LANTERN MIXED TABLES

The HORSE Carousel

Five rhythms. A whole new way to return.

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Sixteen pages of play, patterns,
worked hands, and discoveries.

A dedicated WSRF companion.
Your pace. Your possibilities.

DISCOVERIES

Your first invitation

Enjoy recognizing which skill each game invites. The room names the current ruleset and changes to its matching WSRF adviser.

HORSE rotates through Limit Hold'em, Omaha Eight-or-Better, Razz, Stud, and Stud Eight-or-Better. Each is fixed limit. In this room a game lasts one orbit: two hands heads-up or six hands at a six-seat table. The button is held through the stud rounds so the next flop-game blinds continue their sequence.

Take your seat with Fern and familiar AI company. The room offers heads-up or six-seat play, automatic next hands, adjustable pace, practice peeks, a visible WSRF tree, a Monte Carlo playground, and a notebook that keeps your place. Choose Gentle company while learning the rhythm, then explore Seasoned or Sharp whenever you feel ready.

Start by naming the game and the legal five-card construction. Then count the players still active and read the amount needed to continue. Those small observations give the coach's estimate a useful setting. The worked pages that follow preserve their cards, assumptions, and numerical receipts so you can explore the same question again.

Can this guide turn a new poker variant into a series of friendly discoveries?

Worked answer. Yes. Begin with one construction, follow one street, and open one explanation. The game's controls keep the legal choices clear while your familiarity grows.

A route through these pages

Read the betting rhythm and the made-hand example. Explore the card map, choose a worked hand, then visit the training page to meet the fitted forest behind the coach.

DISCOVERIES

A rhythm you can follow

The room keeps the chip arithmetic close to the action.

At this table	How it works
Starting stack	2,000 free play chips at each seat
Seats	Heads-up or six seats
Blinds / antes	Flop games: blinds 10/20. Stud games: ante 2, bring-in 5.
Betting	Small increment 20; large increment 40.
Street rhythm	The current game's street determines the 20 or 40 increment.
Limit cap	Four full bets per street, including the opening bet.
Short all-ins	A full increment reopens raising under this room's house rule.
Split-chip order	The high half receives an odd split chip. Tied shares award odd chips clockwise from the stored button.

These are the room's declared house settings. A short stack contributes its available chips, and side pots keep each contribution matched to the players eligible for it. A returned unmatched contribution stays separate from a contested pot. Opening the Coach or Options panel holds the action while you explore.

A fixed amount makes the price easy to follow. Use the current street's increment and the chips already in front of you when reading a raise-to amount.

> **Can a saved stack keep its meaning after a refill?**
>
> **Worked answer. Yes.** Fresh chips increase the funding total as well as the stack. Recorded hand profit remains the difference earned through play.

DISCOVERIES

See the five-card construction

The cards make the idea concrete.

Can one saved HORSE session carry your chips through all five games and return to Hold'em?

Worked answer. Yes. Your session tracks the completed-hand count, the current rotation, the button, and every stack. A return visit resumes the exact hand and continues the same five-game story.

The carousel changes the meaning of a useful five-card hand as it moves between chapters. Hold'em and Stud reward high hands. Razz rewards the best ace-to-five low. Omaha Eight-or-Better and Stud Eight-or-Better compare high and qualifying low separately. The game label and matching guide remain a tap away at each transition.

Try covering the worked answer and pointing to the five chosen cards. Then name one different final card that would invite a new construction. A concrete card change is a useful way to connect imagination with the rules.

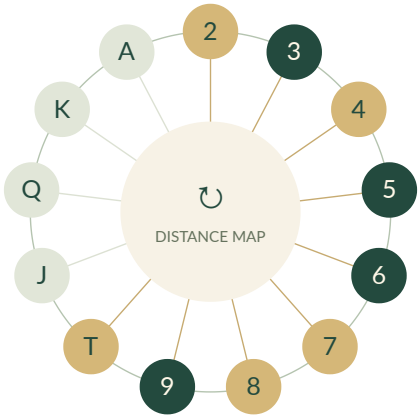
Bring it to the table

At your next decision, name the current made hand before exploring future cards. Your coach can then help connect that construction with the field, the price, and the remaining possibilities.

DISCOVERIES

A little map of possibility

One away, two away, three away—and a clear reference frame.



LIKELY · 9/13 near ranks

Moving references: 6 · 5 · 9 · 3

50 unseen cards.
Bucket counts: 14 / 20 / 8 / 8

Distance mean 1.20 · SD 1.02

The pocket map uses your first two dealt cards. In an Omaha hand these are an explicit pair of anchors inside the four-card pocket; the hand evaluator still explores all legal two-card choices. In a stud hand they are the first two private cards. The moving map uses the latest two community cards or your latest two exposed stud cards once they are available.

The map's circular ranks run from 2=0 to A=12. The reference expressions use the two anchors, their sum modulo thirteen, and their absolute difference. Near means distance zero or one. Seven or more near ranks gives LIKELY; six or fewer gives UNLIKELY. Both labels receive balanced examples in each newly trained model.

Known-card counts include your own cards and every publicly exposed card, including cards shown by a folded stud opponent. That keeps the remaining physical-card counts connected to what you can actually observe. The game-specific hand ranking and the map each describe their own part of the hand.

> **Can this compact map help make a WSRF tree's inputs easier to explore?**
>
> **Worked answer. Yes.** The model includes coverage, distance spread, and both zone flags alongside the game-specific card features. A visible tree path shows which of those inputs it used at this spot.

DISCOVERIES

A few habits worth keeping

Let the game's special character guide your attention.

Name the game first

Before reading the cards, say the game name. Hold'em and Omaha Eight-or-Better share community cards but ask for different private-card selections. Razz and Stud share a personal-board layout but reward different five-card rankings. Naming the game brings the appropriate question into focus.

Carry a familiar habit across new rules

The same calm sequence works throughout the carousel: identify the legal hand, count the active field, read the price, and explore the coach's estimate. The details change, but the learning habit stays familiar. This makes the rotation feel like a connected journey through several kinds of pattern.

Use the orbit as a gentle chapter

At six seats, six completed hands make a chapter. At two seats, two hands do. The room displays the progress through that chapter, then names the next game as the next hand begins. Open the guide for the current chapter, or pause at the boundary to explore the coming rules.

Let the right forest take the chair

HORSE uses a separately fitted adviser for each component game. The current game chooses its own model before a decision is made. That preserves Omaha's exact-two rule, Razz's low ranking, and the split-pot fractions. The visible tree path belongs to the current chapter of the carousel.

WORKED HANDS

Worked hand 1 · Limit Hold'em

Follow the cards, then discover the estimate.

YOUR CARDS

6 ♥ 5 ♠

COMMUNITY BOARD

The flop is ahead.

Street	Opponents	Pot	Call	Made hand
preflop	1	30	10	High card

A view of the spot	Value
Moving rank zone	LIKELY · 9/13
WSRF pot share	43.5%
Monte Carlo share	39.6%
95% sampling interval	38.2% – 41.1%
Whole-pot frequency	36.8%
Sample count	4,096

Action	Policy score
Call 10	0.160
Fold	0.000
Raise to 40	-0.318

This independently generated teaching hand preserves your own cards and every exposed card, then samples the remaining cards uniformly. Fractional ties and split pots contribute the share actually earned. The interval describes sampling uncertainty under that model; the forest's estimate is a separate learned prediction.

Compare the action scores with the call price and the active field. They express the explicit betting policy's use of the learned share, rather than a fitted chip-return forecast. Opening a tree lets you follow the card features that helped produce the share estimate.

> **Can the WSRF estimate give this decision a useful starting point?**
>
> **Worked answer. Yes.** It estimates fractional showdown share with a forest trained specifically for Limit Hold'em. The policy connects that estimate with the price, field, and legal choices. Its suggested move here is call 10.

Study fixture holdem-1 · 4,096 samples · Independent namespace mixed-guide-independent. Cards, seeds, and measurements are preserved in the study receipt.

WORKED HANDS

Worked hand 2 · Omaha 8

Follow the cards, then discover the estimate.

YOUR CARDS

5 ♥ A ♥ 3 ♥ 9 ♣

COMMUNITY BOARD

The flop is ahead.

Street	Opponents	Pot	Call	Made hand
preflop	1	30	10	High card · Low possibilities ahead

A view of the spot	Value
Moving rank zone	LIKELY · 10/13
WSRF pot share	54.8%
Monte Carlo share	55.2%
95% sampling interval	54.0% – 56.5%
Whole-pot frequency	39.3%
Sample count	4,096

Action	Policy score
Call 10	0.273
Fold	0.000
Raise to 40	-0.161

This independently generated teaching hand preserves your own cards and every exposed card, then samples the remaining cards uniformly. Fractional ties and split pots contribute the share actually earned. The interval describes sampling uncertainty under that model; the forest's estimate is a separate learned prediction.

Compare the action scores with the call price and the active field. They express the explicit betting policy's use of the learned share, rather than a fitted chip-return forecast. Opening a tree lets you follow the card features that helped produce the share estimate.

> **Can the WSRF estimate give this decision a useful starting point?**
>
> **Worked answer. Yes.** It estimates fractional showdown share with a forest trained specifically for Omaha 8. The policy connects that estimate with the price, field, and legal choices. Its suggested move here is call 10.

Study fixture omaha8-1 · 4,096 samples · Independent namespace mixed-guide-independent. Cards, seeds, and measurements are preserved in the study receipt.

WORKED HANDS

Worked hand 3 · Razz

Follow the cards, then discover the estimate.

YOUR CARDS

8 ♥ 2 ♦ J ♣

Your exposed cards: J♣

Street	Opponents	Pot	Call	Made hand
third	1	4	0	J–8–2

A view of the spot	Value
Moving rank zone	UNLIKELY · 6/13
WSRF pot share	46.7%
Monte Carlo share	47.0%
95% sampling interval	45.5% – 48.6%
Whole-pot frequency	47.0%
Sample count	4,096

Action	Policy score
Bring in 5	0.001
Complete to 20	-0.315

This independently generated teaching hand preserves your own cards and every exposed card, then samples the remaining cards uniformly. Fractional ties and split pots contribute the share actually earned. The interval describes sampling uncertainty under that model; the forest's estimate is a separate learned prediction.

Compare the action scores with the call price and the active field. They express the explicit betting policy's use of the learned share, rather than a fitted chip-return forecast. Opening a tree lets you follow the card features that helped produce the share estimate.

> **Can the WSRF estimate give this decision a useful starting point?**
>
> **Worked answer. Yes.** It estimates fractional showdown share with a forest trained specifically for Razz. The policy connects that estimate with the price, field, and legal choices. Its suggested move here is bring in 5.

Study fixture razz-1 · 4,096 samples · Independent namespace mixed-guide-independent. Cards, seeds, and measurements are preserved in the study receipt.

WORKED HANDS

Worked hand 4 · Seven-Card Stud

Follow the cards, then discover the estimate.

YOUR CARDS

3 ♦ J ♥ Q ♠

Your exposed cards: Q♠

Street	Opponents	Pot	Call	Made hand
third	1	4	0	High card

A view of the spot	Value
Moving rank zone	LIKELY · 8/13
WSRF pot share	46.5%
Monte Carlo share	42.7%
95% sampling interval	41.2% – 44.3%
Whole-pot frequency	42.7%
Sample count	4,096

Action	Policy score
Bring in 5	0.001
Complete to 20	-0.317

This independently generated teaching hand preserves your own cards and every exposed card, then samples the remaining cards uniformly. Fractional ties and split pots contribute the share actually earned. The interval describes sampling uncertainty under that model; the forest's estimate is a separate learned prediction.

Compare the action scores with the call price and the active field. They express the explicit betting policy's use of the learned share, rather than a fitted chip-return forecast. Opening a tree lets you follow the card features that helped produce the share estimate.

> **Can the WSRF estimate give this decision a useful starting point?**
>
> **Worked answer. Yes.** It estimates fractional showdown share with a forest trained specifically for Seven-Card Stud. The policy connects that estimate with the price, field, and legal choices. Its suggested move here is bring in 5.

Study fixture stud-1 · 4,096 samples · Independent namespace mixed-guide-independent. Cards, seeds, and measurements are preserved in the study receipt.

WORKED HANDS

Worked hand 5 · Stud 8

Follow the cards, then discover the estimate.

YOUR CARDS

3 ♣ K ♠ 4 ♠

Your exposed cards: 4♠

Street	Opponents	Pot	Call	Made hand
third	1	4	0	High card · Low possibilities ahead

A view of the spot	Value
Moving rank zone	LIKELY · 7/13
WSRF pot share	45.7%
Monte Carlo share	43.8%
95% sampling interval	42.5% – 45.1%
Whole-pot frequency	32.1%
Sample count	4,096

Action	Policy score
Bring in 5	0.001
Complete to 20	-0.329

This independently generated teaching hand preserves your own cards and every exposed card, then samples the remaining cards uniformly. Fractional ties and split pots contribute the share actually earned. The interval describes sampling uncertainty under that model; the forest's estimate is a separate learned prediction.

Compare the action scores with the call price and the active field. They express the explicit betting policy's use of the learned share, rather than a fitted chip-return forecast. Opening a tree lets you follow the card features that helped produce the share estimate.

> **Can the WSRF estimate give this decision a useful starting point?**
>
> **Worked answer. Yes.** It estimates fractional showdown share with a forest trained specifically for Stud 8. The policy connects that estimate with the price, field, and legal choices. Its suggested move here is bring in 5.

Study fixture stud8-1 · 4,096 samples · Independent namespace mixed-guide-independent. Cards, seeds, and measurements are preserved in the study receipt.

WORKED HANDS

Worked hand 6 · Stud 8

Follow the cards, then discover the estimate.

YOUR CARDS

2 ♣ T ♥ Q ♣ 6 ♥ T ♣ 8 ♥ J ♦

Your exposed cards: Q♣ · 6♥ · T♣ · 8♥

Street	Opponents	Pot	Call	Made hand
seventh	1	14	0	One pair · Low possibilities ahead

A view of the spot	Value
Moving rank zone	LIKELY · 9/13
WSRF pot share	50.4%
Monte Carlo share	69.2%
95% sampling interval	67.8% – 70.5%
Whole-pot frequency	66.0%
Sample count	4,096

Action	Policy score
Check	0.005
Bet 40	-0.256

This independently generated teaching hand preserves your own cards and every exposed card, then samples the remaining cards uniformly. Fractional ties and split pots contribute the share actually earned. The interval describes sampling uncertainty under that model; the forest's estimate is a separate learned prediction.

Compare the action scores with the call price and the active field. They express the explicit betting policy's use of the learned share, rather than a fitted chip-return forecast. Opening a tree lets you follow the card features that helped produce the share estimate.

> **Can the WSRF estimate give this decision a useful starting point?**
>
> **Worked answer. Yes.** It estimates fractional showdown share with a forest trained specifically for Stud 8. The policy connects that estimate with the price, field, and legal choices. Its suggested move here is check.

Study fixture stud8-5 · 4,096 samples · Independent namespace mixed-guide-independent. Cards, seeds, and measurements are preserved in the study receipt.

PRACTICE

Six discoveries to keep

Affirmative questions, with the reason beside each answer.

Can a 20-chip call into an eligible 80-chip pot break even at a 20% share when betting ends with that call?

Worked answer. Yes. The call adds 20 to the final 100-chip pot. The break-even equation is 20/(80+20)=20%, with rake set to zero.

Can two tied low winners each receive a quarter of a 200-chip pot when one other player wins high alone?

Worked answer. Yes. The high half is 100, the low half is 100, and the two low winners divide that second half into 50 each.

Can 34 near cards among 50 unseen cards give a uniform near-card share of 68.0%?

Worked answer. Yes. Divide the physical near-card count by the unseen-card count. The result describes that bucket event in this worked hand.

Can four times as many independent samples roughly halve the standard error of an estimated mean?

Worked answer. Yes. Standard error scales with the reciprocal of the square root of the sample count. Multiplying the count by four doubles that square root.

Can your saved notebook retain the exact cards and choices needed to replay a hand?

Worked answer. Yes. The notebook stores the deal and action sequence, and the room reconstructs the hand through the rules engine.

Can a tree path help you discover which visible feature guided a prediction?

Worked answer. Yes. Follow each comparison from the root to the leaf. The complete forest then combines its tree predictions into the displayed estimate.

TRAINING

Meet your new forest

Actual pytoolzx / WSRF fitting, with the measured results beside it.

Game	Selected fit	Positions	Training showdowns	Test MAE
Limit Hold'em	compact	6,144	786,432	5.70 pp
Omaha 8	full	6,144	786,432	6.04 pp
Razz	full	6,144	786,432	4.86 pp
Seven-Card Stud	full	6,144	786,432	4.60 pp
Stud 8	full	6,144	786,432	4.41 pp

Each game receives 6,144 training positions, with 128 independently sampled showdowns at every position. Six equally represented pools combine opening, middle, and closing play with LIKELY and UNLIKELY moving-map labels. Private and public suit counts, exposed-board strength, and rank geometry give the forest a richer view. The fitted object is pytoolzx.wsrf.WSRFRegressor, and pytoolzx.indexrng.Index supplies independently named seed streams.

Compact and full forests are compared on 768 validation positions. The smaller validation error chooses the serving forest before a fresh 1,536-position test is evaluated. Validation labels use 384 samples; test labels use 512. MAE is the average absolute difference in estimated pot share, expressed here in percentage points.

Game / seats / practice style	Hands	BB / 100	Approx. 95% interval
Limit Hold'em / 6 / calling	1,536	66.0	46.8 to 85.3
Omaha 8 / 6 / calling	1,536	32.0	17.8 to 46.1
Razz / 6 / calling	1,536	151.3	126.8 to 175.7
Seven-Card Stud / 6 / calling	1,536	89.5	67.7 to 111.3
Stud 8 / 6 / calling	1,536	66.4	52.4 to 80.5

The complete-hand benchmark rotates the trained policy through every seat of each fresh deck. Its intervals use deck averages to respect the relationship between seat rotations. These named local practice styles define the scope of the measurements. The full receipt preserves every game, table size, and opponent row.

> **Can opening a tree and reading a receipt make WSRF learning tangible?**
>
> **Worked answer. Yes.** The tree shows how one prediction is reached, while the receipt connects that prediction to the fitted library, independent examples, model choice, and measured matches.

PRACTICE

Make the table your own

A practice path you can enjoy returning to.

Begin with a comfortable rhythm

Choose Gentle company and a relaxed pace. Leave automatic next hands enabled if you enjoy a continuous session, or choose each new hand yourself. The panel controls hold your exact place whenever you open an explanation.

Give one hand a question

Choose a question you can inspect: can this card complete the construction, can this price be expressed as a pot share, or can the tree show which input it used? The worked answer becomes useful when you can point to its reason on the table.

Explore with a practice peek

A peek makes the opposing cards visible for your exercise. The model continues to use its own cards and public observations, so its estimate stays comparable before and after your peek. The notebook marks that hand as practice and preserves the result.

Let the forest take a turn

The WSRF partner option lets the trained adviser play your seat using the explicit betting policy. Pause on a street that interests you and open the tree. Watch mode is a way to explore the model's choices; your own chair is ready whenever you switch back.

Keep a story to return to

Download a notebook from Options. It includes the deal and action sequence needed for exact replay, along with stacks, funding, completed hands, and HUD totals. Restore it in the same game and table size. A saved story can make the next visit feel like a continuation.

> **Can one clear observation make a session worthwhile?**
>
> **Worked answer. Yes.** A price understood, a low hand recognized, or a tree path followed gives you something concrete to bring into the next hand.

REFERENCE

Your pocket reference

Useful terms and a path to the underlying work.

Term	Meaning at these tables
Pot share	The fraction of a contested pot earned, including splits
Scoop	The whole contested pot comes to one player
Bring-in	The opening stud contribution selected by the door-card rule
Completion	Bringing an opening stud contribution to the full small bet
Exposed cards	Cards visible to everyone, retained as known cards
WSRF pool	One of six opening/middle/closing × LIKELY/UNLIKELY groups
Policy score	The explicit action comparison built around the learned equity
Notebook	Your local saved deal, actions, stacks, and history

VPIP counts voluntary entries on the opening street; OR counts opening raises or completions. AF divides bets plus raises by calls. WTSD counts showdowns among hands reaching the first draw street. WSD counts showdowns winning any contested pot, including ties. Read each percentage together with its completed-hand sample count.

Explore the background for this variant in Wikipedia's the fixed-limit mix overview. The room's specific stakes, cap, reopening, and odd-chip conventions are declared on page 3. The examples, exercises, UI, and training experiment in this guide are original to Lantern Poker.

Explore the worked-hand receipt, complete-hand match table, and training and reproduction notes. Return to the The HORSE Carousel table whenever you are ready.

> **Can curiosity connect the guide, the game, and the model?**
>
> **Worked answer. Yes.** A visible card, a reproducible example, and an inspectable tree let you follow the same idea through all three. Keep the question friendly and enjoy the discovery.