

SYNTAX SEARCH MANUAL

Content

Basic Operators	2
Ranks	3
Suits	4
Percent of Hands.....	5
Rank Spans	5
Advanced operators	5
Strength Categories	6
Draws	8
Blockers and missed draws.....	9
EV filter	9
Strength examples.....	10
Advanced examples	10

Basic Operators

Syntax	Meaning
,	Or
:	And
!	Not/Exclude
()	Group
-	To
[]	Lists

There are three ways to combine multiple ranges, using basic operators.

- Use the **comma** character ',' (read as "or") to get the union of two ranges. For instance, "JJ, AK" means "Jacks OR Ace-King."
- Use the **two dots** character ':' (read as "and") to get the intersection of two ranges. For instance, in Omaha, "xx:15%" means "hands that are suited AND in the top 15% of hands."
- Use the **exclamation** mark '!' (read as "not") to get the difference between two ranges. For instance, in Omaha, "AA! AAA" means "hands with two aces NOT three aces."

Note that all three combinators (",", ":", and "!") can be used together. For instance, in Omaha, "AA:xyy, JJ! JJJ, KK" means "double-suited aces or a hand with exactly two jacks or a hand with at least two kings."

Ranks

Syntax	Meaning
A	Any hand with an Ace, standard Ranks are 'AKQJT98765432'
R	Rank
O	Other Rank
N	aNother Rank
*	Any Rank
\$B	Big card, Ace to Jack [A-J]
\$R	Broadway card, Ace to Ten [A-T]
\$M	Middle card, Ten to 7 [T-7]
\$Z	Small card, 6 to 2, [6-2]
\$L	Low card, 8 to Ace, [8-A]
\$W	Wheel card, 5 to Ace, [5-A]
\$N	No-low card, King to 9, [K-9]
\$F	Face Card, King to Jack, [K-J]
\$NP	No Pairs, same as !RR
\$OP	One pair, same as :RRON
\$TP	Two Pair, same as :RROO
\$NT	No Trips, same as !RRR
\$0g	Zero Gap rundown, like QJT9
\$1g	One Gap rundown, like QJT8
\$2g	Two Gap rundown, like QJT7

Suits

Syntax	Meaning
c	Club
d	Diamond
h	Heart
s	Spade
x	Hand contains one of any suit
xx	Hand contains at least 2 of the same suit
xxx	Hand contains at least 3 of the same suit
xxxx	Hand contains exactly 4 of the same suit, or Monotone
xyyy	Hand contains 2 of same suit and 2 of another suit, or Double Suited
xyzw	Hand contains all 4 cards of different suits, or Rainbow
\$SS	Hand is exactly 2 cards of the same suit, or Single suited
\$DS	Hand is exactly 2 cards of the same suit, or Double suited
\$TS	Hand is exactly 3 cards of the same suit, or Triple suited
\$MS	Hand is exactly 4 cards of the same suit, or Monotone suited
\$RS	Hand is exactly 4 cards of different suits, or Rainbow

Basic examples

- **'AsKhJd2c'**: is a specific hand where all cards are known.
- **'AA'**: is a hand with at least two aces in it.
- **'AxAyxy'**: double-suited Aces.
- **'ssh'**: a hand with two spades and two hearts.
- **'wxy'**: a hand with at least three suits.
- **'****'**: a completely random hand. This can be written more simply as "*".
- **'RRON'**: A hand with one pair and two non-paired side cards.
- **'RxRyOxOy'**: A double-suited hand with two pairs in it.
- **'RROO'**: A hand double paired.
- **'RR!RRO'**: One pair hand
- **'!RR'**: No pair in hand

Percent of Hands

Syntax	Meaning
15%	Top 15% of hands in 6max Omaha
5%-10%	Hands between the top 5 and top 10 percent of hand
1%-100%	All Hands

Rank Spans

Syntax	Meaning
KQJT-T987	Equivalent to KQJT,QJT9,JT98,T987
AAJT-AA87	Equivalent to AAJT,AAT9,AA98,AA87
[A-Q][J-T]32	Equivalent to AJ32,AT32,KJ32,KT32,QJ32,QT32
T8+	Equivalent to all hands with higher cards and same gap, like T8,J9,QT,KJ,AQ
664-	Equivalent to 664,553,442
TsJs-KsQs	Equivalent to TsJs,JsQs,QsKs
[Kx-Jx]x	Equivalent to Kxx, Qxx, Jxx

Advanced operators

These operators will only work postflop (when board cards are dealt) by matching all hands and their strength categories within FlopHero.

Syntax	Meaning
>	Equals and better than
<	Worse than
=	Equals to (and not better)

Strength Categories

These filters only apply to postflop made hands, they will match the same name categories for the first two levels on the Strength tab of FlopHero app.

Each category contains all the hands within their sub-categories, you can query for the main category or any of the subcategories inside. They are ordered based on their actual strength, so the higher on the list, the stronger they are.

You can combine them with the advanced operators to search for combos that are equal or better, or worse than a certain strength.

Syntax	Meaning
\$SF	Any Straight Flush
\$SFN	Straight Flush Nut
\$SFO	Straight Flush Non-nut
\$QS	Any Quads (Poker)
\$QSN	Quads Nut
\$QSO	Quads Non-Nut
\$FH	Any Full House
\$FHN	Full House Nut
\$FHO	Full House Non-Nut
\$FL	Any Flush
\$FLN	Flush Nut
\$FLN2	Flush second Nut
\$FLN3	Flush third Nut
\$FLO	Flush Other
\$STR	Any Straight
\$STRN	Straight Nut
\$STRN2	Straight second Nut
\$STRN3	Straight third Nut
\$STRO	Straight Other

Syntax	Meaning
\$SET	Any Trio using 2 holecards and 1 board card.
\$SETT	Top Set
\$SETM	Middle Set
\$SETB	Bottom Set
\$TRI	Any Trio using 1 holecard and 2 board cards.
\$TRIN	Trips Top Kicker
\$TRIN2	Trips second Kicker
\$TRIO	Trips Other
\$2P	Any Two Pair
\$2PT2	Top Two Pair
\$2PTP	Two Pair with Top pair
\$2POP	Two Pair with an Overpair
\$3P	Three Pair or more
\$2PPP	Two pair with Pocket Pair
\$2PO	Two Pair Other
\$BOP	Any Pair on Board
\$OP	Overpair
\$TPTK	Top Pair Top Kicker
\$TP	Top Pair Other
\$MP	Middle Pair
\$BP	Bottom Pair
\$UP	Under Pair with Pocket Pair
\$DRAW	Any draw without a made hand
\$AIR	Any non-made hand, without a draw

Draws

These sentences are filtering any of the possible draws available given a board, whether they also are also holding a made hand or not. Straight Draw main category is also including: Warp, OESD, and Gutshots. These categories are equivalent to the third level of the Strength tab in FlopHero, and they are ordered by strength or number of outs.

You can also combine them with advanced operators to search for combos that are equal or above a certain strength.

Syntax	Meaning
\$SFD	Any Combo draw (Straight + Flush)
\$2SFD	Double Flush Combo draw
\$SFDN	Combo draw to Nut Flush
\$SFDO	Combo draw to Non-Nut Flush
\$FD	Any Flush draw
\$2FD	Double Flush draw
\$FDN	Flush draw to Nut
\$FDO	Flush draw to Non-Nut
\$SD	Any Straight draw (Warps, OESD and Gutshots)
\$WR	Any Warp draw
\$WRN	Warp draw to Nut Straight
\$WRO	Warp draw to Non-Nut Straight
\$OESD	Any Open Ended Straight draw
\$OESDN	Open Ended draw to Nut Straight
\$OESDO	Open Ended draw to Non-Nut Straight
\$GS	Any Gutshot draw
\$GSN	Gutshot draw to Nut
\$GSO	Gutshot draw to Non-Nut
\$BDFD	Any Backdoor Flush draw
\$2BDFD	Double Backdoor Flush draw
\$BDFDN	Backdoor Flush draw to Nut
\$BDFDO	Backdoor Flush draw to Non-Nut

Blockers and missed draws

It's also possible to filter hands that are blocking made hands or draws in the opponent's range.

For example, if we are holding the Ace of spades in a flop with 2 spades, we currently don't have any flush draw but we still have the Nut Blocker to a potential Flush draw. Conversely, if there are 3 spades on board, there is the possibility of an already made flush, but if we hold the Ace of spades, we have the Nut Blocker, making your opponent impossible to hold it.

Missed Draws are only available on the River, where it could be important to know what is the strategy for the draws that have not being completed with the current board.

Syntax	Meaning
\$BLF	Any Blocker to a possible made Flush
\$BLFN	Blocker to Nut Flush
\$BLFO	Blocker to Non-nut Flush
\$BLFD	Any Blocker to a Flush Draw
\$BLFDN	Blocker to Nut Flush Draw
\$BLFDO	Blocker to Non-nut Flush Draw
\$BLS	Any Blocker to a possible made Straight
\$BLS D	Any Blocker to a Straight Draw
\$MFD	Missed Flush Draw (on River)
\$MSD	Missed Straight Draw (on River)

EV filter

You can filter hands by their EV within a range using basic operators, in combination with any other filter.

- **'\$EV>0.1'**: Shows all hands with EV equal to or greater than 0.1.
- **'\$EV<2:\$FD'**: Shows any Flush Draw with EV less than 2.

Strength examples

- ‘>\$2P’: All hands that are 2 Pair or better.
- ‘<\$FL’: All hands that are worse than a made Flush.
- ‘=\$SET’: All hands that are exactly a Set (but not better)
- ‘\$GS!\$FD’: All hands that have a Gutshot but does not have a Flush Draw.
- ‘\$BLF:\$TP’: All Top Pairs with a blocker to the Flush.
- ‘\$STR,\$FD’: Any hand with a Straight draw or a Flush Draw.
- ‘<\$MP:(\$BDFD,\$GS)’: Mid Pairs or worse that have Backdoor Flush Draw or Gutshot.

Advanced examples

- ‘AA’: A hand with at least two aces.
- ‘Axx’: Ace with at least another card of the same suit, or at least single-suited.
- ‘A\$ss’: Ace Single-suited.
- ‘AA,KK’: A hand with at least two aces or two kings.
- ‘TT-77’: A hand with at least two tens, nines, eights, or sevens in it.
- ‘Q+’: A hand with at least one queen, king, or ace.
- ‘A-Q’: A hand with an ace, a king, or a queen.
- ‘9876-’: A medium to small rundown.
- ‘hh’: A hand with two hearts in it.
- ‘AxAyxy’: Double-suited aces.
- ‘AA:\$ds’: Another way to write double-suited aces.
- ‘AxAyxz’: Single-suited aces.
- ‘AA:\$ss’: Another way to write single-suited aces.
- ‘KJ*ss’: Any king, any jack, and two other cards that are spades.
- ‘JRON’: A hand with a jack and three other ranks.
- ‘hhxx’: A hand with two hearts and two of some other suit.
- ‘[A-J][2-5]33’: A hand with an A, K, Q, or J and a 2, 3, 4, or 5 and two threes.
- ‘K[2s,Jc,T]’: A hand with a King and a 2 of spades, jack of clubs, or ten.
- ‘J[T-][T-][T-]’: A jack-high hand.
- ‘*\$np’: A hand with no paired cards.
- ‘*\$nt’: A hand with no trips.
- ‘AA!AAA’: A hand with exactly two aces.
- ‘AA\$nt0’: Another way to write a hand with exactly two aces.
- ‘AARR’: A hand with two aces and another pair (but not four aces).
- ‘A!K’: A hand with an ace but no king.
- ‘25%:wxyz’: A hand in the top 25% of hands that is monotone.
- ‘A:15%!AA’: A hand with an ace in the top 15% of hands but not a pair of aces.
- ‘40%!RR’: A hand in the top 40% of hands with no paired cards.
- ‘([T+][T+][T+], ss):15%’: At least three big cards or a hand with two spades in the top 15% of hands.
- ‘(Ax[2x-5x], 2x3x-2x5x, 3x4x-3x5x, 4x5x):30%-50%’: A hand with at least two suited wheel cards in the top 30 to 50 percent of hands.