POKERTRACKER

Using PokerTracker
for Poker Analysis

PokerTracker is the industry leading analysis and tracking software for online poker players since 2001.

PokerTracker helps players to identify and analyze similar *Decision Points* to improve their game.

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What is a Decision Point?

- A Decision Point is any time in a hand that you as a player can check, bet, call, raise or fold.

- Poker players naturally remember similar Decision Points

- Using PokerTracker to analyze interesting Decision Points is an effective way to start improving your game.

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What Makes a Decision Point Interesting?

- A Decision Point is interesting when the expectation of the different options is not clear *to you*.

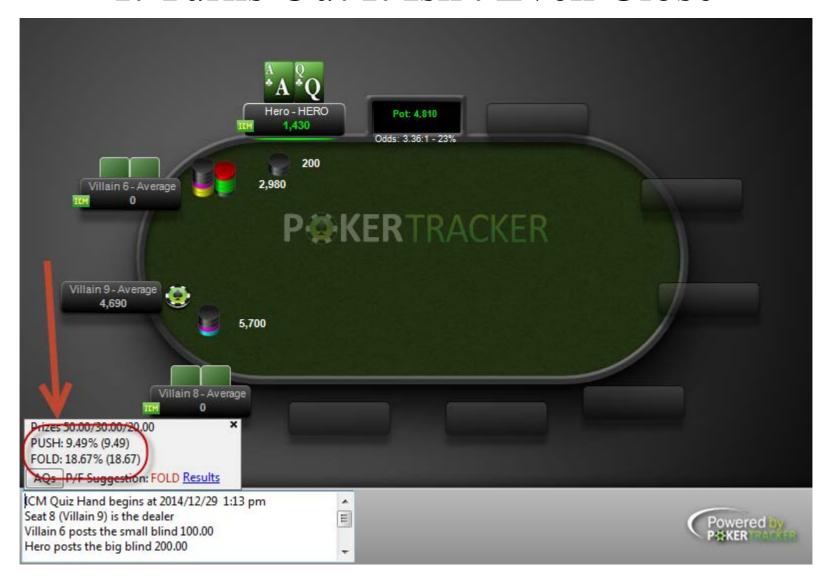- Different levels of players will find different decisions interesting.

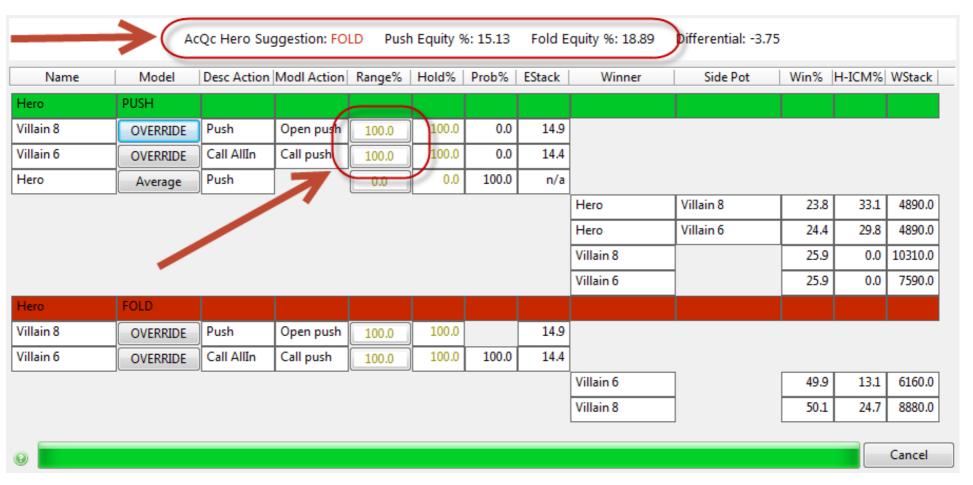# Here is a Decision Point on the bubble in a 50/30/20 Payout Single Table SnG
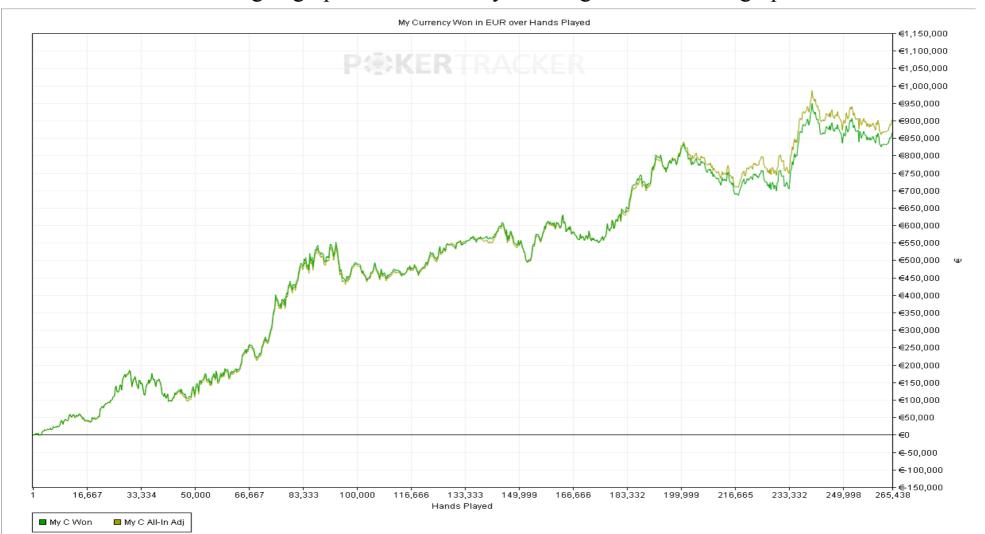
It Turns Out It Isn't Even Close

Even If They Both Play
Any Two Cards!

AcQc Hero Suggestion: FOLD   Push Equity %: 15.13   Fold Equity %: 18.89   Differential: -3.75

Name	Model	Desc Action	Modl Action	Range%	Hold%	Prob%	EStack	Winner	Side Pot	Win%	H-ICM%	WStack
Hero	PUSH											
Villain 8	OVERRIDE	Push	Open push	100.0	100.0	0.0	14.9					
Villain 6	OVERRIDE	Call AllIn	Call push	100.0	100.0	0.0	14.4					
Hero	Average	Push		0.0	0.0	100.0	n/a					
								Hero	Villain 8	23.8	33.1	4890.0
								Hero	Villain 6	24.4	29.8	4890.0
								Villain 8		25.9	0.0	10310.0
								Villain 6		25.9	0.0	7590.0
Hero	FOLD											
Villain 8	OVERRIDE	Push	Open push	100.0	100.0		14.9					
Villain 6	OVERRIDE	Call AllIn	Call push	100.0	100.0	100.0	14.4					
								Villain 6		49.9	13.1	6160.0
								Villain 8		50.1	24.7	8880.0

Cancel

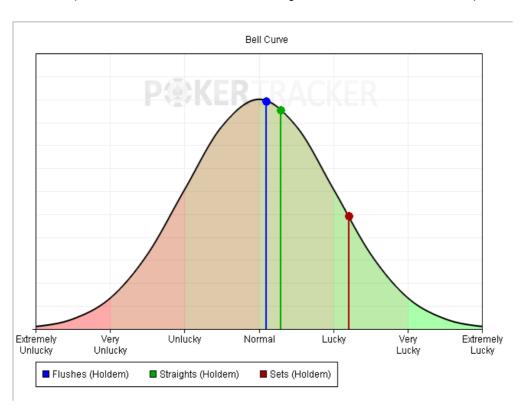How Do You <u>Not</u> Get Better at Poker Using PokerTracker 4?

Looking at graphs. What would you change based on this graph?

How Do You Not Get Better at Poker Using PokerTracker 4?

- Analyzing Walks (you can't even act!)

- Analyzing Luck (even if it makes you feel better)

How Do You *Not* Get Better at Poker Using PokerTracker 4?

- Relying on statistics that are irrelevant or lack a sufficient sample
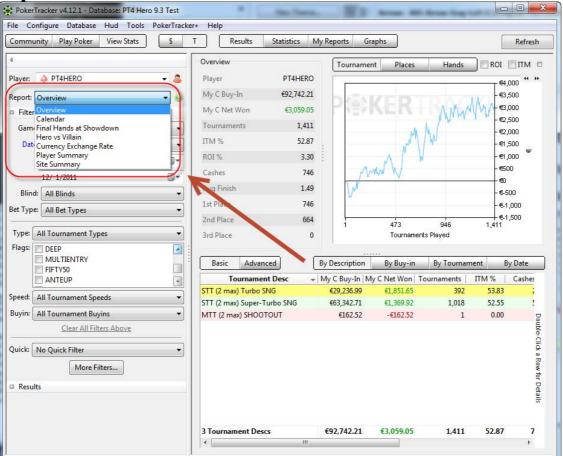
How Do You Get Better at Poker Using PokerTracker 4?

1) Use PokerTracker 4's reports and filters to look at specific kinds of decision points.

2) Create mental models of the players in the specific situation.

3) Adjust those models based on any relevant statistics, notes or other information you may have.

4) Evaluate the different decision options and their relative merits.

5) Go to step 1.

Basic Report Navigation
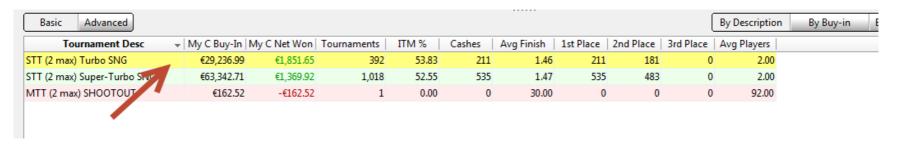
Reports are accessed on the View Stats page.

Individual reports can be chosen in the sidebar.

Double Clicking

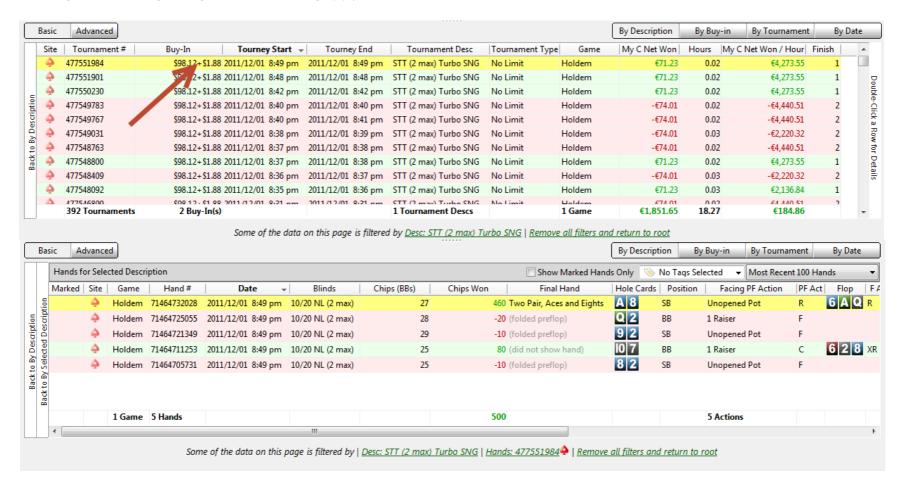Many reports allow you to double click to get more detailed information on that row.

Tournament Desc	My C Buy-In	My C Net Won	Tournaments	ITM %	Cashes	Avg Finish	1st Place	2nd Place	3rd Place	Avg Players
STT (2 max) Turbo SNG	€29,236.99	€1,851.65	392	53.83	211	1.46	211	181	0	2.00
STT (2 max) Super-Turbo SNG	€63,342.71	€1,369.92	1,018	52.55	535	1.47	535	483	0	2.00
MTT (2 max) SHOOTOUT	€162.52	-€162.52	1	0.00	0	30.00	0	0	0	92.00

Basic | Advanced | By Description | By Buy-in

Site	Tournament #	Buy-In	Tourney Start	Tourney End	Tournament Desc	Tournament Type	Game	My C Net Won	Hours	My C Net Won / Hour	Finish
♠	477551984	$98.12+$1.88	2011/12/01 8:49 pm	2011/12/01 8:49 pm	STT (2 max) Turbo SNG	No Limit	Holdem	€71.23	0.02	€4,273.55	1
♠	477551901	$98.12+$1.88	2011/12/01 8:48 pm	2011/12/01 8:48 pm	STT (2 max) Turbo SNG	No Limit	Holdem	€71.23	0.02	€4,273.55	1
♠	477550230	$98.12+$1.88	2011/12/01 8:42 pm	2011/12/01 8:42 pm	STT (2 max) Turbo SNG	No Limit	Holdem	€71.23	0.02	€4,273.55	1
♠	477549783	$98.12+$1.88	2011/12/01 8:40 pm	2011/12/01 8:40 pm	STT (2 max) Turbo SNG	No Limit	Holdem	-€74.01	0.02	-€4,440.51	2
♠	477549767	$98.12+$1.88	2011/12/01 8:40 pm	2011/12/01 8:41 pm	STT (2 max) Turbo SNG	No Limit	Holdem	-€74.01	0.02	-€4,440.51	2
♠	477549031	$98.12+$1.88	2011/12/01 8:38 pm	2011/12/01 8:39 pm	STT (2 max) Turbo SNG	No Limit	Holdem	-€74.01	0.03	-€2,220.32	2
♠	477548763	$98.12+$1.88	2011/12/01 8:37 pm	2011/12/01 8:38 pm	STT (2 max) Turbo SNG	No Limit	Holdem	-€74.01	0.02	-€4,440.51	2
♠	477548800	$98.12+$1.88	2011/12/01 8:37 pm	2011/12/01 8:38 pm	STT (2 max) Turbo SNG	No Limit	Holdem	€71.23	0.02	€4,273.55	1
♠	477548409	$98.12+$1.88	2011/12/01 8:36 pm	2011/12/01 8:37 pm	STT (2 max) Turbo SNG	No Limit	Holdem	-€74.01	0.03	-€2,220.32	2
♠	477548092	$98.12+$1.88	2011/12/01 8:35 pm	2011/12/01 8:36 pm	STT (2 max) Turbo SNG	No Limit	Holdem	€71.23	0.03	€2,136.84	1
♠	477546800	$98.12+$1.88	2011/12/01 8:21 pm	2011/12/01 8:21 pm	STT (2 max) Turbo SNG	No Limit	Holdem	€74.01	0.02	€4,440.51	2
	392 Tournaments	2 Buy-In(s)			1 Tournament Descs		1 Game	€1,851.65	18.27	€184.86	

Some of the data on this page is filtered by Desc: STT (2 max) Turbo SNG | Remove all filters and return to root

Double Clicking

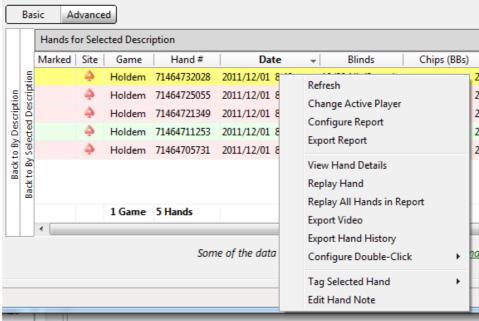Many reports allow you to double click to get more detailed information on that row.
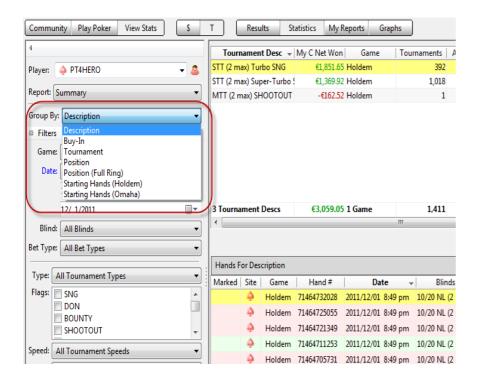
Right Clicking

All reports have a right click context menu. You can use this menu to configure the report to add or remove statistics, replay hands, export them, add notes, and more.
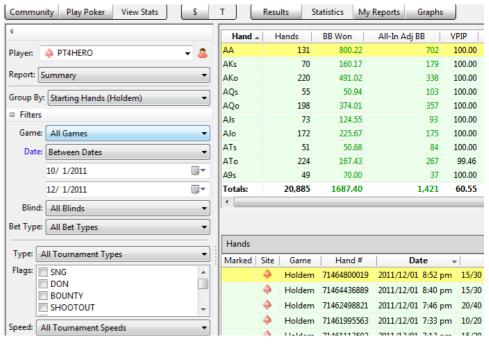
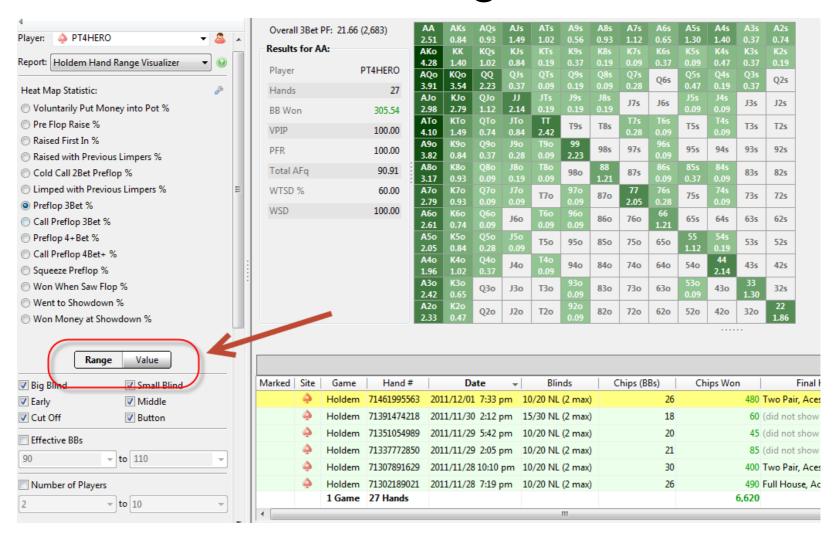You can use shift or ctrl + click to select multiple rows.
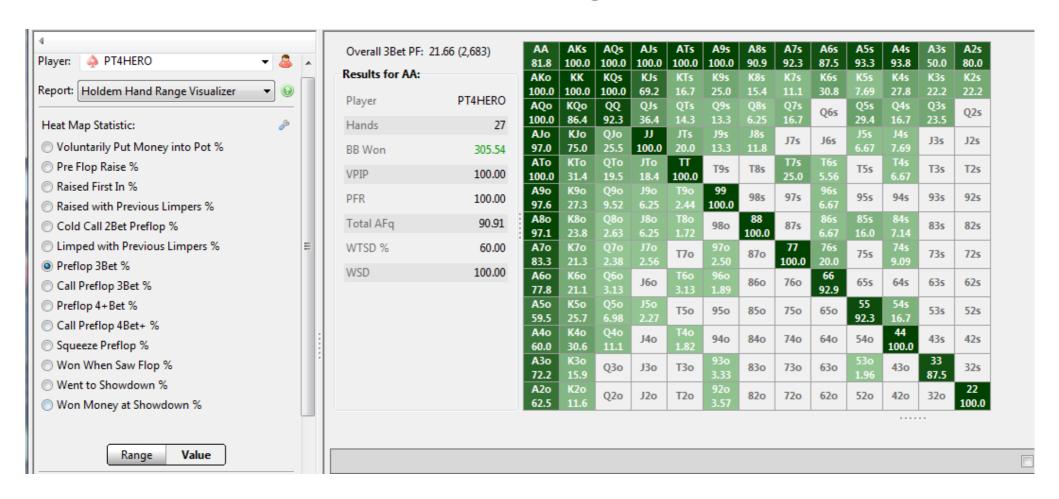
Change Grouping With the Summary Report

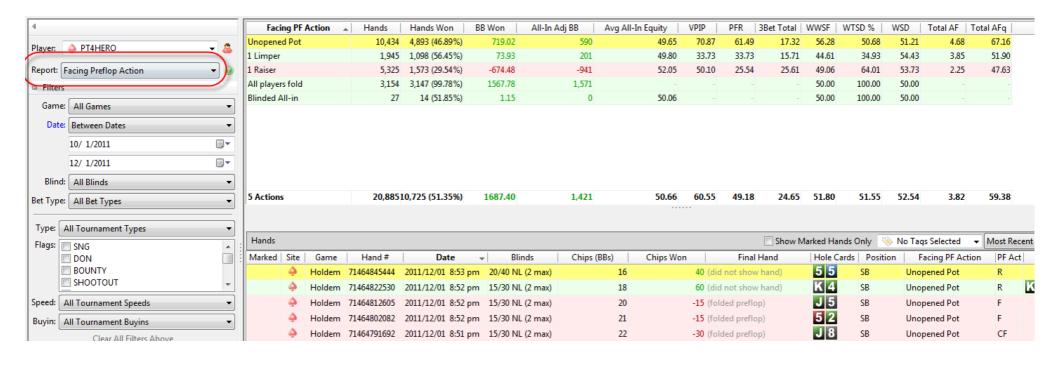# Discover & Analyze Your Range With the Holdem Hand Range Visualizer

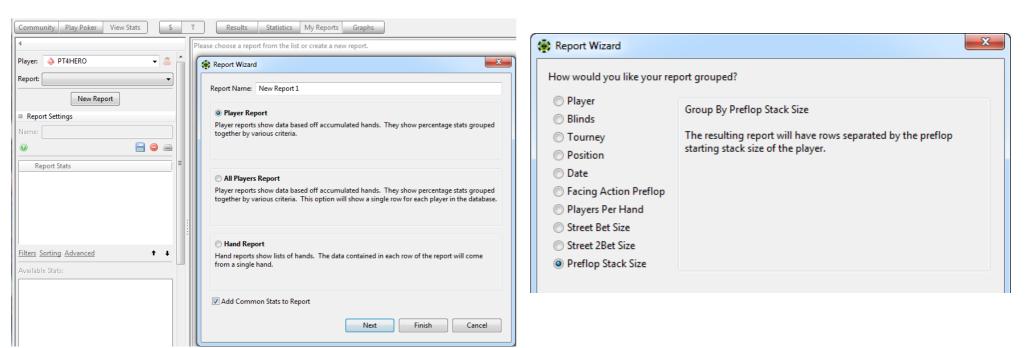# Discover & Analyze Your Range With the Holdem Hand Range Visualizer

Analyze Your First Decision Point With Facing Preflop Action

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Player: PT4HERO

Report: Facing Preflop Action

Filters

Game: All Games
Date: Between Dates
10/ 1/2011
12/ 1/2011
Blind: All Blinds
Bet Type: All Bet Types

Type: All Tournament Types
Flags: ☐ SNG
☐ DON
☐ BOUNTY
☐ SHOOTOUT

Speed: All Tournament Speeds
Buyin: All Tournament Buyins
Clear All Filters Above

Facing PF Action	Hands	Hands Won	BB Won	All-In Adj BB	Avg All-In Equity	VPIP	PFR	3Bet Total	WWSF	WTSD %	WSD	Total AF	Total AFq
Unopened Pot	10,434	4,893 (46.89%)	719.02	590	49.65	70.87	61.49	17.32	56.28	50.68	51.21	4.68	67.16
1 Limper	1,945	1,098 (56.45%)	73.93	201	49.80	33.73	33.73	15.71	44.61	34.93	54.43	3.85	51.90
1 Raiser	5,325	1,573 (29.54%)	-674.48	-941	52.05	50.10	25.54	25.61	49.06	64.01	53.73	2.25	47.63
All players fold	3,154	3,147 (99.78%)	1567.78	1,571					50.00	100.00	50.00		
Blinded All-in	27	14 (51.85%)	1.15	0	50.06				50.00	100.00	50.00		
5 Actions	**20,88510,725 (51.35%)**		**1687.40**	**1,421**	**50.66**	**60.55**	**49.18**	**24.65**	**51.80**	**51.55**	**52.54**	**3.82**	**59.38**

Hands

☐ Show Marked Hands Only   🏷 No Tags Selected   Most Recent

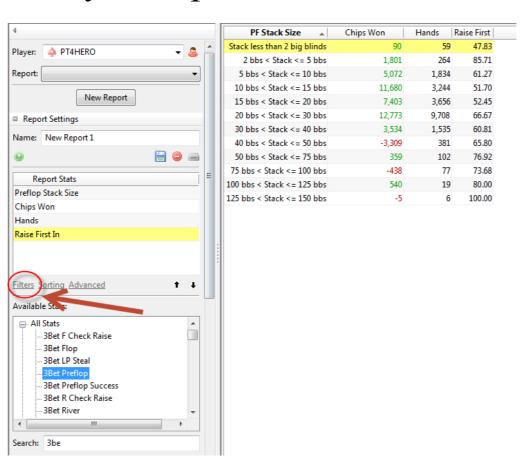| Marked	Site	Game	Hand #	Date	Blinds	Chips (BBs)	Chips Won	Final Hand	Hole Cards	Position	Facing PF Action	PF Act
	♠	Holdem	71464845444	2011/12/01 8:53 pm	20/40 NL (2 max)	16	40 (did not show hand)		5 5	SB	Unopened Pot	R
	♠	Holdem	71464822530	2011/12/01 8:52 pm	15/30 NL (2 max)	18	60 (did not show hand)		K 4	SB	Unopened Pot	R
	♠	Holdem	71464812605	2011/12/01 8:52 pm	15/30 NL (2 max)	20	-15 (folded preflop)		J 5	SB	Unopened Pot	F
	♠	Holdem	71464802082	2011/12/01 8:52 pm	15/30 NL (2 max)	21	-15 (folded preflop)		5 2	SB	Unopened Pot	F
	♠	Holdem	71464791692	2011/12/01 8:51 pm	15/30 NL (2 max)	22	-30 (folded preflop)		J 8	SB	Unopened Pot	CF

Need More?

- You can create custom reports in My Reports.

- Choose type, grouping, and show only the stats you want.

Need More?

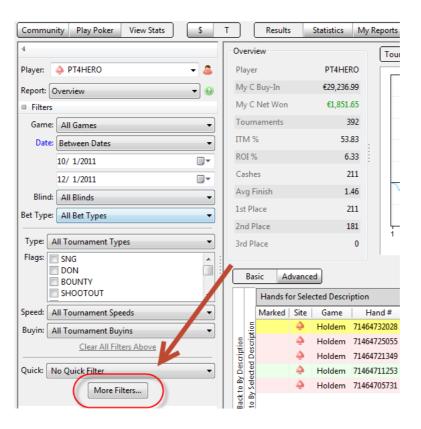- Save filters with your report for ease of use.

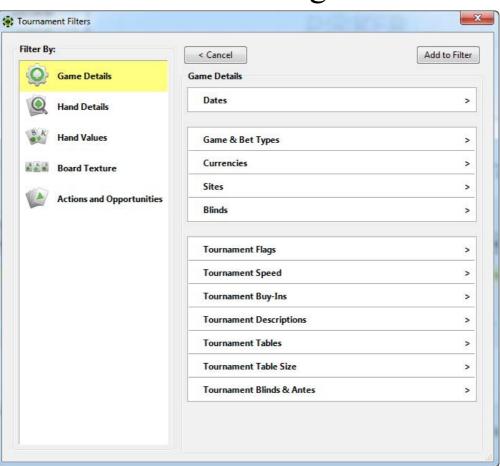# How Do We Target Different Decision Points for Analysis?

Use the More Filters window in the PT4 Sidebar.

Game Details
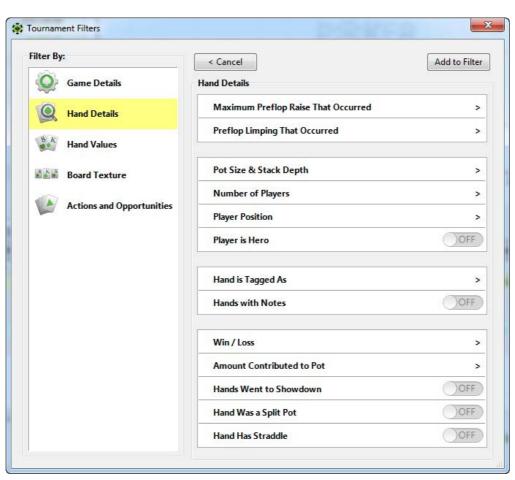
Use this filter section for filters at the game level

How to Navigate the Filters

- Choose a section to see its filters.

- Any time there's a ">" you can click for more filters.

- Anytime you go down a level, the button above the filters with the "<" takes you up one level.

- When you have all filters you want turned on, click Add to Filter

Hand Details

Use this filter section for filters about the hand as a whole

Hand Values

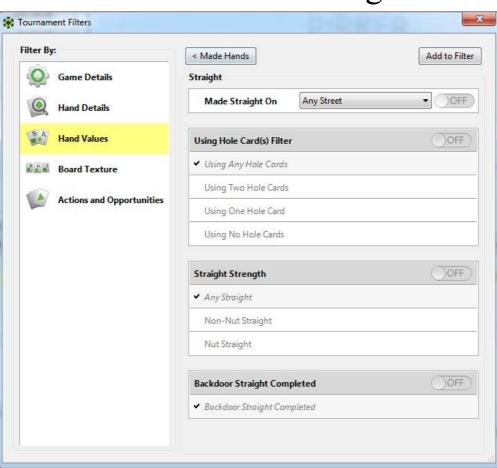Filter for hole cards, hand strength or draw strength.

Hand Values

Filter for hole cards.

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Hand Values
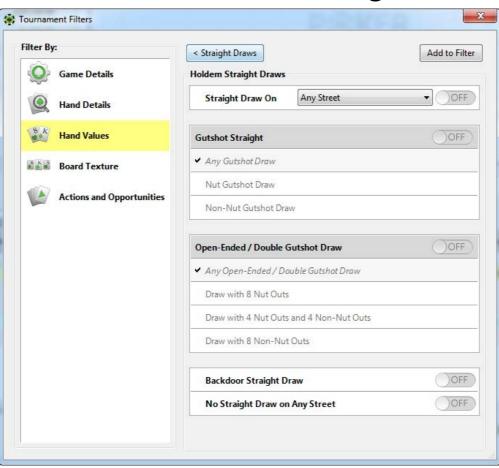
Filter for hand strength.

Hand Values

Filter for hand strength.

Hand Values

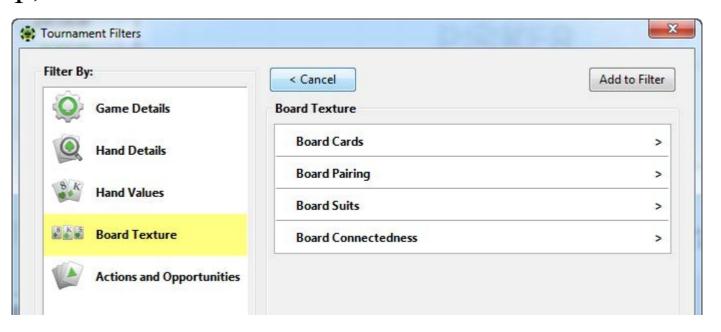### Filter for draw strength.

Board Texture

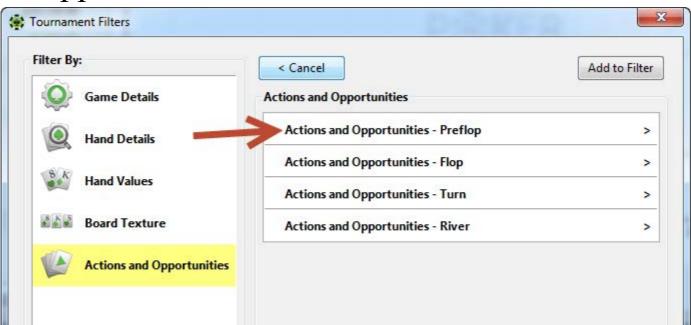Use this filter section to filter based on the cards that came out on the flop, turn or river.
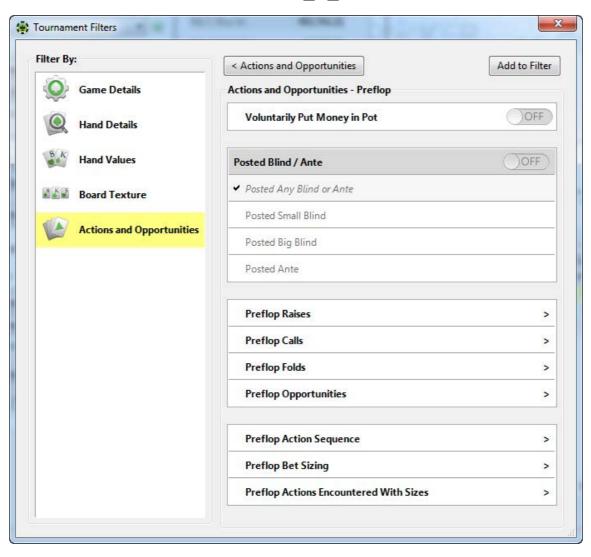
Actions & Opportunities

Use this filter section to filter for specific actions the Active Player took, or opportunities the Active Player had.

This includes bets (and sizing), raises faced (and sizing), calls, folds and opportunities of all kinds.

Actions & Opportunities

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Need More Advanced Logic?

When you have multiple filters, you can group by 'AND' and 'OR'.

Negate a filter with 'NOT'.

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When you have multiple filters, you can group by 'AND' and 'OR'.

Negate a filter with 'NOT'.

TIP: Save Complex Filters as Quick Filters

Then you can reload them via the Edit Quick Filters button, or the Quick drop down – without rebuilding!

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So . . . What Are the Stats?

- Most stats tell you how often a player took a specific action in a specific situation.

- These kinds of stats display as a percentage:

  - (# of Times / # of Opportunities) * 100

Examples

- VPIP: Percentage of the time a player voluntarily put money in the pot preflop

- Raise First In: Percentage of the time a player raises on their first action preflop when it is folded to them

- Some can be very specific – Fold to Raise After F CBet in 3Bet+ Pot

- You can find the definition for any statistic in the Configure → Statistics window.

Examples

How Do You Find Your Opponents' Stats?

Use the Results → Player Summary Report

– You can sort by clicking column headers to find your most common opponents and add more stats as needed.

Player	Site	Tournaments	My C Net Won	My C / Tournament	VPIP	PFR	WSD	3Bet PF	3Bet PF Suc	Call 3Bet
PT4HERO	♠	1,411	€3,059.05	€2.17	60.55	49.18	52.54	24.63	49.35	34.99
PT4HERO	✗	120	-€4,593.02	-€38.28	63.38	54.81	51.55	25.80	51.33	29.93
	♠	31	€26.55	€0.86	72.82	34.75	55.29	32.22	65.52	45.45
	♠	25	€332.66	€13.31	43.48	35.21	60.00	25.61	61.90	61.11
	✗	23	€3,868.30	€168.19	54.34	45.54	61.82	25.83	64.52	48.28
	✗	23	-€1,217.52	-€52.94	64.91	44.94	43.66	20.91	65.22	36.84
	✗	22	-€845.91	-€38.45	71.81	53.53	50.68	22.47	55.00	63.64
	♠	21	€44.33	€2.11	78.05	28.85	50.00	17.31	55.56	100.00
	♠	17	-€239.68	-€14.10	81.68	66.67	41.03	32.14	33.33	29.63
	♠	16	-€23.95	-€1.50	60.11	45.22	53.57	32.69	64.71	16.67

Filters panel:
- Player: PT4HERO
- Report: Player Summary
- Game: All Games
- Date: Between Dates
- 10/ 1/2011
- 12/ 1/2011

Want To Go Deeper?

The Hero vs Villain report loads hands you played with individual villains for easy searching.

Want To Go Even Deeper?

Load the Villain in the Player drop down and you can view any report in PT4 from his perspective.

Analysis In Action

Say we want to examine our Big Blind play, 6 handed in a Fifty50 Tournament with KQo facing an open shove.

- A Fifty50 tournament pays the top 5 entrants (of 10) back their buy in cost, and the rest of the prize pool is distributed according to chip stack.

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Filter By:

- Game Details
- Hand Details
- **Hand Values**
- Board Texture
- Actions and Opportunities

< Hole Cards Range Selection | Add to Filter

Holdem Hand Range

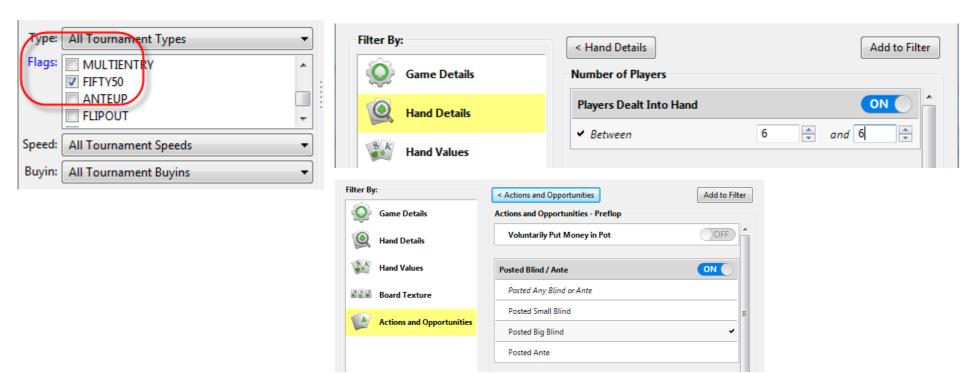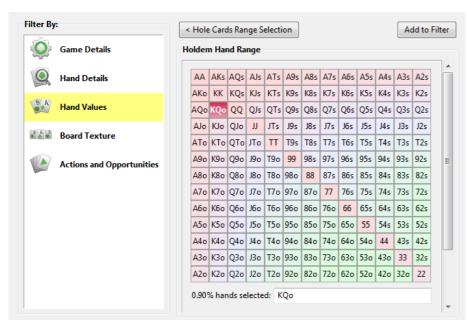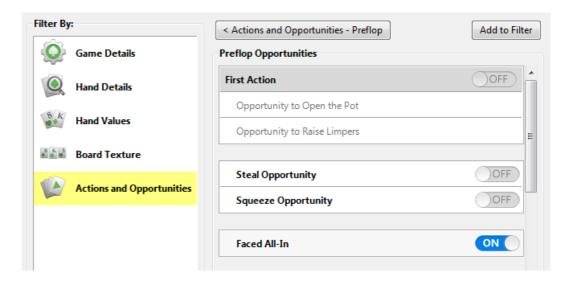|												
AA	AKs	AQs	AJs	ATs	A9s	A8s	A7s	A6s	A5s	A4s	A3s	A2s
AKo	KK	KQs	KJs	KTs	K9s	K8s	K7s	K6s	K5s	K4s	K3s	K2s
AQo	KQo	QQ	QJs	QTs	Q9s	Q8s	Q7s	Q6s	Q5s	Q4s	Q3s	Q2s
AJo	KJo	QJo	JJ	JTs	J9s	J8s	J7s	J6s	J5s	J4s	J3s	J2s
ATo	KTo	QTo	JTo	TT	T9s	T8s	T7s	T6s	T5s	T4s	T3s	T2s
A9o	K9o	Q9o	J9o	T9o	99	98s	97s	96s	95s	94s	93s	92s
A8o	K8o	Q8o	J8o	T8o	98o	88	87s	86s	85s	84s	83s	82s
A7o	K7o	Q7o	J7o	T7o	97o	87o	77	76s	75s	74s	73s	72s
A6o	K6o	Q6o	J6o	T6o	96o	86o	76o	66	65s	64s	63s	62s
A5o	K5o	Q5o	J5o	T5o	95o	85o	75o	65o	55	54s	53s	52s
A4o	K4o	Q4o	J4o	T4o	94o	84o	74o	64o	54o	44	43s	42s
A3o	K3o	Q3o	J3o	T3o	93o	83o	73o	63o	53o	43o	33	32s
A2o	K2o	Q2o	J2o	T2o	92o	82o	72o	62o	52o	42o	32o	22

0.90% hands selected: KQo

Filter By:

- Game Details
- Hand Details
- Hand Values
- Board Texture
- **Actions and Opportunities**

< Actions and Opportunities - Preflop | Add to Filter

Preflop Opportunities

First Action	OFF
Opportunity to Open the Pot	
Opportunity to Raise Limpers	
Steal Opportunity	OFF
Squeeze Opportunity	OFF
Faced All-In	ON

Tournament Filters

Cancel | Save & Apply Filters

Current / Active Filters

Add Filter >

Players Dealt Into Hand Between 6 and 6	✖

AND

Posted Blind / Ante Posted Big Blind	✖

AND

Hands: KQo	✖

AND

Faced All-In Preflop	✖

Clear All | 'AND' Selected | 'OR' Selected | 'NOT' Selected | Ungroup

Save as Quick Filter | Edit Quick Filters

Two Matching Hands

Basic	Advanced

Position▾	Hands	VPIP	PFR	Total AF	Total AFq	WTSD %	WSD
BB	2	50.00	-	-	-	100.00	100.00

Let's replay the second one.

Hand # ▾	Marked	Site	Date	Blinds	Hole Cards	Chips (BBs)
57990983569		♠	2011/02/20 1:41 pm	100/200 Ante 25 Nl	K Q	10
57579123411		♠	2011/02/13 1:05 am		K Q	17

Refresh
Change Active Player
Export Report

View Hand Details
Replay Hand
Replay All Hands in Report
Export Video
Export Hand History
Configure Double-Click   ▸

Tag Selected Hand   ▸

Edit Hand Note

And Here is Our Situation

Start Thinking About Villain 18's Range

- When would a completely unknown player play this way?

  - We need a default model before we can adjust!

Now Let's Add Stats
And Refine Our Model of Villain 18

In 73 hands, Villain 18 has played 11% of hands, raising only once.

Our Sample Is Not Large for this Position

Tools | Preflop | Flop | Turn | River

Villain 18		Harrington's M	3	Avg All-In Equity	99%	
Won When Saw Flop	30 (3/10)	Went to Showdown	40 (4/10)	Won At Showdown	50 (2/4)	

Preflop	Total	EP	MP	CO	BTN	SB	BB
VPIP	11 (8/73)	15 (3/20)	14 (3/21)	0 (0/8)	13 (1/8)	13 (1/8)	0 (0/8)
PFR	1 (1/69)	5 (1/20)	0 (0/21)	0 (0/7)	0 (0/7)	0 (0/8)	0 (0/6)
Raise First In	3 (1/33)	5 (1/19)	0 (0/10)	- (0/0)	0 (0/3)	0 (0/1)	- (0/0)
3Bet BY Position	0 (0/20)	0 (0/1)	0 (0/3)	0 (0/6)	0 (0/3)	0 (0/5)	0 (0/2)
3Bet VS Position		0 (0/12)	0 (0/5)	0 (0/1)	0 (0/1)	0 (0/1)	- (0/0)
Fold to 3Bet After Raising	0 (0/1)	0 (0/1)	(0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)
4Bet+ After Raising	0 (0/1)	(0/1)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)
Fold to 4Bet After 3Bet	(0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)
Squeeze	0 (0/4)	- (0/0)	- (0/0)	- (0/0)	0 (0/2)	0 (0/1)	
Limp & Call Raise	50 (1/2)	50 (1/2)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)

He seems to call across positions.
He's limped once, and folded his blinds
to a steal twice.

We have 8 small blind hands.
He played one of them for a call.

Tools | Preflop | Flop | Turn | River

Villain 18		PF Agression Factor	0.11	PF Agression Frequency	1		

Preflop	Total	EP	MP	CO	BTN	SB	BB
Call 2Bet	16 (4/25)	50 (1/2)	33 (1/3)	0 (0/7)	25 (1/4)	20 (1/5)	0 (0/4)
Cold Call 2Bet	14 (2/14)	- (0/0)	33 (1/3)	0 (0/7)	25 (1/4)	- (0/0)	- (0/0)
Call Any 3Bet	25 (1/4)	100 (1/1)	0 (0/1)	- (0/0)	- (0/0)	0 (0/1)	0 (0/1)
Cold Call 3Bet+	0 (0/3)	- (0/0)	0 (0/1)	- (0/0)	- (0/0)	0 (0/1)	0 (0/1)
Fold to Squeeze	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)
Call Squeeze	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)
Raise Squeeze	- (0/0)	- (0/0)	(0/0)	- (0/0)	- (0/0)	- (0/0)	- (0/0)
Limp w/Prev Limpers	7 (1/14)	0 (0/1)	14 (1/7)	0 (0/1)	0 (0/1)	0 (0/1)	0 (0/3)
Raise w/Prev Limpers	0 (0/14)	0 (0/1)	0 (0/7)	0 (0/1)	0 (0/1)	0 (0/1)	0 (0/3)

Steals	Total	CO	BTN	SB	BB		
Attempt to Steal	0 (0/4)	- (0/0)	0 (0/3)	0 (0/1)			
Fold Steal to 3Bet	- (0/0)	- (0/0)	- (0/0)	- (0/0)			
Fold Blind to Steal	100 (2/2)			100 (1/1)	100 (1/1)		
Call Steal	0 (0/2)			0 (0/1)	0 (0/1)		

Think About What Hands *This Player* Would Open Raise All-In With

- His tournament life is on the line.

- He's the short stack, with an M of about 2.7.
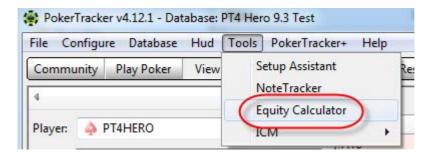
- Does he play low pocket pairs?

- What about weak aces?

- KQ? KT? QJ?

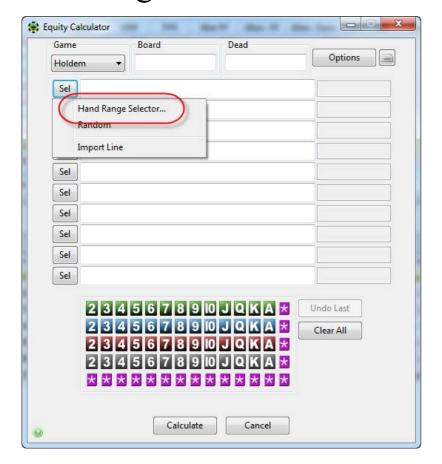# TIP: Use the PT4 Equity Calculator

PT4 has a built in Equity Calculator that can help you convert from actual ranges to percentages of all hands.

TIP: Use the PT4 Equity Calculator

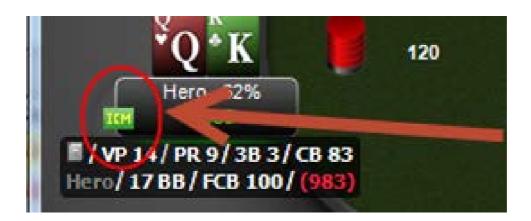It can also calculate equity hand vs hand, hand vs range and range vs range.

11% Of Hands

This presumes anything he'd ever played, he would play now.

AA	AKs	AQs	AJs	ATs	A9s	A8s	A7s	A6s	A5s	A4s	A3s	A2s
AKo	KK	KQs	KJs	KTs	K9s	K8s	K7s	K6s	K5s	K4s	K3s	K2s
AQo	KQo	QQ	QJs	QTs	Q9s	Q8s	Q7s	Q6s	Q5s	Q4s	Q3s	Q2s
AJo	KJo	QJo	JJ	JTs	J9s	J8s	J7s	J6s	J5s	J4s	J3s	J2s
ATo	KTo	QTo	JTo	TT	T9s	T8s	T7s	T6s	T5s	T4s	T3s	T2s
A9o	K9o	Q9o	J9o	T9o	99	98s	97s	96s	95s	94s	93s	92s
A8o	K8o	Q8o	J8o	T8o	98o	88	87s	86s	85s	84s	83s	82s
A7o	K7o	Q7o	J7o	T7o	97o	87o	77	76s	75s	74s	73s	72s
A6o	K6o	Q6o	J6o	T6o	96o	86o	76o	66	65s	64s	63s	62s
A5o	K5o	Q5o	J5o	T5o	95o	85o	75o	65o	55	54s	53s	52s
A4o	K4o	Q4o	J4o	T4o	94o	84o	74o	64o	54o	44	43s	42s
A3o	K3o	Q3o	J3o	T3o	93o	83o	73o	63o	53o	43o	33	32s
A2o	K2o	Q2o	J2o	T2o	92o	82o	72o	62o	52o	42o	32o	22

10.71% hands selected: 44+,A8s+,KQs,ATo+

Model
Sklansky-Karlson

Include
11.00

Now We Can Check the ICM Modeler

- Click the green ICM box to bring up the ICM Results.

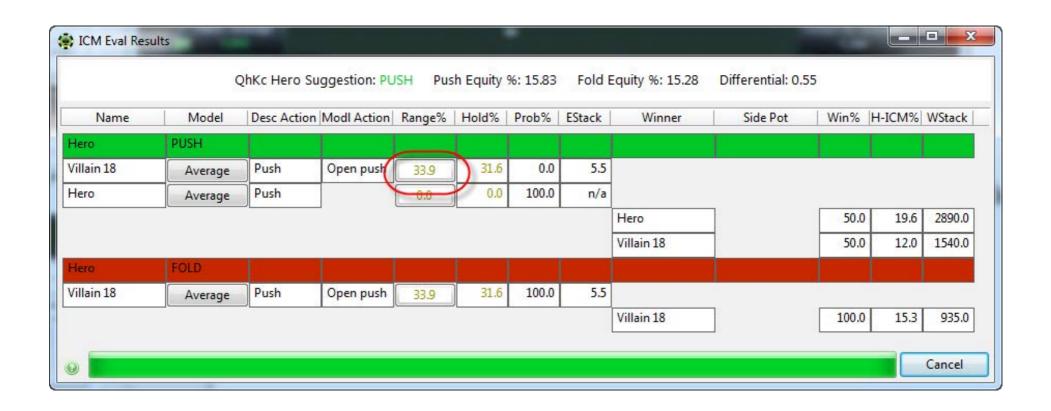- This will show the results using the default Average model.

The Default Model Says Push!

- Click blue Results link to see the full ICM tree.

- This will show the results using the default Average model.

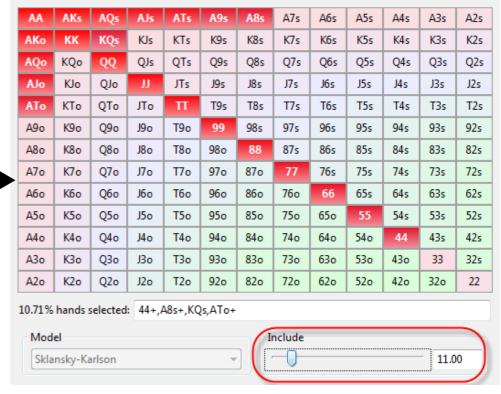- This will also show the model's range in this situation.

The Default Range is . . .

Change 33% to 11%

By adjusting the Include slider.

With The Updated Range

QhKc Hero Suggestion: FOLD   Push Equity %: 14.85   Fold Equity %: 15.28   Differential: -0.44

Name	Model	Desc Action	Modl Action	Range%	Hold%	Prob%	EStack	Winner	Side Pot	Win%	H-ICM%	WStack
Hero	PUSH											
Villain 18	OVERRIDE	Push	Open push	11.0	10.3	0.0	5.5					
Hero	Average	Push		0.0	0.0	100.0	n/a					
								Hero		37.1	19.6	2890.0
								Villain 18		62.9	12.0	1540.0
Hero	FOLD											
Villain 18	OVERRIDE	Push	Open push	11.0	10.3	100.0	5.5					
								Villain 18		100.0	15.3	935.0

Now it's a fold!

It turns out it's a fold if he plays less than a 24% Range:
any ace, any pair, K9s+, QTs+ and KTo+

In the Actual Tournament

Hero Called!

Flop

Turn

River

Showdown

Lessons

- Think about poker as a series of discrete Decision Points.

- Use Filters to target very specific Decision Points.

- Use available information to build a mental model of your opponents.

- Analyze your options based on your hand and your mental model.

- When your mental model is proven wrong (and it will be), adjust it.

15.S50 Poker Theory and Analytics
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