

## UML Diagram

Card
<ul style="list-style-type: none"><li>- int _color</li><li>- int _numberOrSpecialty</li></ul>
<ul style="list-style-type: none"><li>+ Card(int color, int numberOrSpecialty)</li><li>+ String getColor()</li><li>+ String getNumberOrSpecialty()</li><li>+ String toString()</li></ul>

Deck
<ul style="list-style-type: none"><li>- ArrayList&lt;Card&gt; collection</li><li>- Stack&lt;Card&gt; shuffled</li><li>- Card top</li></ul>
<ul style="list-style-type: none"><li>+ Deck()</li><li>+ Deck(ArrayList asdf)</li><li>+ void swap(int card1, int card2)</li><li>+ void shuffle()</li><li>+ Card draw()</li><li>+ int getSize()</li></ul>

Table
<ul style="list-style-type: none"><li>- Stack&lt;Card&gt; placed</li><li>- Deck aDeck</li><li>- int direction</li><li>- Player current</li><li>- Player winner?</li></ul>
<ul style="list-style-type: none"><li>+ Table(Player, Player, Player, Player)</li><li>+ void addCard(Card used)</li><li>+ Card placeFirst()</li><li>+ Stack&lt;Card&gt; getPlaced()</li><li>+ Card refill()</li></ul>

Player
<ul style="list-style-type: none"><li>- Player nextPlayer</li><li>- Player prevPlayer</li><li>- boolean isOut</li></ul>

- String name - ArrayList<Card> hand
+ Player getNext() + Player getPrev() + void setNext(Player a) + void setPrev(Player a) + Player NextInLine(int direction) + boolean validateChoice() + void placeCard() + void uno() + void unoOut() + void setName() + void drawCard()

Human (extends Player)
+ playTurn()

Bot (extends Player)
+ void placeCard() (overridden)

Woo
+ static void main(String[] args)