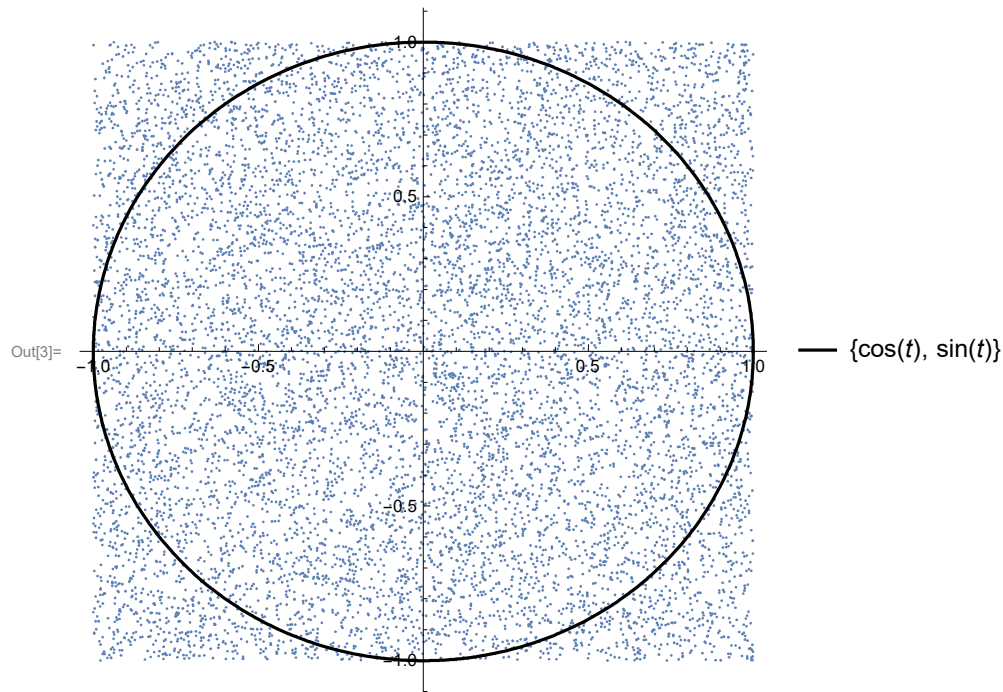


In[1]:=

```
pairs = RandomReal[{-1, 1}, {10000, 2}];  
lp = ListPlot[pairs, AspectRatio -> 1];  
Show[lp,  
  ParametricPlot[{Cos[t], Sin[t]}, {t, 0, 2 Pi}, PlotStyle -> Black, PlotTheme -> Detailed]]
```



In[4]:=

```
calcPi[n_] := 4 * Count[Map[Norm, RandomReal[{-1, 1}, {n, 2}]], _? (# <= 1 &)] / n
```

In[9]:= N[calcPi[10²]]

N[calcPi[10⁴]]

N[calcPi[10⁶]]

N[calcPi[10⁸]]

Out[9]= 3.2

Out[10]= 3.1144

Out[11]= 3.14182

Out[12]= 3.14121