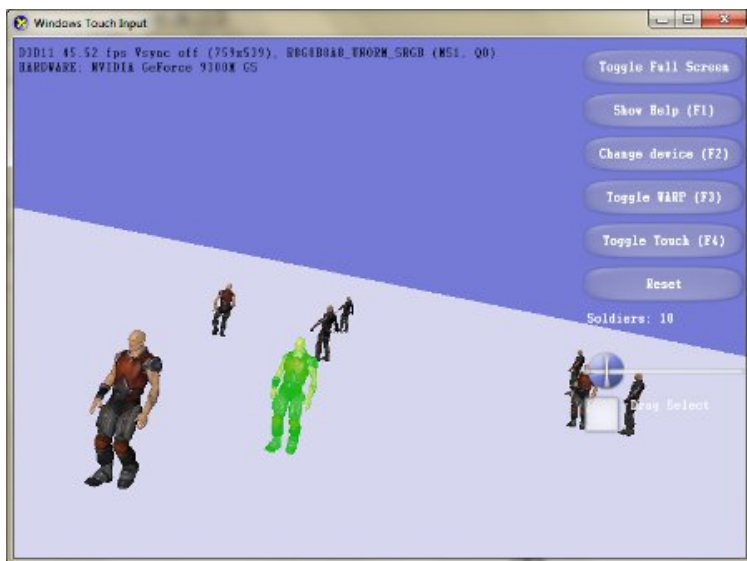


WindowsTouch11 Sample

 Collapse All

This sample demonstrates how to use the Windows Touch APIs in a game-like scenario.



Path

Source	SDK root\Samples\C++\Direct3D11\WindowsTouch11
Executable	SDK root\Samples\C++\Direct3D11\Bin\x86 or x64\WindowsTouch11.exe

Sample Requirements

This sample requires the Windows 7 SDK and windows multi-touch device. Use the touch screen to control the sample:

- Touch a unit to select.
- Touch a spot on the ground plane to issue commands.
- Rotate the camera by placing 2 fingers on the screen and dragging.
- Pinch the screen to zoom in.
- If the **Drag Select** box is checked, multiple units can be selected by dragging a finger across them.

Details

Game developers will want to use the touch messages to create their own gestures for the added flexibility. Writing a touch application is as easy as registering a touch window and then acting based on the touch messages

```
rt = RegisterTouchWindow( hWnd, 0 );
```

WindowsTouch11 listens for WM_TOUCH messages in the **MsgProc** function. When a touch is received, the number of touch inputs and their values are queried with **GetTouchInputInfo**.

```
if ( uMsg == WM_TOUCH ) {
    INT nInputs = wParam & 0xffff;
    UINT handle = LOWORD( wParam );
    if ( nInputs > g_iTouchInputArraySize ) {
        g_iTouchInputArraySize = nInputs;
        SAFE_DELETE_ARRAY( g_pInputs );
        g_pInputs = new TOUCHINPUT[nInputs];
    }

    if ( GetTouchInputInfo( ( HTOUCHINPUT ) lParam, nInputs, g_pInputs, sizeof( TOUCHINPUT ) ) ) {

```

GetTouchInputInfo fills an array of **TOUCHINPUT** structures.

```
TOUCHINPUT ti = g_pInputs[0];
```

To determine if the touch input is down or up, the *dwFlags* are tested against the **TOUCHEVENTF** flags.

```
if ( m_UiState == UI_NO_TOUCH_CONTROL ||
    m_UiState == UI_UNIT_SELECTION_TOUCH_CONTROL ) {
```

```
if ( nInputs == 1 ) {  
    if ( ti.dwFlags & TOUCHEVENTF_DOWN )  
    {  
        TouchDown ( ti.x*g_fPixelScaler - g_Window.left, ti.y*g_fPixelScaler - g_Window.top );  
    }  
    else if ( ti.dwFlags & TOUCHEVENTF_MOVE )  
    {  
        TouchMove ( ti.x*g_fPixelScaler - g_Window.left, ti.y*g_fPixelScaler - g_Window.top );  
    }  
    else if ( ti.dwFlags & TOUCHEVENTF_UP )  
    {  
        TouchUp ( ti.x*g_fPixelScaler - g_Window.left, ti.y*g_fPixelScaler - g_Window.top );  
    }  
}  
}
```

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