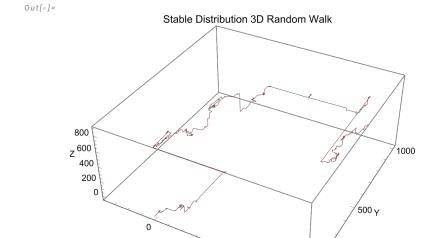
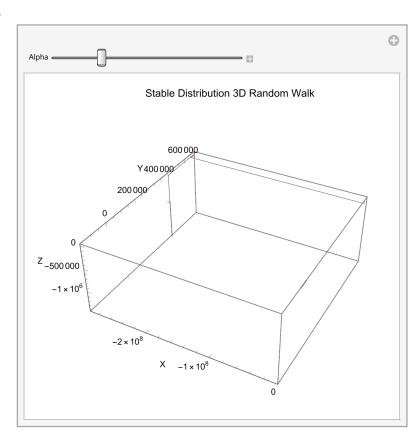
## Levy Flight

```
In[@]:= ListLinePlot3D[
Accumulate[Table[RandomVariate[StableDistribution[1.13, 0, 1, 1], 3], {1000}]],
PlotStyle → Directive[Red, Thickness[0.001]], AxesLabel → {"X", "Y", "Z"},
PlotLabel → "Stable Distribution 3D Random Walk"]
```



500

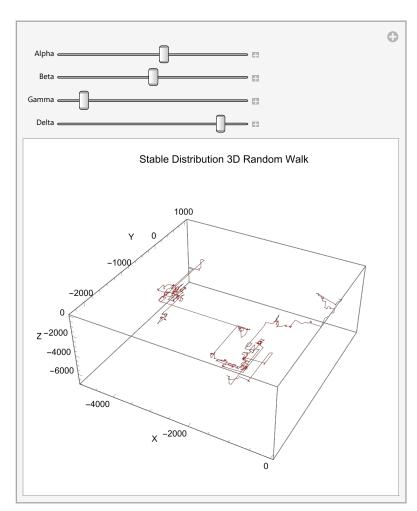
Out[0]=



## In[@]:= Manipulate[ListLinePlot3D[

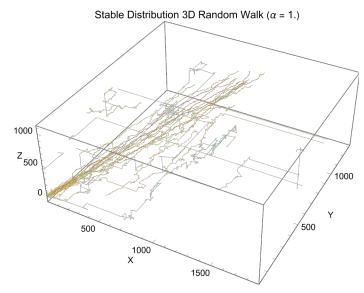
```
Accumulate[Table[RandomVariate[StableDistribution[\alpha, \beta, \gamma, \delta], 3], {1000}]], PlotStyle \rightarrow Directive[Red, Thickness[0.001]], AxesLabel \rightarrow {"X", "Y", "Z"}, PlotLabel \rightarrow "Stable Distribution 3D Random Walk"], {\{\alpha, 1.13, "Alpha"}, 0.01, 2, 0.01}, {\{\beta, 0, "Beta"}, -1, 1, 0.01}, {\{\gamma, 1, "Gamma"}, 0.01, 10, 0.01}, {\{\delta, 1, "Delta"}, 0, 10, 0.01}]
```

Out[0]=



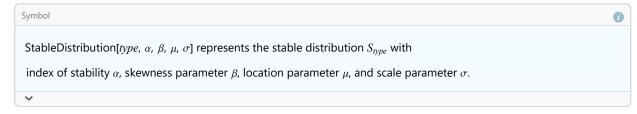
PlotLabel  $\rightarrow$  StringForm["Stable Distribution 3D Random Walk ( $\alpha = ^{\circ}$ )", alpha]], {alpha, 1, 2, 0.05}]

Out[0]=



In[@]:= ? StableDistribution

Out[0]=



```
\label{localization} $$ \inf\{\circ\}:= \text{ListLinePlot3D[Accumulate[Table[RandomVariate[NormalDistribution[], 3], \{1000\}]], } $$ PlotStyle $\to $$ Directive[Blue, Thickness[0.001]], AxesLabel $\to {"X", "Y", "Z"}, $$ PlotLabel $\to $"Normal Distribution 3D Random Walk"]
```



