# WINDOW 생성



### 유튜브 내장 플레이어

#### **IFrame Player API**

- https://developers.google.com/youtube/iframe\_api\_reference
- javascript
- HTML5 postMessage 지원 브라우저(Internet Explorer 7 이상 )
- player 테스트: https://jsfiddle.net

```
var tag = document.createElement('script');
tag.src = "https://www.voutube.com/iframe api";
var firstScriptTag = document.getElementsBvTagName('script')[0];
firstScriptTag.parentNode.insertBefore(tag, firstScriptTag);
// 3. This function creates an <iframe> (and YouTube player)
     after the API code downloads.
var player:
function onYouTubeIframeAPIReady() {
 player = new YT.Player('player', {
   height: '360',
   width: '640'.
   videoId: 'M7lc1UVf-VE',
    events: {
      'onReady': onPlayerReady,
      'onStateChange': onPlayerStateChange
 3);
// 4. The API will call this function when the video player is ready.
function onPlayerReady(event) {
 event.target.playVideo();
```



게임 <-> 웹 연동

유튜브 웹페이지 전체화면 버튼 클릭(javascript)

-> 클라이언트 WINDOW SIZE 변경( C++ )



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## 게임 <-> 웹 연동 : JAVASCRIPT 에서 C++ 호출

```
Navigate2(url, ...)
NavigateComplete
"PointBlank" 오브젝트 주입
DISPID dispid:
HRESULT hr = winEx->GetDispID(objName, fdexNameEnsure, &dispid);
SysFreeString(objName);
if (FAILED(hr))
DISPID namedArgs[] = {DISPID_PROPERTYPUT};
DISPPARAMS params;
params.rgvarg = new VARIANT[1];
params.rgvarg[0].pdispVal = custObj;
params.rgvarg[0].vt = VT_DISPATCH;
params.rgdispidNamedArgs = namedArgs;
params.cArgs = 1;
params.cNamedArgs = 1;
hr = winEx->InvokeEx(dispid, LOCALE USER DEFAULT, DISPATCH PROPERTYPUT, &params,
winEx->Release();
```



## 게임 <-> 웹 연동 : C++ 에서 JAVASCRIPT 함수 호출

```
HRESULT hr:
                                                                         document.addEventListener("webkitfullscreenchange", fullscreenCallback, false
                                    IWebBrowser2
IHTMLDocument2 *doc = GetDoc();
                                                                         document.addEventListener("mozfullscreenchange", fullscreenCallback, false);
if (doc == nullptr)
    return;
                                                                         document_addEventListener("MSFullscreenChange", fullscreenCallback, false);
                                                                          function stopVideo(
hr = doc->get Script(&script);
    return;
                                                                               player.stopVideo();
//Find dispid for given function in the object
CComBSTR bstrMember(strFunc.c_str());
DISPID dispid = 0;
hr = script->GetIDsOfNames(IID_NULL, &bstrMember, 1, LOCALE_SYSTEM_DEFAUL), &dispid);
if (FAILED(hr))
    return:
const int numArgs = (int)strArgs.size();
//Putting parameters
DISPPARAMS dispparams:
memset(&dispparams, 0, sizeof dispparams);
dispparams.cArgs = numArgs;
dispparams.rgvarg = new VARIANT[dispparams.cArgs];
dispparams.cNamedArgs = 0;
for (int i = 0; i < numArgs; i++)</pre>
    CComBSTR bstr = strArgs[numArgs - 1 - i].c_str(); // back reading
    bstr.CopyTo(&dispparams.rgvarg[i].bstrVal/);
    dispparams.rgvarg[i].vt = VT BSTR;
EXCEPINFO excepInfo;
memset(&excepInfo, 0, sizeof excepInfo);
CComVariant vaResult:
UINT nArgErr = (UINT)-1; // initialize to invalid arg
//Call JavaScript functi
hr = script->Invoke(dispid, IID_NULL, 0, DISPATCH_METHOD, &dispparams, &vaResult, &excepInfo, &nArgErr);
delete[] dispparams. I gvary;
```