

Texas Hold'em on one page: what beats what, the odds, and what a call costs.

Hand rankings, best to worst

HAND	EXAMPLE	BY RIVER
1 Royal flush	A♠ K♠ Q♠ J♠ 10♠	0.0032%
2 Straight flush	9♥ 8♥ 7♥ 6♥ 5♥	0.028%
3 Four of a kind	7♣ 7♦ 7♥ 7♠ K♥	0.17%
4 Full house	Q♠ Q♥ Q♦ 8♣ 8♠	2.6%
5 Flush	A♠ J♠ 7♠ 6♠ 2♠	3.0%
6 Straight	8♦ 7♠ 6♥ 5♣ 4♦	4.6%
7 Three of a kind	9♥ 9♦ 9♣ Q♠ 4♥	4.8%
8 Two pair	J♦ J♣ 4♥ 4♠ A♠	23.5%
9 One pair	10♠ 10♣ K♥ 7♦ 3♠	43.8%
10 High card	A♥ Q♣ 9♦ 6♠ 3♣	17.4%

Outs: your chance to hit

ON THE FLOP WITH	OUTS	TURN	BY RIVER
Flush + open-ended straight draw	15	32%	54%
Flush draw	9	19%	35%
Open-ended straight draw	8	17%	31%
Two overcards	6	13%	24%
Gutshot straight draw	4	9%	16%
Pocket pair to a set	2	4%	8%

Exact, from the 47 unseen cards. The quick rule, outs × 2 for one card and × 4 for two, runs high on big draws: 15 outs is 54%, not 60%.

Pot odds: equity you need to call

THEY BET	YOU NEED
A quarter of the pot	17%
A third	20%
Half	25%
Two thirds	29%
The pot	33%
Twice the pot	40%

Your call ÷ (the pot after you call). A \$50 bet into \$100: 50 ÷ 200 = 25%.

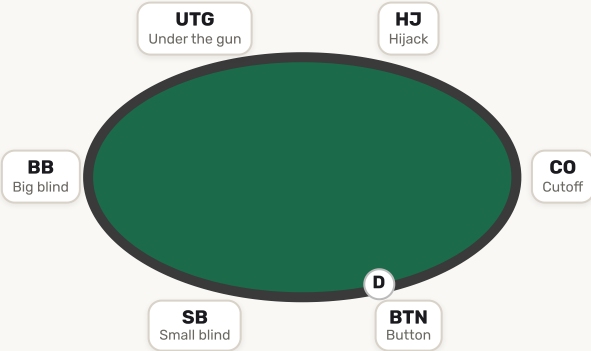
How often you are dealt it

Pocket aces (any one pair)	1 in 221
Ace-king	1 in 83
AA, KK, QQ or AK	1 in 39
Any pocket pair	1 in 17
Any suited hand	1 in 4

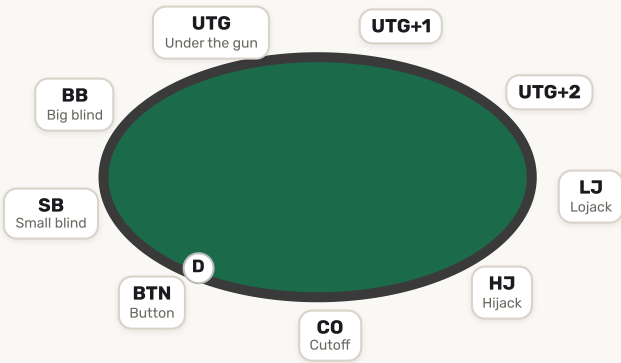
1,326 possible two-card hands; 169 different ones once suits are ignored.

Seats at the table

6-MAX



9-MAX (FULL RING)



Which hands are worth playing, and what to do with them from every seat.

Top 20 starting hands

1	A A	83%	2	K K	78%	3	Q Q	74%	4	J J	70%	5	10 10	67%
6	A K	64%	7	9 9	63%	8	A K	62%	9	A Q	62%	10	A J	60%
11	A Q	60%	12	8 8	60%	13	A 10	58%	14	A J	58%	15	7 7	57%
16	A 10	56%	17	K Q	56%	18	A 9	55%	19	6 6	55%	20	K J	54%

% = wins against the hands that call a raise.

Preflop charts by seat

Solver ranges for 6-max cash games at 100 big blinds. Each cell is a hand: suited above the diagonal, offsuit below, pairs on it.

Raise / 3-bet / 4-bet Call / limp All in Fold (white) Split cells mix two actions.

Under the gun open

Folded to you

AA	AK	AQ	AJ	AT	A9	A8	A7	A6	A5	A4	A3	A2
AK	KK	KQ	KJ	KT	K9	K8	K7	K6	K5	K4	K3	K2
AQ	KQ	QQ	QJ	QT	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2
AJ	KJ	QJ	JJ	JT	J9	J8	J7	J6	J5	J4	J3	J2
AT	KT	QT	JT	TT	T9	T8	T7	T6	T5	T4	T3	T2
A9	K9	Q9	J9	T9	99	98	97	96	95	94	93	92
A8	K8	Q8	J8	T8	98	88	87	86	85	84	83	82
A7	K7	Q7	J7	T7	97	87	77	76	75	74	73	72
A6	K6	Q6	J6	T6	96	86	76	66	65	64	63	62
A5	K5	Q5	J5	T5	95	85	75	65	55	54	53	52
A4	K4	Q4	J4	T4	94	84	74	64	54	44	43	42
A3	K3	Q3	J3	T3	93	83	73	63	53	43	33	32
A2	K2	Q2	J2	T2	92	82	72	62	52	42	32	22

Hijack open

Folded to you

AA	AK	AQ	AJ	AT	A9	A8	A7	A6	A5	A4	A3	A2
AK	KK	KQ	KJ	KT	K9	K8	K7	K6	K5	K4	K3	K2
AQ	KQ	QQ	QJ	QT	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2
AJ	KJ	QJ	JJ	JT	J9	J8	J7	J6	J5	J4	J3	J2
AT	KT	QT	JT	TT	T9	T8	T7	T6	T5	T4	T3	T2
A9	K9	Q9	J9	T9	99	98	97	96	95	94	93	92
A8	K8	Q8	J8	T8	98	88	87	86	85	84	83	82
A7	K7	Q7	J7	T7	97	87	77	76	75	74	73	72
A6	K6	Q6	J6	T6	96	86	76	66	65	64	63	62
A5	K5	Q5	J5	T5	95	85	75	65	55	54	53	52
A4	K4	Q4	J4	T4	94	84	74	64	54	44	43	42
A3	K3	Q3	J3	T3	93	83	73	63	53	43	33	32
A2	K2	Q2	J2	T2	92	82	72	62	52	42	32	22

Cutoff open

Folded to you

AA	AK	AQ	AJ	AT	A9	A8	A7	A6	A5	A4	A3	A2
AK	KK	KQ	KJ	KT	K9	K8	K7	K6	K5	K4	K3	K2
AQ	KQ	QQ	QJ	QT	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2
AJ	KJ	QJ	JJ	JT	J9	J8	J7	J6	J5	J4	J3	J2
AT	KT	QT	JT	TT	T9	T8	T7	T6	T5	T4	T3	T2
A9	K9	Q9	J9	T9	99	98	97	96	95	94	93	92
A8	K8	Q8	J8	T8	98	88	87	86	85	84	83	82
A7	K7	Q7	J7	T7	97	87	77	76	75	74	73	72
A6	K6	Q6	J6	T6	96	86	76	66	65	64	63	62
A5	K5	Q5	J5	T5	95	85	75	65	55	54	53	52
A4	K4	Q4	J4	T4	94	84	74	64	54	44	43	42
A3	K3	Q3	J3	T3	93	83	73	63	53	43	33	32
A2	K2	Q2	J2	T2	92	82	72	62	52	42	32	22

Button open

Folded to you

AA	AK	AQ	AJ	AT	A9	A8	A7	A6	A5	A4	A3	A2
AK	KK	KQ	KJ	KT	K9	K8	K7	K6	K5	K4	K3	K2
AQ	KQ	QQ	QJ	QT	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2
AJ	KJ	QJ	JJ	JT	J9	J8	J7	J6	J5	J4	J3	J2
AT	KT	QT	JT	TT	T9	T8	T7	T6	T5	T4	T3	T2
A9	K9	Q9	J9	T9	99	98	97	96	95	94	93	92
A8	K8	Q8	J8	T8	98	88	87	86	85	84	83	82
A7	K7	Q7	J7	T7	97	87	77	76	75	74	73	72
A6	K6	Q6	J6	T6	96	86	76	66	65	64	63	62
A5	K5	Q5	J5	T5	95	85	75	65	55	54	53	52
A4	K4	Q4	J4	T4	94	84	74	64	54	44	43	42
A3	K3	Q3	J3	T3	93	83	73	63	53	43	33	32
A2	K2	Q2	J2	T2	92	82	72	62	52	42	32	22

Small blind open

Folded to you

AA	AK	AQ	AJ	AT	A9	A8	A7	A6	A5	A4	A3	A2
AK	KK	KQ	KJ	KT	K9	K8	K7	K6	K5	K4	K3	K2
AQ	KQ	QQ	QJ	QT	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2
AJ	KJ	QJ	JJ	JT	J9	J8	J7	J6	J5	J4	J3	J2
AT	KT	QT	JT	TT	T9	T8	T7	T6	T5	T4	T3	T2
A9	K9	Q9	J9	T9	99	98	97	96	95	94	93	92
A8	K8	Q8	J8	T8	98	88	87	86	85	84	83	82
A7	K7	Q7	J7	T7	97	87	77	76	75	74	73	72
A6	K6	Q6	J6	T6	96	86	76	66	65	64	63	62
A5	K5	Q5	J5	T5	95	85	75	65	55	54	53	52
A4	K4	Q4	J4	T4	94	84	74	64	54	44	43	42
A3	K3	Q3	J3	T3	93	83	73	63	53	43	33	32
A2	K2	Q2	J2	T2	92	82	72	62	52	42	32	22

Big blind vs a button raise

Button raised to 2.5bb

AA	AK	AQ	AJ	AT	A9	A8	A7	A6	A5	A4	A3	A2
AK	KK	KQ	KJ	KT	K9	K8	K7	K6	K5	K4	K3	K2
AQ	KQ	QQ	QJ	QT	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2
AJ	KJ	QJ	JJ	JT	J9	J8	J7	J6	J5	J4	J3	J2
AT	KT	QT	JT	TT	T9	T8	T7	T6	T5	T4	T3	T2
A9	K9	Q9	J9	T9	99	98	97	96	95	94	93	92
A8	K8	Q8	J8	T8	98	88	87	86	85	84	83	82
A7	K7	Q7	J7	T7	97	87	77	76	75	74	73	72
A6	K6	Q6	J6	T6	96	86	76	66	65	64	63	62
A5	K5	Q5	J5	T5	95	85	75	65	55	54	53	52
A4	K4	Q4	J4	T4	94	84	74	64	54	44	43	42
A3	K3	Q3	J3	T3	93	83	73	63	53	43	33	32
A2	K2	Q2	J2	T2	92	82	72	62	52	42	32	22

Button vs a 3-bet

You raised, the big blind re-raised

AA	AK	AQ	AJ	AT	A9	A8	A7	A6	A5	A4	A3	A2
AK	KK	KQ	KJ	KT	K9	K8	K7	K6	K5	K4	K3	K2
AQ	KQ	QQ	QJ	QT	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2
AJ	KJ	QJ	JJ	JT	J9	J8	J7	J6	J5	J4	J3	J2
AT	KT	QT	JT	TT	T9	T8	T7	T6	T5	T4	T3	T2
A9	K9	Q9	J9	T9	99	98	97	96	95	94	93	92
A8	K8	Q8	J8	T8	98	88	87	86	85	84	83	82
A7	K7	Q7	J7	T7	97	87	77	76	75	74	73	72
A6	K6	Q6	J6	T6	96	86	76	66	65	64	63	62
A5	K5	Q5	J5	T5	95	85	75	65	55	54	53	52
A4	K4	Q4	J4	T4	94	84	74	64	54	44	43	42
A3	K3	Q3	J3	T3	93	83	73	63	53	43	33	32
A2	K2	Q2	J2	T2	92	82	72	62	52	42	32	22



Practise these decisions free. Knowing a chart and playing it under pressure are different skills. Scan for the PlusEV preflop trainer.

plusev.poker

Live card rooms and tournaments do not allow reference material at the table. Study it before you sit down.