

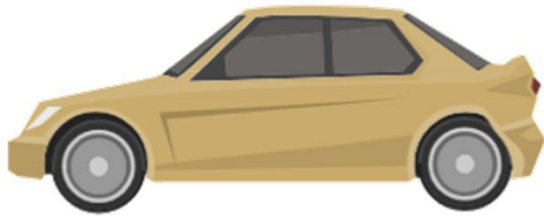
Formação Cientista de Dados

Pequenas Amostras

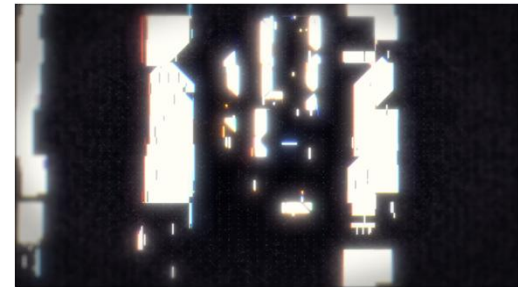
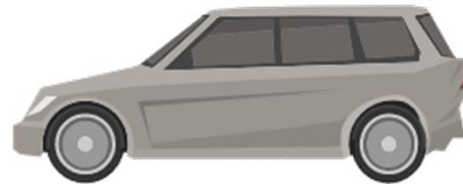
Comprar Carro



Lançamento



No Mercado a 5 Anos



Probabilidade a “longo prazo”

- Jogando um dado “justo” 6 vezes, qual a média esperada?
 - $1 + 2 + 3 + 4 + 5 + 6 / 6 = 3,5$

```
x = sample(1:6,6,replace = T)
mean(x)
```

```
> x = sample(1:6,6,replace = T)
> mean(x)
[1] 3.833333
> x = sample(1:6,6,replace = T)
> mean(x)
[1] 3.166667
> x = sample(1:6,6,replace = T)
> mean(x)
[1] 2.833333
> x = sample(1:6,6,replace = T)
> mean(x)
[1] 2.166667
```

```
x = sample(1:6,10000,replace = T)
mean(x)
```

```
> x = sample(1:6,10000,replace = T)
> mean(x)
[1] 3.5292
> x = sample(1:6,10000,replace = T)
> mean(x)
[1] 3.506
> x = sample(1:6,10000,replace = T)
> mean(x)
[1] 3.5099
> x = sample(1:6,10000,replace = T)
> mean(x)
[1] 3.5129
```



A large orange shape on the left side of the slide, consisting of a rectangle with a quarter-circle cutout on its right side.

Pequenas Amostras

- Probabilidade de conclusões falsas
- Não reprodutível
- Não comparável

