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Subject: FullScreen: why does not work?  
Posted by [281264](#) on Tue, 14 Sep 2010 16:02:34 GMT  
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Why?

Cheers,

Javier

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#### File Attachments

1) [Fullscreen\\_test.7z](#), downloaded 272 times

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Subject: Re: FullScreen: why does not work?  
Posted by [cbpporter](#) on Tue, 14 Sep 2010 16:57:40 GMT  
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Because FullScreen only effects the next "creation by the underlying windowing API" of the window, while Maximize is an imperative method that changes the status of the window.

Implementation wise one either needs to call some API or force recreate the HWND as is often the case for Windows API when changing a few select parameters.

I'll put it on my never ending list of things to investigate. For now you can call FullScreen in the constructor.

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Subject: Re: FullScreen: why does not work?  
Posted by [alendar](#) on Sun, 05 Dec 2010 03:56:29 GMT  
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I solved this with Win32 APIs. First I tried to use the U++ wrappers but I could not get them to work.

Here's the code:

```
bool isFullScreenModeActive;
```

```
virtual bool Key(dword key, int count) {  
    static dword style;  
    static Rect normalwindowrect;
```

```

switch (key) {
case K_F11:
if (!isFullScreenModeActive) {
// Get the current Top window's style bits
style = GetStyle();
// Strips the caption bit, which is the title bar
style = (style & ~WS_CAPTION);
// Save the "overlapped" or normal window shape
normalwindowrect = GetRect();
SetWindowLong(GetHWND(), GWL_STYLE, style);

// Get the full size of the screen
long cx = GetSystemMetrics(SM_CXSCREEN);
long cy = GetSystemMetrics(SM_CYSCREEN);
// Expand the window to full size
SetWindowPos(GetHWND(),HWND_TOP,0,0,cx,cy,SWP_SHOWWINDOW);
//or use Maximize(false) if you like a
//delayed resizing, even with zoom effects turned off
} else {
// Set the caption bit back so we can get our title bar back
style |= WS_CAPTION;
// Pass to windows (Style() method gets confused on SyncCaption0)
SetWindowLong(GetHWND(), GWL_STYLE, style);
// Return size to normal; key flag is SWP_FRAMECHANGED
SetWindowPos(GetHWND(),HWND_TOP,
normalwindowrect.left,
normalwindowrect.top,
normalwindowrect.Width(),
normalwindowrect.Height(), SWP_SHOWWINDOW|SWP_FRAMECHANGED);
}
// Track logically in our application
isFullScreenModeActive = !isFullScreenModeActive;
break;
}
return false;
}

```

This was on MS Windows XP Professional V 2002 SP 3

U++ 2791

This is a win32 only fix. This works on a TopWindow while your in it, so you don't have to use the constructor method.

I might try getting the virtual window size so I can zoom across multiple screens.

The trick to getting the title bar back after your zoom is the SWP\_FRAMECHANGED flag.

Without this Windoze doesn't know to rebuild the window frame after you added the WS\_CAPTION bit back in.

You can use the TopWindow.Maximize() function, but for some reason it still tries to do effects

when you pass a false bit, so I used the SetWindowPos instead for the zoom.  
I haven't tried this with any windows besides a TopWindow.  
This covers the taskbar on the bottom on my computer. Sometimes there is a delay in minimizing the taskbar.

Edit from 5 min later:

To go across all screens just change:

```
cx = GetSystemMetrics(SM_CXVIRTUALSCREEN);  
long cy = GetSystemMetrics(SM_CYSCREEN);  
cy = GetSystemMetrics(SM_CYVIRTUALSCREEN);
```

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Subject: Re: FullScreen: why does not work?  
Posted by [koldo](#) on Sun, 05 Dec 2010 10:06:50 GMT  
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Very interesting .

X11 experts, could it be done in Linux?

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Subject: Re: FullScreen: why does not work?  
Posted by [kohait00](#) on Tue, 21 Dec 2010 09:47:38 GMT  
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could this somehow be included in Ctrl::FullScreen() in a platform dependant manner? it'd be really nice to have this feature switchable at runtime..

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Subject: Re: FullScreen: why does not work?  
Posted by [281264](#) on Tue, 21 Dec 2010 10:20:35 GMT  
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Quote:could this somehow be included in Ctrl::FullScreen() in a platform dependant manner? it'd be really nice to have this feature switchable at runtime..

I utterly encourage the implementation of this.

Thanks,

Javier.

Subject: Toggle FullScreen on X11

Posted by [oan1971](#) on Wed, 22 Dec 2010 11:54:07 GMT

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Hello Koldo,

I am no X11 expert at all, but the following seems to work on Linux. I guess that the window manager needs to support "Extended Window Manager Hints" (see <http://standards.freedesktop.org/wm-spec/wm-spec-latest.html#id2551694>).

```
#include <CtrlLib/CtrlLib.h>

using namespace Upp;

class FullScreenTest : public TopWindow
{
public:
    typedef FullScreenTest CLASSNAME;
    FullScreenTest();
    virtual bool Key(dword key, int count);
    virtual void Paint(Draw& w);
    void SetFullScreen(bool b);
};

FullScreenTest::FullScreenTest()
{
    Title("FullScreenTest").Sizeable();
}

void FullScreenTest::Paint(Draw & w)
{
    Rect r = GetView();
    w.DrawRect(r, Blue);
}

bool FullScreenTest::Key(dword key, int count)
{
    if (key == K_F11)
        if (IsFullScreen())
            SetFullScreen(false);
        else
            SetFullScreen(true);
}

void FullScreenTest::SetFullScreen(bool b)
{
    Sizeable(!b);
    FullScreen(b);
}
```

```
XEvent event;
event.xclient.type = ClientMessage;
event.xclient.serial = 0;
event.xclient.send_event = true;
event.xclient.message_type = XAtom("_NET_WM_STATE");
event.xclient.window = GetWindow();
event.xclient.format = 32;
event.xclient.data.l[0] = b;
event.xclient.data.l[1] = XAtom("_NET_WM_STATE_FULLSCREEN");
event.xclient.data.l[2] = 0;
event.xclient.data.l[3] = 0;
event.xclient.data.l[4] = 0;
```

```
XSendEvent(Xdisplay, Xroot, false, SubstructureRedirectMask | SubstructureNotifyMask,
&event);
```

```
if (b)
    SetRect(0, 0, Xwidth, Xheight);
}
```

```
GUI_APP_MAIN
{
    FullScreenTest().Run();
}
```

Best regards,  
Oliver

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Subject: Re: Toggle FullScreen on X11  
Posted by [koldo](#) on Wed, 22 Dec 2010 13:12:49 GMT  
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Great. I have to try it .

"Extended Window Manager Hints" seems to be supported at least by Gnome.

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Subject: Re: Toggle FullScreen on X11  
Posted by [koldo](#) on Sun, 26 Dec 2010 16:10:25 GMT  
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Windows code runs perfect, but X11 no. And I do not understand: oan1971 code seems to be right.

I have included both in last SDLCtrl\_demo, demo1 (demo1main.cpp).

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Subject: Re: Toggle FullScreen on X11

Posted by [281264](#) on Mon, 27 Dec 2010 10:22:20 GMT

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Windows version works but partially in my computer (Windows XP SP3), for it is happening the following:

- 1.- the lower Windows Tool Bar is not occupied;
- 2.- when pressing F11 successively, the size of the minimized windows is smaller and smaller; why?
- 3.- I reckon that the correct initialization of `isFullScreenModeActive=false`; Is it correct?
- 4.- I do not understand this:

Quote:Edit from 5 min later:

To go across all screens just change:

```
cx = GetSystemMetrics(SM_CXVIRTUALSCREEN);  
long cy = GetSystemMetrics(SM_CYSCREEN);  
cy = GetSystemMetrics(SM_CYVIRTUALSCREEN);
```

So in my case it partially works. Is there any special consideration that I am not aware?

Thank you.

Best wishes,

Javier

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Subject: Re: Toggle FullScreen on X11

Posted by [mirek](#) on Mon, 27 Dec 2010 17:52:55 GMT

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TopWindow FullScreen fixed in X11...

Mirek

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Subject: Re: Toggle FullScreen on X11  
Posted by [281264](#) on Mon, 27 Dec 2010 18:04:01 GMT  
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Mirek, please don't forget Windows users...

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Subject: Re: Toggle FullScreen on X11  
Posted by [mirek](#) on Mon, 27 Dec 2010 18:32:34 GMT  
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281264 wrote on Mon, 27 December 2010 13:04Mirek, please don't forget Windows users...

I do not. Unfortunately, I have spent last hour trying to do that, to no avail. That said, original contract was that it would work only before opening the window...

Mirek

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