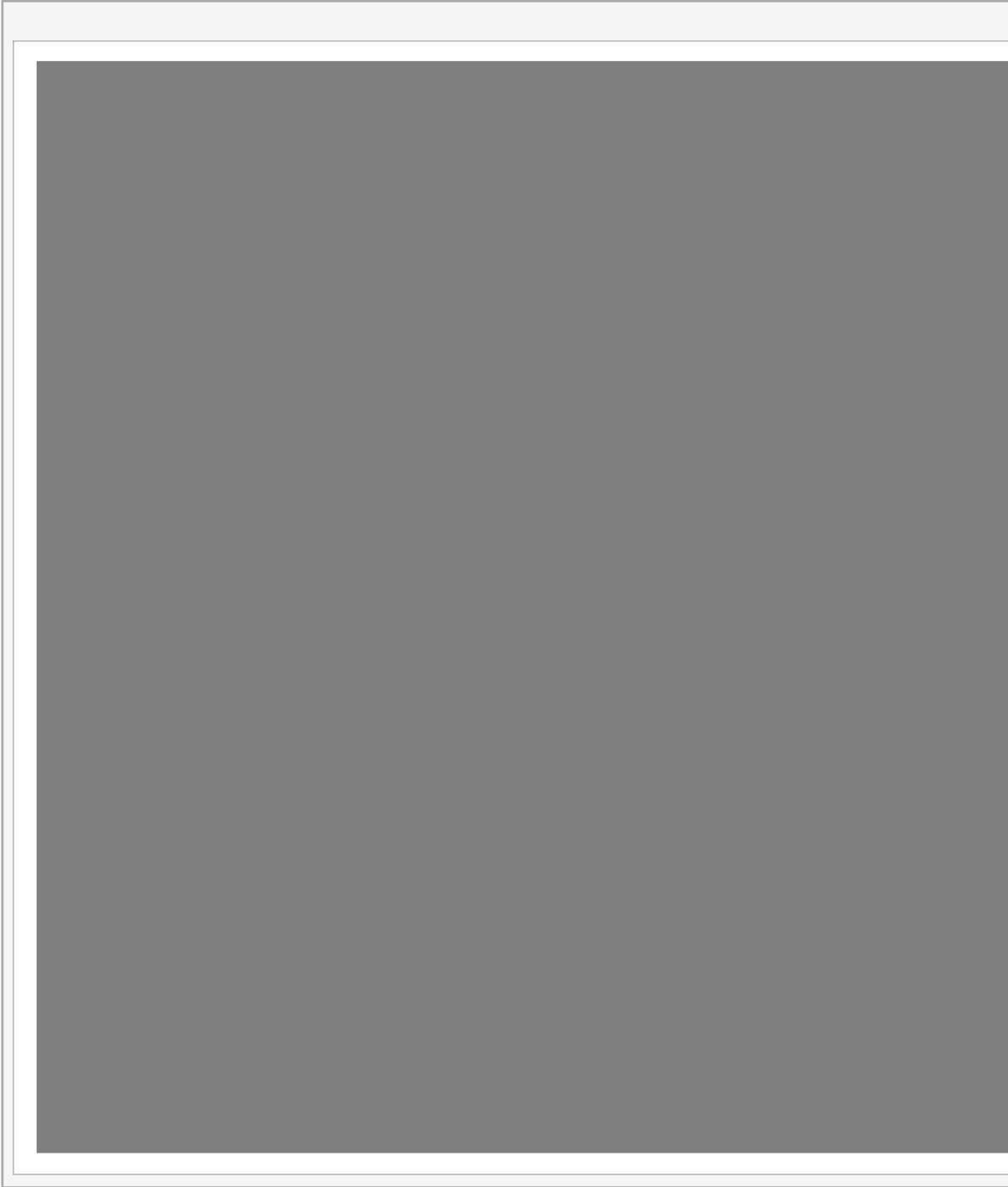


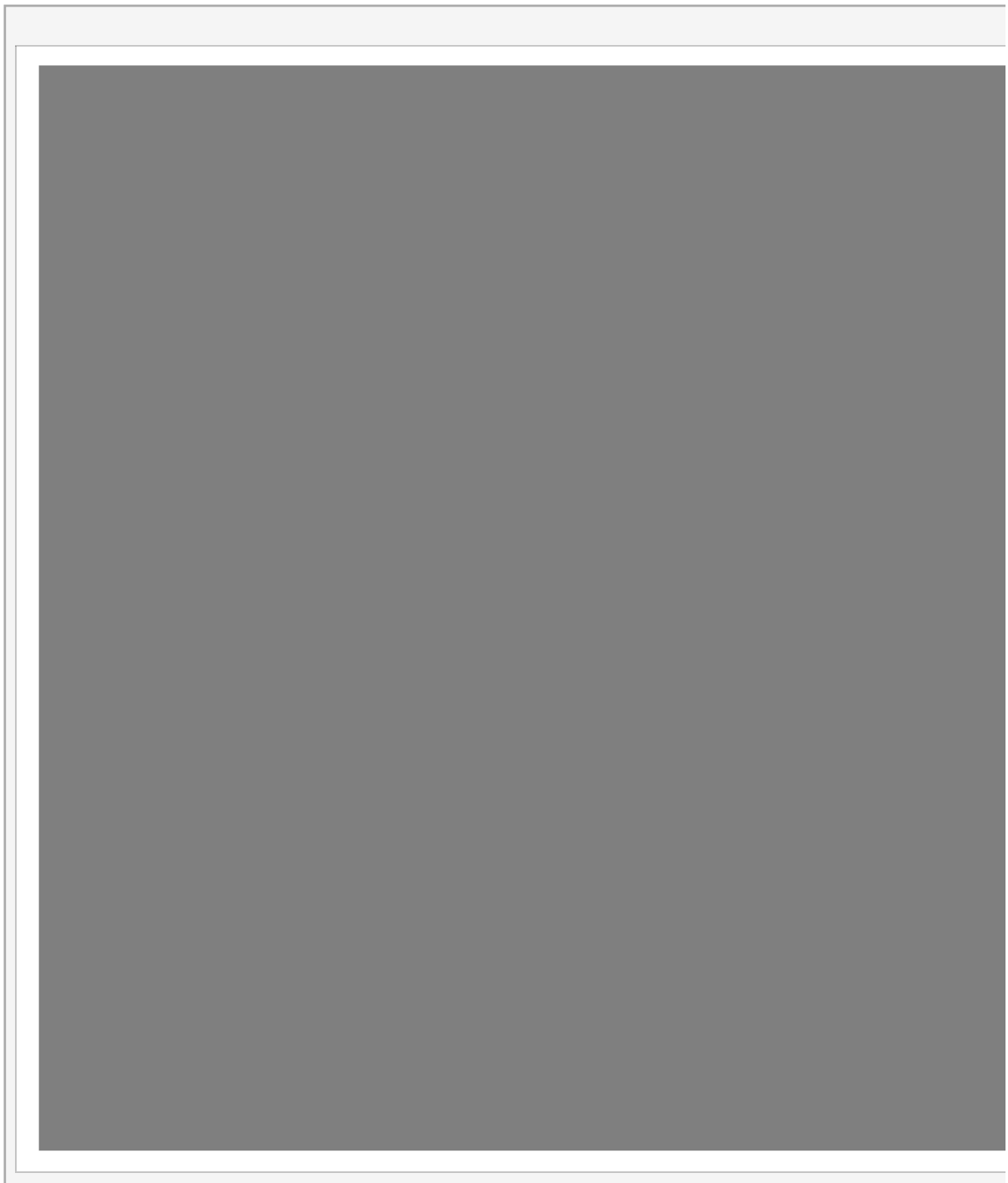
```
Manipulate[
  ParametricPlot3D[{Cos[u], Sin[u], h Sin[v u]}, {u, 0, t}, PlotRange -> 1,
    {h, 0, 2}, {v, 0, 10}, {t, 0.01, 2  $\pi$ }]
```

Out[]=



```
In[ ]:= Manipulate[  
  交互式操作  
  x = h Cos[v u];  
    余弦  
  y = h Sin[v u];  
    正弦  
  ParametricPlot3D[{Cos[u] x, Sin[u] x, y}, {u, 0, t}, PlotRange -> 1],  
    绘制三维参数图 余弦 正弦 绘制范围  
  {h, 0, 2}, {v, 0, 20}, {t, 0.01, 2  $\pi$ }]
```

Out[]:=

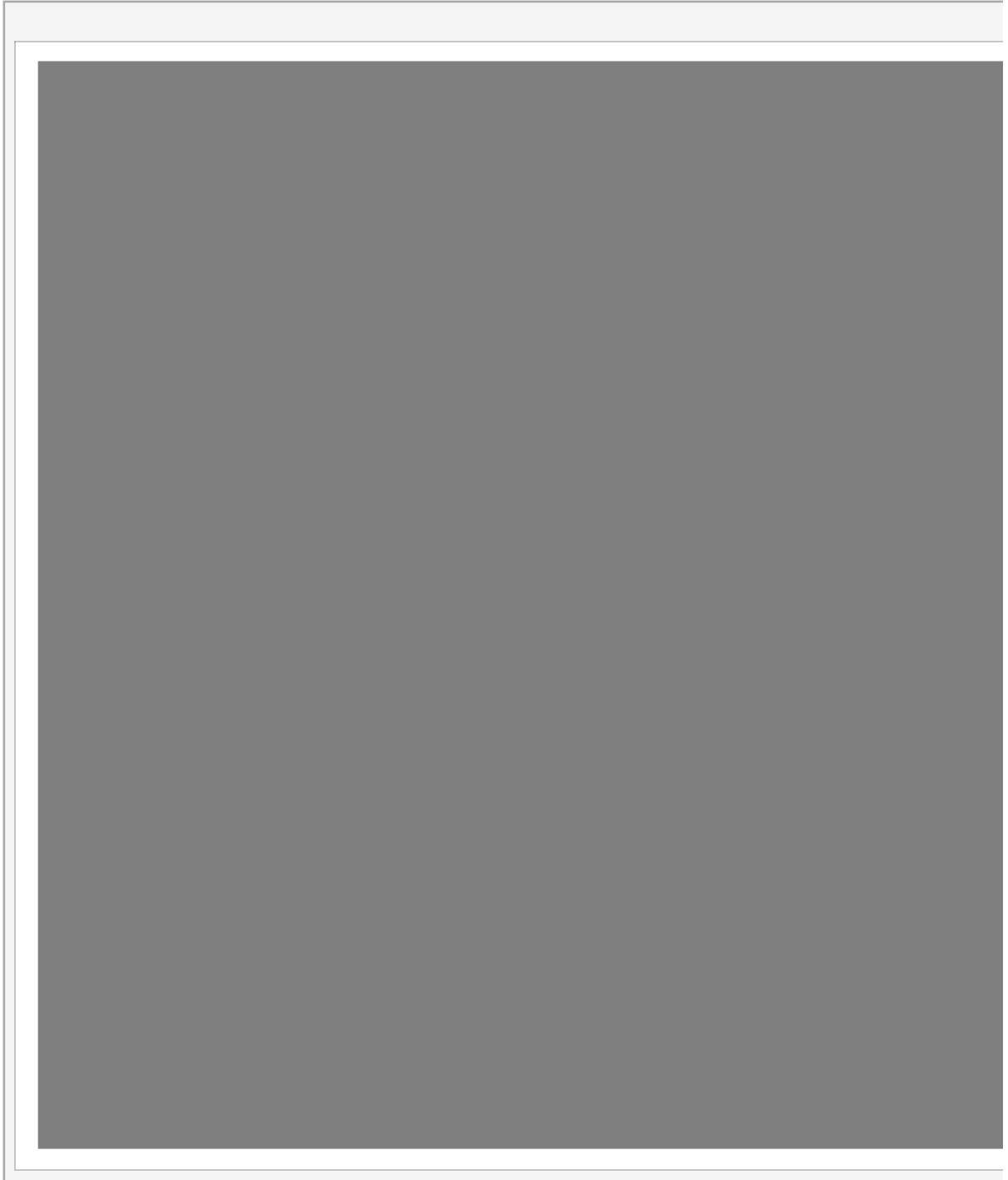


```

In[ ]:= Manipulate[
  交互式操作
  x = h Cos[v u];
  余弦
  y = h Sin[v u];
  正弦
  ParametricPlot3D[{Cos[u] (1 + x), Sin[u] (1 + x), y}, {u, 0, t}, PlotRange -> 2],
  绘制三维参数图 余弦 正弦 绘制范围
  {h, 0, 2}, {v, 0, 20}, {t, 0.01, 2 π}]

```

Out[]:=

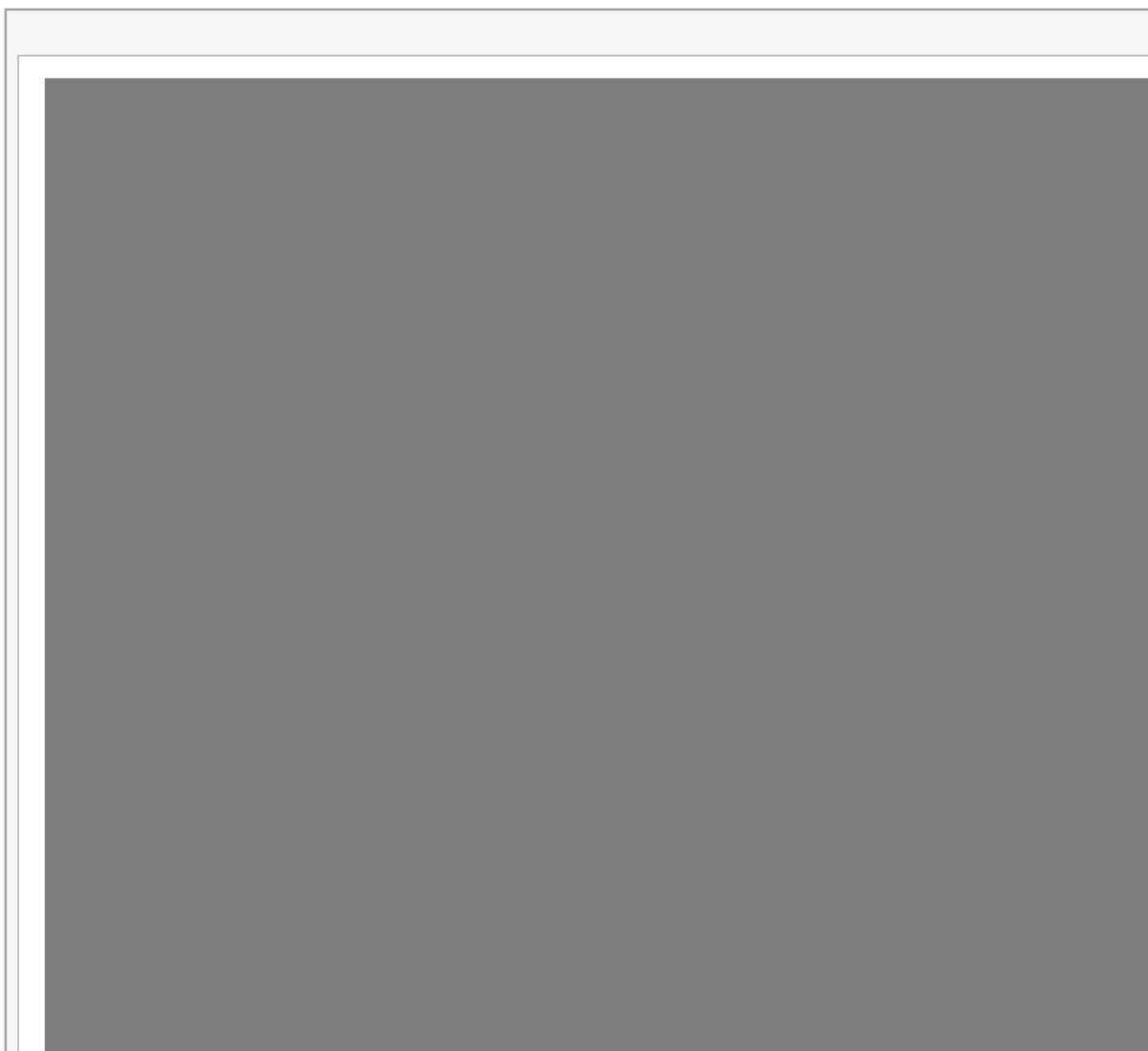


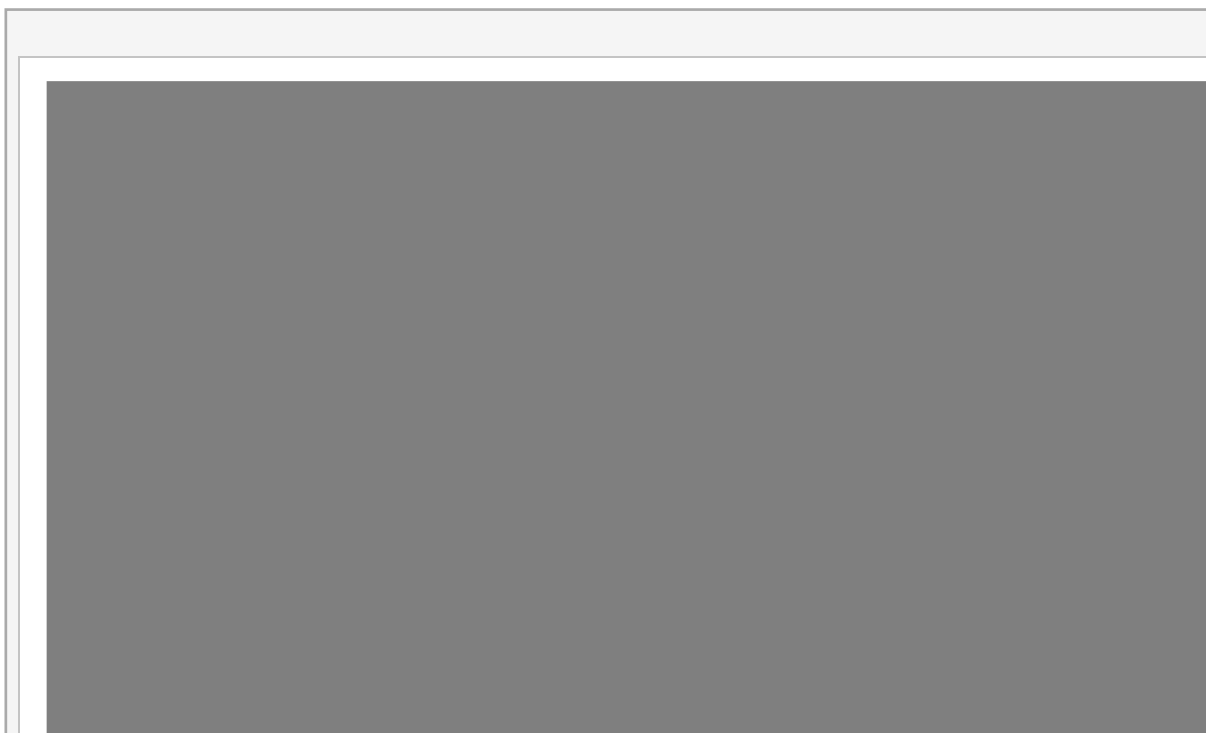
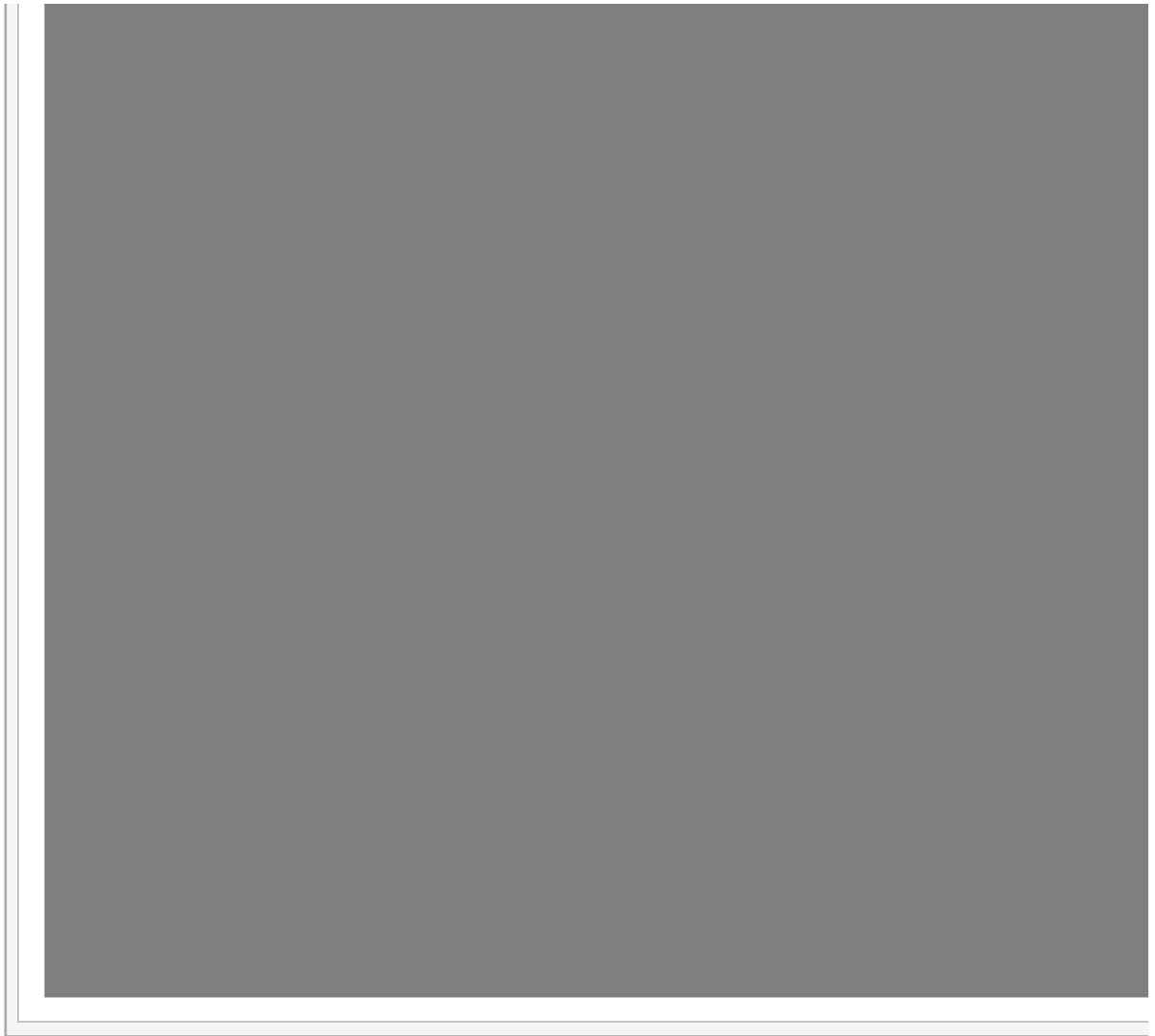
```

In[ ]:= Manipulate[
  交互式操作
  x = h Cos[v u];
    余弦
  y = h Sin[v u];
    正弦
  Show[
    显示
    ParametricPlot3D[{Cos[u] (1 + x), Sin[u] (1 + x), y}, {u, 0, t},
      绘制三维参数图    余弦    正弦
    PlotRange → 2,
      绘制范围
    PlotStyle → Directive[Pink, Tube[0.1]]],
      绘图样式    指令    粉色    管
    RevolutionPlot3D[{Cos[u] (h - 0.1) + 1, Sin[u] (h - 0.1)}, {u, 0, 2 π}, Mesh → None,
      绘制三维旋转图    余弦    正弦    网格    无
    PlotStyle → Directive[Purple, Opacity[0.7], Specularity[5]]],
      绘图样式    指令    紫色    不透明度    反射度
    ImageSize → Large],
      图像尺寸    大
  {h, 0, 2}, {v, 0, 20}, {t, 0.01, 2 π}, {s, 1, 50}]

```

Out[]:=





In[]:=*

Out[]=*

