

Blackjack: How to win

Mike	Product	DRAFT	4/18/16

Purpose: to teach blackjack strategies: basic and Hi-Lo counting system

Description: The website will put a player on a regular table with up to 4 other AI players at the table. Will include various tools including an alert when players deviate from basic blackjack strategies and a counting system based on the Hi-Lo strategy

Features:

Blackjack: The game:

- Game starts with 2-8 decks, with functions to shuffle, and reshuffle the whole deck when deck is low
- Playing field for 5 players
- Player actions include:
 - Hit
 - Stand
 - Double Down
 - Split
 - Surrender
 - Insurance
- Evaluate winnings and play sequence follows convention
- Keep track of cash on hand
- Other rules:
 - Player can double down after a split
 - Can double on any two cards
 - Can resplit to up to 4 hands
 - Can split aces
 - Can hit split aces
 - Can only surrender at the beginning
 - Dealer hits on soft 17

Settings:

- Lets user configure the game settings before the game start:
- Settings include:
 - Number of decks used
 - Blackjack payout (6:5 or 3:2)
 - Display / not display card count
 - Reveal / not reveal whether deviated from basic strategy
 - Starting bet
 - Enable Hi-Lo counting system?
 - Enable alert message when player make mistakes?

AI players:

- AI play follows basic strategy:

		Dealer's Up Card										
		2	3	4	5	6	7	8	9	10	A	
← Your Hand →	17+	S	S	S	S	S	S	S	S	S	S	
	16	S	S	S	S	S	H	H	H	H	H	
	15	S	S	S	S	S	H	H	H	H	H	
	14	S	S	S	S	S	H	H	H	H	H	
	13	S	S	S	S	S	H	H	H	H	H	
	12	H	H	S	S	S	H	H	H	H	H	
	11	D	D	D	D	D	D	D	D	D	D	
	10	D	D	D	D	D	D	D	D	D	H	
	9	D	D	D	D	D	H	H	H	H	H	
	5-8	H	H	H	H	H	H	H	H	H	H	
	A 8-10	S	S	S	S	S	S	S	S	S	S	
	A, 7	S	D	D	D	D	S	S	H	H	H	
	A, 6	H	D	D	D	D	H	H	H	H	H	
	A, 5	H	H	D	D	D	D	H	H	H	H	
	A, 4	H	H	D	D	D	H	H	H	H	H	
	A, 3	H	H	H	D	D	H	H	H	H	H	
	A, 2	H	H	H	D	D	H	H	H	H	H	
	A,A 8,8	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	
	10, 10	S	S	S	S	S	S	S	S	S	S	
	9, 9	SP	SP	SP	SP	SP	S	SP	SP	S	S	
	7, 7	SP	SP	SP	SP	SP	SP	SP	H	H	H	
	6, 6	SP	SP	SP	SP	SP	SP	H	H	H	H	
	5, 5	D	D	D	D	D	D	D	D	H	H	
	4, 4	H	H	H	SP	SP	H	H	H	H	H	
	3, 3	SP	SP	SP	SP	SP	SP	H	H	H	H	
	2, 2	SP	SP	SP	SP	SP	SP	H	H	H	H	
		2	3	4	5	6	7	8	9	10	A	

BlackjackClassroom.com

HIT
STAND
DOUBLE DOWN
SPLIT

If doubling down after splitting is not allowed, then just hit the following:
2,2 and 3,3 vs. 2 and 3 4,4 vs. 5 and 6 6,6 vs. 2

If the multi-deck game you're playing has the dealer "hitting on Soft 17", then you would double A,8 vs 6, double A,7 vs 2 and double A,3 vs 4. Never take insurance. Surrender on Hard 16 vs Dealer 10.

Reveal if deviated from strategy:

- Based on the strategy table above, at the end of each round, reveal an alert message showing the move that player should have made
- User will be able to learn from mistakes that way and passively learn the strategy table

Hi-Lo counting system:

- Hi-Lo system is based on the theory that when the deck have more low value cards, it's less likely to hit busts and players can potentially have a slight edge over the dealer
- The count will be automatically calculated and will show value when mouseover