Developing Data Product Week 4 Project

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Purpose of Project

Developing Shiny App

- ▶ Use Shiny to build data product application and deploy it on Rstudio's servers
- ▶ Shiny Application should include some form of input (widget: textbox, checkbox, . . .)
- ▶ Some operation on the ui input in sever.R
- ▶ Some reactive output displayed as a result of server calculationsll as the output of any embedded R code chunks within the document.

R Presenter

- ▶ use Slidify or Rstudio Presenter to prepare a reproducible pitch presentation for application
- ▶ It must be 5 pages
- ▶ Being hosted on github or Rpubs
- ▶ contained some embedded R code

Shiny Application

- Application tries to explain different distribution models
- it explains Unifrom, uniform, Exponential and Cauchy distributions.
- Dynamic plots of the above distribution
- Used radio buttons to navigate in the app

summary of the numbers

```
summary(runif(1:10000))
```

```
##       Min.    1st Qu.    Median      Mean   3rd Qu.         M
## 0.0000692 0.2549484 0.4934494 0.4998952 0.7471891 0.9997
```

```
summary( rnorm(1:10000))
```

```
##       Min.    1st Qu.    Median      Mean   3rd Qu.         M
## -4.509440 -0.651884  0.003392  0.003178  0.671120  4.377
```

```
summary(rexp(1:10000))
```
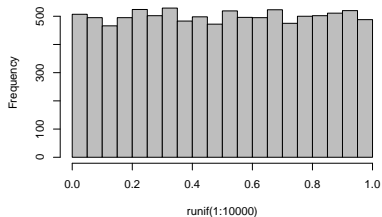
```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.00021 0.27859 0.68038 0.99961 1.39487 9.13009
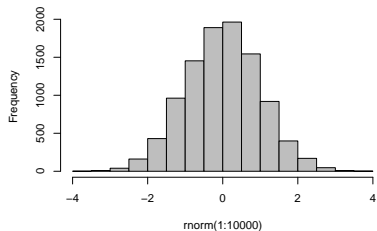```

```
summary(rcauchy(1:10000))
```

```
##       Min.    1st Qu.    Median      Mean   3rd Qu.         M
```
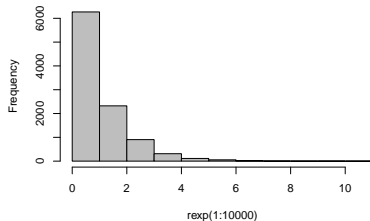
Slide with Plot