Notebook Screen Capture

Check on the Analytical Solution

```
# Let T = 1s and a = 1
figure(figsize=(6,2))
a = 1
t = arange(-1,3.001,.001)
x = ssd.step(t) - ssd.step(t-1)
h = a*exp(-a*t)*ssd.step(t)
y,ty = ssd.conv_integral(x,t,h,t)
plot(ty,y)
```

Generate *x*(*t*) and *h*(*t*) then numerically convolve with *scipy.signal.convolve* used in the core calculation

(...Repeat for two more plots with *a* = 5 and 10)