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Subject: Paint outside Ctrl Rect  
Posted by [koldo](#) on Sun, 22 Nov 2009 10:11:20 GMT  
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Hello all

I have derived a class from Ctrl and I would like to paint outside its Rect, but Ctrl painting clips the painting area to the Ctrl Rect.

Is it a way to disable the Rect clipping in Rect ?

Best regards  
Koldo

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Subject: Re: Paint outside Ctrl Rect  
Posted by [mirek](#) on Sun, 22 Nov 2009 22:09:31 GMT  
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Sort of.

There is an "overpaint" parameter that allows Frames to paint outside of widget (OverPaint is number of widgets "outside").

Mirek

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Subject: Re: Paint outside Ctrl Rect  
Posted by [koldo](#) on Mon, 23 Nov 2009 10:05:17 GMT  
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luzr wrote on Sun, 22 November 2009 23:09Sort of.

There is an "overpaint" parameter that allows Frames to paint outside of widget (OverPaint is number of widgets "outside").

Mirek

Sorry Mirek

I have added this method to the class:

```
int OverPaint() const {return 1;};
```

But nothing happens. I have seen too that it is called in the window constructor but not in the Ctrl Paint function.

Best regards  
Koldo

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Subject: Re: Paint outside Ctrl Rect  
Posted by [mrjt](#) on Mon, 23 Nov 2009 10:09:31 GMT  
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shouldn't that be

```
virtual int OverPaint() const {return 1;};
```

?

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Subject: Re: Paint outside Ctrl Rect  
Posted by [koldo](#) on Mon, 23 Nov 2009 16:36:18 GMT  
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Hello mrjt

Unfortunately the control is clipped too with OverPaint().

Best regards  
Koldo

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Subject: Re: Paint outside Ctrl Rect  
Posted by [mirek](#) on Tue, 24 Nov 2009 14:01:17 GMT  
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koldo wrote on Mon, 23 November 2009 11:36Hello mrjt

Unfortunately the control is clipped too with OverPaint().

Best regards  
Koldo

Ctrl view is. Its Frames are not.

Frankly, your request is quite specific, it makes the whole paradigm upside-down. Anyway, we had similar problem in the past as X11 input fields paint outside too. But that is just frame...

In practice, I do not understand why you would want something like that... It is like requiring regular host platform windows to paint one over another.

But I guess you should be able to reuse frame overpaint to this:

```

#include <CtrlLib/CtrlLib.h>

using namespace Upp;

struct OverCtrl : public Ctrl, public CtrlFrame {
    virtual void FrameAddSize(Size& sz) {}
    virtual void FrameLayout(Rect& r) {}
    virtual void FramePaint(Draw& w, const Rect& r) {
        w.DrawRect(r.left - 10, r.top - 10, r.GetWidth() + 20, r.GetHeight() + 20, Blue());
        w.DrawRect(r, Red());
    }

    virtual int OverPaint() const { return 10; }

    OverCtrl() {
        SetFrame(*this);
    }
};

GUI_APP_MAIN
{
    OverCtrl ctrl;
    TopWindow win;

    win.Add(ctrl.LeftPos(40, 40).TopPos(40, 10));

    win.Run();
}

```

Mirek

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Subject: Re: Paint outside Ctrl Rect  
 Posted by [koldo](#) on Wed, 25 Nov 2009 13:18:16 GMT  
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Hello Mirek

Excellent: It works !

Quote:In practice, I do not understand why you would want something like that...

It is easy. Just a sample. Black rectangles are Ctrl ends:

If the Ctrl itself is a line or something derived from it (like an arrow) it is nice to see the ends not clipped, mainly with a big width.

Best regards  
Koldo

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### File Attachments

1) [Comparison.PNG](#), downloaded 935 times

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Subject: Re: Paint outside Ctrl Rect  
Posted by [mirek](#) on Wed, 25 Nov 2009 13:50:40 GMT  
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koldo wrote on Wed, 25 November 2009 08:18Hello Mirek

Excellent: It works !

Quote:In practice, I do not understand why you would want something like that...

It is easy. Just a sample. Black rectangles are Ctrl ends:

If the Ctrl itself is a line or something derived from it (like an arrow) it is nice to see the ends not clipped, mainly with a big width.

Best regards  
Koldo

Still not understanding For me, the "BAD" is correct one....

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Subject: Re: Paint outside Ctrl Rect  
Posted by [koldo](#) on Wed, 25 Nov 2009 14:33:11 GMT  
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Hello Mirek

If the Arrow is a Ctrl , I see this better like this instead of clipped.

Best regards  
Koldo

## File Attachments

1) [Arrow.png](#), downloaded 943 times

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Subject: Re: Paint outside Ctrl Rect

Posted by [mirek](#) on Wed, 25 Nov 2009 18:30:13 GMT

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koldo wrote on Wed, 25 November 2009 09:33Hello Mirek

If the Arrow is a Ctrl , I see this better like this instead of clipped.

Best regards

Koldo

In that case, why do not you just make it bigger? I mean, include 'overpaint' into its size.

Mirek

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Subject: Re: Paint outside Ctrl Rect

Posted by [koldo](#) on Wed, 25 Nov 2009 20:49:53 GMT

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Hello Mirek

Sorry. I do not know what it is exactly OverPaint for.

In this case as this arrow can be entered in the layout designer, it is expected that the shape of the Ctrl both in the layout designer and in the final program has to be the same.

Best regards

Koldo

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Subject: Re: Paint outside Ctrl Rect

Posted by [mr\\_ped](#) on Thu, 26 Nov 2009 07:52:19 GMT

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The control should adapt to arrow's width, and draw it a tad smaller, so it will end inside rectangle and no clipping will happen. That's the correct way how it should work, but I can see it may be a bit tricky to code that size adjustment by width.

edit: I would probably end with calculating new boundary rectangle as 1/2 of line width inside of the clip rectangle. This way the drawn arrow would be inside the clipping, and like 99+% of

available space would be used (but under certain arrow's angles like the one you posted it would not use 100% of available space). But I think visually it would work very well even in this simple way.

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Subject: Re: Paint outside Ctrl Rect  
Posted by [koldo](#) on Thu, 26 Nov 2009 09:20:54 GMT  
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Hello mr\_ped and Mirek

Just another example:

Left is from layout designer and right is from the program.

If when painting I move and resize the arrows, they will not match as in the designer view.

Best regards  
Koldo

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#### File Attachments

1) [Draw.png](#), downloaded 890 times

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Subject: Re: Paint outside Ctrl Rect  
Posted by [koldo](#) on Thu, 26 Nov 2009 12:20:54 GMT  
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Well, now arrow painting in layout designer is improved

This is also another opportunity to compare Draw with Painter quality.

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#### File Attachments

1) [Draw.png](#), downloaded 912 times

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