Subject: Re: Change map Posted by reborn on Sat, 02 Oct 2010 18:05:05 GMT View Forum Message <> Reply to Message

This is the source to my randon rotation plugin, it shows clearly how to changhe the next map.

#include "scripts.h"
#include <stdarg.h>
#ifdef WIN32
#define WIN32\_LEAN\_AND\_MEAN
#include <windows.h>
#endif
#include "engine.h"
#include "gmmain.h"
#include <time.h>
#include "randomrotation.h"

```
RRSettingsStruct *RRSettings = 0;
char *mapname;
std::vector<int> LastMaps;
```

```
void RRSettingsStruct::Load() {
   SettingsLoader::Load();
   LoadInt(PreviousLimit,"PreviousLimit", 5, true, false, true);
}
```

```
int Get_Random_Int_Not_Crap(int n){
return rand() % n;
}
```

//This just announces what the next map will be. The global variable "mapname" gets set by the
request random map code.
void mapnameannounce(){
 Console\_Input(StrFormat("msg The next map will be %s",mapname).c\_str());
}

//This function basically updates the most recently played maps, by pushing them along One each time One is added, then "trimming" the vector using .resize() //How many maps are kept track of depend on the setting in the ini file. void addmap(int MapNumber){ LastMaps.push\_back(MapNumber); for(int i = 0; i <= RRSettings->PreviousLimit - 1; i++){

```
LastMaps[i] = LastMaps[i + 1];
```

```
LastMaps.resize(RRSettings->PreviousLimit, MapNumber);
```

```
}
```

}

//This is the function that makes the next map a random one from the current list of maps on your server.

//You can call it at any time with "requestrandommap();".

void requestrandommap(){

//I initialise and delcare the variable "numberofmaps here"

int numberofmaps = 0;

//Many thanks to Roshambo for this nice little "for" loop

//The loop is basically responsible for getting the amount of maps in the rotation

for(;\*The\_Game()->MapList[numberofmaps] != 0; numberofmaps++);

//I get a random number between 0 (maps use 0 based indexing) and the amount of maps in rotation (hence the need to know the amount of maps).

int RandomNum = Get\_Random\_Int\_Not\_Crap(numberofmaps);

if (RandomNum + 1 > numberofmaps - 1){

RandomNum = 0;

```
}
```

//Code to make sure the next map will never be the same one as the current map

```
for(int i = 0; i <= (RRSettings->PreviousLimit - 1); i++){
```

if(RandomNum == LastMaps[i]){

Console\_Output("Had to re-request a new map, this One was recently played.\n"); requestrandommap();

}

}

//This code here makes the server think that the current map is a different one, so it logically will play the map next in the list to the one it thinks is currently being played

```
The_Game()->MapNumber = RandomNum;
```

//Therefore the next map that will get played is the one after the one that the server thinks is playing right now (but isn't), so this is how I get the name of the next map

mapname = The\_Game()->MapList[RandomNum +1];

//Just log the next map on the console

Console\_Output("The next map will be: %s\n",mapname);

//Call the function that announces the next map to be played in-game.

mapnameannounce();

}

```
class mapChatCommand : public ChatCommandClass {
  void Triggered(int ID,const TokenClass &Text,int ChatType) {
    mapnameannounce();
}
```

}

}; ChatCommandRegistrant<mapChatCommand> mapChatCommandReg("!nextmap;!n;!N;!NEXT;!Nextmap;!next;!NEXTMAP",CHATTYPE\_ALL,0, GAMEMODE\_ALL);

```
void Plugin Load() {
srand(time(NULL));
RRSettings = new RRSettingsStruct("RandomRotation.ini");
printf("Loaded reborns random rotation system plugin\n");
RRSettings->Load():
for(int i = 0; i <= RRSettings->PreviousLimit -1; i++){
 LastMaps.push_back(-1);
}
}
void Plugin Unload() {
printf("Un-loaded reborns random rotation system plugin\n");
delete RRSettings;
}
extern "C" {
DLLEXPORT void SSGM Level Loaded Hook() {
 int number of maps = 0;
 for(;*The_Game()->MapList[numberofmaps] != 0; numberofmaps++);
 if(numberofmaps > RRSettings->PreviousLimit){
 addmap(The_Game()->MapNumber); // new map has loaded and is being played, add it to the
list of recently played maps
 requestrandommap(); // Choose the next map to be played (even though the current map has
just stared)
 }
 else{
 printf("ERROR! You have less maps in rotation than what's set in the RandomRotation.ini file's
previous limit key. \ The plugin will not function as you want it to!n;
 }
}
}
```

```
#include "gmsettingsclass.h"
```

```
#define PluginName "reborn's random rotation plugin"
#define PluginVersion "1.1"
```

```
struct RRSettingsStruct : public virtual SettingsLoader {
    RRSettingsStruct(const char *ININame) : SettingsLoader(ININame) {
    PreviousLimit = 5;
    }
    void Load();
    int PreviousLimit;
};
```

int Get\_Random\_Int\_Not\_Crap(int n); void mapnameannounce(); void addmap(int MapNumber); void requestrandommap();

void Plugin\_Load(); void Plugin\_Unload();

```
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```