

# bet charles

Probability The probability of winning with each bet

Here are a bunch of charts and tables for different probabilities in bo

th European and American roulette.

There's also some handy (but not necessarily easy) information at t

he bottom about working out roulette probabilities, plus a little bit

on the gambler's fallacy.

1. European roulette

Probability of each bet type winning on a European roulette wheel.

Bet Type Fraction Ratio Percentage Even (e.g. Red/Black) 1/2

.06 1.06 to 1 48.6% Column 1/3.08 2.08 to 1 32.4% Dozen 1/3.08 2.08 t

o 1 32.4% Six Line 1/6.17 5.17 to 1 16.2% Corner 1/9.25 8.25 to 1 10.8% Street 1

/12.33 11.33 to 1 8.1% Split 1/19.50 18.50 to 1 5.4% Straight 1/37.00

.36.00 to 1 2.7%

A simple bar chart to highlight the percentage probabilities

of the different bet types in roulette coming in.

The same color in a row

How unlikely is it to see the same color 2 or more times in

a row? What's the probability of the results of 5 spins of the ro

ulette wheel being red? The following chart highlights the probabilities of the

same color appearing over a certain number of spins of the roulette w

heel.

A graph to show the probability of seeing the same color of red/black &

(or any evens bet result for that matter) over multiple spins.

Number of Spins Ratio Percentage 1 1.06 to 1 48.6% 2 3.23 to

1 23.7% 3 7.69 to 1 11.5% 4 16.9 to 1 5.60% 5 35.7 to 1 2.73% 6 74.4

to 1 1.33% 7 154 to 1 0.65% 8 318 to 1 0.31% 9 654 to 1 0.15% 10 1,3

46 to 1 0.074% 15 49,423 to 1 0.0020% 20 1,813,778 to 1 0.000055%

Example: The probability of the same color showing up 4 time

s in a row is 5.60% .

As the graph shows, the probability of seeing the same color

on consecutive spins of the roulette wheel more than halves (well, the ratio pr) Tj T\* BT /F