

EXHIBIT K

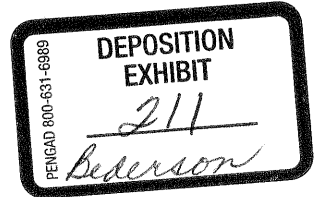
```

using System;
using System.Collections;
using System.Drawing;
using System.Windows.Forms;
using UMD.HCIL.Piccolo;
using UMD.HCIL.Piccolo.Event;
using UMD.HCIL.Piccolo.Util;
using UMD.HCIL.Piccolo.Nodes;
using UMD.HCIL.PiccoloX.Nodes;

namespace LaunchPoint
{
    /// <summary>
    /// Summary description for EmailListNode.
    /// </summary>
    public class EmailListNode : PRectClip
    {
        private EmailAppNode emailAppNode = null;
        private RectangleF initialBounds = RectangleF.Empty;
        private PNode slidingNode = new PNode();
        private SizeF initialOffset = SizeF.Empty;
        private RectangleF lastLayoutBounds = RectangleF.Empty;
        private PointF mouseDownCanvasPosition = PointF.Empty;
        private SizeF initialSlidingOffset = SizeF.Empty;
        private SliderDragEventHandler sliderDragEventHandler;
        public EmailListNode(EmailAppNode parent) : base()
        {
            emailAppNode = parent;
            AddChild(slidingNode);
            // slidingNode.AddInputEventListener(new SliderDragEventHandler());
            AddInputEventListener(sliderDragEventHandler = new SliderDragEventHandler());
            for (int i = 1; i <= 59; i++)
            {
                slidingNode.AddChild(new EmailImage(Util.GetImage(this, "LaunchPoint.images.email" + i + ".png")));
            }

            public bool ShouldDrag
            {
                set { sliderDragEventHandler.ShouldDrag = value; }
            }
        }
    }
}

```



```

}
public PNode GetMainDraggedNode()
{
    return slidingNode;
}
/*
public override void OnMouseDown(PInputEventArgs e)
{
    this.MouseDownCanvasPosition = e.CanvasPosition;
    base.OnMouseDown (e);
}

public override void OnClick(PInputEventArgs e)
{
    base.OnClick (e);
    if (e.PickedNode is EmailImage)
    {
        if (PUtil.DistanceBetweenPoints(this.MouseDownCanvasPosition, e.CanvasPosition) <=
            Constants.DRAG_THRESHOLD)
        {
            emailAppNode.SnapHighlightToLine(GetAppNodeLevelBounds((EmailImage)e.PickedNode));
        }
    }
}

public override void OnMouseUp(PInputEventArgs e)
{
    this.MouseDownCanvasPosition = PointF.Empty;
    base.OnMouseUp (e);
}
*/

public EmailAppNode EmailAppNode
{
    get { return emailAppNode; }
}

public RectangleF InitialBounds
{
    set
    {

```

```

        initialBounds = value;
        Bounds = value;
    }
    get { return initialBounds; }
}
public SizeF InitialOffset
{
    set
    {
        initialOffset = value;
    }
    get { return initialOffset; }
}

public RectangleF GetIntersectingEmailItemBounds(RectangleF cursorRect)
{
    RectangleF bestIntersection = RectangleF.Empty;
    RectangleF bestAppLevelBounds = RectangleF.Empty;
    PNodeList children = slidingNode.ChildrenReference;
    PNode each = null;
    RectangleF eachAppLevelBounds;
    RectangleF eachIntersection = RectangleF.Empty;
    // First child is header
    for (int i = 0; i < children.Count; i++)
    {
        each = children[i];
        eachAppLevelBounds = GetAppNodeLevelBounds((EmailImage)each);
        eachIntersection = cursorRect;
        eachIntersection.Intersect(eachAppLevelBounds);
        //PUUtil.IntersectionOfRectangles(cursorRect, eachAppLevelBounds);
        if (!eachIntersection.IsEmpty)
        {
            // Don't want to do anything special with the header
            // if (each is EmailImage)
            // {
            if (!bestAppLevelBounds.IsEmpty)
            {
                if (bestIntersection.Width * bestIntersection.Height < eachIntersection.Width *
                    eachIntersection.Height)
            {

```

```

        bestAppLevelBounds = eachAppLevelBounds;
        bestIntersection = eachIntersection;
    }
    else
    {
        bestAppLevelBounds = eachAppLevelBounds;
        bestIntersection = eachIntersection;
    }
    //
}
}
return new RectangleF(bestAppLevelBounds.X, bestAppLevelBounds.Y - 1,
    bestAppLevelBounds.Width, bestAppLevelBounds.Height);
}

public RectangleF GetIntersectingEmailItemBounds(RectangleF cursorRect, ref PNode node)
{
    RectangleF bestIntersection = RectangleF.Empty;
    RectangleF bestAppLevelBounds = RectangleF.Empty;
    PNodeList children = slidingNode.ChildrenReference;
    PNode each = null;
    RectangleF eachAppLevelBounds;
    RectangleF eachIntersection = RectangleF.Empty;
    // First child is header
    for (int i = 0; i < children.Count; i++)
    {
        each = children[i];
        eachAppLevelBounds = GetAppNodeLevelBounds((EmailImage)each);
        eachIntersection = cursorRect;
        eachIntersection.Intersect(eachAppLevelBounds);
        // Until IntersectionOfRectangles(cursorRect, eachAppLevelBounds);
        if (!eachIntersection.IsEmpty)
        {
            // Dont' want to do anything special with the header
            //
            // if (each is EmailImage)
            // {
            if (!bestAppLevelBounds.IsEmpty)
            {
                if (bestIntersection.Width * bestIntersection.Height < eachIntersection.Width *

```

```

eachIntersection.Height)
{
    node = each;
    bestAppLevelBounds = eachAppLevelBounds;
    bestIntersection = eachIntersection;
}
}
else
{
    bestAppLevelBounds = eachAppLevelBounds;
    bestIntersection = eachIntersection;
}
//
}
}
return new RectangleF(bestAppLevelBounds.X, bestAppLevelBounds.Y - 1,
    bestAppLevelBounds.Width, bestAppLevelBounds.Height);
}
}

public RectangleF GetAppNodeLevelBounds(EmailImage image)
{
    return LocalToParent(slidingNode.LocalToParent(image.LocalToParent(image.Bounds)));
}

public void CaptureInitialSlidingOffset()
{
    PMatrix slidingMatrix = slidingNode.Matrix;
    initialSlidingOffset.Width = slidingMatrix.OffsetX;
    initialSlidingOffset.Height = slidingMatrix.OffsetY;
}

public void Reset(bool animate)
{
    PMatrix slidingMatrix = slidingNode.Matrix;
    slidingMatrix.OffsetX = initialSlidingOffset.Width;
    slidingMatrix.OffsetY = initialSlidingOffset.Height;
    PMatrix matrix = Matrix;
    matrix.OffsetX = 0;
    matrix.OffsetY = 0;

    long duration = 0;
}

```

```

if (animate) {
    duration = Constants.DEFAULT_ANIMATION_TIME;
    slidingNode.AnimateToMatrix(slidingMatrix, duration);
    AnimateToMatrix(matrix, duration);
} else {
    slidingNode.Matrix = slidingMatrix;
    this.Matrix = matrix;
}

public override void LayoutChildren()
{
    if (lastLayoutBounds.IsEmpty || !lastLayoutBounds.Equals(Bounds))
    {
        slidingNode.SetBounds(Bounds.X, Bounds.Y, Bounds.Width, Bounds.Height);
        float offsetY = 0;
        PNodeList children = slidingNode.ChildrenReference;
        PNode each = null;

        // Assume height of first text is the height of all text
        for (int i = 0; i < children.Count; i++)
        {
            each = children[i];
            each.SetBounds(Bounds.X, Bounds.Y + offsetY, each.Width, each.Height);
            offsetY += each.Height;
        }
        lastLayoutBounds = Bounds;
    }
}

public class EmailImage : ImageNode
{
    public EmailImage(Bitmap image) : base(image)
    {
        // this.Pickable = false;
        //uses Transparency = true;
        //transparencyLocation = new Point(0,0);
    }
}

class SliderDragEventHandler : PDragEventHandler

```

```

{
    bool shouldDrag = true;

    public SliderDragEventHandler()
    {
        this.MinDragStartDistance = Constants.DRAG_THRESHOLD;
    }
    public bool ShouldDrag
    {
        set
        {
            shouldDrag = value;
        }
    }
    protected override void StartDragActivity(PInputEventArgs e)
    {
        base.StartDragActivity(e);
        DragActivity.StepInterval = 10;
    }
    protected override bool ShouldStartDragInteraction(PInputEventArgs e)
    {
        return shouldDrag && base.ShouldStartDragInteraction(e);
        //return PUtil.DistanceBetweenPoints(MousePressedCanvasPoint, e.CanvasPosition) >=
        Constants.DRAG_THRESHOLD;
    }
    protected override void OnStartDrag(object sender, PInputEventArgs e)
    {
        base.OnStartDrag (sender, e);
        if (e.PickedNode is EmailImage)
        {
            DraggedNode = e.PickedNode.Parent;
        }
    }
    protected override void OnEndDrag(object sender, PInputEventArgs e)
    {
        base.OnEndDrag(sender, e);
    }
    protected override void OnDrag(object sender, PInputEventArgs e)
    {
        //e.TopCamera.Canvas.PaintImmediately();
    }
}

```



```
SizeF s = e.GetDeltaRelativeTo(DraggedNode);
s = DraggedNode.LocalToParent(s);
// only drag vertically
DraggedNode.OffsetBy(0, s.Height);
}
public override void OnMouseDown(object sender, PInputEventArgs e)
{
    if (Dragging)
    {
        ((EmailListNode)sender).EmailAppNode.SnapObjectToHighlight(DraggedNode, true);
        base.OnMouseDown (sender, e);
    }
}
}
}
```