

# EDA

Lewei Er

2024-02-21

```
ExpData(data)
```

##		Descriptions	Value
## 1		Sample size (nrow)	978582
## 2		No. of variables (ncol)	16
## 3		No. of numeric/interger variables	7
## 4		No. of factor variables	0
## 5		No. of text variables	9
## 6		No. of logical variables	0
## 7		No. of identifier variables	1
## 8		No. of date variables	0
## 9		No. of zero variance variables (uniform)	1
## 10		%. of variables having complete cases	68.75% (11)
## 11		%. of variables having >0% and <50% missing cases	0% (0)
## 12		%. of variables having >=50% and <90% missing cases	12.5% (2)
## 13		%. of variables having >=90% missing cases	18.75% (3)

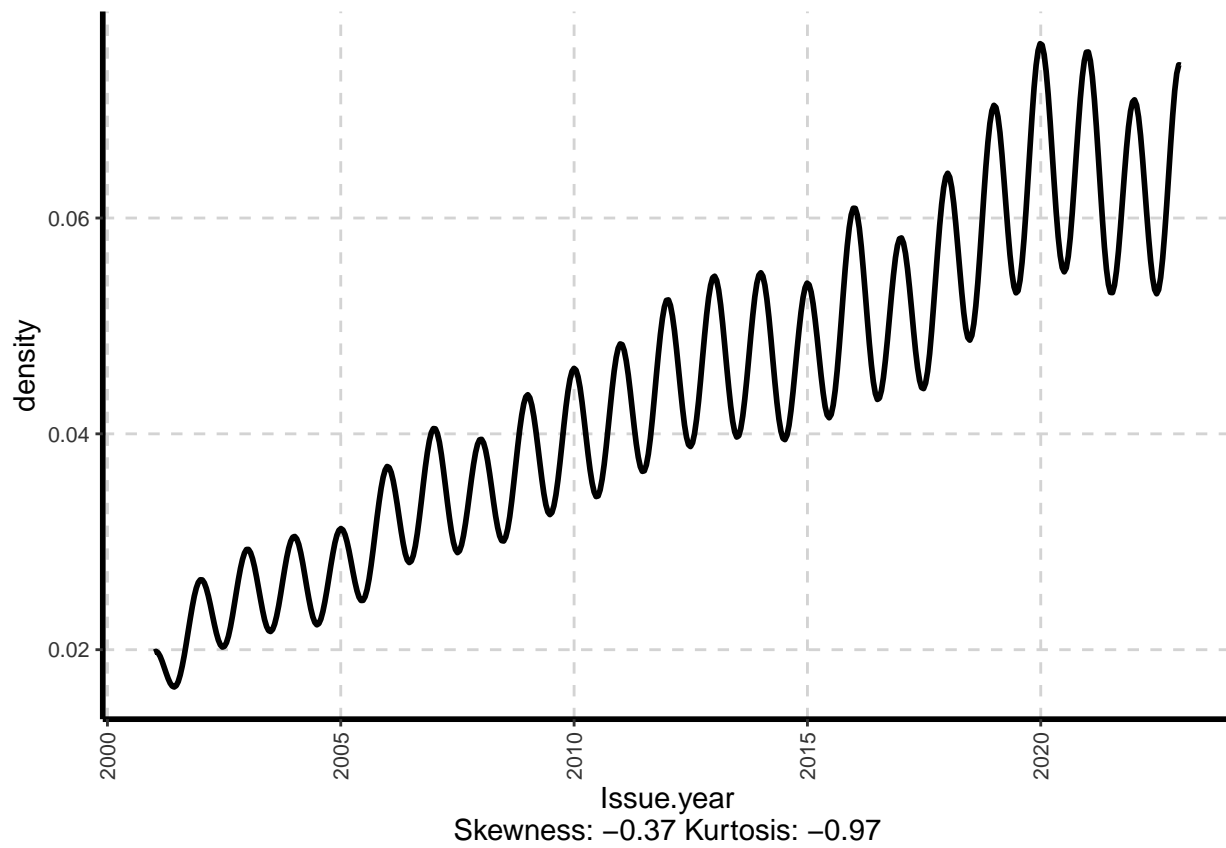
```
ExpData(data, type = 2)
```

##	Index	Variable_Name	Variable_Type	Sample_n	Missing_Count
## 1	1	Policy.number	character	978582	0
## 2	2	Policy.type	character	978582	0
## 3	3	Issue.year	integer	978582	0
## 4	4	Issue.age	integer	978582	0
## 5	5	Sex	character	978582	0
## 6	6	Face.amount	integer	978582	0
## 7	7	Smoker.Status	character	978582	0
## 8	8	Underwriting.Class	character	978582	0
## 9	9	Urban.vs.Rural	character	978582	0
## 10	10	Region	integer	978582	0
## 11	11	Distribution.Channel	character	978582	0
## 12	12	Death.indicator	integer	40376	938206
## 13	13	Year.of.Death	integer	40376	938206
## 14	14	Lapse.Indicator	character	110889	867693
## 15	15	Year.of.Lapse	integer	110889	867693
## 16	16	Cause.of.Death	character	39540	939042
##	Per_of_Missing No_of_distinct_values				
## 1		0.000		978582	
## 2		0.000		2	
## 3		0.000		23	
## 4		0.000		40	
## 5		0.000		2	
## 6		0.000		6	

## 7	0.000	2
## 8	0.000	4
## 9	0.000	2
## 10	0.000	6
## 11	0.000	3
## 12	0.959	1
## 13	0.959	23
## 14	0.887	3
## 15	0.887	23
## 16	0.960	17

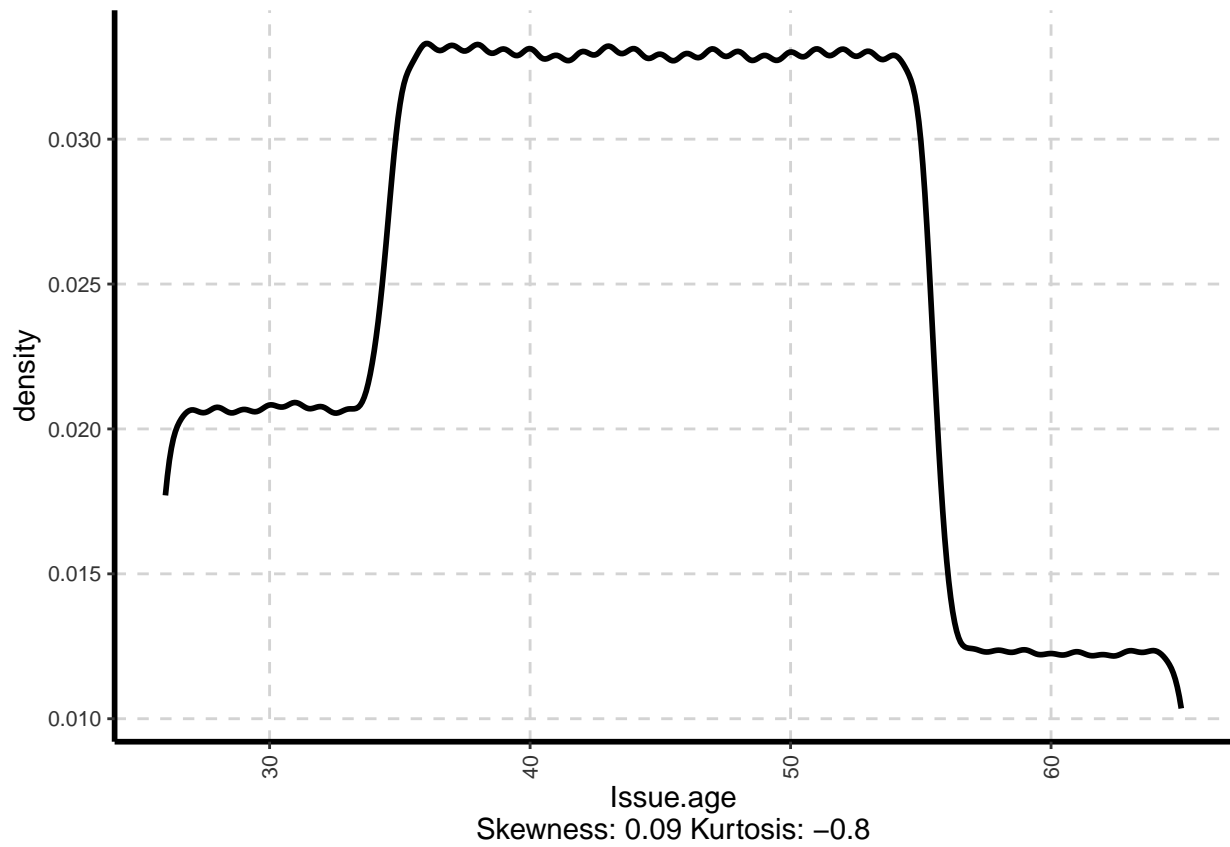
```
ExpNumViz(data)
```

```
## [[1]]
```

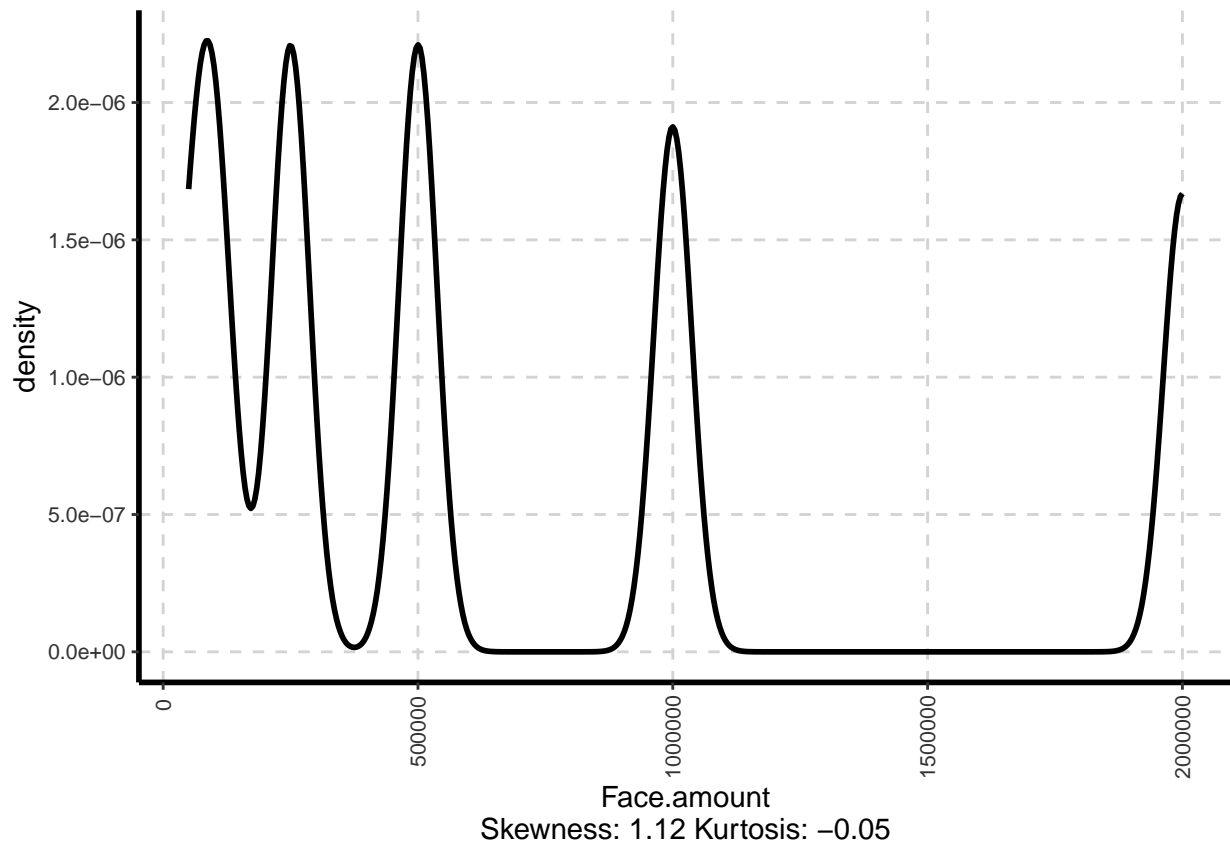


```
##
```

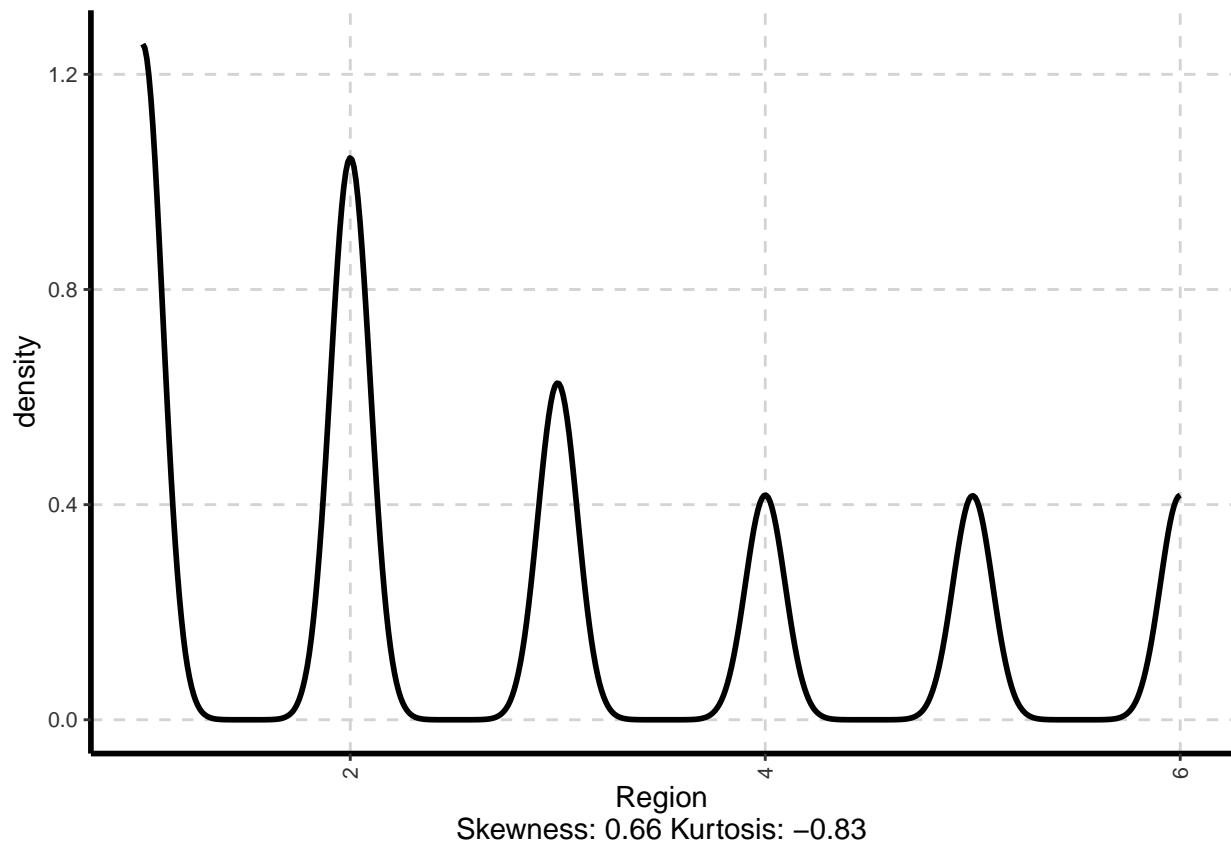
```
## [[2]]
```



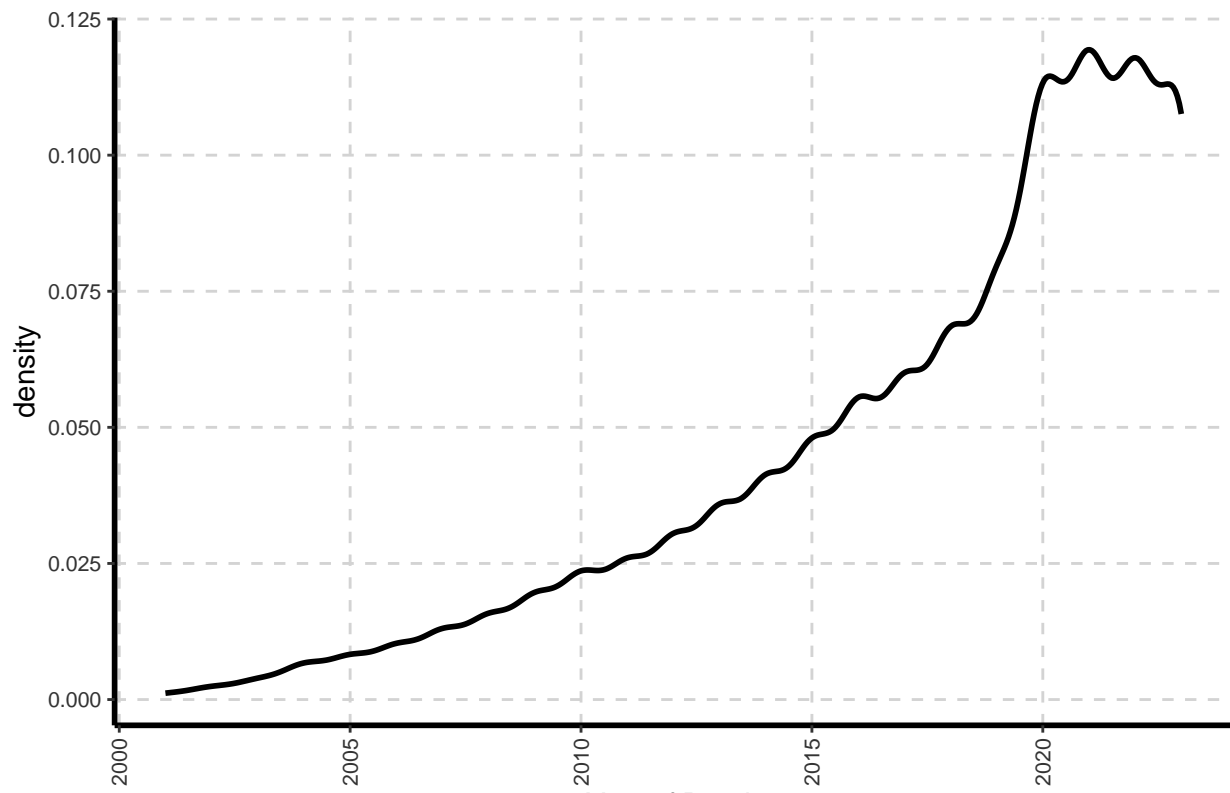
```
##  
## [[3]]
```



```
##  
## [[4]]
```

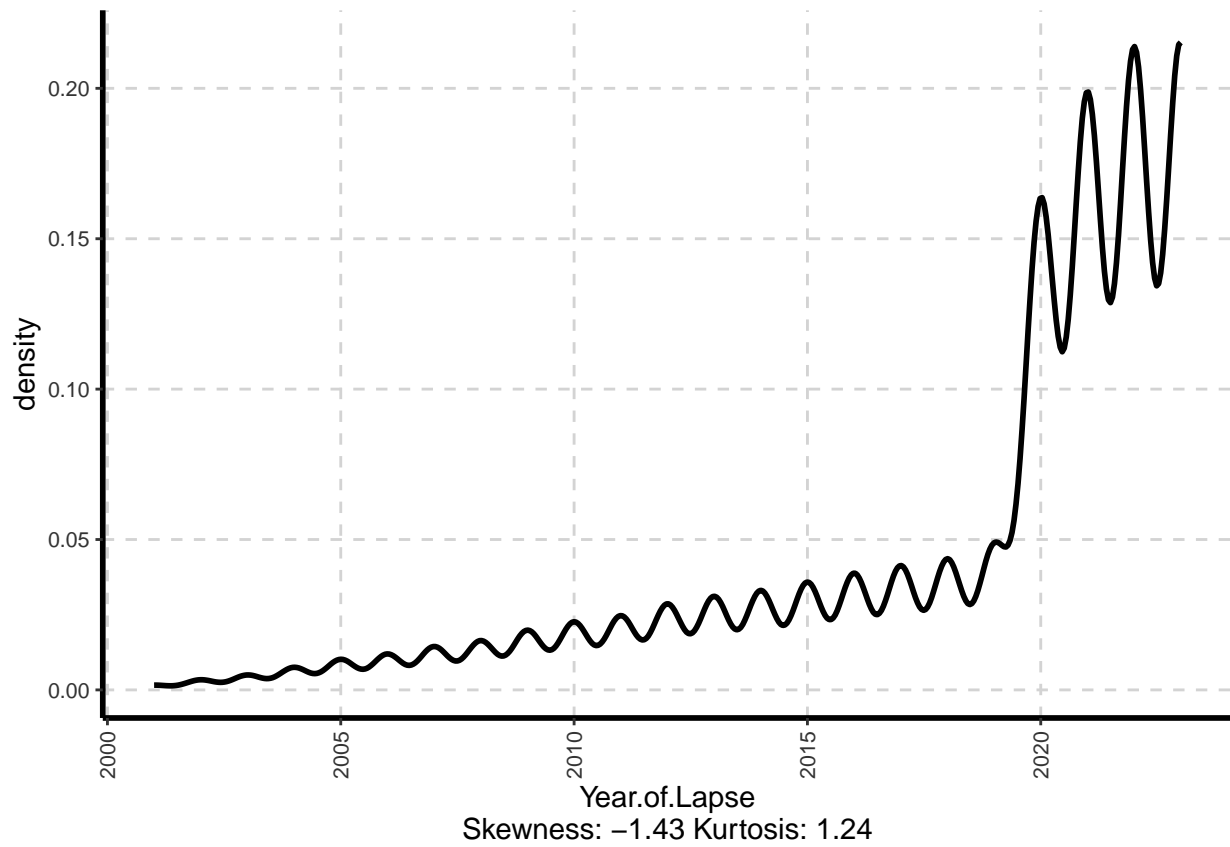


```
##  
## [[5]]
```



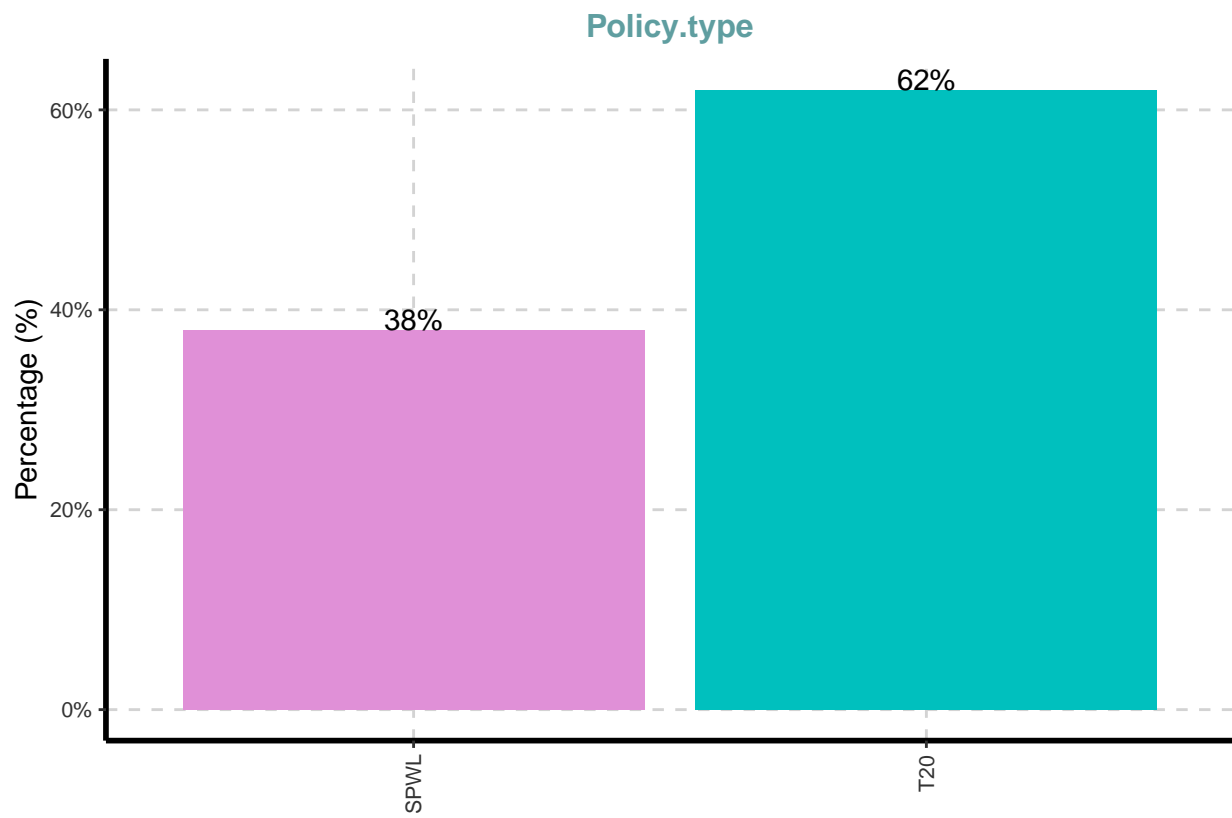
Year.of.Death  
Skewness: -1.02 Kurtosis: 0.38

##  
## [[6]]

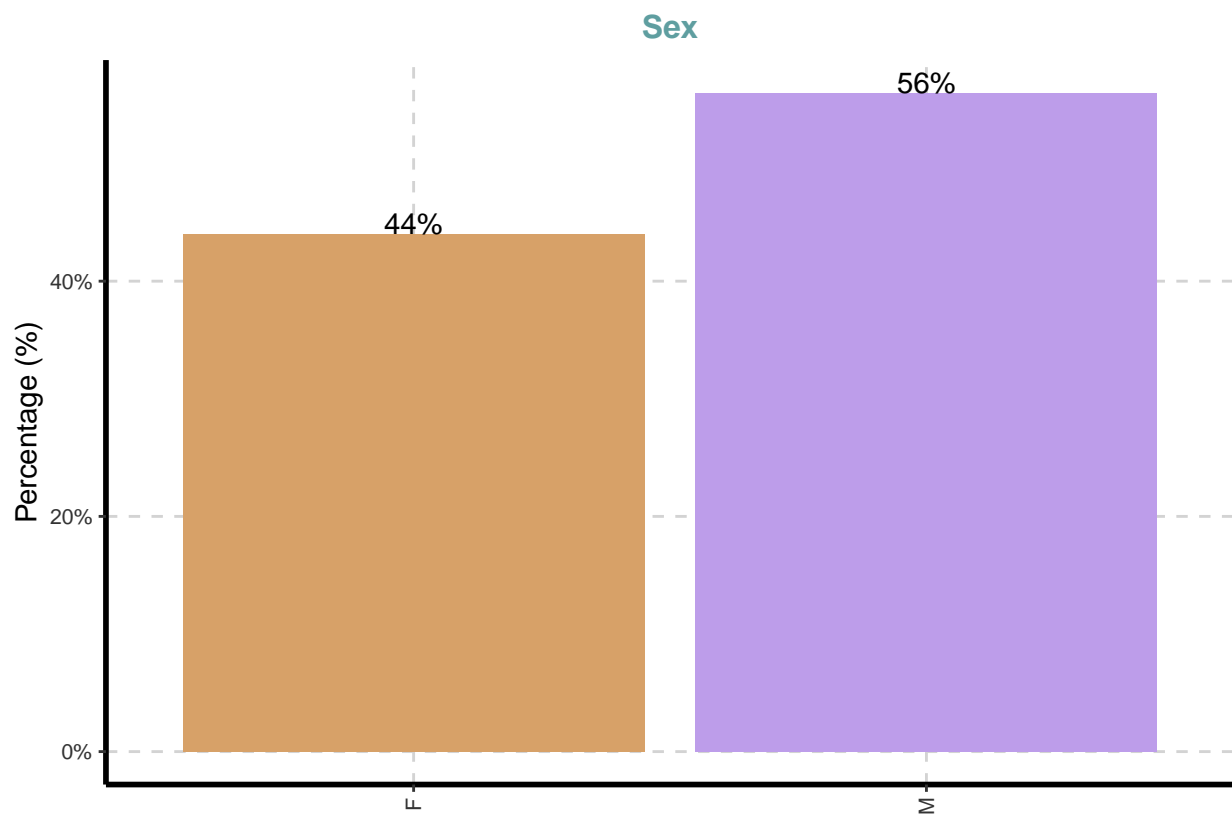


```
ExpCatViz(data)
```

```
## [[1]]
```

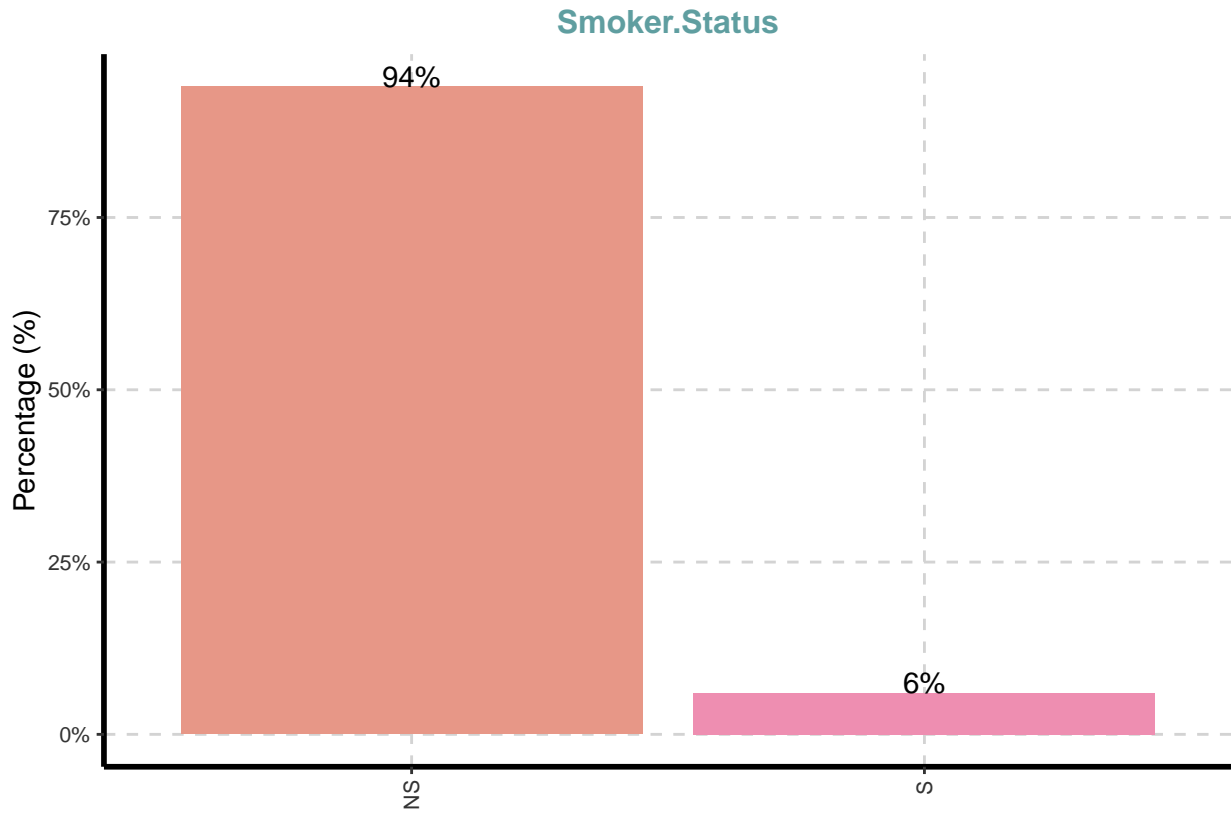


##  
## [[2]]

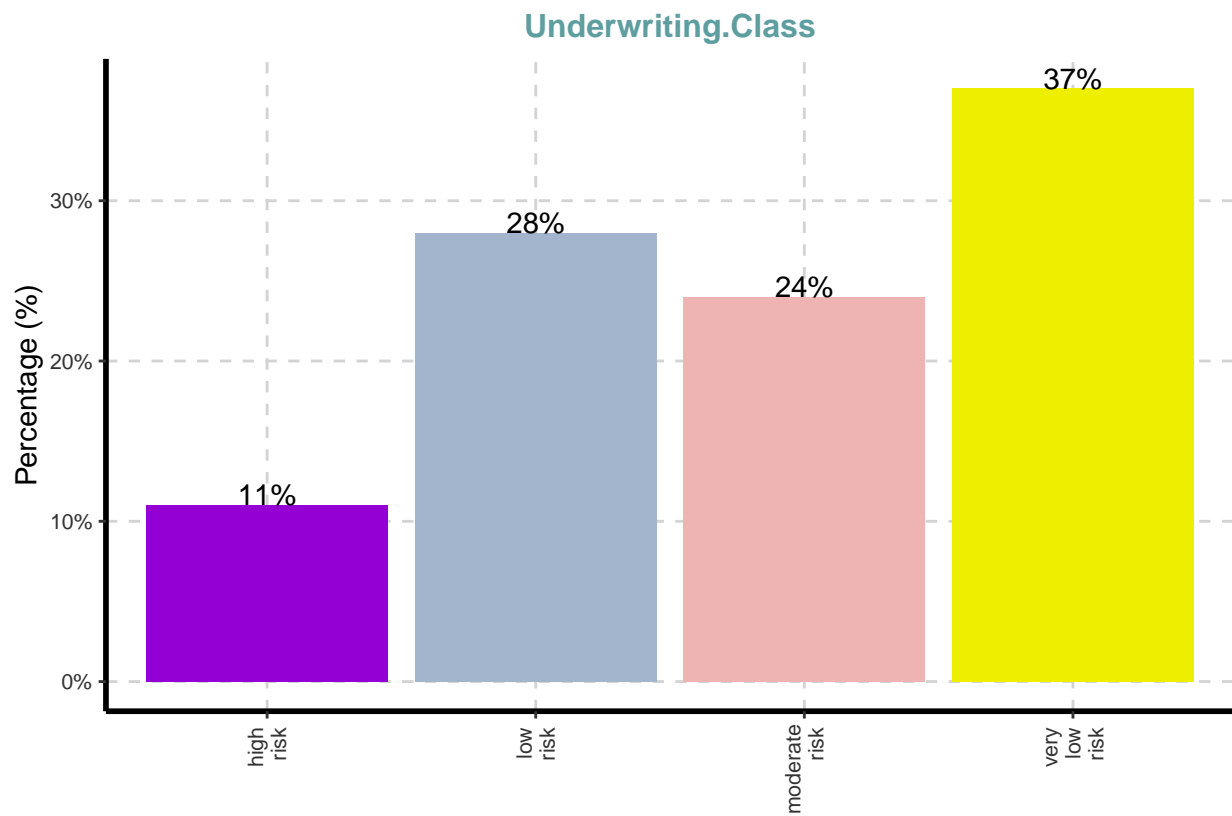




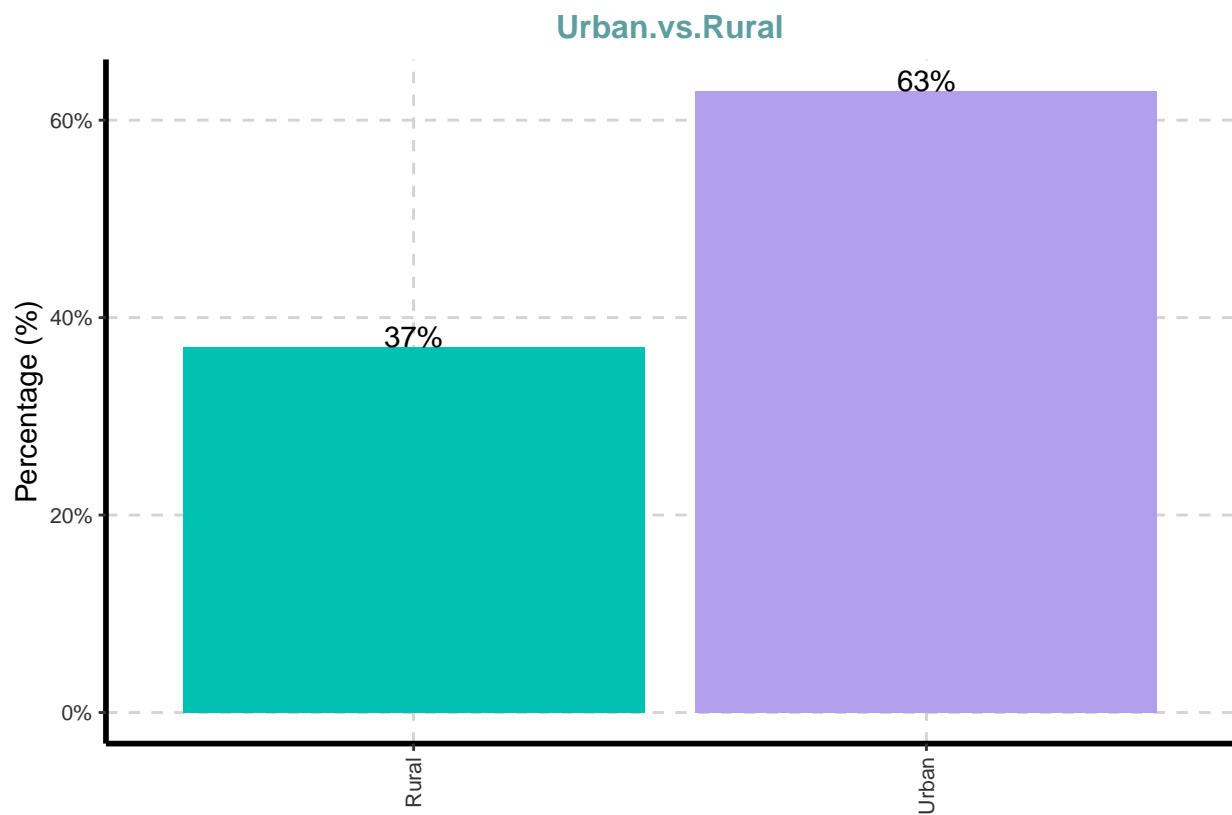
```
##  
## [[3]]
```



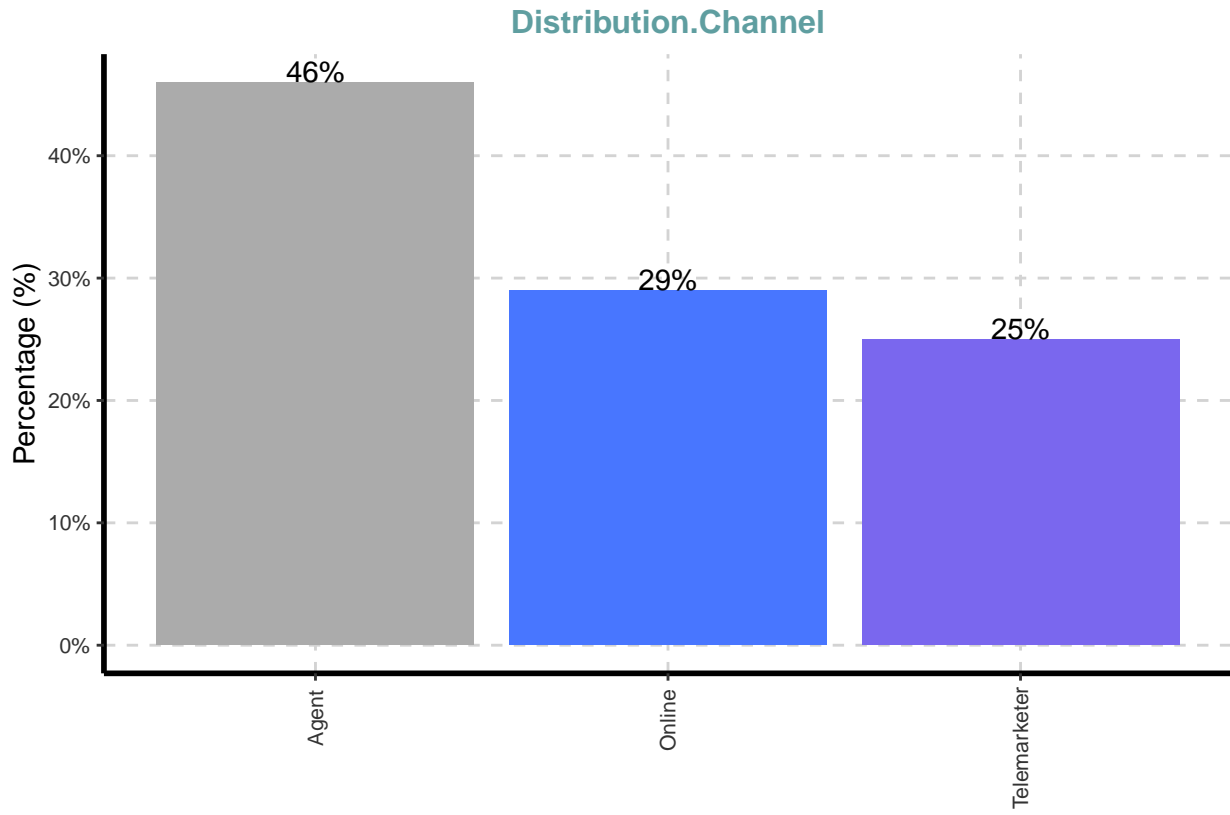
```
##  
## [[4]]
```



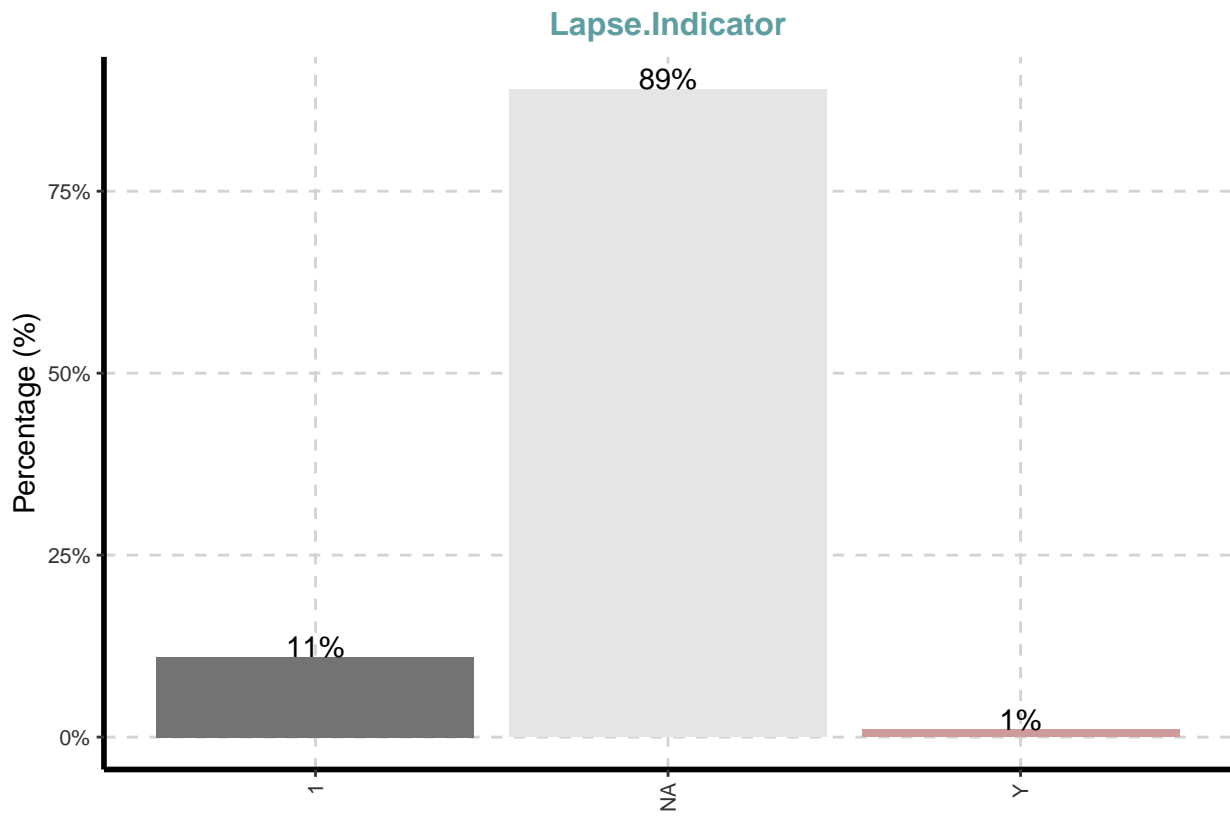
##  
## [[5]]



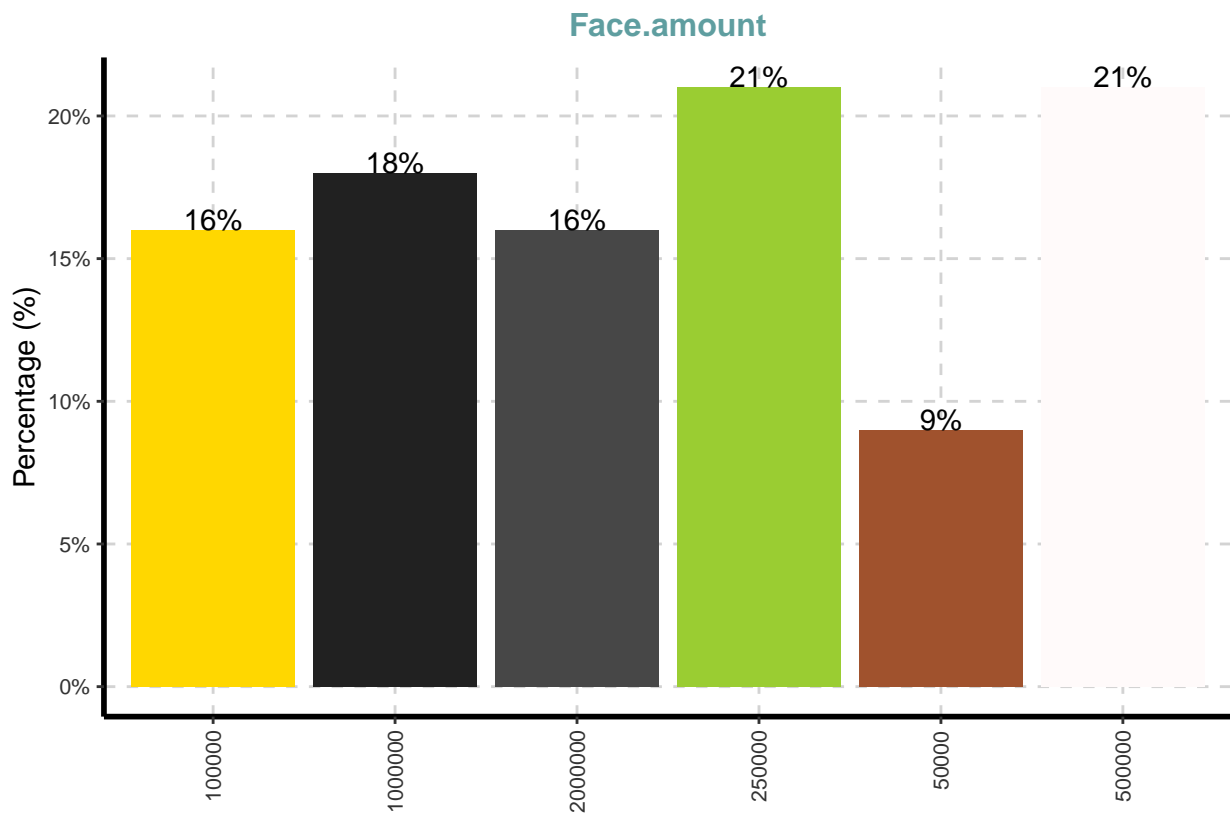
```
##  
## [[6]]
```



```
##  
## [[7]]
```



##  
## [[8]]



##  
## [[9]]

