
Subject: Re: GraphDraw/GraphCtrl
Posted by [Pradip](#) on Sun, 24 May 2020 11:07:34 GMT
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Hello Didier,
Need some help. Please see my implementation of CustomData and CustomDataSource, similar to your demo:

```
namespace Upp {
namespace GraphDraw_ns {

class GanttBar : public CustomData {
private:
    int row_num;
    const S_ACTIVITIES* act;
    RectGraph bar;
    // TypeScreenCoord bar_thk = 5;

public:
    GanttBar(int row, const S_ACTIVITIES* ac) : row_num(row), act(ac) {
        bar.left = act->START_DATE_PL.Get();
        bar.right = act->END_DATE_PL.Get();
        bar.top = row_num + 0.25;
        bar.bottom = row_num + 0.75;
    };

    virtual ~GanttBar() {};

    virtual bool Intersects(const RectGraph& graphView) const {
        return graphView.Intersects(bar);
    };

    virtual bool Contains(const PointGraph& pt) const {
        return bar.Contains(pt);
    };

    virtual void PaintDataPoint(BufferPainter& dw, int scale,
        const CoordinateConverter* xCoordConv, const CoordinateConverter* yCoordConv) {

        const TypeScreenCoord left = xCoordConv->toScreen(bar.left);
        const TypeScreenCoord right = xCoordConv->toScreen(bar.right);
        const TypeScreenCoord bottom = yCoordConv->toScreen(bar.top);
        const TypeScreenCoord top = yCoordConv->toScreen(bar.bottom);
        Rect r(left,top, right, bottom);

        ChPaint(dw, r, Yellow());
    };
};
```

```

String ToString() const {
    return Format("Row num=%i\\tActivity ID=%i\\tBar=%s", row_num, act->ACT_ID, bar.ToString());
};
};

class GanttBarSeries : public CustomDataSource {
private:
    const ArrayCtrl* array;
    Array<GanttBar> ganttBars;

public:
    GanttBarSeries() {};

    void Link(const ArrayCtrl* ar) {
        array = ar;
    };

    void RefreshBars() {
        if(!ganttBars.IsEmpty()) ganttBars.Clear();
        int n = array->GetCount();
        for(int i = 0; i < n; i++) {
            GanttBar gb(i, &ActById(array->Get(i, ACT_ID)));
            ganttBars.Add(gb);
        }
        DUMP(ganttBars);
    };

    virtual ~GanttBarSeries() {};
    virtual unsigned int GetCount() const {return ganttBars.GetCount();};
    virtual const CustomData& Get(unsigned int dataIndex) const {return ganttBars[dataIndex];};
    virtual CustomData& Get(unsigned int dataIndex) {return ganttBars[dataIndex];};
};

};
};

```

You will see that I'm trying to link the Gantt with an ArrayCtrl. The DUMP is showing this:

```

ganttBars = [Row num=0 Activity ID=10 Bar=[737830, 0.25] - [737947, 0.75] : (117, 0.5), Row
num=1 Activity ID=28 Bar=[737832, 1.25] - [737854, 1.75] : (22, 0.5), Row num=2 Activity
ID=29 Bar=[737854, 2.25] - [737856, 2.75] : (2, 0.5), Row num=3 Activity ID=118 Bar=[737856,
3.25] - [737898, 3.75] : (42, 0.5), Row num=4 Activity ID=126 Bar=[737856, 4.25] - [737859, 4.75]
: (3, 0.5), Row num=5 Activity ID=127 Bar=[737859, 5.25] - [737862, 5.75] : (3, 0.5), Row
num=6 Activity ID=128 Bar=[737862, 6.25] - [737867, 6.75] : (5, 0.5), Row num=7 Activity
ID=129 Bar=[737867, 7.25] - [737870, 7.75] : (3, 0.5), Row num=8 Activity ID=130 Bar=[737870,
8.25] - [737881, 8.75] : (11, 0.5), Row num=9 Activity ID=131 Bar=[737870, 9.25] - [737873, 9.75]
: (3, 0.5), Row num=10 Activity ID=133 Bar=[737873, 10.25] - [737875, 10.75] : (2, 0.5), Row

```

```

num=11 Activity ID=134 Bar=[737875, 11.25] - [737879, 11.75] : (4, 0.5), Row num=12 Activity
ID=388 Bar=[737879, 12.25] - [737881, 12.75] : (2, 0.5), Row num=13 Activity
ID=136 Bar=[737881, 13.25] - [737886, 13.75] : (5, 0.5), Row num=14 Activity
ID=137 Bar=[737881, 14.25] - [737883, 14.75] : (2, 0.5), Row num=15 Activity
ID=138 Bar=[737883, 15.25] - [737884, 15.75] : (1, 0.5), Row num=16 Activity
ID=139 Bar=[737883, 16.25] - [737890, 16.75] : (7, 0.5), Row num=17 Activity
ID=140 Bar=[737890, 17.25] - [737895, 17.75] : (5, 0.5), Row num=18 Activity
ID=141 Bar=[737895, 18.25] - [737898, 18.75] : (3, 0.5), Row num=19 Activity
ID=121 Bar=[737898, 19.25] - [737931, 19.75] : (33, 0.5), Row num=20 Activity
ID=143 Bar=[737898, 20.25] - [737901, 20.75] : (3, 0.5), Row num=21 Activity
ID=144 Bar=[737901, 21.25] - [737909, 21.75] : (8, 0.5), Row num=22 Activity
ID=145 Bar=[737909, 22.25] - [737916, 22.75] : (7, 0.5), Row num=23 Activity
ID=148 Bar=[737916, 23.25] - [737924, 23.75] : (8, 0.5), Row num=24 Activity
ID=149 Bar=[737924, 24.25] - [737926, 24.75] : (2, 0.5), Row num=25 Activity
ID=150 Bar=[737926, 25.25] - [737931, 25.75] : (5, 0.5), Row num=26 Activity
ID=123 Bar=[737931, 26.25] - [737939, 26.75] : (8, 0.5), Row num=27 Activity
ID=124 Bar=[737939, 27.25] - [737946, 27.75] : (7, 0.5), Row num=28 Activity
ID=125 Bar=[737946, 28.25] - [737947, 28.75] : (1, 0.5)]

```

So the bars are being made alright. In my application (TopWindow) header:

```

GraphDraw_ns::GanttCtrl gantt;
Upp::GraphDraw_ns::GanttBarSeries ganttBarSeries;

```

In TopWindow constructor:

```

ganttBarSeries.Link(&array);
gantt.AddCustomSeries(ganttBarSeries);

```

And in a callback which refreshes the linked array:

```

ganttBarSeries.RefreshBars();
gantt.Refresh();

```

However the gantt chart is always empty, doing FitToData() is also not showing any bar. What am I missing here?