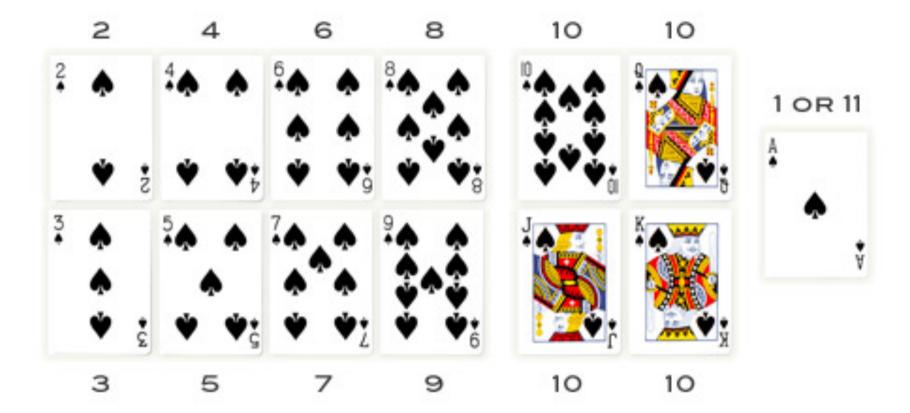


The cards and their values

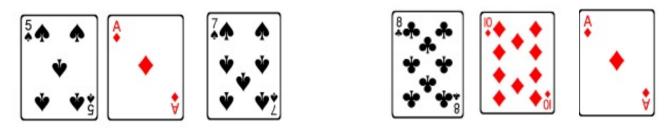


Card Values in Blackjack

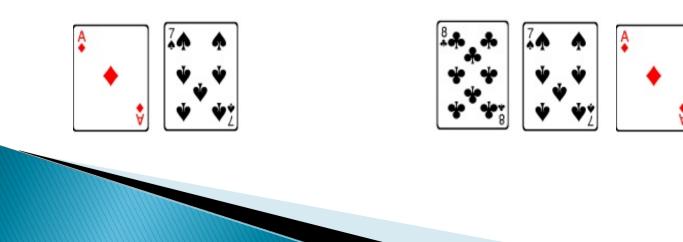
52 cards per deck

How to count the ace

For a player, the ace is always counted in the way it's best for him.



For the dealer, the ace counts 11 as long as the total value is <=21. After it counts 1.</p>



Special hands



Blackjack

Triple Seven

The main ideas

- Player against the dealer
 (no interaction between the players)
- Goal: closest to 21 without going over
- The dealer has to play with a fixed strategy; the players have some options.



The game starts

- 1. Every player gets two cards.
- 2. The dealer gets two cards as well, but one card stays covered.
- 3. Every player can play different options according to his strategy.
- 4. In the end, the dealer plays and then every player gets his payoff.

Winning constellations

- Triple seven (payoff 3:2)
- Blackjack without a blackjack of the dealer (payoff 1:1)
- Higher score than the dealer without exceeding 21 (payoff 1:1)
- The dealer exceeds 21 by drawing additional cards (payoff 1:1)

Losing constellations

- Dealer's blackjack without player's blackjack
- The player goes bust (over 21)
- The dealer is closer to 21 (without exceeding) than the player
- \rightarrow In these cases, the player's bet is lost.



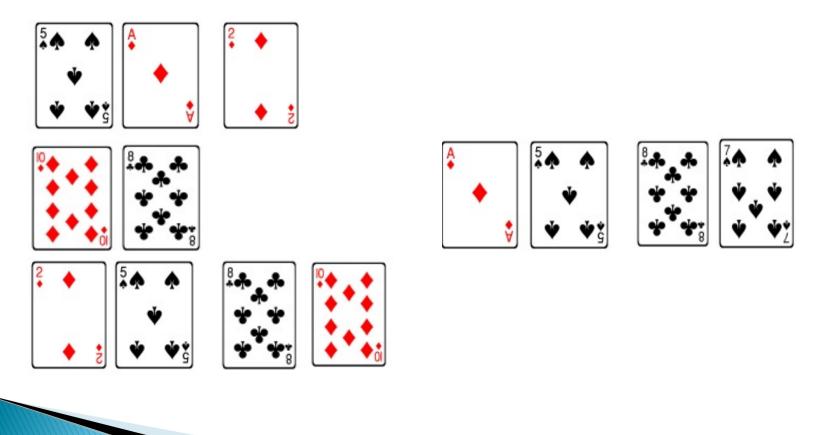
Draws

- Whenever the value of the dealer's hand equals the value of the player's hand, the player gets back his bet.
- e.g. if both have blackjack



The dealer's strategy

As long as the value of the dealer's cards is <17, he has to draw another card.</p>

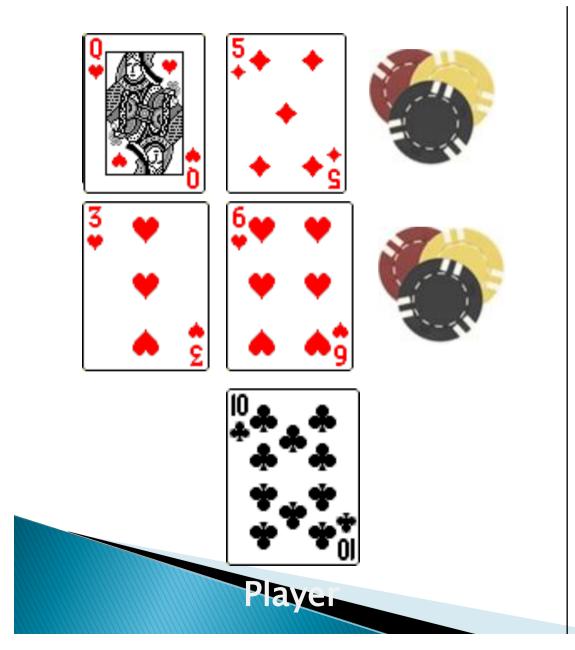


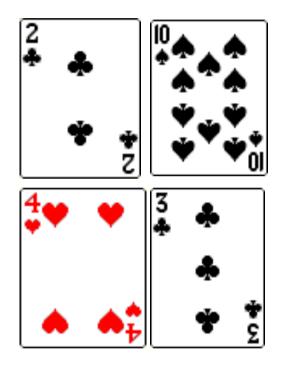
The player's options

- Hit: Draw an additional card.
- Split: Only possible if the first two cards were a pair.
- Double down: Double the bet. The player gets exactly one more card.
- Stand: No change.



A short animation





Dealer