Wanna be bilionnaire? A strategy to beat the roulette

] Introduction

"The households always win"

Is there a strategy to go throught the trap of casinos? A strategy that guarantees you to win money

II] Methods

We have made two simulations of the double down-strategy, each with different budget:

- 1) Unlimited budget
- 2) 256\$ budget

Simulation stops after winning 80\$ or losing the budget



The gain after

\$ -150

-200



Alexis GALAN Rémi HAESSIG

III] Results -The double-down strategy: •You bet 1\$ on black, if you win start again Keep doing this until you finally win, then start again with a bet of 1\$ $-2^{n+1} - \sum_{i=0}^{n} (2^i) = 1$

All of your bets n steps after n steps



						Method	% 0 W11
24	27	30	33	36	2-1		
23	26	29	32	35	2-1	Unlimited budget	100
22	25	28	31	34	2-1	Budget of 256 \$	50.
3rd 12							
ack	Odd		19-36			On 1000 rur	ns: • The

•If you lose you bet the double of what you have bet last round. So you'll finally win 1\$ at the end of each runs

h a budget of 256\$ the loses have a huge impact



A 100% winning strategy is possible, theoricaly but casinos fix a maximum bet limit that counters this.

wins are Moreover, your small whereas a single loss could ruin you

VI An other strategy

The 3/2 strategy is a more viable one. You bet on several outcomes, you have percentage of huge a winning but the gain is small (a perfect method doesn't otherwise casinos exist, would no longer exist!)

Sources

Darshan Patel. 29 april 2020. Martingale Gambling strategy towardsdatascience.com