STAT 385

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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/f
iles/data/roulette.csv ")
wheel</pre>
```

#	##		number	color
#	##	1	0	green
#	##	2		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		black
#	##	33	32	red
#	##	34		black
		35		red
			35	
		37		red

The Function

```
roulette <- function(bet=14){</pre>
  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
```