

STAT 385

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Due: Friday, February 7, 11:59 PM

French Roulette



- A French roulette has:
 - **37 colored and numbered pockets** on the wheel.
 - 0 is green.
 - In number ranges from 1 to 10 and 19 to 28:
 - Odd numbers are red.
 - Even numbers are black.
 - In ranges from 11 to 18 and 29 to 36:
 - Odd numbers are black.

- Even numbers are red.

Importing the data set

```
wheel <- read.csv(file = "https://nkha149.github.io/stat385-sp2020/files/data/roulette.csv ")  
wheel
```

##	number	color
## 1	0	green
## 2	1	red
## 3	2	black
## 4	3	red
## 5	4	black
## 6	5	red
## 7	6	black
## 8	7	red
## 9	8	black
## 10	9	red
## 11	10	black
## 12	11	black
## 13	12	red
## 14	13	black
## 15	14	red
## 16	15	black
## 17	16	red
## 18	17	black
## 19	18	red
## 20	19	red
## 21	20	black
## 22	21	red
## 23	22	black
## 24	23	red
## 25	24	black
## 26	25	red
## 27	26	black
## 28	27	red
## 29	28	black
## 30	29	black
## 31	30	red
## 32	31	black
## 33	32	red
## 34	33	black
## 35	34	red
## 36	35	black
## 37	36	red

The Function

```
roulette <- function(bet=14){  
  roll <- sample(x = 0:36, size = 1)  
  roll  
  roll==bet  
}
```

```
set.seed(385)  
roulette(bet = 10)
```

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

```
set.seed(385)  
roulette()
```

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

```
set.seed(385)  
roulette(bet = 5)
```

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

```
set.seed(420)  
roulette(bet = 4)
```

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

```
set.seed(400)  
roulette(bet = 36)
```

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