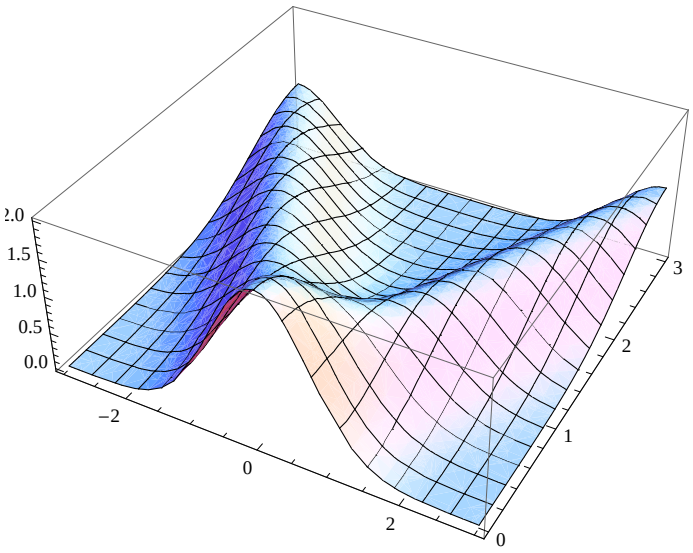
In[1]:=
```
u[x_, t_] = Exp[-(x - t)^2] + Exp[-(x + t)^2]
```

Out[1]=
$$e^{-(-t+x)^2} + e^{-(t+x)^2}$$

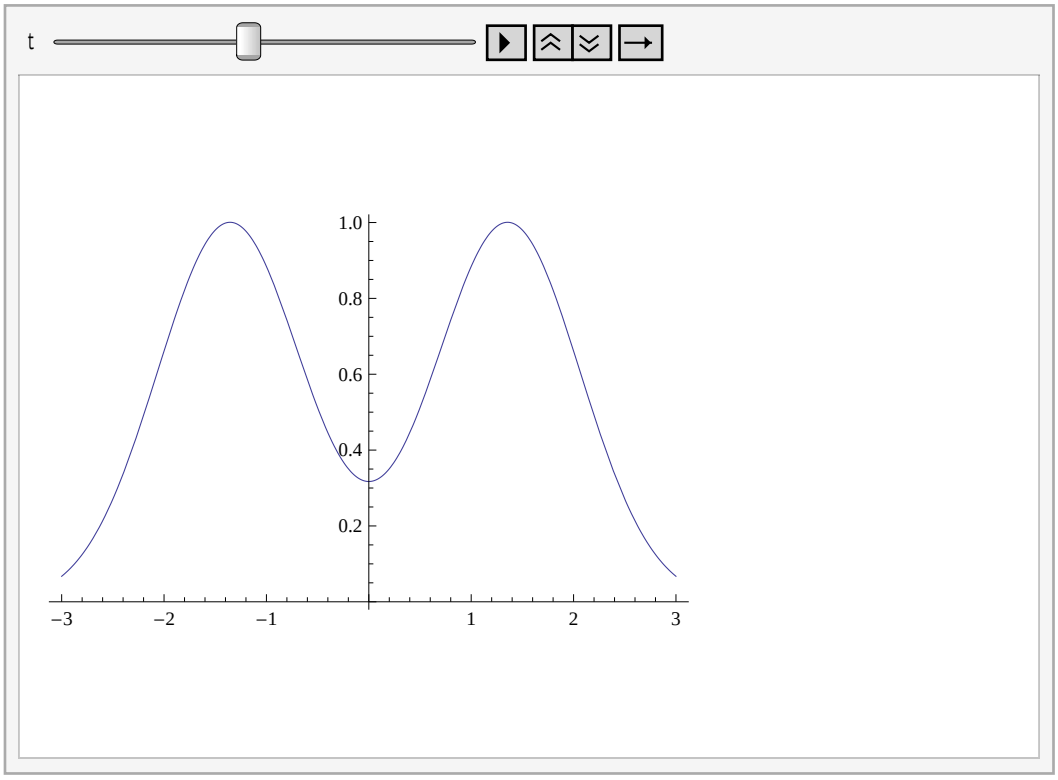
In[2]:=
```
Plot3D[u[x, t], {x, -3, 3}, {t, 0, 3}]
```

Out[2]=



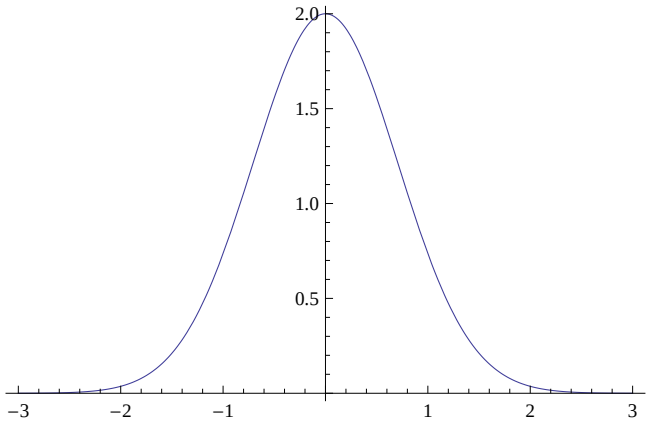
In[3]:=
```
Animate[Plot[u[x, t], {x, -3, 3}], {t, 0, 3}]
```

Out[3]=



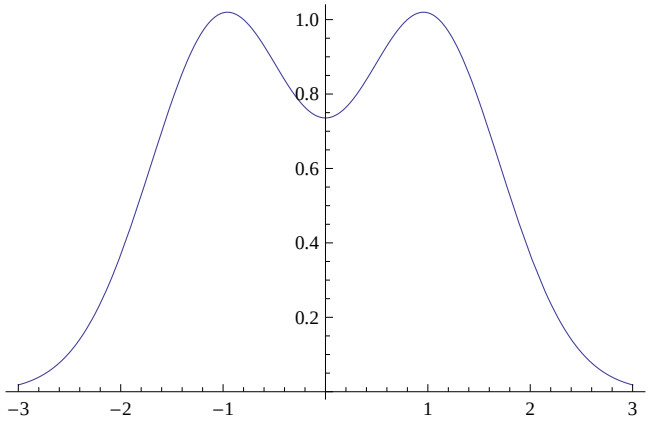
In[4]:=
```
p0 = Plot[u[x, 0], {x, -3, 3}]
```

Out[4]=



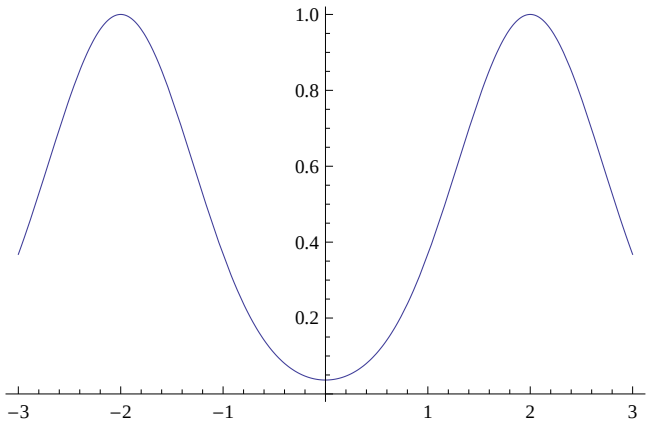
In[5]:=
```
p1 = Plot[u[x, 1], {x, -3, 3}]
```

Out[5]=



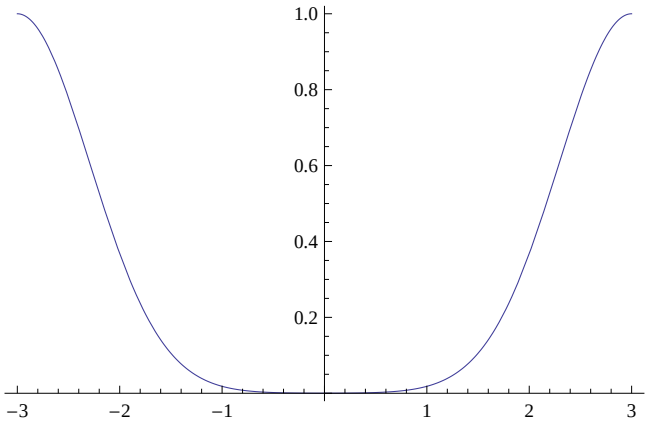
In[6]:=
```
p2 = Plot[u[x, 2], {x, -3, 3}]
```

Out[6]=



In[7]:=
```
p3 = Plot[u[x, 3], {x, -3, 3}]
```

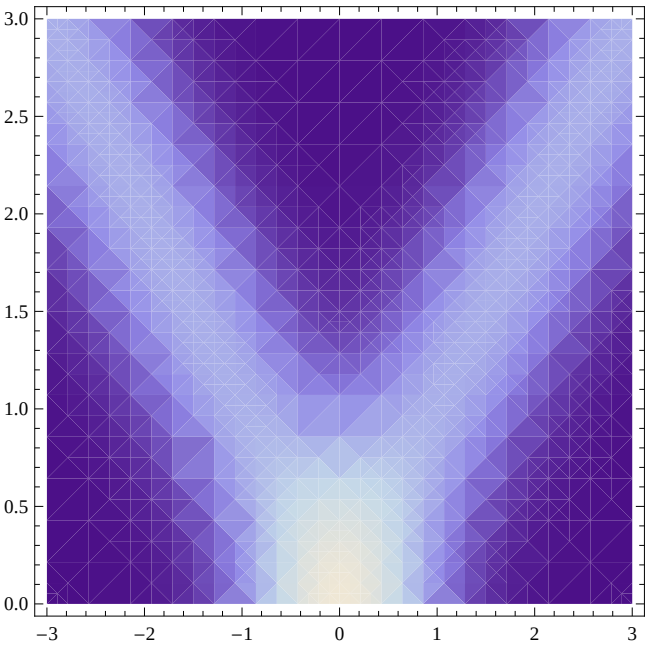
Out[7]=



In[8]:=

In[9]:=
```
DensityPlot[u[x, t], {x, -3, 3}, {t, 0, 3}]
```

Out[9]=



In[10]:=