PyDealer Documentation

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PyDealer is a simple to use Python package for "simulating" decks of standard playing cards (also known as a French deck). PyDealer let's you easily create Deck instances, each containing a full 52 card deck of playing cards. Each card is a separate Card instance, with a name, value, suit, and abbreviation. There is also the Stack class, which is useful for creating hands, or discard piles, etc. It is the backbone of the PyDealer package, and actually the Deck class is just a subclass of the Stack class.

PyDealer could possibly be used as part of a CLI (command line interface) card-based game, or even a graphical game as well, I suppose. It may also be of interest to beginner Python programmers, since it's a relatively simple package, which I created as a way to learn Python, packaging, testing, documentation (Sphinx), etc. I even ended up learning how to use Git a bit, which I must say was slightly frustrating at first. This package has taught me a lot, and maybe someone else can benefit from it as well. Or maybe not. Either way, here it is.

Quick Usage Example

Here is a quick example, using IDLE, demonstrating how to construct a new Deck instance, representing a full French deck of cards, as well as how to shuffle the deck, and deal some cards (7 of them) from it, to a hand. Then we'll sort the hand, and print a listing of it's contents, in a human readable way, with a simple print statement.

```
>>> import pydealer
>>> deck = pydealer.Deck()
>>> deck.shuffle()
>>> hand = deck.deal(7)
>>> hand.sort()
>>> print hand
2 of Diamonds
5 of Hearts
9 of Hearts
9 of Spades
Jack of Spades
King of Clubs
Ace of Clubs
```

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2.1 Getting Started

This is an overview of all of the methods/functions that users will likely use most.

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2.1.1 Install/Uninstall with pip

I recommend downloading and installing pip, if you haven't already, and using that to install PyDealer, from the Python Package Index.

Enter one of the following commands into your *nix Bash console, Windows Command Prompt, etc. (after installing pip).

Install

\$ pip install pydealer

Update

```
$ pip install pydealer -U
```

Uninstall

```
$ pip uninstall pydealer
```

2.1.2 Import PyDealer

I'm sure most of you know how this is done already, but for those that don't, here is how you import pydealer.

```
# Import PyDealer
import pydealer
# I, personally, prefer to import PyDealer with a shorter name:
# import pydealer as pd
# I also like to alias the utility functions:
# import pydealer.utils as utils
```

Import Specific Classes/Functions

You can, of course also just import the specific classes/functions that you need.

```
# Import the base classes:
from pydealer import (
     Card,
     Deck,
     Stack
)
# Import specific utility functions:
from pydealer.utils import (
     build_cards,
     compare_stacks,
     check_sorted
     # And/or any other functions you wish to import
)
```

2.1.3 Stack/Deck Manipulation

Construct a Deck

Constructing a new, full deck of cards is about as simple as it gets, but let's just get it out of the way, so I don't have to explain it in every subsequent example.

import pydealer

```
# Construct a Deck instance, with 52 cards.
deck = pydealer.Deck()
```

Set Rank Dict to Reference for Sorting, Etc.

You may supply a new Deck/Stack instance with a rank dict, which it will refer to when sorting, etc. If none is provided, it defaults to pydealer.const.DEFAULT_RANKS.

```
import pydealer
from pydealer.const import POKER_RANKS
```

Set the default rank dict to reference. deck = pydealer.Deck(ranks=POKER_RANKS)

You can, of course always change the rank dict after instantiation as well.

deck.ranks = POKER_RANKS

Construct a Deck that Rebuilds when Empty

You can construct a deck that will rebuild itself when you have dealt all of the cards from it, and try to deal any more, with the rebuild argument.

import pydealer

```
# Construct a Deck instance, with 52 cards.
deck = pydealer.Deck(rebuild=True)
# If you want it shuffle when rebuilding:
deck = pydealer.Deck(rebuild=True, re_shuffle=True)
```

Construct an Empty Stack

Constructing a new, empty stack, for use as a hand, discard pile, etc., is as simple as constructing a deck.

```
# Construct a Stack instance, for use as a hand in this case.
hand = pydealer.Stack()
```

Shuffle a Stack/Deck

Shuffling is also simple, and done probably exactly how you might expect. Pretty much everything with PyDealer is simple, because it's such a simple package.

```
import pydealer
```

```
deck = pydealer.Deck()
# Shuffle the deck, in place.
deck.shuffle()
```

Sort a Stack/Deck

deck.sort()

Sorting is also done like you might expect.

```
import pydealer
deck = pydealer.Deck()
# Sort the deck, in place.
```

Deal Cards from a Stack/Deck

In this example we will create a Deck instance, and then deal 7 cards from it.

```
import pydealer
```

```
deck = pydealer.Deck()
```

```
# Deal some cards from the deck.
dealt_cards = deck.deal(7)
```

Add Cards to a Stack/Deck

Add to the Top

In this example we will create a Deck instance, representing a deck of cards, and a Stack instance, which will represent a hand. We will then deal 7 cards from the deck, and add them to the exisiting hand.

```
deck = pydealer.Deck()
hand = pydealer.Stack()
dealt_cards = deck.deal(7)
# Add the cards to the top of the hand (Stack).
hand.add(dealt_cards)
```

If you don't care where the dealt cards are placed in the Stack, or are just adding them to the top, you can just use the += operand to add cards to the top of a Stack.

```
hand += deck.deal(7)
```

Add to the Bottom

You can also add cards to the bottom of a Stack/Deck as well, if that is preferred.

from pydealer.const import BOTTOM

```
# Note that the constant `'BOTTOM`' is just the string `'"bottom"``.
# The constant `'TOP`' is the string ``"top"``. This is the default value.
hand.add(dealt_cards, end=BOTTOM)
```

Insert Card Into Position of a Stack/Deck

You can also insert a card into any given position (indice) of the Stack/Deck.

```
# ''deck'' is a Deck instance, and ''card'' is a Card instance. ''20'' is
# the position (or indice) the card is inserted to.
deck.insert(card, 20)
```

Insert List of Cards Into Position of a Stack/Deck

You can also insert a card into any given position (indice) of the Stack/Deck.

```
# ''stack'' is a Stack instance, and ''cards'' is a list of Card instances,
# or a Stack/Deck instance. ''20'' is the position (or indice) the card is
# inserted into.
stack.insert_list(cards, 20)
```

Retrieve a Card at a Given Stack/Deck Indice

In this example we will retrieve (but not remove) the card at a given Deck indice (or position, if you prefer). You can access the cards in a PyDealer Stack or Deck instance just like you would access the items in a list or other sequence in Python.

```
deck = pydealer.Deck()
# Access the indice of the ''Deck'' instance.
card = deck[25]
```

Find Specific Card Locations in a Stack/Deck

Single Card

In this example we will search for a given card in the deck. Users can search using full card names, abbreviations, suits, or values. Just remember that Deck.find (and Stack.find) return the *indices* of the cards, not the cards themselves, and they always return a list, even if there is only one item in it.

import pydealer

```
deck = pydealer.Deck()
```

```
# Find the indice(s) of the Ace of Spades.
indices = deck.find("Ace of Spades")
```

List of Cards

In this example we will search for a given list of cards in the deck. Users can search using full card names, abbreviations, suits, or values, or a mixture of any/all of those. Just remember that Deck.find_list (and Stack.find_list) return the *indices* of the cards, not the cards themselves, always return a list, even if there is only one item in it.

import pydealer

```
deck = pydealer.Deck()
# Construct a list of terms to search for.
terms = ["Ace of Spades", "QH", "2", "Clubs"]
# Find the indices of the cards matching the terms in the given list.
indices = deck.find_list(terms)
```

Get & Remove Specific Cards from a Stack/Deck

You can get & remove specific cards from a Stack or Deck instance with a given full card name, abbreviation, suit, value, or indice.

Note that the Stack and Deck "get methods" always return a list, even if there is only one item in it. And also remember that unlike Stack and Deck "find methods", which return indices, the Stack and Deck "get methods" return the card instances themselves.

Single Card

In this example we will retrieve and remove a given card from the deck. If there were more than one "Ace of Spades" in the deck, it would retrieve them all.

```
deck = pydealer.Deck()
# Get the card with the given name from the deck.
cards = deck.get("Ace of Spades")
```

List of Cards

In this example we will retrieve and remove a given list of terms from the deck. For demonstration purposes, I am going to construct a mixed list of terms, including a full card name, abbreviation, face, suit, and indice, just to show that you can do that, if you really want to.

import pydealer

```
deck = Deck()
# Construct a list of terms to search for.
terms = ["Queen of Hearts", "KD", "2", "Clubs", 25]
# Get the cards matching the terms and indices in the given list.
cards = deck.get_list(terms)
```

Empty a Stack/Deck

If, for some reason, you want to empty a Stack/Deck of it's cards, you can use the Stack.empty method. This will remove all of the cards from the Stack/Deck and will also return them in a list.

import pydealer

```
deck = pydealer.Deck()
deck.empty()
# Or if you would like to keep the emptied cards elsewhere:
cards = deck.empty()
```

2.1.4 Comparisons/Checks

Get the Size of a Stack/Deck

To get the number of cards in a Stack/Deck, simply access the size property. It's the same as doing len(deck), which you could also do.

import pydealer

deck = pydealer.Deck()
deck_size = deck.size

Compare Two Stacks/Decks

Using the compare_stacks() function, you can compare two given Stack or Deck instances, checking whether or not they contain all of the same cards, based on card faces and suits, *not* card instance. This function *does not* take into account the ordering of either Stack/Deck.

```
import pydealer
from pydealer.utils import compare_stacks
deck_x = pydealer.Deck()
deck_y = pydealer.Deck()
result = compare_stacks(deck_x, deck_y)
```

If you care about the ordering of the Stack/Deck instances as well, you can simply use the == (or !=) operand. This is the same as using the compare_stacks() function, except it also takes into account the order of each Stack/Deck.

```
import pydealer
from pydealer.utils import compare_stacks
```

deck_x = pydealer.Deck()
deck_y = pydealer.Deck()
result = deck_x == deck_y

You can also, obviously, check whether two Stack/Deck are the same object, using is.

```
import pydealer
from pydealer.utils import compare_stacks
```

deck_x = pydealer.Deck()
deck_y = pydealer.Deck()
result = deck_x is deck_y

Compare Two Cards

You can compare two cards just as you would compare a couple of integers, using the standard operands (==, !=, >, >=, <, <=). By default, it will compare based on DEFAULT_RANKS.

import pydealer

```
deck = pydealer.Deck()
card_x = deck.deal()
card_y = deck.deal()
result = card_x == card_y
result = card_x != card_y
result = card_x > card_y
result = card_x < card_y
result = card_x < card_y
result = card_x < card_y</pre>
```

If you would prefer to compare using a different rank dictionary, you can use the comparison methods built into the card, and supply the dictionary.

```
import pydealer
from pydealer.const import POKER_RANKS
deck = pydealer.Deck()
```

```
card_x = deck.deal()
card_y = deck.deal()

result = card_x.eq(card_y, POKER_RANKS)  # ==
result = card_x.ne(card_y, POKER_RANKS)  # !=
result = card_x.gt(card_y, POKER_RANKS)  # >=
result = card_x.ge(card_y, POKER_RANKS)  # >=
result = card_x.lt(card_y, POKER_RANKS)  # <<
result = card_x.le(card_y, POKER_RANKS)  # <=</pre>
```

Check if a Stack/Deck is Sorted

Using the check_sorted () function, you can check to see if the cards in a given Stack/Deck or list are sorted.

```
import pydealer
from pydealer.utils import check_sorted
deck = pydealer.Deck()
result = check_sorted(deck)
```

2.1.5 Defining New Rank Dictionaries

Defining your own rank dictionaries, for use with sorting functions/methods, etc., is straight forward.

Rank dictionaries are just nested dictionaries containing a "values" dict, which itself contains all of the card values, and/or a "suits" dict, which itself contains all of the card suits, and their associated values.

```
# Define a new rank dict, ``new_ranks``, with ranks for card faces only.
new_ranks = {
    "values": {
        "Ace": 13,
        "King": 12,
        "Queen": 11,
        "Jack": 10,
        "10": 9,
        "9": 8,
        "8": 7,
        "7": 6,
        "6": 5,
        "5": 4,
        "4": 3,
        "3": 2,
        "2": 1
    }
}
# Define a new rank dict, with ranks for card suits only.
new_ranks = {
    "suits": {
        "Spades": 4,
        "Hearts": 3,
```

```
"Clubs": 2,
        "Diamonds": 1
    }
}
# Define a new rank dict, with both faces & suits.
new_ranks = {
    "values": {
        "Ace": 13,
        "King": 12,
        "Queen": 11,
        "Jack": 10,
        "10": 9,
        "9": 8,
        "8": 7,
        "7": 6,
        "6": 5,
        "5": 4,
        "4": 3,
        "3": 2,
        "2": 1
    },
    "suits": {
        "Spades": 4,
        "Hearts": 3,
        "Clubs": 2,
        "Diamonds": 1
    }
}
```

2.2 API Documentation

This is the PyDealer API overview. It contains the documentation extracted from the docstrings of the various classes, methods, and functions in the PyDealer package. If you want to know what a certain function/method does, this is the place to look.

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• API I	Documentation	
-	card Module	
-	stack Module	
_	deck Module	
-	utils Module	
-	const Module	

2.2.1 card Module

Source This module contains the Card class. Each Card instance represents a single playing card, of a given value and suit.

class pydealer.card.Card(value, suit)

The Card class, each instance representing a single playing card.

Parameters

- value (*str*) The card value.
- **suit** (*str*) The card suit.

eq(other, ranks=None)

Compares the card against another card, other, and checks whether the card is equal to other, based on the given rank dict.

Parameters

- other (*Card*) The second Card to compare.
- ranks (*dict*) The ranks to refer to for comparisons.

Returns True or False.

ge (other, ranks=None)

Compares the card against another card, other, and checks whether the card is greater than or equal to other, based on the given rank dict.

Parameters

- other (Card) The second Card to compare.
- ranks (dict) The ranks to refer to for comparisons.

Returns True or False.

gt (other, ranks=None)

Compares the card against another card, other, and checks whether the card is greater than other, based on the given rank dict.

Parameters

- other (*Card*) The second Card to compare.
- ranks (*dict*) The ranks to refer to for comparisons.

Returns True or False.

le (*other*, *ranks=None*)

Compares the card against another card, other, and checks whether the card is less than or equal to other, based on the given rank dict.

Parameters

- other (Card) The second Card to compare.
- ranks (dict) The ranks to refer to for comparisons.

Returns True or False.

lt (other, ranks=None)

Compares the card against another card, other, and checks whether the card is less than other, based on the given rank dict.

Parameters

- other (*Card*) The second Card to compare.
- ranks (dict) The ranks to refer to for comparisons.

Returns True or False.

ne (*other*, *ranks=None*)

Compares the card against another card, other, and checks whether the card is not equal to other, based on the given rank dict.

Parameters

- other (*Card*) The second Card to compare.
- **ranks** (*dict*) The ranks to refer to for comparisons.

Returns True or False.

pydealer.card.card_abbrev(value, suit)

Constructs an abbreviation for the card, using the given value, and suit.

Parameters

- **value** (*str*) The value to use.
- **suit** (*str*) The suit to use.

Returns A newly constructed abbreviation, using the given value & suit

pydealer.card.card_name(value, suit)

Constructs a name for the card, using the given value, and suit.

Parameters

- value (*str*) The value to use.
- **suit** (*str*) The suit to use.

Returns A newly constructed name, using the given value & suit.

2.2.2 stack Module

Source This module contains the Stack class, which is the backbone of the PyDealer package. A Stack is essentially just a generic "card container", with all of the methods users may need to work with the cards they contain. A Stack can be used as a hand, or a discard pile, etc.

class pydealer.stack.Stack(**kwargs)

The Stack class, representing a collection of cards. This is the main 'card container' class, with methods for manipulating it's contents.

Parameters

- cards (*list*) A list of cards to be the initial contents of the Stack.
- **ranks** (*dict*) If sort=True, The rank dict to reference for sorting. Defaults to DEFAULT_RANKS.
- **sort** (*bool*) Whether or not to sort the stack upon instantiation.

add (cards, end='top')

Adds the given list of Card instances to the top of the stack.

Parameters

- **cards** The cards to add to the Stack. Can be a single Card instance, or a list of cards.
- end (*str*) The end of the Stack to add the cards to. Can be TOP ("top") or BOTTOM ("bottom").

cards

The cards property.

Returns The cards in the Stack/Deck.

deal (num=1, end='top')

Returns a list of cards, which are removed from the Stack.

Parameters

- **num** (*int*) The number of cards to deal.
- end (*str*) Which end to deal from. Can be 0 (top) or 1 (bottom).

Returns The given number of cards from the stack.

empty (return_cards=False)

Empties the stack, removing all cards from it, and returns them.

Parameters return_cards (bool) – Whether or not to return the cards.

Returns If return_cards=True, a list containing the cards removed from the Stack.

find (term, limit=0, sort=False, ranks=None)

Searches the stack for cards with a value, suit, name, or abbreviation matching the given argument, 'term'.

Parameters

- term (str) The search term. Can be a card full name, value, suit, or abbreviation.
- limit (int) The number of items to retrieve for each term. 0 equals no limit.
- sort (bool) Whether or not to sort the results.
- ranks (*dict*) The rank dict to reference for sorting. If None, it will default to DEFAULT_RANKS.

Returns A list of stack indices for the cards matching the given terms, if found.

find_list (terms, limit=0, sort=False, ranks=None)

Searches the stack for cards with a value, suit, name, or abbreviation matching the given argument, 'terms'.

Parameters

- terms (list) The search terms. Can be card full names, suits, values, or abbreviations.
- **limit** (*int*) The number of items to retrieve for each term.
- sort (bool) Whether or not to sort the results, by poker ranks.
- ranks (*dict*) The rank dict to reference for sorting. If None, it will default to DEFAULT_RANKS.

Returns A list of stack indices for the cards matching the given terms, if found.

get (term, limit=0, sort=False, ranks=None)

Get the specified card from the stack.

Parameters

- term The search term. Can be a card full name, value, suit, abbreviation, or stack indice.
- limit (int) The number of items to retrieve for each term.
- sort (bool) Whether or not to sort the results, by poker ranks.
- ranks (*dict*) The rank dict to reference for sorting. If None, it will default to DEFAULT_RANKS.

Returns A list of the specified cards, if found.

get_list (terms, limit=0, sort=False, ranks=None)

Get the specified cards from the stack.

Parameters

- term The search term. Can be a card full name, value, suit, abbreviation, or stack indice.
- **limit** (*int*) The number of items to retrieve for each term.
- sort (*bool*) Whether or not to sort the results, by poker ranks.
- **ranks** (*dict*) The rank dict to reference for sorting. If None, it will default to DEFAULT_RANKS.

Returns A list of the specified cards, if found.

insert (card, indice=-1)

Insert a given card into the stack at a given indice.

Parameters

- card (Card) The card to insert into the stack.
- **indice** (*int*) Where to insert the given card.
- insert_list (cards, indice=-1)

Insert a list of given cards into the stack at a given indice.

Parameters

- cards (*list*) The list of cards to insert into the stack.
- indice (*int*) Where to insert the given cards.
- is_sorted(ranks=None)

Checks whether the stack is sorted.

Parameters ranks (*dict*) – The rank dict to reference for checking. If None, it will default to DEFAULT_RANKS.

Returns Whether or not the cards are sorted.

open_cards (*filename=None*) Open cards from a txt file.

Parameters filename (*str*) – The filename of the deck file to open. If no filename given, defaults to "cards-YYYYMMDD.txt", where "YYYYMMDD" is the year, month, and day. For example, "cards-20140711.txt".

random_card(remove=False)

Returns a random card from the Stack. If remove=True, it will also remove the card from the deck.

Parameters remove (bool) – Whether or not to remove the card from the deck.

Returns A random Card object, from the Stack.

reverse()

Reverse the order of the Stack in place.

save_cards (filename=None)

Save the current stack contents, in plain text, to a txt file.

Parameters filename (*str*) – The filename to use for the file. If no filename given, defaults to "cards-YYYYMMDD.txt", where "YYYYMMDD" is the year, month, and day. For example, "cards-20140711.txt".

set_cards (cards)

Change the Deck's current contents to the given cards.

Parameters cards (*list*) – The Cards to assign to the stack.

shuffle(times=1)

Shuffles the Stack.

Note: Shuffling large numbers of cards (100,000+) may take a while.

Parameters times (int) – The number of times to shuffle.

size

Counts the number of cards currently in the stack.

Returns The number of cards in the stack.

sort (ranks=None)

Sorts the stack, either by poker ranks, or big two ranks.

Parameters ranks (*dict*) – The rank dict to reference for sorting. If None, it will default to DEFAULT_RANKS.

Returns The sorted cards.

split (indice=None)

Splits the Stack, either in half, or at the given indice, into two separate Stacks.

Parameters indice (*int*) – Optional. The indice to split the Stack at. Defaults to the middle of the Stack.

Returns The two parts of the Stack, as separate Stack instances.

pydealer.stack.convert_to_stack(deck)

Convert a Deck to a Stack.

Parameters deck (Deck) - The Deck to convert.

Returns A new Stack instance, containing the cards from the given Deck instance.

2.2.3 deck Module

Source This module contains the Deck class. Each Deck instance contains a full, 52 card French deck of playing cards upon instantiation. The Deck class is a subclass of the Stack class, with a few extra/differing methods.

```
class pydealer.deck.Deck (**kwargs)
```

Bases: pydealer.stack.Stack

The Deck class, representing the deck that the cards will be in. It is a sublcass of Stack, sharing all of the same methods, in addition to a couple of others you would expect a deck class to have.

Warning: At the moment, adding Jokers may cause some (most) functions/methods to throw errors.

Parameters

- cards A list of cards to be the initial contents of the Deck. If provided, the deck will not automatically build a new deck. Can be a Stack, Deck, or list instance.
- jokers (bool) Whether or not to include jokers in the deck.
- **num_jokers** (*int*) How many jokers to add to the deck.

- **build** (*bool*) Whether or not to build the deck on instantiation.
- rebuild (bool) Whether or not to rebuild the deck when it runs out of cards due to dealing.
- **re_shuffle** (*bool*) Whether or not to shuffle the deck after rebuilding.
- **ranks** (*dict*) The rank dict that will be referenced by the sorting methods etc. Defaults to DEFAULT_RANKS

build(jokers=False, num_jokers=0)

Builds a standard 52 card French deck of Card instances.

Parameters

- jokers (*bool*) Whether or not to include jokers in the deck.
- **num_jokers** (*int*) The number of jokers to include.

deal (*num*=1, *rebuild*=*False*, *shuffle*=*False*, *end*='top')

Returns a list of cards, which are removed from the deck.

Parameters

- **num** (*int*) The number of cards to deal.
- rebuild (bool) Whether or not to rebuild the deck when cards run out.
- **shuffle** (*bool*) Whether or not to shuffle on rebuild.
- end (*str*) The end of the Stack to add the cards to. Can be TOP ("top") or BOTTOM ("bottom").

Returns A given number of cards from the deck.

pydealer.deck.convert_to_deck(stack)

Convert a Stack to a Deck.

Parameters stack (*Stack*) – The Stack instance to convert.

2.2.4 utils Module

Source

2.2.5 const Module

Source These are the few constants that are used by the PyDealer package. The poker ranks, and big two ranks could be used for sorting, or by anyone making a game that relies on those ranks. PyDealer references DEFAULT_RANKS for sorting order, and ordering of newly instantiated decks by default.

pydealer.const.SUITS

["Diamonds", "Clubs", "Hearts", "Spades"]

pydealer.const.VALUES

["2", "3", "4", "5", "6", "7", "8", "9", "10", "Jack", "Queen", "King", "Ace"]

pydealer.const.BIG2_RANKS

```
{
    "values": {
        "2": 13,
        "Ace": 12,
        "King": 11,
        "Queen": 10,
        "Jack": 9,
        "10": 8,
        "9": 7,
        "8": 6,
        "7": 5,
        "6": 4,
        "5": 3,
        "4": 2,
        "3": 1,
    },
    "suits": {
        "Spades": 4,
        "Hearts": 3,
        "Clubs": 2,
        "Diamonds": 1
   }
}
```

pydealer.const.DEFAULT_RANKS

```
{
    "values": {
        "Ace": 13,
        "King": 12,
        "Queen": 11,
        "Jack": 10,
        "10": 9,
        "9": 8,
        "8": 7,
        "7": 6,
        "6": 5,
        "5": 4,
        "4": 3,
        "3": 2,
        "2": 1
    },
    "suits": {
        "Spades": 4,
        "Hearts": 3,
        "Clubs": 2,
        "Diamonds": 1
    }
}
pydealer.const.POKER_RANKS
{
    "Ace": 13,
```

```
"King": 12,
"Queen": 11,
"Jack": 10,
"10": 9,
"9": 8,
```

"8": 7, "7": 6, "6": 5, "5": 4, "4": 3, "3": 2, "2": 1

pydealer.const.TOP

"top"

pydealer.const.BOTTOM

"bottom"

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