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Subject: Option Label on Left Side draw

Posted by [devilsclaw](#) on Thu, 03 Aug 2023 21:27:13 GMT

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So I figured this would be a simple patch but I can seem to find what is causing me the problem.

Original Code:

```
void Option::Paint(Draw& w) {
    Size sz = GetSize();

    if(!IsTransparent())
        w.DrawRect(0, 0, sz.cx, sz.cy, SColorFace);

    Size isz = CtrlImg::O0().GetSize();
    Size tsz = GetSmartTextSize(label, font);
    int ix = 0;
    int d = tsz.cy >> 1;
    int ty = (sz.cy - tsz.cy) / 2;
    int iy = (tsz.cy - isz.cy) / 2 + ty;

    if(box) {
        ix = d + DPI(4);
        if(tsz.cy > isz.cy) {
            ty = 0;
            iy = (tsz.cy - isz.cy) / 2;
        }
        else {
            iy = 0;
            ty = (isz.cy - tsz.cy) / 2;
        }
    }
    else
        if(!showlabel) {
            ix = (sz.cx - isz.cx) / 2;
            iy = (sz.cy - isz.cy) / 2;
        }

    int q = GetVisualState();
    int g = (!notnull || threestate) && IsNull(option) ? CtrlImg::I_O2
                                                    : option == 1 ? CtrlImg::I_O1
                                                    : CtrlImg::I_O0;

    if(switchimage)
        g = option ? CtrlImg::I_S1 : CtrlImg::I_S0;

    w.DrawImage(ix, iy, CtrlImg::Get(g + q));

    if(showlabel) {
```

```

bool ds = !IsShowEnabled();
DrawSmartText(w, ix + isz.cx + DPI(2), ty, tsz.cx, label, font,
    ds || IsReadOnly() ? SColorDisabled : Nvl(color, GetLabelTextColor(this)),
    VisibleAccessKeys() ? accesskey : 0);
if(HasFocus())
    DrawFocus(w, RectC(ix + isz.cx + DPI(2), ty - DPI(1), tsz.cx + DPI(3), tsz.cy + DPI(2)) & sz);
}

if(box) {
    w.Begin();
    w.ExcludeClip(ix - DPI(3), 0, isz.cx + DPI(8) + tsz.cx, tsz.cy);
    PaintLabelBox(w, sz, Null, d);
    w.End();
}
}

```

As you can tell it pre gets the size of the image and the label.

It should be just a simple as this to get it on the left side. This i only for testing

```

void Option::Paint(Draw& w) {
    Size sz = GetSize();

    if(!IsTransparent())
        w.DrawRect(0, 0, sz.cx, sz.cy, SColorFace);

    Size isz = CtrlImg::O0().GetSize();
    Size tsz = GetSmartTextSize(label, font);
    int ix = 0;
    int d = tsz.cy >> 1;
    int ty = (sz.cy - tsz.cy) / 2;
    int iy = (tsz.cy - isz.cy) / 2 + ty;

    if(box) {
        ix = d + DPI(4);
        if(tsz.cy > isz.cy) {
            ty = 0;
            iy = (tsz.cy - isz.cy) / 2;
        }
        else {
            iy = 0;
            ty = (isz.cy - tsz.cy) / 2;
        }
    }
    else
        if(!showlabel) {
            ix = (sz.cx - isz.cx) / 2;
        }
    }
}

```

```

    iy = (sz.cy - isz.cy) / 2;
}

int q = GetVisualState();
int g = (!notnull || threestate) && !IsNull(option) ? CtrlImg::I_O2
        : option == 1 ? CtrlImg::I_O1
        : CtrlImg::I_O0;

if(switchimage)
    g = option ? CtrlImg::I_S1 : CtrlImg::I_S0;

w.DrawImage(ix + tsz.cx + DPI(2), iy, CtrlImg::Get(g + q));

if(showlabel) {
    bool ds = !IsShowEnabled();
    DrawSmartText(w, ix, ty, tsz.cx, label, font,
        ds || IsReadOnly() ? SColorDisabled : Nvl(color, GetLabelTextColor(this)),
        VisibleAccessKeys() ? accesskey : 0);
    if(HasFocus())
        DrawFocus(w, RectC(ix, ty - DPI(1), tsz.cx + DPI(3), tsz.cy + DPI(2)) & sz);
}

if(box) {
    w.Begin();
    w.ExcludeClip(ix - DPI(3), 0, isz.cx + DPI(8) + tsz.cx, tsz.cy);
    PaintLabelBox(w, sz, Null, d);
    w.End();
}
}

```

But this results in anything beyond where the checkbox button image not drawing anything on click

This code shows exactly what I mean when testing a app

```

void Option::Paint(Draw& w) {
    Size sz = GetSize();

    if(!IsTransparent())
        w.DrawRect(0, 0, sz.cx, sz.cy, SColorFace);

    Size isz = CtrlImg::O0().GetSize();
    Size tsz = GetSmartTextSize(label, font);
    int ix = 0;
    int d = tsz.cy >> 1;
    int ty = (sz.cy - tsz.cy) / 2;
    int iy = (tsz.cy - isz.cy) / 2 + ty;
}

```

```

if(box) {
    ix = d + DPI(4);
    if(tsz.cy > isz.cy) {
        ty = 0;
        iy = (tsz.cy - isz.cy) / 2;
    }
    else {
        iy = 0;
        ty = (isz.cy - tsz.cy) / 2;
    }
}
else
if(!showlabel) {
    ix = (sz.cx - isz.cx) / 2;
    iy = (sz.cy - isz.cy) / 2;
}

int q = GetVisualState();
int g = (!notnull || threestate) && IsNull(option) ? CtrlImg::I_O2
        : option == 1 ? CtrlImg::I_O1
        : CtrlImg::I_O0;

if(switchimage)
    g = option ? CtrlImg::I_S1 : CtrlImg::I_S0;

if(option != 1) {
    w.DrawRect(0, 0, sz.cx, sz.cy, Red());
} else {
    w.DrawRect(0, 0, sz.cx, sz.cy, Green());
}

if(showlabel) {
    bool ds = !IsShowEnabled();
    DrawSmartText(w, ix, ty, tsz.cx, label, font,
        ds || IsReadOnly() ? SColorDisabled : Nvl(color, GetLabelTextColor(this)),
        VisibleAccessKeys() ? accesskey : 0);
    if(HasFocus())
        DrawFocus(w, RectC(ix, ty - DPI(1), tsz.cx + DPI(3), tsz.cy + DPI(2)) & sz);
}

if(box) {
    w.Begin();
    w.ExcludeClip(ix - DPI(3), 0, isz.cx + DPI(8) + tsz.cx, tsz.cy);
    PaintLabelBox(w, sz, Null, d);
    w.End();
}
}

```

There is something choosing where the control painting will get updated and only painting that part. I have no clue what code is doing that.

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Subject: Re: Option Label on Left Side draw  
Posted by [devilsclaw](#) on Thu, 03 Aug 2023 21:30:23 GMT  
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Never mind. I think it is in this

```
void Option::RefreshPush() {
    if(box)
        Refresh(0, 0, GetSize().cx, GetSmartTextSize(label, font).cy);
    else
        if(showlabel)
            Refresh(0, 0, CtrlImg::O0().GetSize().cx, GetSize().cy);
        else
            Pusher::RefreshPush();
}
```

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Subject: Re: Option Label on Left Side draw  
Posted by [devilsclaw](#) on Thu, 03 Aug 2023 21:39:53 GMT  
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This is of it working with label to the left. I am going to patch mine too support left and right labels

```
void Option::RefreshPush() {
    if(box)
        Refresh(0, 0, GetSize().cx, GetSmartTextSize(label, font).cy);
    else
        if(showlabel)
            Refresh(GetSmartTextSize(label, font).cx + DPI(2), 0, CtrlImg::O0().GetSize().cx, GetSize().cy);
        else
            Pusher::RefreshPush();
}
```

```
void Option::Paint(Draw& w) {
    Size sz = GetSize();

    if(!IsTransparent())
        w.DrawRect(0, 0, sz.cx, sz.cy, SColorFace);

    Size isz = CtrlImg::O0().GetSize();
```

```

Size tsz = GetSmartTextSize(label, font);
int ix = 0;
int d = tsz.cy >> 1;
int ty = (sz.cy - tsz.cy) / 2;
int iy = (tsz.cy - isz.cy) / 2 + ty;

if(box) {
    ix = d + DPI(4);
    if(tsz.cy > isz.cy) {
        ty = 0;
        iy = (tsz.cy - isz.cy) / 2;
    }
    else {
        iy = 0;
        ty = (isz.cy - tsz.cy) / 2;
    }
}
else
if(!showlabel) {
    ix = (sz.cx - isz.cx) / 2;
    iy = (sz.cy - isz.cy) / 2;
}

int q = GetVisualState();
int g = (!notnull || threestate) && IsNull(option) ? CtrlImg::I_O2
        : option == 1 ? CtrlImg::I_O1
        : CtrlImg::I_O0;

if(switchimage)
    g = option ? CtrlImg::I_S1 : CtrlImg::I_S0;

w.DrawImage(ix + tsz.cx + DPI(2), iy, CtrlImg::Get(g + q));

if(showlabel) {
    bool ds = !IsShowEnabled();
    DrawSmartText(w, ix, ty, tsz.cx, label, font,
        ds || IsReadOnly() ? SColorDisabled : Nvl(color, GetLabelTextColor(this)),
        VisibleAccessKeys() ? accesskey : 0);
    if(HasFocus())
        DrawFocus(w, RectC(ix, ty - DPI(1), tsz.cx + DPI(3), tsz.cy + DPI(2)) & sz);
}

if(box) {
    w.Begin();
    w.ExcludeClip(ix - DPI(3), 0, isz.cx + DPI(8) + tsz.cx, tsz.cy);
    PaintLabelBox(w, sz, Null, d);
    w.End();
}
}

```

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Subject: Re: Option Label on Left Side draw  
Posted by [devilsclaw](#) on Fri, 04 Aug 2023 00:19:58 GMT  
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I did a quick hack to Option called it eOption just as an example. It allows left oriented label and also allows adding space between the image and the label.

LabelLeft(true/false)  
LabelGap(#)

#### File Attachments

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1) [eOption.zip](#), downloaded 162 times

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Subject: Re: Option Label on Left Side draw  
Posted by [devilsclaw](#) on Fri, 04 Aug 2023 15:43:19 GMT  
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Sorry the quick hack had bugs in it. It was late and I was getting off work. Here is a fully working example in project form

#### File Attachments

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1) [extended\\_option.zip](#), downloaded 157 times

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