Stable Distribution

The typical example of a stable distribution.

In[ ]:=
```
? StableDistribution
```

Out[ ]=

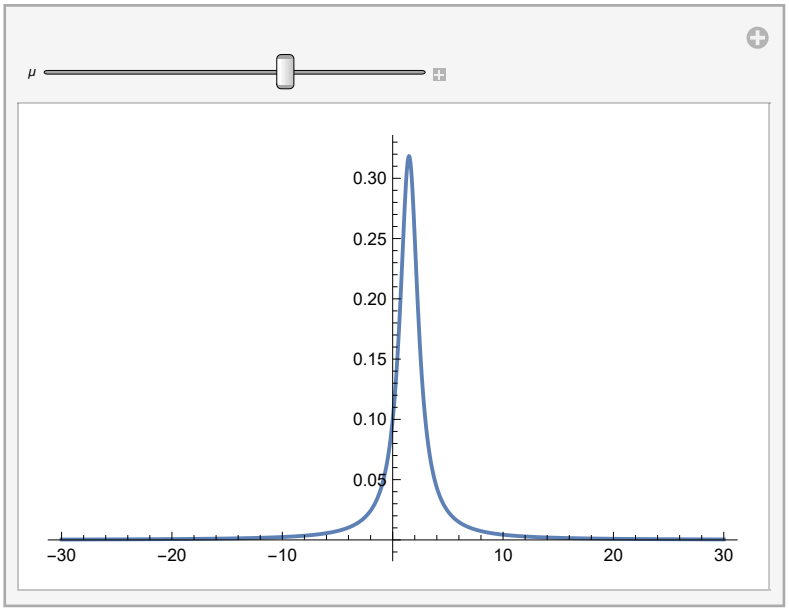
Symbol

StableDistribution[*type*, α, β, μ, σ] represents the stable distribution S_{type} with

index of stability α, skewness parameter β, location parameter μ, and scale parameter σ.

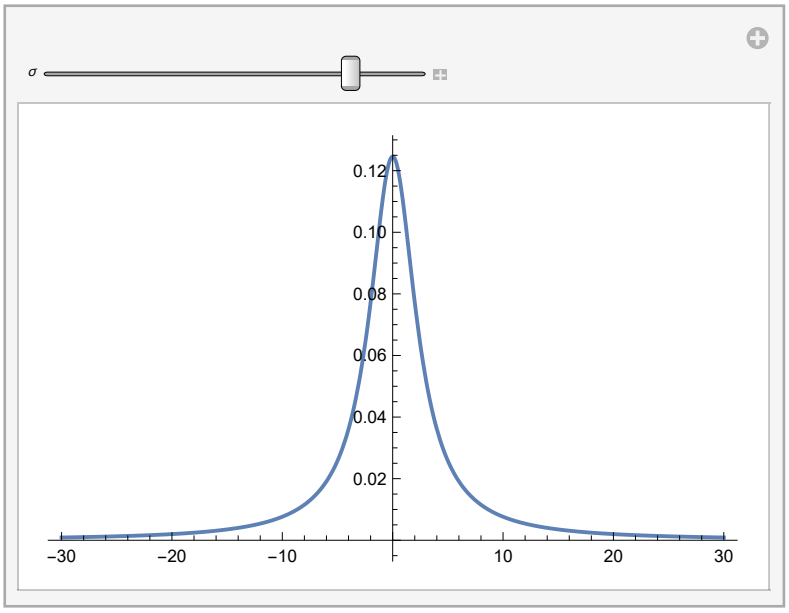
In[ ]:=
```
Manipulate[
 Plot[PDF[StableDistribution[1, 0, μ, 1], x], {x, -30, 30}, PlotRange → All], {μ, -5, 5}]
```

Out[ ]=



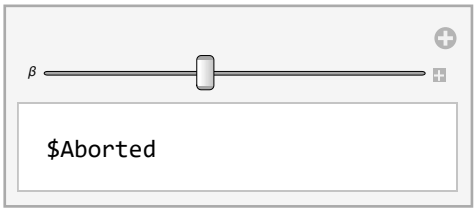
In[ ]:=
```
Manipulate[
 Plot[PDF[StableDistribution[1, 0, 0, σ], x], {x, -30, 30}, PlotRange → All], {σ, 0.3, 3}]
```

Out[ ]=



In[ ]:=
```
Manipulate[
 Plot[PDF[StableDistribution[1, β, 0, 1], x], {x, -30, 30}, PlotRange → All], {β, -1, 1}]
```

Out[ ]=



In[•]:=
```
Manipulate[
 Plot[PDF[StableDistribution[α, 0, 0, 1], x], {x, -30, 30}, PlotRange → All], {α, 0.1, 2}]
```

Out[•]=