



Security and the CTO



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**You've already got a
lot on your plate**

tl;dr

Know the business

Get good at risk

**github.com/abedra/
fair_notebook**

Have a plan

**Focus on the
foundations**

Hire help

**Security is a state of
risk tolerance**

**It shouldn't be
adversarial**

**It should be driven by
data and fact**

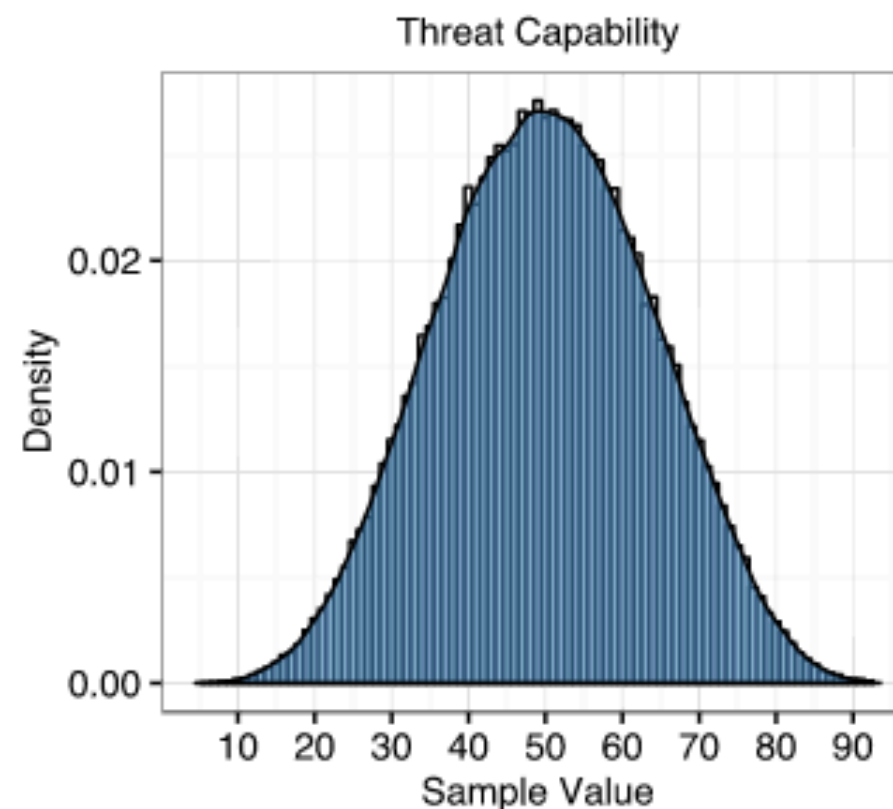
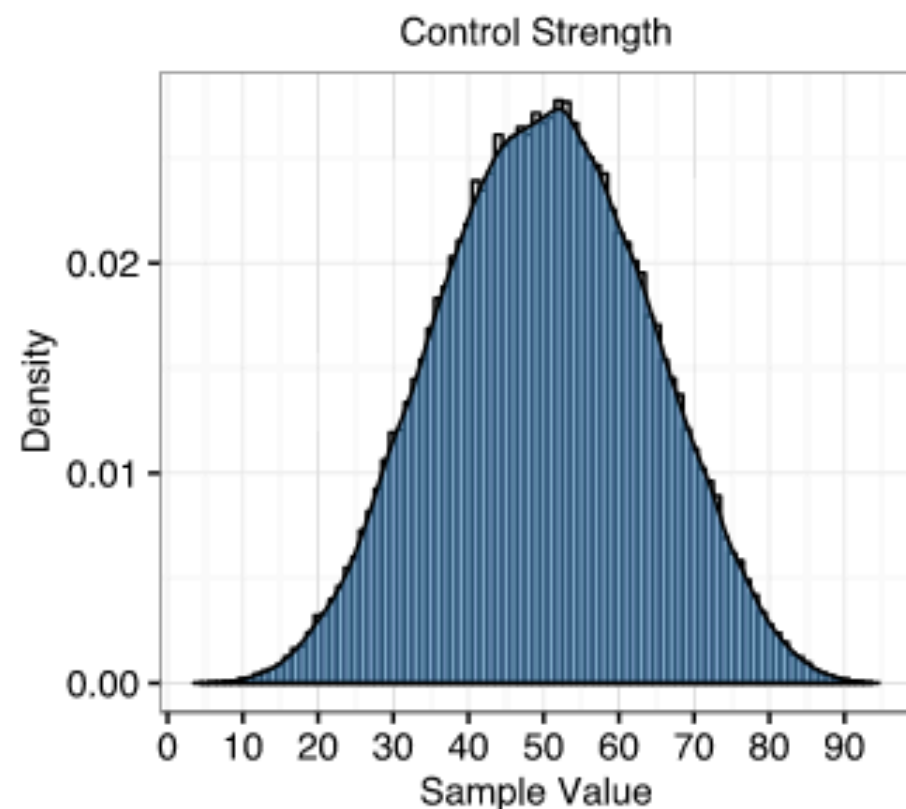
Generate distribution of samples

```
In [8]: sampleSize <- 100000
cs <- rpert(sampleSize, cs.min, cs.likely, cs.max, cs.confidence)
tcap <- rpert(sampleSize, tcap.min, tcap.likely, tcap.max, tcap.confidence)
```

```
In [9]: csPlot <- ggplot(data.frame(cs), aes(x = cs))
csPlot <- csPlot + geom_histogram(aes(y = ..density..), color="black",fill="white", binwidth=1)
csPlot <- csPlot + geom_density(fill="steelblue",alpha=2/3)
csPlot <- csPlot + theme_bw()
csPlot <- csPlot + labs(title="Control Strength", x="Sample Value", y="Density")
csPlot <- csPlot + scale_x_continuous(breaks=seq(0,100, by=10))

tcapPlot <- ggplot(data.frame(tcap), aes(x = tcap))
tcapPlot <- tcapPlot + geom_histogram(aes(y = ..density..), color="black",fill="white", binwidth=1)
tcapPlot <- tcapPlot + geom_density(fill="steelblue",alpha=2/3)
tcapPlot <- tcapPlot + theme_bw()
tcapPlot <- tcapPlot + labs(title="Threat Capability", x="Sample Value", y="Density")
tcapPlot <- tcapPlot + scale_x_continuous(breaks=seq(0,100, by=10))

grid.arrange(csPlot, tcapPlot, heights=4:5, ncol=2)
```



**Good security is
indistinguishable from
good design**

**Good design comes
from intentional action**

Thank you