my own host' compares to 'cloud'."

8.91.1.30 string PunWizardText.PUNNameReplaceLabel = "PUN replaces RPC names with numbers by using the RPC-list. All clients must use the same list for that.\n\nClearing it most likely makes your client incompatible with previous versions! Change your game version or make sure the RPC-list matches other clients."

8.91.1.31 string PunWizardText.PUNNameReplaceTitle = "Warning: RPC-list Compatibility"

8.91.1.32 string PunWizardText.PUNWizardLabel = "PUN Wizard"

8.91.1.33 string PunWizardText.RegisteredNewAccountInfo = "We created a (free) account and fetched you an AppId.\nWelcome. Your PUN project is setup."

8.91.1.34 string PunWizardText.RemoveOutdatedRPCsLabel = "Remove outdated RPCs"

8.91.1.35 string PunWizardText.RpcFoundDialogTitle = "RPC Attribute Outdated"

8.91.1.36 string PunWizardText.RpcFoundMessage = "Some code uses the obsolete RPC attribute. PUN now requires the **PunRPC** attribute to mark remote-callable methods.\nThe Editor can search and replace that code which will modify your source."

8.91.1.37 string PunWizardText.RPCListCleared = "Clear RPC-list"

8.91.1.38 string PunWizardText.RpcReplaceButton = "Replace. I got a backup."

8.91.1.39 string PunWizardText.RpcSkipReplace = "Not now."

8.91.1.40 string PunWizardText.ServerSettingsCleanedWarning = "Cleared the PhotonServerSettings.RpcList! This makes new builds incompatible with older ones. Better change game version in **PhotonNetwork.ConnectUsingSettings()**."

8.91.1.41 string PunWizardText.SettingsButton = "Settings"

8.91.1.42 string PunWizardText.SettingsHighlightLabel = "Highlights the used photon settings file in the project."

8.91.1.43 string PunWizardText.SetupButton = "Setup Project"

8.91.1.44 string PunWizardText.SetupCompleteInfo = "Done!\nAll connection settings can be edited in the PhotonServerSettings now.\nHave a look."

8.91.1.45 string PunWizardText.SetupServerCloudLabel = "Setup wizard for setting up your own server or the cloud."

8.91.1.46 string PunWizardText.SetupWizardInfo = "Thanks for importing Photon Unity Networking.\nThis window should set you up.\n\n- To use an existing Photon Cloud App, enter your AppId.\n- To register an account or access an existing one, enter the account's mail address.\n- To use Photon OnPremise, skip this step."

8.91.1.47 string PunWizardText.SetupWizardTitle = "PUN Setup"

8.91.1.48 string PunWizardText.SetupWizardWarningMessage = "You have not yet run the Photon setup wizard! Your game won't be able to connect. See Windows -> Photon Unity Networking."

8.91.1.49 string PunWizardText.SetupWizardWarningTitle = "Warning"

8.91.1.50 string PunWizardText.SkipButton = "Skip"

8.91.1.51 string PunWizardText.SkipRegistrationInfo = "Skipping? No problem:\nEdit your server settings in the PhotonServerSettings file."

8.91.1.52 string PunWizardText.SkipRPCListUpdateLabel = "Skip RPC-list update"

8.91.1.53 string PunWizardText.StartButton = "Start"

8.91.1.54 string PunWizardText.UNtoPUNLabel = "Converts pure Unity Networking to Photon Unity Networking."

8.91.1.55 string PunWizardText.WarningPhotonDisconnect = ""

8.91.1.56 string PunWizardText.WindowTitle = "PUN Wizard"

8.91.1.57 string PunWizardText.WizardMainWindowInfo = "This window should help you find important settings for PUN, as well as documentation."

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonEditor.cs

8.92 QuitOnEscapeOrBack Class Reference

Inherits MonoBehaviour.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/QuitOnEscapeOrBack.cs

8.93 RaiseEventOptions Class Reference

Aggregates several less-often used options for operation RaiseEvent. See field descriptions for usage details.

Public Attributes

- EventCaching CachingOption

  Defines if the server should simply send the event, put it in the cache or remove events that are like this one.
- byte InterestGroup

  The number of the Interest Group to send this to. 0 goes to all users but to get 1 and up, clients must subscribe to the group first.
- int[] TargetActors

  A list of PhotonPlayer.IDs to send this event to. You can implement events that just go to specific users this way.
- ReceiverGroup Receivers

  Sends the event to All, MasterClient or Others (default). Be careful with MasterClient, as the client might disconnect before it got the event and it gets lost.
- byte SequenceChannel

  Events are ordered per "channel". If you have events that are independent of others, they can go into another sequence or channel.
- bool ForwardToWebhook

  Events can be forwarded to Webhooks, which can evaluate and use the events to follow the game's state.
- bool Encrypt

Static Public Attributes

- static readonly RaiseEventOptions Default = new RaiseEventOptions()

  Default options: CachingOption: DoNotCache, InterestGroup: 0, targetActors: null, receivers: Others, sequence↩ Channel: 0.

8.93.1 Detailed Description

Aggregates several less-often used options for operation RaiseEvent. See field descriptions for usage details.

8.93.2 Member Data Documentation

8.93.2.1 EventCaching RaiseEventOptions.CachingOption

Defines if the server should simply send the event, put it in the cache or remove events that are like this one.

When using option: SliceSetIndex, SlicePurgeIndex or SlicePurgeUpToIndex, set a CacheSliceIndex. All other options except SequenceChannel get ignored.

8.93.2.2 readonly RaiseEventOptions RaiseEventOptions.Default = new RaiseEventOptions() [static]

Default options: CachingOption: DoNotCache, InterestGroup: 0, targetActors: null, receivers: Others, sequence↩ Channel: 0.

8.93.2.3 bool RaiseEventOptions.Encrypt

8.93.2.4 bool RaiseEventOptions.ForwardToWebhook

Events can be forwarded to Webhooks, which can evaluate and use the events to follow the game's state.

8.93.2.5 byte RaiseEventOptions.InterestGroup

The number of the Interest Group to send this to. 0 goes to all users but to get 1 and up, clients must subscribe to the group first.

8.93.2.6 ReceiverGroup RaiseEventOptions.Receivers

Sends the event to All, MasterClient or Others (default). Be careful with MasterClient, as the client might disconnect before it got the event and it gets lost.

8.93.2.7 byte RaiseEventOptions.SequenceChannel

Events are ordered per "channel". If you have events that are independent of others, they can go into another sequence or channel.

8.93.2.8 int [ ] RaiseEventOptions.TargetActors

A list of PhotonPlayer.IDs to send this event to. You can implement events that just go to specific users this way.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.94 Region Class Reference

Public Member Functions

- override string ToString ()

Static Public Member Functions

- static CloudRegionCode Parse (string codeAsString)

Public Attributes

- CloudRegionCode Code
- string HostAndPort
- int Ping

8.94.1 Member Function Documentation

8.94.1.1 static CloudRegionCode Region.Parse (string *codeAsString*) [static]

8.94.1.2 override string Region.ToString ( )

8.94.2 Member Data Documentation

8.94.2.1 CloudRegionCode Region.Code

8.94.2.2 string Region.HostAndPort

8.94.2.3 int Region.Ping

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/ServerSettings.cs

8.95 Room Class Reference

This class resembles a room that PUN joins (or joined).

Inherits RoomInfo.

Public Member Functions

- void SetCustomProperties (Hashtable propertiesToSet, Hashtable expectedValues=null, bool webForward=false)

  Updates the current room's Custom Properties with new/updated key-values.
- void SetPropertiesListedInLobby (string[] propsListedInLobby)

  Enables you to define the properties available in the lobby if not all properties are needed to pick a room.
- override string ToString ()

  Returns a summary of this Room instance as string.
- new string ToStringFull ()

  Returns a summary of this Room instance as longer string, including Custom Properties.

Properties

- new int playerCount `[get]`

  Count of players in this room.
- new string name `[get, set]`

  The name of a room. Unique identifier (per Loadbalancing group) for a room/match.
- new int maxPlayers `[get, set]`

  Sets a limit of players to this room.
- new bool open `[get, set]`

  Defines if the room can be joined.
- new bool visible `[get, set]`

  Defines if the room is listed in its lobby.
- string[] propertiesListedInLobby `[get]`

  A list of custom properties that should be forwarded to the lobby and listed there.
- bool autoCleanUp `[get]`

  Gets if this room uses autoCleanUp to remove all (buffered) RPCs and instantiated GameObjects when a player leaves.

Additional Inherited Members

8.95.1 Detailed Description

This class resembles a room that PUN joins (or joined).

The properties are settable as opposed to those of a RoomInfo and you can close or hide "your" room.

8.95.2 Member Function Documentation

8.95.2.1 void Room.SetCustomProperties (Hashtable *propertiesToSet*, Hashtable *expectedValues* = `null`, bool *webForward* = `false`)

Updates the current room's Custom Properties with new/updated key-values.

Custom Properties are a key-value set (Hashtable) which is available to all players in a room. They can relate to the room or individual players and are useful when only the current value of something is of interest. For example: The map of a room. All keys must be strings.

The Room and the PhotonPlayer class both have SetCustomProperties methods. Also, both classes offer access to current key-values by: customProperties.

Always use SetCustomProperties to change values. To reduce network traffic, set only values that actually changed. New properties are added, existing values are updated. Other values will not be changed, so only provide values that changed or are new.

To delete a named (custom) property of this room, use null as value.

Locally, SetCustomProperties will update it's cache without delay. Other clients are updated through Photon (the server) with a fitting operation.

Check and Swap

SetCustomProperties have the option to do a server-side Check-And-Swap (CAS): Values only get updated if the expected values are correct. The expectedValues can be different key/values than the propertiesToSet. So you can check some key and set another key's value (if the check succeeds).

If the client's knowledge of properties is wrong or outdated, it can't set values with CAS. This can be useful to keep players from concurrently setting values. For example: If all players try to pickup some card or item, only one should get it. With CAS, only the first SetProperties gets executed server-side and any other (sent at the same time) fails.

The server will broadcast successfully changed values and the local "cache" of customProperties only gets updated after a roundtrip (if anything changed).

You can do a "webForward": Photon will send the changed properties to a WebHook defined for your application.

OfflineMode

While PhotonNetwork.offlineMode is true, the expectedValues and webForward parameters are ignored. In Offline↩ Mode, the local customProperties values are immediately updated (without the roundtrip).

Parameters

propertiesToSet	The new properties to be set.
expectedValues	At least one property key/value set to check server-side. Key and value must be correct. Ignored in OfflineMode.
webForward	Set to true, to forward the set properties to a WebHook, defined for this app (in Dashboard). Ignored in OfflineMode.

8.95.2.2 void Room.SetPropertiesListedInLobby (string[ ] *propsListedInLobby*)

Enables you to define the properties available in the lobby if not all properties are needed to pick a room.

It makes sense to limit the amount of properties sent to users in the lobby as this improves speed and stability.

Parameters

propsListedInLobby	An array of custom room property names to forward to the lobby.

8.95.2.3 override string Room.ToString ( )

Returns a summary of this Room instance as string.

Returns

Summary of this Room instance.

8.95.2.4 new string Room.ToStringFull ( )

Returns a summary of this Room instance as longer string, including Custom Properties.

Returns

Summary of this Room instance.

8.95.3 Property Documentation

8.95.3.1 bool Room.autoCleanUp [get]

Gets if this room uses autoCleanUp to remove all (buffered) RPCs and instantiated GameObjects when a player leaves.

8.95.3.2 new int Room.maxPlayers [get], [set]

Sets a limit of players to this room.

This property is shown in lobby, too. If the room is full (players count == maxplayers), joining this room will fail.

8.95.3.3 new string Room.name [get], [set]

The name of a room. Unique identifier (per Loadbalancing group) for a room/match.

8.95.3.4 new bool Room.open [get], [set]

Defines if the room can be joined.

This does not affect listing in a lobby but joining the room will fail if not open. If not open, the room is excluded from random matchmaking. Due to racing conditions, found matches might become closed before they are joined. Simply re-connect to master and find another. Use property "visible" to not list the room.

8.95.3.5 new int Room.playerCount [get]

Count of players in this room.

8.95.3.6 string [ ] Room.propertiesListedInLobby [get]

A list of custom properties that should be forwarded to the lobby and listed there.

8.95.3.7 new bool Room.visible [get], [set]

Defines if the room is listed in its lobby.

Rooms can be created invisible, or changed to invisible. To change if a room can be joined, use property: open.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Room.cs

8.96 RoomInfo Class Reference

A simplified room with just the info required to list and join, used for the room listing in the lobby.

Inherited by Room.

Public Member Functions

- override bool Equals (object p)

  Makes RoomInfo comparable (by name).
- override int GetHashCode ()

  Accompanies Equals, using the name's HashCode as return.
- override string ToString ()

  Simple printingin method.
- string ToStringFull ()

  Simple printingin method.

Protected Attributes

- byte maxPlayersField = 0

  Backing field for property.
- bool openField = true

  Backing field for property.
- bool visibleField = true

  Backing field for property.
- bool autoCleanUpField = PhotonNetwork.autoCleanUpPlayerObjects

  Backing field for property. False unless the GameProperty is set to true (else it's not sent).
- string nameField

  Backing field for property.

Properties

- bool removedFromList [get, set]

  Used internally in lobby, to mark rooms that are no longer listed.
- Hashtable customProperties [get]

  Read-only "cache" of custom properties of a room.
- string name [get]

  The name of a room. Unique identifier (per Loadbalancing group) for a room/match.
- int playerCount [get]

  Only used internally in lobby, to display number of players in room (while you're not in).
- bool isLocalClientInside [get, set]

  State if the local client is already in the game or still going to join it on gameserver (in lobby always false).
- byte maxPlayers [get]

  Sets a limit of players to this room.
- bool open [get]

  Defines if the room can be joined.
- bool visible [get]

  Defines if the room is listed in its lobby.

8.96.1 Detailed Description

A simplified room with just the info required to list and join, used for the room listing in the lobby.

The properties are not settable (open, maxPlayers, etc).

This class resembles info about available rooms, as sent by the Master server's lobby. Consider all values as readonly. None are synced (only updated by events by server).

8.96.2 Member Function Documentation

8.96.2.1 override bool RoomInfo.Equals (object *p*)

Makes RoomInfo comparable (by name).

8.96.2.2 override int RoomInfo.GetHashCode ( )

Accompanies Equals, using the name's HashCode as return.

Returns

8.96.2.3 override string RoomInfo.ToString ( )

Simple printingin method.

Returns

Summary of this RoomInfo instance.

8.96.2.4 string RoomInfo.ToStringFull ( )

Simple printingin method.

Returns

Summary of this RoomInfo instance.

8.96.3 Member Data Documentation

8.96.3.1 bool RoomInfo.autoCleanUpField = PhotonNetwork.autoCleanUpPlayerObjects [protected]

Backing field for property. False unless the GameProperty is set to true (else it's not sent).

8.96.3.2 byte RoomInfo.maxPlayersField = 0 [protected]

Backing field for property.

8.96.3.3 string RoomInfo.nameField [protected]

Backing field for property.

8.96.3.4 bool RoomInfo.openField = true [protected]

Backing field for property.

8.96.3.5 bool RoomInfo.visibleField = true [protected]

Backing field for property.

8.96.4 Property Documentation

8.96.4.1 Hashtable RoomInfo.customProperties [get]

Read-only "cache" of custom properties of a room.

Set via Room.SetCustomProperties (not available for RoomInfo class!).

All keys are string-typed and the values depend on the game/application.

Room.SetCustomProperties

8.96.4.2 bool RoomInfo.isLocalClientInside [get], [set]

State if the local client is already in the game or still going to join it on gameserver (in lobby always false).

8.96.4.3 byte RoomInfo.maxPlayers [get]

Sets a limit of players to this room.

This property is shown in lobby, too. If the room is full (players count == maxplayers), joining this room will fail.

As part of RoomInfo this can't be set. As part of a Room (which the player joined), the setter will update the server and all clients.

8.96.4.4 string RoomInfo.name [get]

The name of a room. Unique identifier (per Loadbalancing group) for a room/match.

8.96.4.5 bool RoomInfo.open [get]

Defines if the room can be joined.

This does not affect listing in a lobby but joining the room will fail if not open. If not open, the room is excluded from random matchmaking. Due to racing conditions, found matches might become closed before they are joined. Simply re-connect to master and find another. Use property "IsVisible" to not list the room.

As part of RoomInfo this can't be set. As part of a Room (which the player joined), the setter will update the server and all clients.

8.96.4.6 int RoomInfo.playerCount [get]

Only used internally in lobby, to display number of players in room (while you're not in).

8.96.4.7 bool RoomInfo.removedFromList [get], [set]

Used internally in lobby, to mark rooms that are no longer listed.

8.96.4.8 bool RoomInfo.visible [get]

Defines if the room is listed in its lobby.

Rooms can be created invisible, or changed to invisible. To change if a room can be joined, use property: open.

As part of RoomInfo this can't be set. As part of a Room (which the player joined), the setter will update the server and all clients.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/RoomInfo.cs

8.97 RoomOptions Class Reference

Wraps up common room properties needed when you create rooms.

Public Attributes

- byte maxPlayers

  Max number of players that can be in the room at any time. 0 means "no limit".
- Hashtable customRoomProperties

  The room's custom properties to set.
- string[ ] customRoomPropertiesForLobby = new string[0]

  Defines the custom room properties that get listed in the lobby.

Properties

- bool isVisible `[get, set]`

  Defines if this room is listed in the lobby.
- bool isOpen `[get, set]`

  Defines if this room can be joined at all.
- bool cleanupCacheOnLeave `[get, set]`

  Time To Live (TTL) for an 'actor' in a room. If a client disconnects, this actor is inactive first and removed after this timeout. In milliseconds.
- bool suppressRoomEvents `[get]`

  Tells the server to skip room events for joining and leaving players.

8.97.1 Detailed Description

Wraps up common room properties needed when you create rooms.

This directly maps to what the fields in the Room class.

8.97.2 Member Data Documentation

8.97.2.1 Hashtable RoomOptions.customRoomProperties

The room's custom properties to set.

Use string keys!

Custom room properties are any key-values you need to define the game's setup. The shorter your keys are, the better. Example: Map, Mode (could be "m" when used with "Map"), TileSet (could be "t").

8.97.2.2 string [ ] RoomOptions.customRoomPropertiesForLobby = new string[0]

Defines the custom room properties that get listed in the lobby.

Name the custom room properties that should be available to clients that are in a lobby. Use with care. Unless a custom property is essential for matchmaking or user info, it should not be sent to the lobby, which causes traffic and delays for clients in the lobby.

Default: No custom properties are sent to the lobby.

8.97.2.3 byte RoomOptions.maxPlayers

Max number of players that can be in the room at any time. 0 means "no limit".

8.97.3 Property Documentation

8.97.3.1 bool RoomOptions.cleanupCacheOnLeave [get], [set]

Time To Live (TTL) for an 'actor' in a room. If a client disconnects, this actor is inactive first and removed after this timeout. In milliseconds.

Time To Live (TTL) for a room when the last player leaves. Keeps room in memory for case a player re-joins soon. In milliseconds.

Time To Live (TTL) for a room when the last player leaves. Keeps room in memory for case a player re-joins soon. In milliseconds.

Removes a user's events and properties from the room when a user leaves.

This makes sense when in rooms where players can't place items in the room and just vanish entirely. When you disable this, the event history can become too long to load if the room stays in use indefinitely. Default: true. Cleans up the cache and props of leaving users.

8.97.3.2 bool RoomOptions.isOpen [get], [set]

Defines if this room can be joined at all.

If a room is closed, no player can join this. As example this makes sense when 3 of 4 possible players start their gameplay early and don't want anyone to join during the game. The room can still be listed in the lobby (set isVisible to control lobby-visibility).

8.97.3.3 bool RoomOptions.isVisible [get], [set]

Defines if this room is listed in the lobby.

If not, it also is not joined randomly.

A room that is not visible will be excluded from the room lists that are sent to the clients in lobbies. An invisible room can be joined by name but is excluded from random matchmaking.

Use this to "hide" a room and simulate "private rooms". Players can exchange a roomname and create it invisble to avoid anyone else joining it.

8.97.3.4 bool RoomOptions.suppressRoomEvents [get]

Tells the server to skip room events for joining and leaving players.

Using this makes the client unaware of the other players in a room. That can save some traffic if you have some server logic that updates players but it can also limit the client's usability.

PUN will break if you use this, so it's not settable.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.98 Rotating Class Reference

Inherits MonoBehaviour.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/Rotating.cs

8.99 UnityEngine.SceneManagement.SceneManager Class Reference

Minimal implementation of the SceneManager for older Unity, up to v5.2.

Static Public Member Functions

- static void LoadScene (string name)
- static void LoadScene (int buildIndex)

8.99.1 Detailed Description

Minimal implementation of the SceneManager for older Unity, up to v5.2.

8.99.2 Member Function Documentation

8.99.2.1 static void UnityEngine.SceneManagement.SceneManager.LoadScene (string *name*) [static]

8.99.2.2 static void UnityEngine.SceneManagement.SceneManager.LoadScene (int *buildIndex*) [static]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.100 SceneManagerHelper Class Reference

Properties

- static string ActiveSceneName [get]
- static int ActiveSceneBuildIndex [get]

8.100.1 Property Documentation

8.100.1.1 int SceneManagerHelper.ActiveSceneBuildIndex [static], [get]

8.100.1.2 string SceneManagerHelper.ActiveSceneName [static], [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

8.101 SceneSetting Class Reference

Public Attributes

- string sceneName
- int minViewId

8.101.1 Member Data Documentation

8.101.1.1 int SceneSetting.minViewId

8.101.1.2 string SceneSetting.sceneName

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PunSceneSettings.cs

8.102 ScoreExtensions Class Reference

Static Public Member Functions

- static void SetScore (this PhotonPlayer player, int newScore)
- static void AddScore (this PhotonPlayer player, int scoreToAddToCurrent)
- static int GetScore (this PhotonPlayer player)

8.102.1 Member Function Documentation

8.102.1.1 static void ScoreExtensions.AddScore (this PhotonPlayer *player,* int *scoreToAddToCurrent*) [static]

8.102.1.2 static int ScoreExtensions.GetScore (this PhotonPlayer *player*) [static]

8.102.1.3 static void ScoreExtensions.SetScore (this PhotonPlayer *player,* int *newScore*) [static]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PunPlayerScores.cs

8.103 ServerSettings Class Reference

Collection of connection-relevant settings, used internally by PhotonNetwork.ConnectUsingSettings.

Inherits ScriptableObject.

Public Types

- enum HostingOption {
  HostingOption.NotSet = 0, HostingOption.PhotonCloud = 1, HostingOption.SelfHosted = 2, HostingOption.↩
  OfflineMode = 3,
  HostingOption.BestRegion = 4 }

Public Member Functions

- void UseCloudBestRegion (string cloudAppid)
- void UseCloud (string cloudAppid)
- void UseCloud (string cloudAppid, CloudRegionCode code)
- void UseMyServer (string serverAddress, int serverPort, string application)
- override string ToString ()

Public Attributes

- HostingOption HostType = HostingOption.NotSet
- ConnectionProtocol Protocol = ConnectionProtocol.Udp
- string ServerAddress = ""
- int ServerPort = 5055
- string AppID = ""
- CloudRegionCode PreferredRegion
- CloudRegionFlag EnabledRegions = (CloudRegionFlag)(-1)
- bool JoinLobby
- bool EnableLobbyStatistics
- List< string > RpcList = new List<string>()
- bool DisableAutoOpenWizard

8.103.1 Detailed Description

Collection of connection-relevant settings, used internally by PhotonNetwork.ConnectUsingSettings.

8.103.2 Member Enumeration Documentation

8.103.2.1 enum ServerSettings.HostingOption [strong]

Enumerator

NotSet

PhotonCloud

SelfHosted

OfflineMode

BestRegion

8.103.3 Member Function Documentation

8.103.3.1 override string ServerSettings.ToString ( )

8.103.3.2 void ServerSettings.UseCloud (string *cloudAppid*)

8.103.3.3 void ServerSettings.UseCloud (string *cloudAppid,* CloudRegionCode *code*)

8.103.3.4 void ServerSettings.UseCloudBestRegion (string *cloudAppid*)

8.103.3.5 void ServerSettings.UseMyServer (string *serverAddress,* int *serverPort,* string *application*)

8.103.4 Member Data Documentation

8.103.4.1 string ServerSettings.AppID = ""

8.103.4.2 bool ServerSettings.DisableAutoOpenWizard

8.103.4.3 CloudRegionFlag ServerSettings.EnabledRegions = (CloudRegionFlag)(-1)

8.103.4.4 bool ServerSettings.EnableLobbyStatistics

8.103.4.5 HostingOption ServerSettings.HostType = HostingOption.NotSet

8.103.4.6 bool ServerSettings.JoinLobby

8.103.4.7 CloudRegionCode ServerSettings.PreferredRegion

8.103.4.8 ConnectionProtocol ServerSettings.Protocol = ConnectionProtocol.Udp

8.103.4.9 List<string> ServerSettings.RpcList = new List<string>()

8.103.4.10 string ServerSettings.ServerAddress = ""

8.103.4.11 int ServerSettings.ServerPort = 5055

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/ServerSettings.cs

8.104 ServerSettingsInspector Class Reference

Inherits Editor.

Public Types

- enum ProtocolChoices { ProtocolChoices.Udp = ConnectionProtocol.Udp, ProtocolChoices.Tcp = ConnectionProtocol.Tcp }

Public Member Functions

- override void OnInspectorGUI ()

Static Public Member Functions

- static bool IsAppId (string val)

  Checks if a string is a Guid by attempting to create one.

8.104.1 Member Enumeration Documentation

8.104.1.1 enum ServerSettingsInspector.ProtocolChoices [strong]

Enumerator

Udp

Tcp

8.104.2 Member Function Documentation

8.104.2.1 static bool ServerSettingsInspector.IsAppId (string *val*) [static]

Checks if a string is a Guid by attempting to create one.

Parameters

val	The potential guid to check.

Returns

True if new Guid(val) did not fail.

8.104.2.2 override void ServerSettingsInspector.OnInspectorGUI ( )

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/ServerSettingsInspector.cs

8.105 ServerTime Class Reference

Inherits MonoBehaviour.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/ServerTime.cs

8.106 ShowInfoOfPlayer Class Reference

Can be attached to a GameObject to show info about the owner of the PhotonView.

Inherits Photon.MonoBehaviour.

Public Attributes

- float CharacterSize = 0
- Font font
- bool DisableOnOwnObjects

Additional Inherited Members

8.106.1 Detailed Description

Can be attached to a GameObject to show info about the owner of the PhotonView.

This is a Photon.Monobehaviour, which adds the property photonView (that's all).

8.106.2 Member Data Documentation

8.106.2.1 float ShowInfoOfPlayer.CharacterSize = 0

8.106.2.2 bool ShowInfoOfPlayer.DisableOnOwnObjects

8.106.2.3 Font ShowInfoOfPlayer.font

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/ShowInfoOfPlayer.cs

8.107 ShowStatusWhenConnecting Class Reference

Inherits MonoBehaviour.

Public Attributes

- GUISkin Skin

8.107.1 Member Data Documentation

8.107.1.1 GUISkin ShowStatusWhenConnecting.Skin

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/ShowStatusWhenConnecting.cs

8.108 UnityStandardAssets.Utility.SmoothFollow Class Reference

Inherits MonoBehaviour.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Standard Assets/Utility/SmoothFollow.cs

8.109 SmoothSyncMovement Class Reference

Inherits Photon.MonoBehaviour.

Public Member Functions

- void Awake ()
- void OnPhotonSerializeView (PhotonStream stream, PhotonMessageInfo info)
- void Update ()

Public Attributes

- float SmoothingDelay = 5

Additional Inherited Members

8.109.1 Member Function Documentation

8.109.1.1 void SmoothSyncMovement.Awake ( )

8.109.1.2 void SmoothSyncMovement.OnPhotonSerializeView (PhotonStream *stream,* PhotonMessageInfo *info*)

8.109.1.3 void SmoothSyncMovement.Update ( )

8.109.2 Member Data Documentation

8.109.2.1 float SmoothSyncMovement.SmoothingDelay = 5

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/SmoothSyncMovement.cs

8.110 SupportLogger Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void Start ()

Public Attributes

- bool LogTrafficStats = true

8.110.1 Member Function Documentation

8.110.1.1 void SupportLogger.Start ( )

8.110.2 Member Data Documentation

8.110.2.1 bool SupportLogger.LogTrafficStats = true

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/SupportLogger.cs

8.111 SupportLogging Class Reference

Inherits MonoBehaviour.

Public Member Functions

- void Start ()
- void OnApplicationQuit ()
- void LogStats ()
- void OnConnectedToPhoton ()
- void OnFailedToConnectToPhoton (DisconnectCause cause)
- void OnJoinedLobby ()
- void OnJoinedRoom ()
- void OnCreatedRoom ()
- void OnLeftRoom ()
- void OnDisconnectedFromPhoton ()

Public Attributes

- bool LogTrafficStats

Protected Member Functions

- void OnApplicationPause (bool pause)

8.111.1 Member Function Documentation

8.111.1.1 void SupportLogging.LogStats ( )

8.111.1.2 void SupportLogging.OnApplicationPause (bool *pause*) [protected]

8.111.1.3 void SupportLogging.OnApplicationQuit ( )

8.111.1.4 void SupportLogging.OnConnectedToPhoton ( )

8.111.1.5 void SupportLogging.OnCreatedRoom ( )

8.111.1.6 void SupportLogging.OnDisconnectedFromPhoton ( )

8.111.1.7 void SupportLogging.OnFailedToConnectToPhoton (DisconnectCause *cause*)

8.111.1.8 void SupportLogging.OnJoinedLobby ( )

8.111.1.9 void SupportLogging.OnJoinedRoom ( )

8.111.1.10 void SupportLogging.OnLeftRoom ( )

8.111.1.11 void SupportLogging.Start ( )

8.111.2 Member Data Documentation

8.111.2.1 bool SupportLogging.LogTrafficStats

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/SupportLogger.cs

8.112 PhotonAnimatorView.SynchronizedLayer Class Reference

Public Attributes

- SynchronizeType SynchronizeType
- int LayerIndex

8.112.1 Member Data Documentation

8.112.1.1 int PhotonAnimatorView.SynchronizedLayer.LayerIndex

8.112.1.2 SynchronizeType PhotonAnimatorView.SynchronizedLayer.SynchronizeType

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonAnimatorView.cs

8.113 PhotonAnimatorView.SynchronizedParameter Class Reference

Public Attributes

- ParameterType Type
- SynchronizeType SynchronizeType
- string Name

8.113.1 Member Data Documentation

8.113.1.1 string PhotonAnimatorView.SynchronizedParameter.Name

8.113.1.2 SynchronizeType PhotonAnimatorView.SynchronizedParameter.SynchronizeType

8.113.1.3 ParameterType PhotonAnimatorView.SynchronizedParameter.Type

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonAnimatorView.cs

8.114 TeamExtensions Class Reference

Extension used for PunTeams and PhotonPlayer class. Wraps access to the player's custom property.

Static Public Member Functions

- static PunTeams.Team GetTeam (this PhotonPlayer player)

  Extension for PhotonPlayer class to wrap up access to the player's custom property.
- static void SetTeam (this PhotonPlayer player, PunTeams.Team team)

  Switch that player's team to the one you assign.

8.114.1 Detailed Description

Extension used for PunTeams and PhotonPlayer class. Wraps access to the player's custom property.

8.114.2 Member Function Documentation

8.114.2.1 static PunTeams.Team TeamExtensions.GetTeam (this PhotonPlayer *player*) [static]

Extension for PhotonPlayer class to wrap up access to the player's custom property.

Returns

PunTeam.Team.none if no team was found (yet).

8.114.2.2 static void TeamExtensions.SetTeam (this PhotonPlayer *player*, PunTeams.Team *team*) [static]

Switch that player's team to the one you assign.

Internally checks if this player is in that team already or not. Only team switches are actually sent.

Parameters

player	
team	

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PunTeams.cs

8.115 ExitGames.Client.DemoParticle.TimeKeeper Class Reference

A utility class that turns it's ShouldExecute property to true after a set interval time has passed.

Public Member Functions

- TimeKeeper (int interval)

  Creates a new TimeKeeper and sets it's interval.
- void Reset ()

  ShouldExecute becomes false and the time interval is refreshed for next execution.

Properties

- int Interval [get, set]

  Interval in which ShouldExecute should be true (and something is executed).
- bool IsEnabled [get, set]

  A disabled TimeKeeper never turns ShouldExecute to true. Reset won't affect IsEnabled!
- bool ShouldExecute [get, set]

  Turns true of the time interval has passed (after reset or creation) or someone set ShouldExecute manually.

8.115.1 Detailed Description

A utility class that turns it's ShouldExecute property to true after a set interval time has passed.

TimeKeepers can be useful to execute tasks in a certain interval within a game loop (integrating a recurring task into a certain thread).

An interval can be overridden, when you set ShouldExecute to true. Call Reset after execution of whatever you do to re-enable the TimeKeeper (ShouldExecute becomes false until interval passed). Being based on Environment.↩ TickCount, this is not very precise but cheap.

8.115.2 Constructor & Destructor Documentation

8.115.2.1 ExitGames.Client.DemoParticle.TimeKeeper.TimeKeeper (int *interval*)

Creates a new TimeKeeper and sets it's interval.

Parameters

interval	

8.115.3 Member Function Documentation

8.115.3.1 void ExitGames.Client.DemoParticle.TimeKeeper.Reset ( )

ShouldExecute becomes false and the time interval is refreshed for next execution.

Does not affect IsEnabled.

8.115.4 Property Documentation

8.115.4.1 int ExitGames.Client.DemoParticle.TimeKeeper.Interval [get], [set]

Interval in which ShouldExecute should be true (and something is executed).

8.115.4.2 bool ExitGames.Client.DemoParticle.TimeKeeper.IsEnabled [get],[set]

A disabled TimeKeeper never turns ShouldExecute to true. Reset won't affect IsEnabled!

8.115.4.3 bool ExitGames.Client.DemoParticle.TimeKeeper.ShouldExecute [get],[set]

Turns true of the time interval has passed (after reset or creation) or someone set ShouldExecute manually.

Call Reset to start a new interval.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/TimeKeeper.cs

8.116 TypedLobby Class Reference

Refers to a specific lobby (and type) on the server.

Inherited by TypedLobbyInfo.

Public Member Functions

- TypedLobby ()
- TypedLobby (string name, LobbyType type)
- override string ToString ()

Public Attributes

- string Name

  Name of the lobby this game gets added to. Default: null, attached to default lobby. Lobbies are unique per lobbyName plus lobbyType, so the same name can be used when several types are existing.
- LobbyType Type

  Type of the (named)lobby this game gets added to

Static Public Attributes

- static readonly TypedLobby Default = new TypedLobby()

Properties

- bool IsDefault [get]

8.116.1 Detailed Description

Refers to a specific lobby (and type) on the server.

The name and type are the unique identifier for a lobby.
Join a lobby via PhotonNetwork.JoinLobby(TypedLobby lobby).
The current lobby is stored in PhotonNetwork.lobby.

8.116.2 Constructor & Destructor Documentation

8.116.2.1 TypedLobby.TypedLobby ( )

8.116.2.2 TypedLobby.TypedLobby (string *name*, LobbyType *type*)

8.116.3 Member Function Documentation

8.116.3.1 override string TypedLobby.ToString ( )

8.116.4 Member Data Documentation

8.116.4.1 readonly TypedLobby TypedLobby.Default = new TypedLobby() [static]

8.116.4.2 string TypedLobby.Name

Name of the lobby this game gets added to. Default: null, attached to default lobby. Lobbies are unique per lobbyName plus lobbyType, so the same name can be used when several types are existing.

8.116.4.3 LobbyType TypedLobby.Type

Type of the (named)lobby this game gets added to

8.116.5 Property Documentation

8.116.5.1 bool TypedLobby.IsDefault [get]

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.117 TypedLobbyInfo Class Reference

Inherits TypedLobby.

Public Member Functions

- override string ToString ()

Public Attributes

- int PlayerCount
- int RoomCount

Additional Inherited Members

8.117.1 Member Function Documentation

8.117.1.1 override string TypedLobbyInfo.ToString ( )

8.117.2 Member Data Documentation

8.117.2.1 int TypedLobbyInfo.PlayerCount

8.117.2.2 int TypedLobbyInfo.RoomCount

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs

8.118 WebRpcResponse Class Reference

Reads an operation response of a WebRpc and provides convenient access to most common values.

Public Member Functions

- WebRpcResponse (OperationResponse response)

  An OperationResponse for a WebRpc is needed to read it's values.
- string ToStringFull ()

  Turns the response into an easier to read string.

Properties

- string Name [get]

  Name of the WebRpc that was called.
- int ReturnCode [get]

  ReturnCode of the WebService that answered the WebRpc.
- string DebugMessage [get]

  Might be empty or null.
- Dictionary< string, object > Parameters [get]

  Other key/values returned by the webservice that answered the WebRpc.

8.118.1 Detailed Description

Reads an operation response of a WebRpc and provides convenient access to most common values.

See method PhotonNetwork.WebRpc.
Create a WebRpcResponse to access common result values.
The operationResponse.OperationCode should be: OperationCode.WebRpc.

8.118.2 Constructor & Destructor Documentation

8.118.2.1 WebRpcResponse.WebRpcResponse (OperationResponse *response*)

An OperationResponse for a WebRpc is needed to read it's values.

8.118.3 Member Function Documentation

8.118.3.1 string WebRpcResponse.ToStringFull ( )

Turns the response into an easier to read string.

Returns

String resembling the result.

8.118.4 Property Documentation

8.118.4.1 string WebRpcResponse.DebugMessage [get]

Might be empty or null.

8.118.4.2 string WebRpcResponse.Name [get]

Name of the WebRpc that was called.

8.118.4.3 Dictionary<string, object> WebRpcResponse.Parameters [get]

Other key/values returned by the webservice that answered the WebRpc.

8.118.4.4 int WebRpcResponse.ReturnCode [get]

ReturnCode of the WebService that answered the WebRpc.

0 is commonly used to signal success.
-1 tells you: Got no ReturnCode from WebRpc service.
Other ReturnCodes are defined by the individual WebRpc and service.

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

- C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonClasses.cs

Chapter 9

File Documentation

9.1 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/ColorRPC.cs File Reference

Classes

- class ColorRPC

9.2 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Editor/Doxygen/↩ DoxygenWindow.cs File Reference

Classes

- class DoxygenConfig
- class DoxygenWindow
- class DoxyRunner

  This class spawns and runs Doxygen in a separate thread, and could serve as an example of how to create plugins for unity that call a command line application and then get the data back into Unity safely.
- class DoxyThreadSafeOutput

  This class encapsulates the data output by Doxygen so it can be shared with Unity in a thread share way.

9.3 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Editor/PhotonNetwork/AccountService.cs File Reference

Classes

- class AccountService

9.4 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonConverter.cs File Reference

Classes

- class PhotonConverter

9.5 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonEditor.cs File Reference

Classes

- class PunWizardText
- class PhotonEditor

9.6 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonGUI.cs File Reference

Classes

- class PhotonGUI

9.7 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonViewHandler.cs File Reference

Classes

- class PhotonViewHandler

Typedefs

- using Debug = UnityEngine.Debug

9.7.1 Typedef Documentation

9.7.1.1 using Debug = UnityEngine.Debug

9.8 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/PhotonViewInspector.cs File Reference

Classes

- class PhotonViewInspector

9.9 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Editor/PhotonNetwork/PhotonViewPrefabApply.cs File Reference

9.10 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Editor/PhotonNetwork/PunSceneSettings.cs File Reference

Classes

- class SceneSetting
- class PunSceneSettings

9.11 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Editor/PhotonNetwork/ReorderableListResources.cs File Reference

Classes

- class **Rotorz.ReorderableList.Internal.ReorderableListResources**

  Resources to assist with reorderable list control.

Namespaces

- namespace Rotorz.ReorderableList.Internal

9.12 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Editor/PhotonNetwork/ServerSettingsInspector.cs File Reference

Classes

- class ServerSettingsInspector

9.13 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Editor/PhotonNetwork/Views/PhotonAnimatorViewEditor.cs File Reference

Classes

- class PhotonAnimatorViewEditor

9.14 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Editor/PhotonNetwork/Views/PhotonRigidbody2DViewEditor.cs File Reference

Classes

- class PhotonRigidbody2DViewEditor

9.15 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/Views/PhotonRigidbodyViewEditor.cs File Reference

Classes

- class PhotonRigidbodyViewEditor

9.16 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Editor/PhotonNetwork/Views/PhotonTransformViewEditor.cs File Reference

Classes

- class PhotonTransformViewEditor

9.17 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/CustomTypes.cs File Reference

Sets up support for Unity-specific types.

Classes

- class **CustomTypes**

  Internally used class, containing de/serialization methods for various Unity-specific classes.

9.17.1 Detailed Description

Sets up support for Unity-specific types.

Can be a blueprint how to register your own Custom Types for sending.

9.18 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Enums.cs File Reference

Wraps up several of the commonly used enumerations.

Enumerations

- enum PhotonNetworkingMessage {
  PhotonNetworkingMessage.OnConnectedToPhoton, PhotonNetworkingMessage.OnLeftRoom, PhotonNetworkingMessage.OnMasterClientSwitched, PhotonNetworkingMessage.OnPhotonCreateRoomFailed, PhotonNetworkingMessage.OnPhotonJoinRoomFailed, PhotonNetworkingMessage.OnCreatedRoom, PhotonNetworkingMessage.OnJoinedLobby, PhotonNetworkingMessage.OnLeftLobby, PhotonNetworkingMessage.OnDisconnectedFromPhoton, PhotonNetworkingMessage.OnConnectionFail, PhotonNetworkingMessage.OnFailedToConnectToPhoton, PhotonNetworkingMessage.OnReceivedRoomListUpdate, PhotonNetworkingMessage.OnJoinedRoom, PhotonNetworkingMessage.OnPhotonPlayerConnected, PhotonNetworkingMessage.OnPhotonPlayerDisconnected, PhotonNetworkingMessage.OnPhotonRandomJoinFailed, PhotonNetworkingMessage.OnConnectedToMaster, PhotonNetworkingMessage.OnPhotonSerializeView, PhotonNetworkingMessage.OnPhotonInstantiate, PhotonNetworkingMessage.OnPhotonMaxCccuReached, PhotonNetworkingMessage.OnPhotonCustomRoomPropertiesChanged, PhotonNetworkingMessage.OnPhotonPlayerPropertiesChanged, PhotonNetworkingMessage.OnUpdatedFriendList, PhotonNetworkingMessage.OnCustomAuthenticationFailed, PhotonNetworkingMessage.OnWebRpcResponse, PhotonNetworkingMessage.OnOwnershipRequest, PhotonNetworkingMessage.OnLobbyStatisticsUpdate }

  This enum defines the set of MonoMessages Photon Unity Networking is using as callbacks.
- enum PhotonLogLevel { PhotonLogLevel.ErrorsOnly, PhotonLogLevel.Informational, PhotonLogLevel.Full }

  Used to define the level of logging output created by the PUN classes.
- enum PhotonTargets {
  PhotonTargets.All, PhotonTargets.Others, PhotonTargets.MasterClient, PhotonTargets.AllBuffered, PhotonTargets.OthersBuffered, PhotonTargets.AllViaServer, PhotonTargets.AllBufferedViaServer }

  Enum of "target" options for RPCs.
- enum CloudRegionCode {
  CloudRegionCode.eu = 0, CloudRegionCode.us = 1, CloudRegionCode.asia = 2, CloudRegionCode.jp = 3, CloudRegionCode.au = 5, CloudRegionCode.none = 4 }

  Currently available `Photon Cloud regions` as enum.
- enum CloudRegionFlag {
  CloudRegionFlag.eu = 1 << 0, CloudRegionFlag.us = 1 << 1, CloudRegionFlag.asia = 1 << 2, CloudRegionFlag.jp = 1 << 3, CloudRegionFlag.au = 1 << 4 }

  Available regions as enum of flags.
- enum ServerConnection { ServerConnection.MasterServer, ServerConnection.GameServer, ServerConnection.NameServer }

  Available server (types) for internally used field: server.
- enum ConnectionState {
  ConnectionState.Disconnected, ConnectionState.Connecting, ConnectionState.Connected, ConnectionState.Disconnecting, ConnectionState.InitializingApplication }

  High level connection state of the client.
- enum PeerState {
  PeerState.Uninitialized, PeerState.PeerCreated, PeerState.Queued, PeerState.Authenticated, PeerState.JoinedLobby, PeerState.DisconnectingFromMasterserver, PeerState.ConnectingToGameserver, PeerState.ConnectedToGameserver, PeerState.Joining, PeerState.Joined, PeerState.Leaving, PeerState.DisconnectingFromGameserver, PeerState.ConnectingToMasterserver, PeerState.QueuedComingFromGameserver, PeerState.Disconnecting, PeerState.Disconnected, PeerState.ConnectedToMaster, PeerState.ConnectingToNameServer, PeerState.ConnectedToNameServer, PeerState.DisconnectingFromNameServer, PeerState.Authenticating }

  Detailed connection / networking peer state.

- enum DisconnectCause {
  DisconnectCause.ExceptionOnConnect = StatusCode.ExceptionOnConnect, DisconnectCause.Security↩
  ExceptionOnConnect = StatusCode.SecurityExceptionOnConnect, DisconnectCause.TimeoutDisconnect
  = StatusCode.TimeoutDisconnect, DisconnectCause.DisconnectByClientTimeout = StatusCode.Timeout↩
  Disconnect,
  DisconnectCause.InternalReceiveException = StatusCode.ExceptionOnReceive, DisconnectCause.↩
  DisconnectByServer = StatusCode.DisconnectByServer, DisconnectCause.DisconnectByServerTimeout =
  StatusCode.DisconnectByServer, DisconnectCause.DisconnectByServerLogic = StatusCode.Disconnect↩
  ByServerLogic,
  DisconnectCause.DisconnectByServerUserLimit = StatusCode.DisconnectByServerUserLimit, Disconnect↩
  Cause.Exception = StatusCode.Exception, DisconnectCause.InvalidRegion = ErrorCode.InvalidRegion,
  DisconnectCause.MaxCcuReached = ErrorCode.MaxCcuReached,
  DisconnectCause.InvalidAuthentication = ErrorCode.InvalidAuthentication, DisconnectCause.Authentication↩
  TicketExpired = 32753 }

  Summarizes the cause for a disconnect.

9.18.1 Detailed Description

Wraps up several of the commonly used enumerations.

9.18.2 Enumeration Type Documentation

9.18.2.1 enum CloudRegionCode [strong]

Currently available `Photon Cloud regions` as enum.

This is used in PhotonNetwork.ConnectToRegion.

Enumerator

eu European servers in Amsterdam.

us US servers (East Coast).

asia Asian servers in Singapore.

jp Japanese servers in Tokyo.

au Australian servers in Melbourne.

none No region selectedcs.

9.18.2.2 enum CloudRegionFlag [strong]

Available regions as enum of flags.

To be used as "enabled" flags for Best Region pinging.

Note that these enum values skip CloudRegionCode.none and their values are in strict order (power of 2).

Enumerator

eu

us

asia

jp

au

9.18.2.3 enum ConnectionState [strong]

High level connection state of the client.

Better use the more detailed PeerState.

Enumerator

Disconnected

Connecting

Connected

Disconnecting

InitializingApplication

9.18.2.4 enum ServerConnection [strong]

Available server (types) for internally used field: server.

Photon uses 3 different roles of servers: Name Server, Master Server and Game Server.

Enumerator

MasterServer This server is where matchmaking gets done and where clients can get lists of rooms in lobbies.

GameServer This server handles a number of rooms to execute and relay the messages between players (in a room).

NameServer This server is used initially to get the address (IP) of a Master Server for a specific region. Not used for Photon OnPremise (self hosted).

9.19 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Extensions.cs File Reference

Classes

- class Extensions

  This static class defines some useful extension methods for several existing classes (e.g.
- class GameObjectExtensions

  Small number of extension methods that make it easier for PUN to work cross-Unity-versions.

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable
- using SupportClass = ExitGames.Client.Photon.SupportClass

9.19.1 Typedef Documentation

9.19.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.19.1.2 using SupportClass = ExitGames.Client.Photon.SupportClass

9.20 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/FriendInfo.cs File Reference

Classes

- class FriendInfo

  Used to store info about a friend's online state and in which room he/she is.

9.21 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/GizmoType.cs File Reference

Classes

- class ExitGames.Client.GUI.GizmoTypeDrawer

Namespaces

- namespace ExitGames.Client.GUI

Enumerations

- enum ExitGames.Client.GUI.GizmoType { ExitGames.Client.GUI.GizmoType.WireSphere, ExitGames.Client.GUI.GizmoType.Sphere, ExitGames.Client.GUI.GizmoType.WireCube, ExitGames.Client.GUI.GizmoType.Cube }

9.22 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/LoadbalancingPeer.cs File Reference

Classes

- class **ExitGames.Client.Photon.LoadbalancingPeer**

  Internally used by PUN, a LoadbalancingPeer provides the operations and enum definitions needed to use the Photon Loadbalancing server (or the Photon Cloud).
- class ExitGames.Client.Photon.LoadbalancingPeer.EnterRoomParams
- class ExitGames.Client.Photon.LoadbalancingPeer.OpJoinRandomRoomParams
- class ExitGames.Client.Photon.ErrorCode

  ErrorCode defines the default codes associated with Photon client/server communication.
- class ExitGames.Client.Photon.ActorProperties

Class for constants.

- class ExitGames.Client.Photon.GamePropertyKey

  Class for constants.
- class ExitGames.Client.Photon.EventCode

  Class for constants.
- class ExitGames.Client.Photon.ParameterCode

  Class for constants.
- class ExitGames.Client.Photon.OperationCode

  Class for constants.
- class RaiseEventOptions

  Aggregates several less-often used options for operation RaiseEvent. See field descriptions for usage details.
- class TypedLobby

  Refers to a specific lobby (and type) on the server.
- class TypedLobbyInfo
- class AuthenticationValues

  Container for user authentication in Photon.

Namespaces

- namespace ExitGames.Client.Photon

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

Enumerations

- enum ExitGames.Client.Photon.JoinMode : byte { ExitGames.Client.Photon.JoinMode.Default = 0, ExitGames.Client.Photon.JoinMode.CreateIfNotExists = 1, ExitGames.Client.Photon.JoinMode.JoinOrRejoin = 2, ExitGames.Client.Photon.JoinMode.RejoinOnly = 3 }

  Defines possible values for OpJoinRoom and OpJoinOrCreate.
- enum ExitGames.Client.Photon.MatchmakingMode : byte { ExitGames.Client.Photon.MatchmakingMode.FillRoom = 0, ExitGames.Client.Photon.MatchmakingMode.SerialMatching = 1, ExitGames.Client.Photon.MatchmakingMode.RandomMatching = 2 }

  Options for matchmaking rules for OpJoinRandom.
- enum ExitGames.Client.Photon.ReceiverGroup : byte { ExitGames.Client.Photon.ReceiverGroup.Others = 0, ExitGames.Client.Photon.ReceiverGroup.All = 1, ExitGames.Client.Photon.ReceiverGroup.MasterClient = 2 }

  Lite - OpRaiseEvent lets you chose which actors in the room should receive events.
- enum ExitGames.Client.Photon.EventCaching : byte { ExitGames.Client.Photon.EventCaching.DoNotCache = 0, ExitGames.Client.Photon.EventCaching.MergeCache = 1, ExitGames.Client.Photon.EventCaching.ReplaceCache = 2, ExitGames.Client.Photon.EventCaching.RemoveCache = 3, ExitGames.Client.Photon.EventCaching.AddToRoomCache = 4, ExitGames.Client.Photon.EventCaching.AddToRoomCacheGlobal = 5, ExitGames.Client.Photon.EventCaching.RemoveFromRoomCache = 6, ExitGames.Client.Photon.EventCaching.RemoveFromRoomCacheForActorsLeft = 7, ExitGames.Client.Photon.EventCaching.SliceIncreaseIndex = 10, ExitGames.Client.Photon.EventCaching.SliceSetIndex = 11, ExitGames.Client.Photon.EventCaching.SlicePurgeIndex = 12, ExitGames.Client.Photon.EventCaching.SlicePurgeUpToIndex = 13 }

  Lite - OpRaiseEvent allows you to cache events and automatically send them to joining players in a room.

- enum ExitGames.Client.Photon.PropertyTypeFlag : byte { ExitGames.Client.Photon.PropertyTypeFlag.None = 0x00, ExitGames.Client.Photon.PropertyTypeFlag.Game = 0x01, ExitGames.Client.Photon.PropertyTypeFlag.Actor = 0x02, ExitGames.Client.Photon.PropertyTypeFlag.GameAndActor = Game | Actor }

  Flags for "types of properties", being used as filter in OpGetProperties.
- enum LobbyType : byte { LobbyType.Default = 0, LobbyType.SqlLobby = 2, LobbyType.AsyncRandomLobby = 3 }

  Options of lobby types available.
- enum CustomAuthenticationType : byte { CustomAuthenticationType.Custom = 0, CustomAuthenticationType.Steam = 1, CustomAuthenticationType.Facebook = 2, CustomAuthenticationType.None = byte.MaxValue }

  Options for optional "Custom Authentication" services used with Photon.

9.22.1 Typedef Documentation

9.22.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.22.2 Enumeration Type Documentation

9.22.2.1 enum CustomAuthenticationType : byte [strong]

Options for optional "Custom Authentication" services used with Photon.

Used by OpAuthenticate after connecting to Photon.

Enumerator

Custom Use a custom authentification service. Currently the only implemented option.

Steam Authenticates users by their Steam Account. Set auth values accordingly!

Facebook Authenticates users by their Facebook Account. Set auth values accordingly!

None Disables custom authentification. Same as not providing any AuthenticationValues for connect (more precisely for: OpAuthenticate).

9.22.2.2 enum LobbyType : byte [strong]

Options of lobby types available.

Lobby types might be implemented in certain Photon versions and won't be available on older servers.

Enumerator

Default This lobby is used unless another is defined by game or JoinRandom. Room-lists will be sent and JoinRandomRoom can filter by matching properties.

SqlLobby This lobby type lists rooms like Default but JoinRandom has a parameter for SQL-like "where" clauses for filtering. This allows bigger, less, or and and combinations.

AsyncRandomLobby This lobby does not send lists of games. It is only used for OpJoinRandomRoom. It keeps rooms available for a while when there are only inactive users left.

9.23 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Plugins/PhotonNetwork/NetworkingPeer.cs File Reference

Classes

- class **NetworkingPeer**

  Implements Photon LoadBalancing used in PUN.

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

9.23.1 Typedef Documentation

9.23.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.24 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Plugins/PhotonNetwork/PhotonClasses.cs File Reference

Wraps up smaller classes that don't need their own file.

Classes

- interface IPunObservable

  Defines the OnPhotonSerializeView method to make it easy to implement correctly for observable scripts.
- interface IPunCallbacks

  This interface is used as definition of all callback methods of PUN, except OnPhotonSerializeView.
- interface IPunPrefabPool

  Defines all the methods that a Object Pool must implement, so that PUN can use it.
- class Photon.MonoBehaviour

  This class adds the property photonView, while logging a warning when your game still uses the networkView.
- class Photon.PunBehaviour

  This class provides a .photonView and all callbacks/events that PUN can call.
- class PhotonMessageInfo

  Container class for info about a particular message, RPC or update.
- class RoomOptions

  Wraps up common room properties needed when you create rooms.
- class **PunEvent**

  Defines Photon event-codes as used by PUN.
- class PhotonStream

  This container is used in OnPhotonSerializeView() to either provide incoming data of a PhotonView or for you to provide it.
- class HelpURL

  Empty implementation of the upcoming HelpURL of Unity 5.1.
- class UnityEngine.SceneManagement.SceneManager

  Minimal implementation of the SceneManager for older Unity, up to v5.2.
- class SceneManagerHelper
- class WebRpcResponse

  Reads an operation response of a WebRpc and provides convenient access to most common values.

Namespaces

- namespace Photon
- namespace UnityEngine.SceneManagement

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable
- using Photon.Hashtable = ExitGames.Client.Photon.Hashtable

9.24.1 Detailed Description

Wraps up smaller classes that don't need their own file.

9.24.2 Typedef Documentation

9.24.2.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.25 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonHandler.cs File Reference

Classes

- class **PhotonHandler**

  Internal Monobehaviour that allows Photon to run an Update loop.

Typedefs

- using Debug = UnityEngine.Debug
- using Hashtable = ExitGames.Client.Photon.Hashtable

9.25.1 Typedef Documentation

9.25.1.1 using Debug = UnityEngine.Debug

9.25.1.2 using Hashtable = ExitGames.Client.Photon.Hashtable

9.26 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonLagSimulationGui.cs File Reference

Part of the Optional GUI.

Classes

- class PhotonLagSimulationGui

  This MonoBehaviour is a basic GUI for the Photon client's network-simulation feature.

9.26.1 Detailed Description

Part of the Optional GUI.

9.27 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonNetwork.cs File Reference

Classes

- class PhotonNetwork

  The main class to use the PhotonNetwork plugin.

Typedefs

- using Debug = UnityEngine.Debug
- using Hashtable = ExitGames.Client.Photon.Hashtable

9.27.1 Typedef Documentation

9.27.1.1 using Debug = UnityEngine.Debug

9.27.1.2 using Hashtable = ExitGames.Client.Photon.Hashtable

9.28 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonPlayer.cs File Reference

Classes

- class PhotonPlayer

  Summarizes a "player" within a room, identified (in that room) by actorID.

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

9.28.1 Typedef Documentation

9.28.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.29 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonStatsGui.cs File Reference

Part of the Optional GUI.

Classes

- class PhotonStatsGui

  Basic GUI to show traffic and health statistics of the connection to Photon, toggled by shift+tab.

9.29.1 Detailed Description

Part of the Optional GUI.

9.30 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonStreamQueue.cs File Reference

Classes

- class PhotonStreamQueue

  The PhotonStreamQueue helps you poll object states at higher frequencies then what PhotonNetwork.sendRate dictates and then sends all those states at once when Serialize() is called.

9.31 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PhotonView.cs File Reference

Classes

- class PhotonView

  PUN's NetworkView replacement class for networking.

Enumerations

- enum ViewSynchronization { ViewSynchronization.Off, ViewSynchronization.ReliableDeltaCompressed, ViewSynchronization.Unreliable, ViewSynchronization.UnreliableOnChange }
- enum OnSerializeTransform { OnSerializeTransform.OnlyPosition, OnSerializeTransform.OnlyRotation, OnSerializeTransform.OnlyScale, OnSerializeTransform.PositionAndRotation, OnSerializeTransform.All }
- enum OnSerializeRigidBody { OnSerializeRigidBody.OnlyVelocity, OnSerializeRigidBody.OnlyAngularVelocity, OnSerializeRigidBody.All }
- enum OwnershipOption { OwnershipOption.Fixed, OwnershipOption.Takeover, OwnershipOption.Request }

  Options to define how Ownership Transfer is handled per PhotonView.

9.31.1 Enumeration Type Documentation

9.31.1.1 enum OnSerializeRigidBody [strong]

Enumerator

OnlyVelocity

OnlyAngularVelocity

All

9.31.1.2 enum OnSerializeTransform [strong]

Enumerator

OnlyPosition

OnlyRotation

OnlyScale

PositionAndRotation

All

9.31.1.3 enum OwnershipOption [strong]

Options to define how Ownership Transfer is handled per PhotonView.

This setting affects how RequestOwnership and TransferOwnership work at runtime.

Enumerator

Fixed Ownership is fixed. Instantiated objects stick with their creator, scene objects always belong to the Master Client.

Takeover Ownership can be taken away from the current owner who can't object.

Request Ownership can be requested with PhotonView.RequestOwnership but the current owner has to agree to give up ownership. The current owner has to implement IPunCallbacks.OnOwnershipRequest to react to the ownership request.

9.31.1.4 enum ViewSynchronization [strong]

Enumerator

Off

ReliableDeltaCompressed

Unreliable

UnreliableOnChange

9.32 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/PingCloudRegions.cs File Reference

Classes

- class PingMonoEditor

  Uses C# Socket class from System.Net.Sockets (as Unity usually does).
- class PhotonPingManager

Typedefs

- using Debug = UnityEngine.Debug

9.32.1 Typedef Documentation

9.32.1.1 using Debug = UnityEngine.Debug

9.33 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Room.cs File Reference

Classes

- class Room

  This class resembles a room that PUN joins (or joined).

9.34 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/RoomInfo.cs File Reference

Classes

- class RoomInfo

  A simplified room with just the info required to list and join, used for the room listing in the lobby.

9.35 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/RPC.cs File Reference

Reimplements a RPC Attribute, as it's no longer in all versions of the UnityEngine assembly.

Classes

- class PunRPC

  Replacement for RPC attribute with different name. Used to flag methods as remote-callable.

9.35.1 Detailed Description

Reimplements a RPC Attribute, as it's no longer in all versions of the UnityEngine assembly.

9.36 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/RpcIndexComponent.cs File Reference

Outdated.

9.36.1 Detailed Description

Outdated.

Here to overwrite older files on import.

9.37 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/ServerSettings.cs File Reference

ScriptableObject defining a server setup.

Classes

- class Region
- class ServerSettings

  Collection of connection-relevant settings, used internally by PhotonNetwork.ConnectUsingSettings.

9.37.1 Detailed Description

ScriptableObject defining a server setup.

An instance is created as **PhotonServerSettings**.

9.38 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/SocketUdp.cs File Reference

Classes

- class **ExitGames.Client.Photon.SocketUdp**

  Internal class to encapsulate the network i/o functionality for the realtime libary.

Namespaces

- namespace ExitGames.Client.Photon

9.39 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/SocketWebTcp.cs File Reference

9.40 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonAnimatorView.cs File Reference

Classes

- class PhotonAnimatorView

  This class helps you to synchronize Mecanim animations Simply add the component to your GameObject and make sure that the PhotonAnimatorView is added to the list of observed components
- class PhotonAnimatorView.SynchronizedParameter
- class PhotonAnimatorView.SynchronizedLayer

9.41 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonRigidbody2DView.cs File Reference

Classes

- class PhotonRigidbody2DView

  This class helps you to synchronize the velocities of a 2d physics RigidBody.

9.42 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonRigidbodyView.cs File Reference

Classes

- class PhotonRigidbodyView

  This class helps you to synchronize the velocities of a physics RigidBody.

9.43 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformView.cs File Reference

Classes

- class PhotonTransformView

  This class helps you to synchronize position, rotation and scale of a GameObject.

9.44 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Plugins/PhotonNetwork/Views/PhotonTransformViewPositionControl.cs File Reference

Classes

- class PhotonTransformViewPositionControl

9.45 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Plugins/PhotonNetwork/Views/PhotonTransformViewPositionModel.cs File Reference

Classes

- class PhotonTransformViewPositionModel

9.46 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Plugins/PhotonNetwork/Views/PhotonTransformViewRotationControl.cs File Reference

Classes

- class PhotonTransformViewRotationControl

9.47 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Plugins/PhotonNetwork/Views/PhotonTransformViewRotationModel.cs File Reference

Classes

- class PhotonTransformViewRotationModel

9.48 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ Plugins/PhotonNetwork/Views/PhotonTransformViewScaleControl.cs File Reference

Classes

- class PhotonTransformViewScaleControl

9.49 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/Plugins/PhotonNetwork/Views/PhotonTransformViewScaleModel.cs File Reference

Classes

- class PhotonTransformViewScaleModel

9.50 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/ConnectAndJoinRandom.cs File Reference

Classes

- class ConnectAndJoinRandom

  This script automatically connects to Photon (using the settings file), tries to join a random room and creates one if none was found (which is ok).

9.51 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/HighlightOwnedGameObj.cs File Reference

Classes

- class HighlightOwnedGameObj

9.52 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/InputToEvent.cs File Reference

Classes

- class InputToEvent

  Utility component to forward mouse or touch input to clicked gameobjects.

9.53 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/InRoomChat.cs File Reference

Classes

- class InRoomChat

9.54 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/InRoomRoundTimer.cs File Reference

Classes

- class InRoomRoundTimer

  Simple script that uses a property to sync a start time for a multiplayer game.

9.55 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/ManualPhotonViewAllocator.cs File Reference

Classes

- class ManualPhotonViewAllocator

9.56 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/MoveByKeys.cs File Reference

Classes

- class MoveByKeys

  Very basic component to move a GameObject by WASD and Space.

9.57 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/OnAwakeUsePhotonView.cs File Reference

Classes

- class OnAwakeUsePhotonView

9.58 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/OnClickDestroy.cs File Reference

Classes

- class OnClickDestroy

  Implements OnClick to destroy the GameObject it's attached to.

9.59 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnClickInstantiate.cs File Reference

Classes

- class OnClickInstantiate

9.60 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnClickLoadSomething.cs File Reference

Classes

- class OnClickLoadSomething

  This component makes it easy to switch scenes or open webpages on click.

9.61 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnJoinedInstantiate.cs File Reference

Classes

- class OnJoinedInstantiate

9.62 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/OnStartDelete.cs File Reference

Classes

- class OnStartDelete

  This component will destroy the GameObject it is attached to (in Start()).

9.63 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PickupItem.cs File Reference

Classes

- class PickupItem

  Makes a scene object pickup-able.

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

9.63.1 Typedef Documentation

9.63.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.64 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PickupItemSimple.cs File Reference

Classes

- class PickupItemSimple
  Makes a scene object pickup-able.

9.65 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PickupItemSyncer.cs File Reference

Classes

- class PickupItemSyncer
  Finds out which PickupItems are not spawned at the moment and send this to new players.

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

9.65.1 Typedef Documentation

9.65.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.66 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PointedAtGameObjectInfo.cs File Reference

Classes

- class PointedAtGameObjectInfo

9.67 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PunPlayerScores.cs File Reference

Classes

- class PunPlayerScores
- class ScoreExtensions

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

9.67.1 Typedef Documentation

9.67.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.68 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/PunTeams.cs File Reference

Classes

- class PunTeams

  Implements teams in a room/game with help of player properties.
- class TeamExtensions

  Extension used for PunTeams and PhotonPlayer class. Wraps access to the player's custom property.

Typedefs

- using Hashtable = ExitGames.Client.Photon.Hashtable

9.68.1 Typedef Documentation

9.68.1.1 using Hashtable = ExitGames.Client.Photon.Hashtable

9.69 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/QuitOnEscapeOrBack.cs File Reference

Classes

- class QuitOnEscapeOrBack

9.70 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/UtilityScripts/ServerTime.cs File Reference

Classes

- class ServerTime

9.71 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/ShowInfoOfPlayer.cs File Reference

Classes

- class ShowInfoOfPlayer

  Can be attached to a GameObject to show info about the owner of the PhotonView.

9.72 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/ShowStatusWhenConnecting.cs File Reference

Classes

- class ShowStatusWhenConnecting

9.73 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/SmoothSyncMovement.cs File Reference

Classes

- class SmoothSyncMovement

9.74 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/SupportLogger.cs File Reference

Classes

- class SupportLogger
- class SupportLogging

9.75 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Photon Unity Networking/↩ UtilityScripts/TimeKeeper.cs File Reference

Classes

- class ExitGames.Client.DemoParticle.TimeKeeper

  A utility class that turns it's ShouldExecute property to true after a set interval time has passed.

Namespaces

- namespace ExitGames.Client.DemoParticle

9.76 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatChannel.cs File Reference

Classes

- class ExitGames.Client.Photon.Chat.ChatChannel

  A channel of communication in Photon Chat, updated by ChatClient and provided as READ ONLY.

Namespaces

- namespace ExitGames.Client.Photon.Chat

9.77 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatClient.cs File Reference

Classes

- class ExitGames.Client.Photon.Chat.ChatClient

  Central class of the Photon Chat API to connect, handle channels and messages.

Namespaces

- namespace ExitGames.Client.Photon.Chat

9.78 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatDisconnectCause.cs File Reference

Namespaces

- namespace ExitGames.Client.Photon.Chat

Enumerations

- enum ExitGames.Client.Photon.Chat.ChatDisconnectCause { ExitGames.Client.Photon.Chat.ChatDisconnectCause.None, ExitGames.Client.Photon.Chat.ChatDisconnectCause.DisconnectByServerUserLimit, ExitGames.Client.Photon.Chat.ChatDisconnectCause.ExceptionOnConnect, ExitGames.Client.Photon.Chat.ChatDisconnectCause.DisconnectByServer, ExitGames.Client.Photon.Chat.ChatDisconnectCause.TimeoutDisconnect, ExitGames.Client.Photon.Chat.ChatDisconnectCause.Exception, ExitGames.Client.Photon.Chat.ChatDisconnectCause.InvalidAuthentication, ExitGames.Client.Photon.Chat.ChatDisconnectCause.MaxCcuReached, ExitGames.Client.Photon.Chat.ChatDisconnectCause.InvalidRegion, ExitGames.Client.Photon.Chat.ChatDisconnectCause.OperationNotAllowedInCurrentState, ExitGames.Client.Photon.Chat.ChatDisconnectCause.CustomAuthenticationFailed }

  Enumaration of causes for Disconnects (used in LoadBalancingClient.DisconnectedCause).

9.79 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatEventCode.cs File Reference

Classes

- class ExitGames.Client.Photon.Chat.ChatEventCode

  Wraps up internally used constants in Photon Chat events.

Namespaces

- namespace ExitGames.Client.Photon.Chat

9.80 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatOperationCode.cs File Reference

Classes

- class ExitGames.Client.Photon.Chat.ChatOperationCode

  Wraps up codes for operations used internally in Photon Chat.

Namespaces

- namespace ExitGames.Client.Photon.Chat

9.81 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatParameterCode.cs File Reference

Classes

- class ExitGames.Client.Photon.Chat.ChatParameterCode

  Wraps up codes for parameters (in operations and events) used internally in Photon Chat.

Namespaces

- namespace ExitGames.Client.Photon.Chat

9.82 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/ChatPeer.cs File Reference

Classes

- class **ExitGames.Client.Photon.Chat.ChatPeer**

  Provides basic operations of the Photon Chat server.
- class ExitGames.Client.Photon.Chat.AuthenticationValues

  Container for user authentication in Photon.
- class ExitGames.Client.Photon.Chat.ParameterCode
- class ExitGames.Client.Photon.Chat.ErrorCode

  ErrorCode defines the default codes associated with Photon client/server communication.

Namespaces

- namespace ExitGames.Client.Photon.Chat

Enumerations

- enum ExitGames.Client.Photon.Chat.CustomAuthenticationType : byte { ExitGames.Client.Photon.Chat.↩ CustomAuthenticationType.Custom = 0, ExitGames.Client.Photon.Chat.CustomAuthenticationType.Steam = 1, ExitGames.Client.Photon.Chat.CustomAuthenticationType.Facebook = 2, ExitGames.Client.Photon.↩ Chat.CustomAuthenticationType.None = byte.MaxValue }

  Options for optional "Custom Authentication" services used with Photon.

9.83 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/↩ ChatState.cs File Reference

Namespaces

- namespace ExitGames.Client.Photon.Chat

Enumerations

- enum ExitGames.Client.Photon.Chat.ChatState { ExitGames.Client.Photon.Chat.ChatState.Uninitialized, ExitGames.Client.Photon.Chat.ChatState.Connecting↩ ToNameServer, ExitGames.Client.Photon.Chat.ChatState.ConnectedToNameServer, ExitGames.Client.↩ Photon.Chat.ChatState.Authenticating, ExitGames.Client.Photon.Chat.ChatState.Authenticated, ExitGames.Client.Photon.Chat.ChatState.↩ DisconnectingFromNameServer, ExitGames.Client.Photon.Chat.ChatState.ConnectingToFrontEnd, Exit↩ Games.Client.Photon.Chat.ChatState.ConnectedToFrontEnd, ExitGames.Client.Photon.Chat.ChatState.DisconnectingFromFrontEnd, ExitGames.Client.Photon.Chat.↩ ChatState.QueuedComingFromFrontEnd, ExitGames.Client.Photon.Chat.ChatState.Disconnecting, Exit↩ Games.Client.Photon.Chat.ChatState.Disconnected }

  Possible states for a LoadBalancingClient.

9.84 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/↩ ChatUserStatus.cs File Reference

Classes

- class ExitGames.Client.Photon.Chat.ChatUserStatus

  Contains commonly used status values for SetOnlineStatus.

Namespaces

- namespace ExitGames.Client.Photon.Chat

9.85 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/ChatApi/IChatClientListener.cs File Reference

Classes

- interface ExitGames.Client.Photon.Chat.IChatClientListener

  Callback interface for Chat client side.

Namespaces

- namespace ExitGames.Client.Photon.Chat

9.86 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Plugins/WebSocket/WebSocket.cs File Reference

9.87 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/CameraController.cs File Reference

Classes

- class CameraController

9.88 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/ContolChange.cs File Reference

Classes

- class ContolChange

9.89 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/Control_Scene.cs File Reference

Classes

- class Control_Scene

9.90 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/MenuScript.cs File Reference

Classes

- class MenuScript

9.91 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/PlayerController.cs File Reference

Classes

- class PlayerController

9.92 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Scripts/Rotating.cs File Reference

Classes

- class Rotating

9.93 C:/Users/Chris/Documents/GitHub/Team-Game-Project/Assets/Standard Assets/Utility/SmoothFollow.cs File Reference

Classes

- class UnityStandardAssets.Utility.SmoothFollow

Namespaces

- namespace UnityStandardAssets.Utility

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