Tent Chaos Map

In[ ]:= **Manipulate[**
        ⌞交互式操作

        Plot[Piecewise[{{a x, 0 < x < 0.5}, {a (1 - x), 0.5 ≤ x < 1}}], {x, 0, 1}], {{a, 2}, 0, 3}]
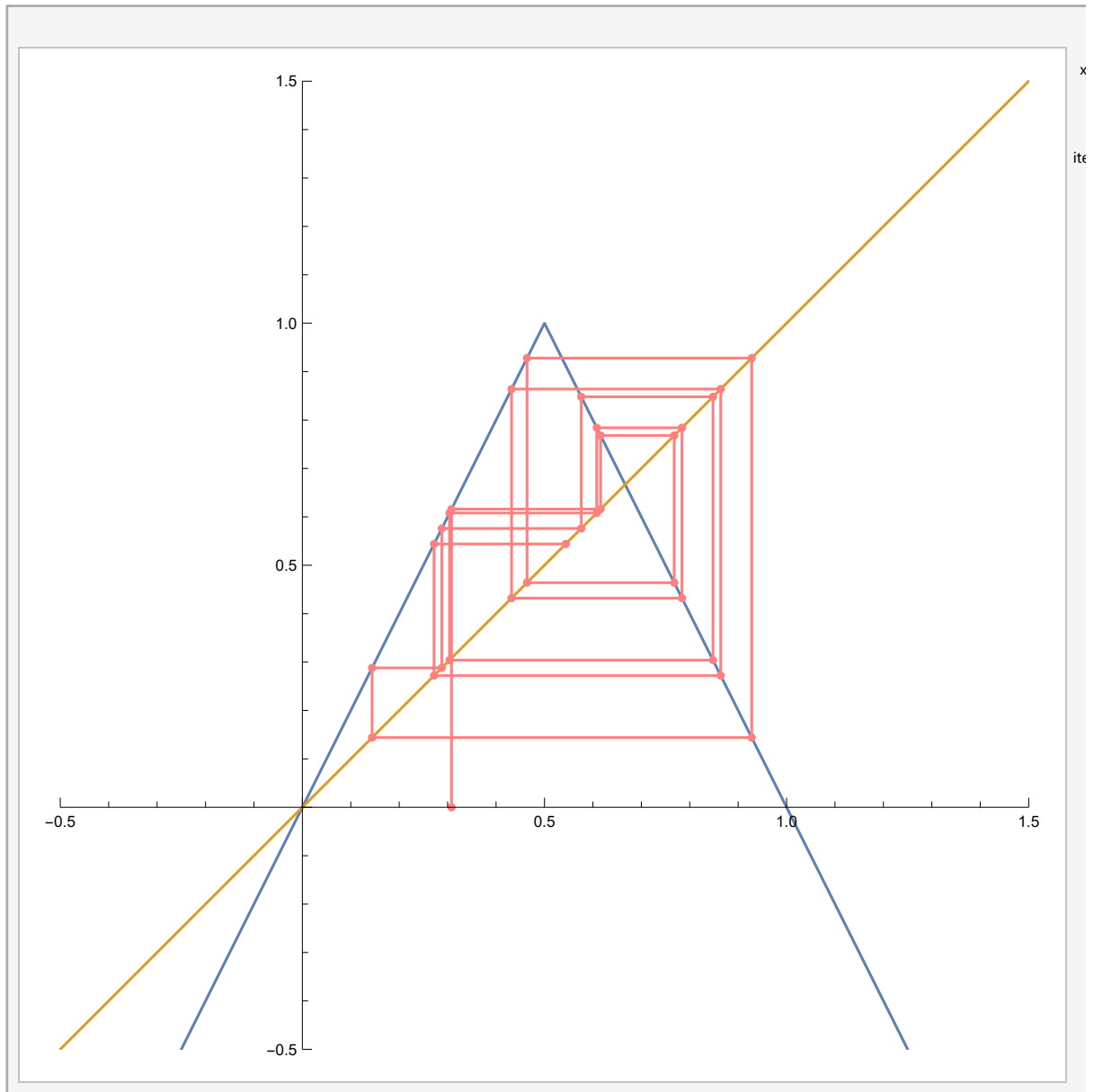   ⌞绘图 ⌞分段函数

Out[ ]=
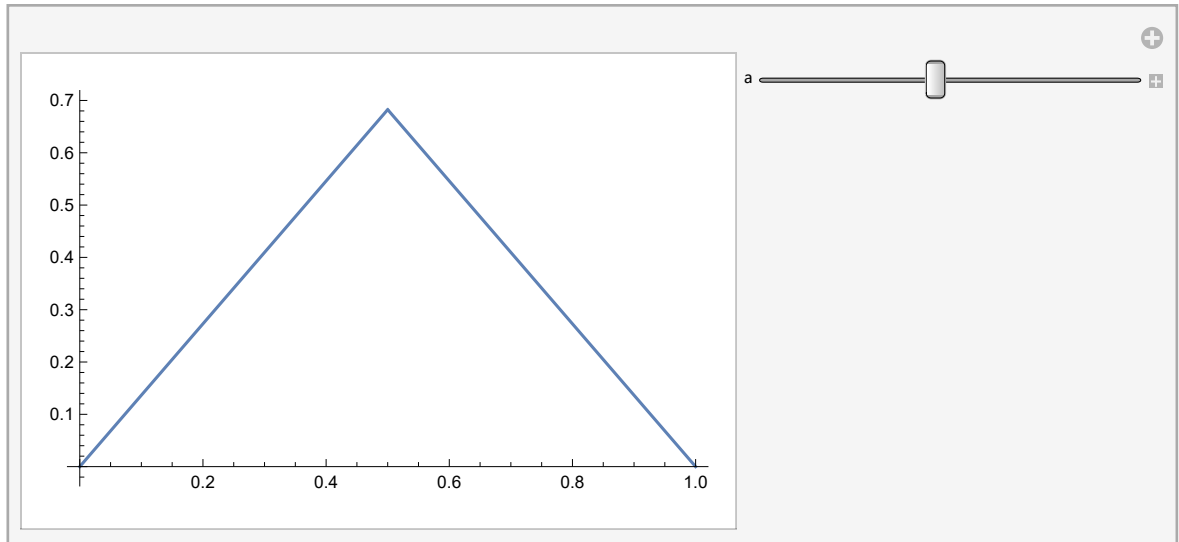
In[ ]:=

```
DynamicModule[{lps}, Manipulate[
  Show[Plot[{Piecewise[{{a x, x < 0.5}, {a (1 - x), 0.5 ≤ x}}], x}, {x, -0.5, 1.5},
    PlotRange → {{-0.5, 1.5}, {-0.5, 1.5}}, AspectRatio → 1, ImageSize → Large],
  ListLinePlot[
    lps = (Partition[Riffle[#, #], 2, 1] &) @
      NestList[Piecewise[{{a #, # < 0.5}, {a (1 - #), 0.5 ≤ #}}] &, x0, iter];
    lps[[1, 2]] = 0;
    lps, PlotStyle → Pink, PlotMarkers → {Automatic, 5}]
  ], {{x0, 0.2}, 0, 1}, {{a, 2}, 1, 4}, {iter, 10, 30, 1}]]
```

Out[ ]=

NestList
嵌套列表