

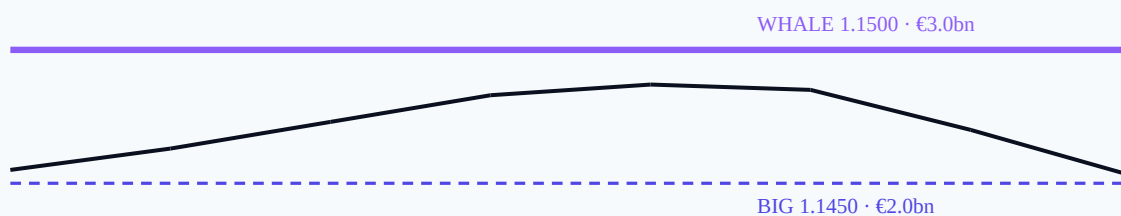
FX MERCATUS CODEX

Operator Tools Dossier

~50-page graded guide · schematics · step-by-step · worked examples

Paper research terminal only. Grades reflect clarity of edge and typical paper usefulness inside FMC, not guaranteed live P&L. Whale boards follow NY-cut FX option-expiry style notionals (archive from 2026-01-01). Literature study is a desk brief (PO3 wireframes × expiry pins) — no third-party PDF embed.

SCHEMATIC · OPTION EXPIRY MAGNET



Cover figure — Whales / Big Trades magnet map

How to read this dossier

Each chapter grades a live FMC panel, explains intuition, shows a schematic, lists steps, hard rules, fit/avoid, a worked example, and a checklist. Use it as an operator manual beside the desk — not as a signal service.

Suggested study path

- 1 Skim the grade table (next page).
- 2 Read Chart, GEX, Whales, Quant first (core path).
- 3 Add Flow + AGI + Journal (context loop).
- 4 Study the Literature brief (PO3 × pins) on the Study tab with chapter 17.
- 5 Run Scenarios A–E on paper before changing size habits.
- 6 Revisit ML, Astro, AI note last — supporting meters only.

Daily 20-minute desk ritual

- 1 Run all on your primary symbol.
- 2 Whales refresh + plot (FX) or skip.
- 3 Regime + Anomaly glance.
- 4 Pick playbook (MR vs trend).
- 5 One paper plan with journal tags.

Master grade table

#	Tool	Grade	Panel
1	Chart overlays (Trail · Cloud · Signals ·	A	#chart
2	Gamma levels (GEX)	A–	#chart · GEX panel
3	Whales & Big Trades (NY-cut FX option expi	A	#whales
4	Quant Academy (strategy dossiers)	A	#quant
5	Time-series momentum & Donchian (worked pl	A–	#quant · lxScript
6	Order flow (Footprint · Delta · CVD · Prof	B+	#flow
7	AGI stack (Regime · Swarm · Twin · Anomaly	B+	#agi
8	Journal & Experience Replay	B+	#journal
9	Macro · News · COT	B	#macro · #cot
10	Astro desk	C+	#astro
11	Multi-chart · Monitor · History	B	#multi · #hist
12	Liquidation heatmap	B	#liq
13	lxScript editor & backtests	B+	#editor
14	Machine learning next-bar forecast	B–	#ml
15	Paper trading bot	B	#bot
16	AI desk note	B–	#ai
17	Literature Study (Goldbach + investingLive	B+	#study
18	Auth · Live mode · Search · Motion UI	B	topbar

Contents

01. 01 · Chart overlays (Trail · Cloud · Signals · Structure) — Grade A
02. 02 · Gamma levels (GEX) — Grade A–
03. 03 · Whales & Big Trades (NY-cut FX option expiries) — Grade A
04. 04 · Quant Academy (strategy dossiers) — Grade A
05. 05 · Time-series momentum & Donchian (worked playbooks) — Grade A–
06. 06 · Order flow (Footprint · Delta · CVD · Profile) — Grade B+
07. 07 · AGI stack (Regime · Swarm · Twin · Anomaly · Ensemble · RAG) — Grade B+
08. 08 · Journal & Experience Replay — Grade B+
09. 09 · Macro · News · COT — Grade B
10. 10 · Astro desk — Grade C+
11. 11 · Multi-chart · Monitor · History — Grade B
12. 12 · Liquidation heatmap — Grade B
13. 13 · lxScript editor & backtests — Grade B+
14. 14 · Machine learning next-bar forecast — Grade B–
15. 15 · Paper trading bot — Grade B
16. 16 · AI desk note — Grade B–
17. 17 · Literature Study (Goldbach + investingLive) — Grade B+
18. 18 · Auth · Live mode · Search · Motion UI — Grade B
19. Worked multi-tool scenarios
20. Glossary & closing checklist

01 · Chart overlays (Trail · Cloud · Signals · Structure)

Grade A · Panel #chart

Highest daily utility. Structure tells you where you are; the trail tells you when you are wrong; the cloud frames mean support/resistance; signals are timing hints only.

Intuition

Think of the chart as a map, not a crystal ball. Smart Trail is a dynamic stop line that flips with trend. Neo Cloud (EMA 13/34 envelope) shows whether price is accepted above or below value. Order blocks and BOS/CHoCH mark where informed flow previously defended or broke structure. Confirmation signals fire when several of these agree — still not a standalone entry.

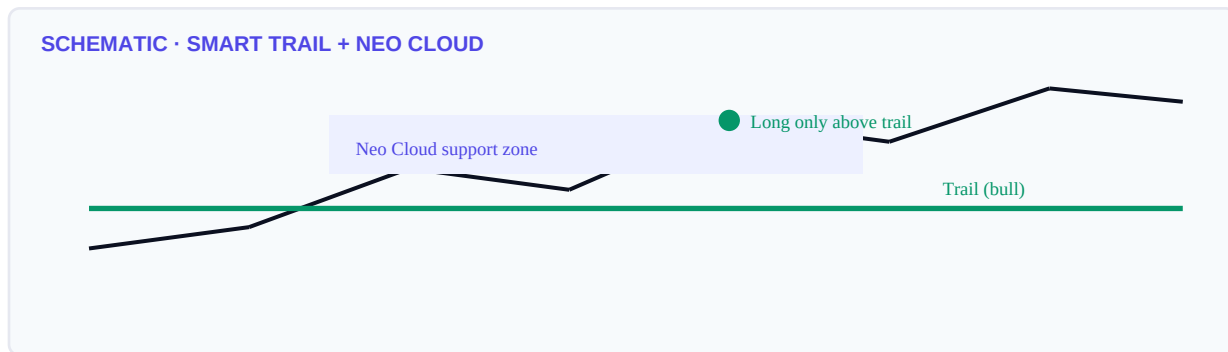


Figure — desk schematic for this tool

Step-by-step

- 1 Open Chart → enable Smart Trail, Neo Cloud, Signals, BOS/CHoCH, Order blocks.
- 2 Bias long only when price is above trail and cloud is supportive (price above cloud mid).
- 3 Bias short only when price is below trail and cloud is resistive.
- 4 Use signal flags as timing, never as the only reason to click.
- 5 Drag annotations freely — they are view aids; GEX math does not change when you drag.
- 6 Example: SPX above bullish trail, bullish BOS, confluence > 0 → paper long with trail as invalidation.
- 7 Counter-example: signal fires under trail in high_vol regime → ignore.

Hard rules

- Trail above = long permission; trail below = short permission.
- Cloud conflict with trail → cut size 50% or stand aside.
- One primary structure event (BOS/CHoCH) per thesis — do not stack contradictory labels.

Best for / Avoid when

Best for: Swing and intraday structure traders; Anyone who overtrades against trend

Avoid when: News spikes before structure reforms; Using signals alone on 1m noise

Worked example

EURUSD London: price reclaims trail after Asian chop, bullish BOS prints, Neo Cloud turns support. Paper long; exit if trail flips or whale pin fails after NY cut.

Pre-flight checklist

- Trail direction clear
- Cloud agrees
- Structure event logged
- Risk defined at trail
- Journal tag: structure

Operator notes

Wheel zooms, drag pans, shift+drag box-zooms. Fullscreen and Export PNG live in chart actions. Object tree lists every annotation so you can hide clutter.

02 · Gamma levels (GEX)

Grade A– · Panel #chart · GEX panel

Maps where dealers may hedge. Best as a filter and magnet map, not a prophecy.

Intuition

Call wall = large positive call gamma above; put floor below; gamma flip is where regime often changes. In positive GEX, mean-reversion toward flip is more common. In negative GEX, trends can run as dealers chase.

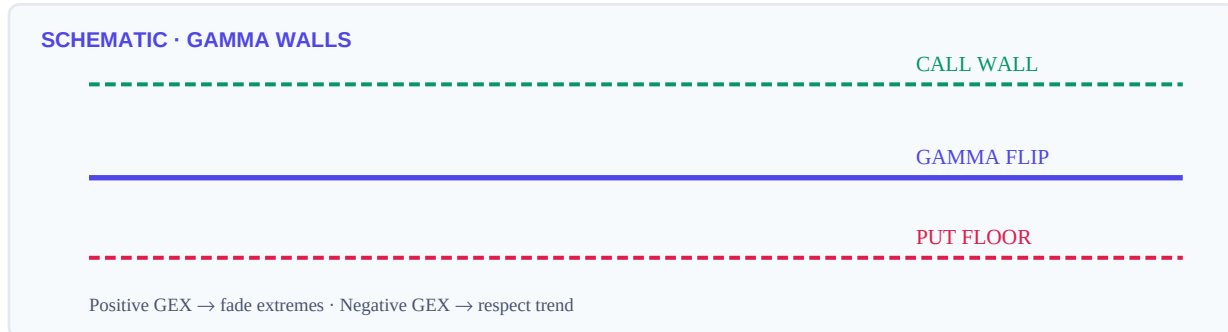


Figure — desk schematic for this tool

Step-by-step

- 1 Run all so GEX profile builds (synthetic chain or paste your own).
- 2 Enable Gamma levels toggle on the chart.
- 3 Note flip, call wall, put floor relative to spot.
- 4 Fade spikes into walls only when Regime ≠ high_vol.
- 5 Example: spot approaches call wall with quiet CVD → trim longs / fade carefully.
- 6 Paste custom chain (strike, call OI, put OI, IV, DTE) when you have real data.

Hard rules

- Never size solely on GEX
- Walls move — rebuild after Run all
- Combine with Whales on FX

Best for / Avoid when

Best for: Index / ETF desks; Options-aware spot traders

Avoid when: Treating walls as brick walls overnight; Ignoring chain_source = synthetic

Worked example

SPX under call wall, positive GEX regime note, trail still bullish → hold swing long but take partial at wall.

Pre-flight checklist

- Chain source known
- Flip marked
- Wall distance measured
- Regime checked

Operator notes

Formula reminder: $GEX \approx \gamma \cdot OI \cdot \text{contract multiplier} \cdot S^2 \cdot 0.01$ with puts negated (SpotGamma-style convention). Units show as bn of dollar gamma.

03 · Whales & Big Trades (NY-cut FX option expiries)

Grade A · Panel #whales

Large notionals into the 10:00 New York cut can pin or congest spot for hours via dealer hedging.

Intuition

Whales ($\geq \sim \$1\text{bn}$) are thick magnets. Big Trades ($\geq \sim \$0.5\text{bn}$) are secondary. Far strikes (e.g. USDJPY 155 when spot is 157) are noise. Macro catalysts overwhelm pins.

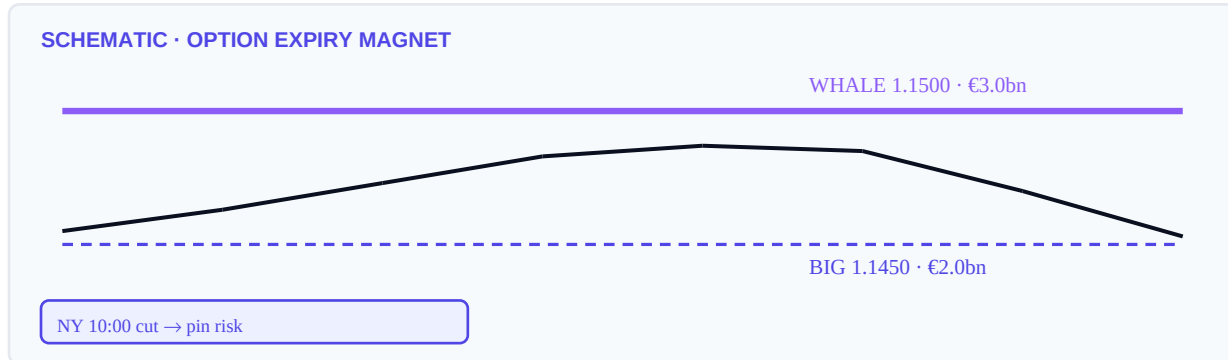


Figure — desk schematic for this tool

Step-by-step

- 1 Switch Market to an FX pair (EURUSD, USDJPY, ...).
- 2 Open Whales → Refresh today → Plot on chart.
- 3 Enable Whales + Big Trades toggles.
- 4 Before the cut: favour containment if bold strikes bracket spot.
- 5 After the cut: drop the pin thesis.
- 6 History archive from 2026-01-01 supports journal research.
- 7 Example (18 Sep 2026): EURUSD 1.1450 / 1.1500 sandwich — expect stickier trade if bonds calm.

Hard rules

- Near spot only
- Context not direction
- Catalyst kills pin

Best for / Avoid when

Best for: FX intraday; Overlap London–NY

Avoid when: Crypto alts; Far OTM billions as targets

Worked example

USDJPY spot near 157.00 with bold expiry at 157.00 → chop / gravity; ignore 155.00 \$5.5bn unless a crash closes the gap.

Pre-flight checklist

- Pair is FX
- Distance to strike $< \sim 0.15\text{--}0.20\%$
- Calendar clear
- Journal reaction

Operator notes

Source lineage: investingLive-style NY-cut boards (e.g. Justin Low, 18 Sep 2026). Live fetch attempts when parseable; otherwise seeded archive still plots.

04 · Quant Academy (strategy dossiers)

Grade A · Panel #quant

Self-contained research cards with schematics, steps, fit quiz, and runnable IxScript — no outbound encyclopedia links.

Intuition

Ten families cover momentum, mean reversion, seasonality, hedging, microstructure, and pairs teaching forms. Study guide first; Load & backtest second; live size never first.

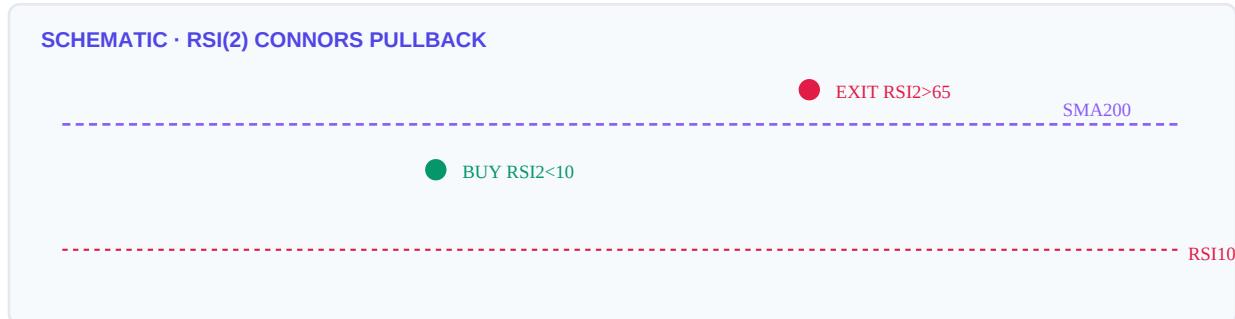


Figure — desk schematic for this tool

Step-by-step

- 1 Quant → filter by family or Find my fit.
- 2 Open Study guide → read schematic + steps + checklist.
- 3 Load & backtest into IxScript editor.
- 4 Paper with journal tags matching the family.
- 5 Example: $RSI(2) < 10$ and close $> SMA200$ → long; exit $RSI2 > 65$.

Hard rules

- One strategy thesis per week while learning
- Walk-forward before believing equity curves
- Match Regime to family

Best for / Avoid when

Best for: Systematic learners; Traders who need written rules

Avoid when: Loading five scripts at once; Optimising thresholds on one week

Worked example

Fit quiz says fade extremes + 1–5 days + indices → RSI2 and Bollinger rank top.

Pre-flight checklist

- Dossier read
- Checklist passed
- Backtest reviewed
- Regime agrees

Operator notes

Strategies include TSMOM, Bollinger fade, vol-target trend, session drift, RSI2, Donchian, VWAP fade, bear hedge, crypto skip-momentum, pairs z-score.

05 · Time-series momentum & Donchian (worked playbooks)

Grade A– · Panel #quant · IxScript

Classic trend sleeves. Low win rate, right-tail winners, vol scaling mandatory.

Intuition

TSMOM signs the N-bar return and sizes by $1/\sigma$. Donchian buys 20-bar highs and exits on 10-bar opposite extremes. Both die in tight ranges — use Regime gate.



Figure — desk schematic for this tool

Step-by-step

- 1 Load TSMOM or Donchian from Quant Academy.
- 2 Confirm Regime = trend_up or trend_dn.
- 3 Accept whipsaws; do not 'improve' by skipping breakouts.
- 4 Example: BTC 4-week mom with skip-last-bars → long if formation > 0.

Hard rules

- Vol target on
- Costs modelled
- Win rate is not the KPI

Best for / Avoid when

Best for: Futures / crypto majors; Swing horizons

Avoid when: Chop years without filter

Worked example

Donchian long on EURUSD 20-bar high while whale board is empty and trail bullish.

Pre-flight checklist

- Trend regime
- Size capped
- Exit rule written

Operator notes

Pair with bear-hedge overlay when price is under long SMA and vol expands.

06 · Order flow (Footprint · Delta · CVD · Profile)

Grade B+ · Panel #flow

Shows aggression vs absorption. Noisy alone; powerful against a pre-marked level.

Intuition

Footprint stacks show where volume traded at price. Delta and CVD show who was aggressive. Volume profile shows acceptance. Absorption = aggressive orders fail to move price.

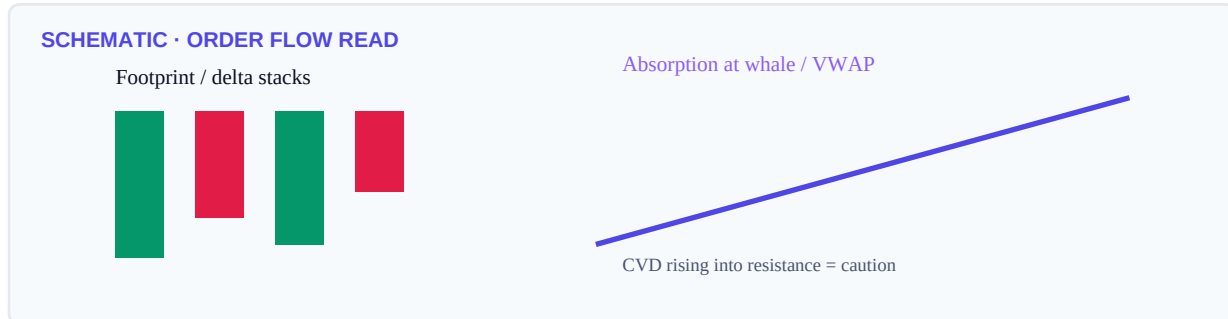


Figure — desk schematic for this tool

Step-by-step

- 1 Open Flow → Refresh on your TF.
- 2 Use pan / box zoom / zoom tools in the flow toolbar.
- 3 Look for CVD divergence into whale, GEX wall, or VWAP.
- 4 Example: positive delta stalling under whale strike → take-profit / fade zone.

Hard rules

- Level first, flow second
- Thin hours lie
- One absorption read per setup

Best for / Avoid when

Best for: Intraday FX / indices; Scalpers with discipline

Avoid when: Illiquid symbols; Using CVD as trend oracle

Worked example

AUDUSD into 0.7200 whale: CVD rises, footprint shows unfinished auction then absorption → fade.

Pre-flight checklist

- Level marked
- Session liquid
- Invalidation set

Operator notes

Flow is reconstructed/research-grade on synthetic tapes; treat live mode as still paper.

07 · AGI stack (Regime · Swarm · Twin · Anomaly · Ensemble · RAG)

Grade B+ · Panel #agi

Context engines that stop the wrong playbook. They advise; they do not print money.

Intuition

Regime Classifier picks trend / mean-revert / high-vol / quiet. Anomaly Sentinel flags extremes. Ensemble / Swarm debate. Digital Twin shocks the book. Emotion Mirror and Experience Replay close the human loop.

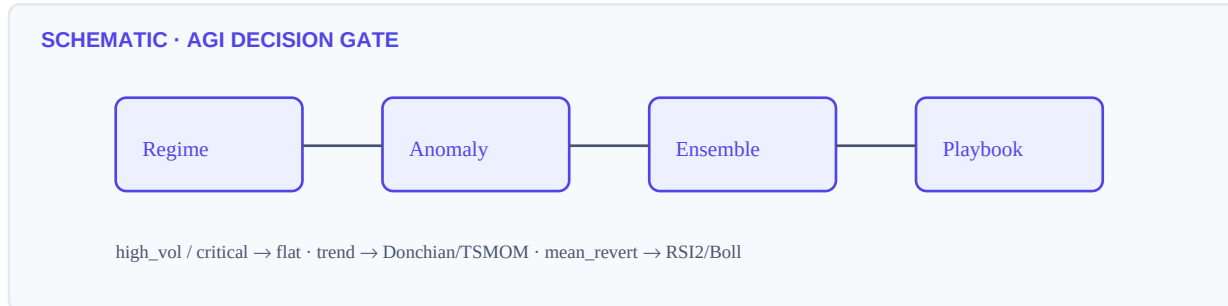


Figure — desk schematic for this tool

Step-by-step

- 1 After Run all, open AGI → run bundle / swarm as needed.
- 2 If Regime = mean_revert → Bollinger / RSI2 / VWAP.
- 3 If Regime = trend → Donchian / TSMOM / vol-target.
- 4 If Anomaly = critical → flat.
- 5 Ask RAG a focused question with desk context filled.

Hard rules

- Never override critical anomaly with hope
- Twin shocks are hypothetical
- Swarm dissent is a feature

Best for / Avoid when

Best for: Traders who force setups; Multi-strategy desks

Avoid when: Blindly following prose

Worked example

Regime quiet + whale bracket → MR; twin shows −1% shock blows stop → cut size.

Pre-flight checklist

- Bundle fresh
- Regime noted
- Anomaly clear
- Playbook chosen

Operator notes

Top ideas rail summarises the ten engines. Use Journal mood with Emotion Mirror before increasing risk.

08 · Journal & Experience Replay

Grade B+ · Panel #journal

Turns anecdotes into weights. Without logging, tools never compound skill.

Intuition

Every paper trade needs thesis, mood, tags (whale-pin, goldbach, mr-fade, breakout). AI post-mortem is optional. Replay reweights what actually paid you.

Step-by-step

- 1 Log entry after each paper trade.
- 2 Tag tool used (whales, rsi2, donchian, ...).
- 3 Weekly: run Experience Replay.
- 4 Cut strategies that only work when mood is calm if your real mood is not.

Hard rules

- No tag → no lesson
- Honesty over PR
- Review losers first

Best for / Avoid when

Best for: Everyone past week one

Avoid when: Bulk fake journals

Worked example

Ten whale-pin fades: 6 wins when CVD absorbed, 4 losses when Anomaly critical — filter added.

Pre-flight checklist

- Thesis
- Mood
- Tag
- Screenshot optional
- Review date

Operator notes

Journal stores locally (JSONL). Sign-in prefs can remember symbol/TF but trades stay paper.

09 · Macro · News · COT

Grade B · Panel #macro · #cot

Calendar risk and positioning context — not an entry trigger.

Intuition

High-impact prints (CPI, NFP, FOMC, BOJ) can erase pin and Goldbach mean-reversion. COT shows speculative vs commercial leaning on futures.

Step-by-step

- 1 Before sizing a whale pin, scan Macro calendar for that day.
- 2 Read headlines for catalyst language.
- 3 Check COT for extreme positioning on related futures.
- 4 Example: FOMC day → half size or skip pins.

Hard rules

- Calendar first on event days
- COT is slow — weekly lens
- News is context

Best for / Avoid when

Best for: FX and indices

Avoid when: Trading the headline alone

Worked example

EURUSD whale bracket + empty calendar + calm yields → allow MR; same bracket into FOMC → flat.

Pre-flight checklist

- Week filter
- Impact filter
- Next event time known

Operator notes

Calendar uses ForexFactory weekly JSON; COT uses CFTC public data; headlines via Yahoo RSS where mapped.

10 · Astro desk

Grade C+ · Panel #astro

Optional confluence. Never the sole reason to trade.

Intuition

Planetary positions, aspects, and lunar cycle are journal tags until you prove an edge out-of-sample.

Step-by-step

- 1 Open Astro after the primary thesis is set.
- 2 If you use it, log as soft confluence only.
- 3 Do not increase size because of a lunar phase alone.

Hard rules

- Primary tools first
- Paper only for astro tests
- No mystique in risk

Best for / Avoid when

Best for: Curious researchers

Avoid when: Beginners seeking certainty

Worked example

Structure + whale + calm macro already aligned; astro noted in journal as optional tag.

Pre-flight checklist

- Primary thesis exists
- Astro not sizing input

Operator notes

Wheel is visual; treat as atmosphere, not signal.

11 · Multi-chart · Monitor · History

Grade B · Panel #multi · #hist

Situational awareness across symbols and time.

Intuition

Keep EURUSD+Whales beside DXY or yields proxy. Monitor mode boards many markets. History loads long-run OHLC and CSV export for offline study.

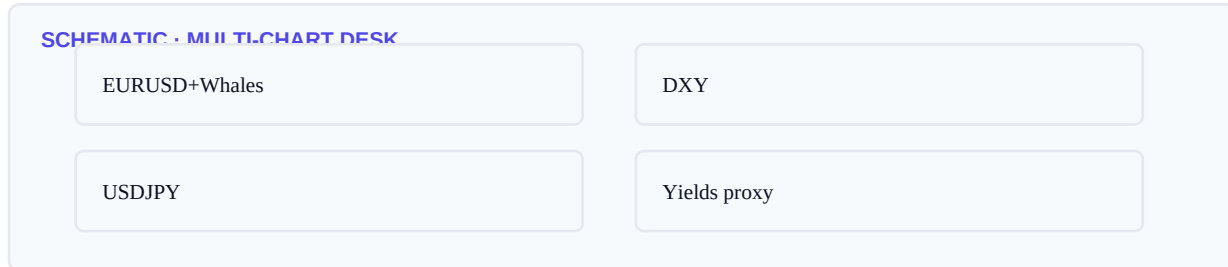


Figure — desk schematic for this tool

Step-by-step

- 1 Multi → set 2–4 panes → assign symbols/TFs.
- 2 History → pick interval/range → Load → export CSV if needed.
- 3 Example: whale pin on EURUSD while DXY breaks structure → distrust pin.

Hard rules

- One thesis across panes
- Don't overclock 1m everywhere

Best for / Avoid when

Best for: Cross-asset thinkers

Avoid when: Four unrelated gambling panes

Worked example

USDJPY whale at 157 + BOJ headline on Macro + Multi shows risk-on equities — expect chop not clean trend.

Pre-flight checklist

- Panes labelled
- Shared session
- CSV archived if researching

Operator notes

Replay on the main chart animates bars for teaching — use with journal.

12 · Liquidation heatmap

Grade B · Panel #liq

Crypto/futures magnets from leveraged liquidation clusters — rhyme with whale pins.

Intuition

Clusters above/below mark where forced flow may cascade. Not a guarantee of touch.

Step-by-step

- 1 Open Liquidity after selecting BTC/ETH or futures-like symbols.
- 2 Note magnets above and below.
- 3 Combine with structure; fade only with absorption.

Hard rules

- Research/synthetic aware
- Cascade ≠ always fill

Best for / Avoid when

Best for: Crypto swing

Avoid when: Spot FX majors as primary

Worked example

BTC liquidation shelf under price + Donchian long → trail wider; don't pyramid into shelf.

Pre-flight checklist

- Symbol relevant
- Magnets listed
- Risk capped

Operator notes

Treat as cousin to Whales: both are forced-flow maps with different microstructure.

13 · IxScript editor & backtests

Grade B+ · Panel #editor

Write indicators/strategies, plot, and backtest in a worker sandbox.

Intuition

Inputs: bars, OHLC arrays, ta helpers (sma, ema, rsi, atr, stdev, vwap, highest, lowest, cross). Return plots and optional positions. No DOM, no network in the worker.

Step-by-step

- 1 Load a Quant Academy script or write your own.
- 2 Run → read Live Lens + equity stats.
- 3 Iterate thresholds only with walk-forward mindset.
- 4 Example: modify RSI exit from 65 → 70; compare OOS, not cherry-picked week.

Hard rules

- Sandbox only
- Positions $\in [-1, 1]$ typically
- Costs matter

Best for / Avoid when

Best for: Builders; Systematic traders

Avoid when: Curve-fitting in-sample

Worked example

Connors RSI2 script loaded from academy; Live Lens shows last RSI=8; backtest hit rate $\neq$ expectancy — check avg win/loss.

Pre-flight checklist

- Script runs clean
- Lens sane
- Stats understood

Operator notes

Kata / templates help scaffold. Console prints errors — fix contracts, don't silence them.

14 · Machine learning next-bar forecast

Grade B– · Panel #ml

Honest walk-forward logistic read on oscillator features. Often no edge — and it will say so.

Intuition

$p(\text{up})$ is a probability, not a command. If OOS hit rate sits on baseline, stand down.

SCHEMATIC · ML NEXT-BAR FORECAST

Features: oscillators · confluence · money flow

Model: walk-forward logistic regression

Readout: $p(\text{up})$ vs baseline hit rate

If OOS $\approx$ baseline $\rightarrow$ no edge — do not size from ML alone

Figure — desk schematic for this tool

Step-by-step

- 1 Run all $\rightarrow$ read ML ring ($p(\text{up})$, OOS, baseline).
- 2 If OOS $\approx$ baseline $\rightarrow$ ignore for sizing.
- 3 If edge appears, still require structure/regime agreement.

Hard rules

- Baseline comparison mandatory
- Never sole entry

Best for / Avoid when

Best for: Skeptics who want a meter

Avoid when: Believers seeking certainty

Worked example

$p(\text{up})=0.56$ but OOS=baseline $\rightarrow$ no trade from ML; whale pin still valid on its own rules.

Pre-flight checklist

- OOS read
- Baseline read
- Structure agree?

Operator notes

Feature weights panel shows what the model leaned on — use for curiosity, not overfitting.

15 · Paper trading bot

Grade B · Panel #bot

Forces rule adherence with transparent filters (signal, GEX, ATR risk).

Intuition

Bot is a discipline machine. Configure filters, step bars, read blotter and log. No broker.

SCHEMATIC · PAPER BOT PIPELINE



No broker — paper only. Rules must pass before size grows.

Figure — desk schematic for this tool

Step-by-step

- 1 Load strategy thesis (manual or script).
- 2 Enable GEX filter if relevant.
- 3 Reset → Step / Run → read equity and log.
- 4 Example: long only when confluence > 0 and above put floor.

Hard rules

- Paper only
- Log every change
- Don't raise ATR risk after a win streak

Best for / Avoid when

Best for: Rule learners

Avoid when: Using bot P&L; as live expectancy

Worked example

Bot paused into FOMC via config; resumed next session.

Pre-flight checklist

- Filters on
- Risk capped
- Journal synced

Operator notes

Blotter + bot log are teaching surfaces — screenshot into journal.

16 · AI desk note

Grade B– · Panel #ai

Readable regime narrative from local/host model context. Prose is not a position.

Intuition

After Run all, ask for a short regime note. Compare to your checklist. Discard contradictions.

Step-by-step

- 1 Run all → AI → Write note.
- 2 Highlight agreements with structure/whales/regime.
- 3 Ignore actionable-sounding language without levels.

Hard rules

- Checklist > prose
- No size from sentences

Best for / Avoid when

Best for: Journaling aid

Avoid when: Outsourcing decisions

Worked example

Note says 'bullish' but trail is bearish and Anomaly critical → flat.

Pre-flight checklist

- Note saved
- Conflicts listed

Operator notes

Host model depends on AGENT_HOST_PROVIDER / keys in env — local Ollama preferred for privacy.

17 · Literature Study (Goldbach + investingLive)

Grade B+ · Panel #study

Embeds goldbach_trading_2024_02.pdf and a short literature pack bridging PO3/Goldbach with NY-cut expiries.

Intuition

Goldbach (HOPIPLAKA 2024.02): Step1 PO3 range (3), Step2 Goldbach wireframe (6), Step3 AMD/time (9). investingLive boards supply short-term pin context. Overlap mean threshold with bold expiry → stronger containment thesis.

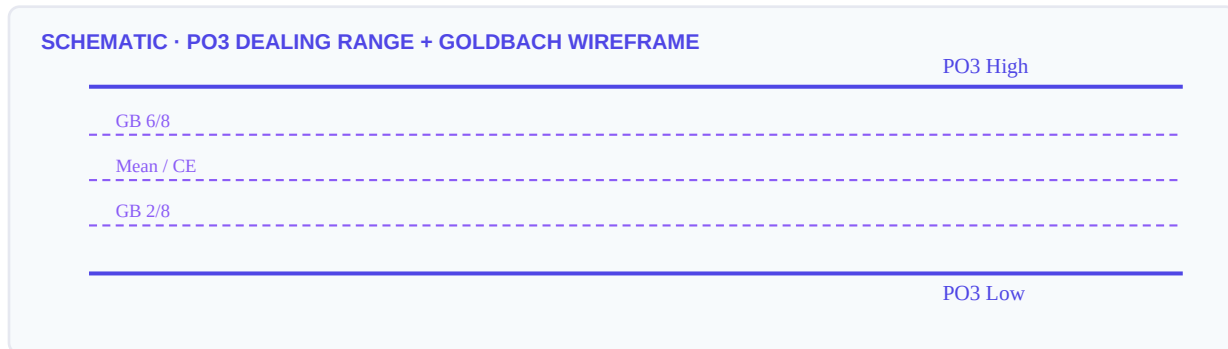


Figure — desk schematic for this tool

Step-by-step

- 1 Study tab → read assessment cards.
- 2 Scroll embedded Goldbach PDF (cheat sheets first).
- 3 Mark PO3 high/low as notes near Whales lines.
- 4 Example: EURUSD 1.1450–1.1500 bracket overlaps Goldbach mean → MR bias until catalyst.

Hard rules

- Goldbach ≠ guaranteed levels
- Expiry influence dies after cut
- Paper-test overlaps

Best for / Avoid when

Best for: Traders studying ICT-adjacent maps carefully

Avoid when: Numerology without risk

Worked example

12-minute routine: Goldbach cheat sheet → Whales board → overlap → pick MR vs breakout → journal.

Pre-flight checklist

- PDF open
- Board date known
- Overlap marked
- Playbook chosen

Operator notes

PDFs also live in Desktop/FX Mercatus Codex/PDFs/. Download from Study or </api/library/goldbach.pdf>.

18 · Auth · Live mode · Search · Motion UI

Grade B · Panel topbar

Housekeeping that keeps the desk usable.

Intuition

Synthetic vs Live toggles data source (Yahoo/etc. when live). Sign-in stores local prefs. ■K Super Search jumps tools. Tabs scroll; Sections menu on narrow widths.

Step-by-step

- 1 Use Synthetic for teaching; Live for real quotes still paper-traded.
- 2 Sign in to persist TF/symbol prefs.
- 3 ■K to search panels/tools.
- 4 If tabs clip, use Sections ■ or widen the window.

Hard rules

- Live ≠ broker
- Prefs are local

Best for / Avoid when

Best for: Daily operators

Avoid when: Assuming live fills

Worked example

Live EURUSD + Whales plot + Synthetic bot still paper.

Pre-flight checklist

- Source pill correct
- Tabs reachable

Operator notes

Custom cursor / motion are optional polish — disable OS-side if distracting.

19 · Worked multi-tool scenarios

These scenarios force tool combination. Run them on the paper desk with journal tags.

Scenario A — EURUSD containment day (18 Sep 2026 style)

Spot near 1.1480 with bold expiries at 1.1450 and 1.1500 (investingLive NY-cut narrative). Bonds calm. Regime quiet/mean_revert. Trail flat-to-mild bull.

Playbook

- 1 Plot Whales; draw band 1.1450–1.1500.
- 2 Prefer fades toward mid-band; avoid breakout size.
- 3 Optional: Goldbach mean inside band adds confluence.
- 4 Flat into surprise yield spike.
- 5 Journal tag: expiry-pin + mr-fade.



Scenario figure — expiry bracket

Scenario B — USDJPY near 157 with far 155 whale

Bold 157.00 near spot; \$5.5bn at 155.00 is >200 pips away. Post-BOJ yen soft.

Playbook

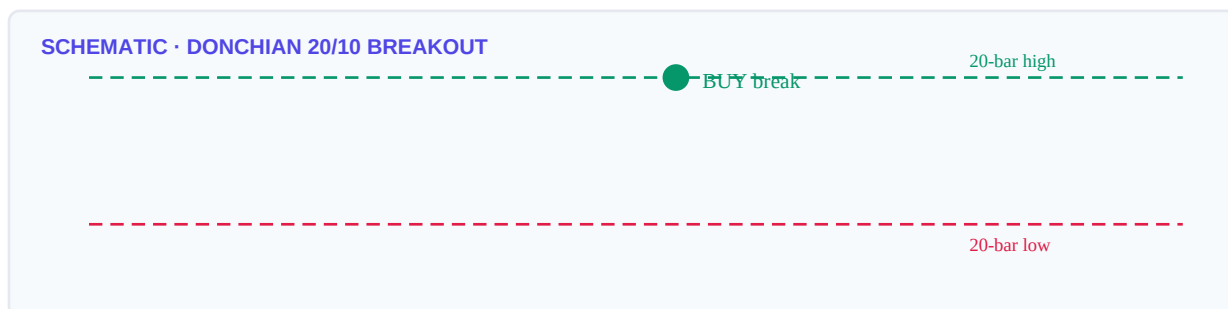
- 1 Respect 157 as chop magnet into cut.
- 2 Ignore 155 unless cascade closes distance.
- 3 Use Flow for absorption at 157; Trail for invalidation.
- 4 Do not invent a long just because a far whale exists.

Scenario C — Trend day with empty nearby board

Regime trend_up, Donchian break, no nearby whale, Anomaly clear.

Playbook

- 1 Load Donchian / TSMOM.
- 2 Vol-target size.
- 3 Trail as stop.
- 4 Skip MR academy scripts today.



Scenario figure — breakout channel

Scenario D — FOMC / high-impact day

Beautiful whale bracket + Goldbach overlap, but Macro shows FOMC.

Playbook

- 1 Cut size to zero or tiny probe only.
- 2 Bot paused.
- 3 After release, rebuild structure before re-engaging pins.

Scenario E — Crypto momentum with liquidation shelf

BTC skip-period momentum long; liquidation magnets just overhead.

Playbook

- 1 Keep mom signal but tighten risk under shelf.
- 2 No pyramid into liquidation cluster.
- 3 Journal funding/weekend notes.

Scenario drills — check-yourself questions

Drill 1

You see a whale 80 pips away and a signal flag. Trade? Why?

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 2

Regime=high_vol, RSI2<10 above SMA200. Trade Connors? Why?

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 3

GEX call wall coincides with whale. What changes in size?

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 4

Bot wants long; Emotion Mirror shows revenge mood. Action?

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 5

ML p(up)=0.61 but OOS=baseline. How do you use it?

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 6

Goldbach mean at 1.1470, whale band 1.1450–1.1500, FOMC in 40 minutes.

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 7

Donchian breaks while Flow shows absorption at the breakout bar.

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 8

Live mode on; still paper. What does the source pill mean for risk?

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 9

Two Quant scripts contradict. What gate picks the winner?

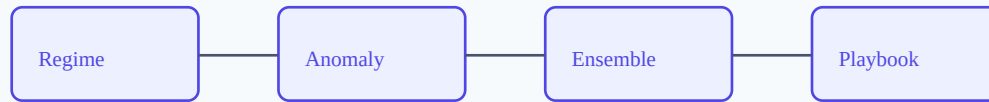
Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

Drill 10

After NY cut, whale lines still on chart. What do you do?

Write your answer in the journal before revealing your 'preferred' FMC answer: near magnets + calm regime + checklist beat distant notionals, contradictory signals, or revenge mood.

SCHEMATIC · AGI DECISION GATE



high_vol / critical → flat · trend → Donchian/TSMOM · mean_revert → RSI2/Boll

Figure — always gate playbooks through Regime / Anomaly

Quant family field cards (quick reference)

Momentum / Trend

TSMOM, Donchian, crypto skip-mom, vol-target — use in trend regimes; vol scale; accept whipsaw.

Mean reversion

Bollinger fade, RSI2, VWAP fade — use in quiet/mean_revert; fade closes beyond bands; exit mid.

Seasonality / session

Overnight/session drift — hour filter only; re-validate yearly.

Hedging

Bear overlay — cut beta under long SMA when vol expands; overlay not hero trade.

Stat-arb teaching

Pairs z-score — stop on structural break; thesis required.

SCHEMATIC · RSI(2) CONNORS PULLBACK

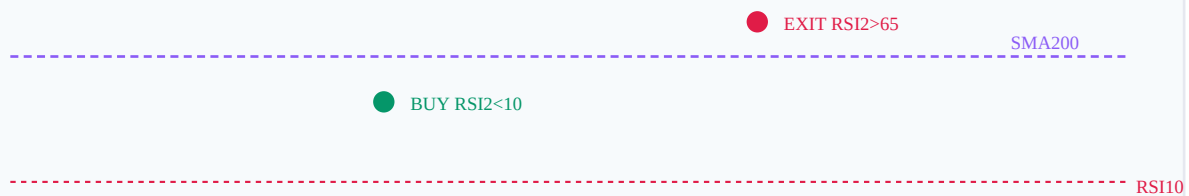


Figure — RSI2 field card visual

SCHEMATIC · SMART TRAIL + NEO CLOUD



Figure — trail permission visual

Goldbach literature bridge (deeper)

The embedded book **goldbach_trading_2024_02.pdf** (HOIPLAKA, 2024.02, ~190 pages) maps price with PO3 dealing ranges and Goldbach levels, using a 3-6-9 scaffold inspired by Tesla vortex numerics as interpreted by the author. It uses some ICT vocabulary while stating there is no affiliation. FMC grade for the PDF as a study object: B+.

Three-step learning path from the book

- 1 Define dealing range with PO3.
- 2 Wireframe Goldbach price areas inside the range (role of 6).
- 3 Time with AMD cycles and look-backs (role of 9).

SCHEMATIC · PO3 DEALING RANGE + GOLDBACH WIREFRAME



Figure — PO3 box with Goldbach wireframe

Bridge to investingLive expiries

On 18 September 2026, investingLive highlighted EUR/USD 1.1450 and 1.1500 as bold expiries sandwiching spot, plus USD/JPY 157.00 near spot and a distant 155.00 \$5.5bn print. Treat as short-term context. When a Goldbach mean sits inside that EURUSD band, FMC's synthesis favours containment/MR until a catalyst appears.

Quote (paraphrase of desk guidance): levels are context, not directional signals; macro can overwhelm expiry flows.

20 · Glossary

AMD — Accumulation–Manipulation–Distribution timing cycle used in Goldbach time chapter.

BOS / CHoCH — Break of structure / change of character — market structure events on the chart.

CVD — Cumulative volume delta — running sum of aggressive buy vs sell volume.

GEX — Gamma exposure — dealer hedging pressure map.

NY cut — 10:00 New York FX option expiry cut commonly watched by desks.

PO3 — Power of Three dealing range size concept from Goldbach literature.

Whale — In FMC: FX option expiry notionals roughly $\geq$ \$1bn (bold board levels).

Big Trade — In FMC: material expiry notionals roughly $\geq$ \$0.5bn.

IxScript — FMC's sandboxed JavaScript strategy/indicator language.

Regime — AGI classification: trend, mean-revert, high-vol, quiet, etc.

Closing master checklist

- Source pill understood (synthetic vs live).
- Regime + Anomaly checked.
- Whales plotted only on FX when relevant.
- Playbook matches regime.
- Risk defined (trail / ATR / invalidation).
- Journal tagged before emotional peak.
- No size from AI prose or ML alone.
- Paper only — no broker connection in FMC.

End of dossier. Re-generate anytime via the Guide tab or `/api/dossier.pdf`. Keep PDFs in Desktop/FX Mercatus Codex/PDFs/ alongside Goldbach originals.

© FX Mercatus Codex — local paper terminal. No broker connection.

Cheat sheet — Chart

- Trail permission
- Cloud agree
- Structure event
- Signal timing only
- Invalidation = trail flip

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Cheat sheet — GEX

- Find flip
- Note walls
- Regime note
- Fade only if calm
- Know chain source

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Cheat sheet — Whales

- FX symbol
- Near strike
- Before NY cut
- Catalyst check
- Remove after cut

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Cheat sheet — Quant

- Study guide
- Checklist
- Backtest
- Regime match
- One thesis

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Cheat sheet — Flow

- Level first
- Absorption
- CVD diverge
- Liquid hours
- Small size

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Cheat sheet — AGI

- Bundle
- Regime
- Anomaly
- Pick family
- Twin optional

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Cheat sheet — Journal

- Thesis
- Mood
- Tags
- Review weekly
- Replay

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Cheat sheet — Bot

- Filters
- ATR cap
- Step
- Log
- Pause events

Use this page as a printed desk card. If any box fails, you do not have a trade — you have a wish.

Remember: FMC is a research cockpit. Overlays follow independent implementations inspired by common desk tools (structure, oscillators, dealer gamma conventions). Educational use only.

Appendix A · Four-week operator curriculum

Week 1 — Map the desk

- 1 Day 1–2: Chart overlays only. Journal every trail flip.
- 2 Day 3: Add GEX walls; note distance to spot.
- 3 Day 4: Whales on EURUSD/USDJPY; no size, only observation.
- 4 Day 5: Write one page: which magnets actually mattered.
- 5 Weekend: Read Goldbach prologue + learning path (Study tab).

Week 2 — One Quant family

- 1 Pick MR or Trend from Fit quiz — not both.
- 2 Load one IxScript; backtest; paper 10 signals max.
- 3 Gate every signal with Regime.
- 4 Friday: Replay journal; drop rules that never fired.

Week 3 — Confluence

- 1 Require level (whale/GEX/Goldbach) + flow or structure.
- 2 Bot on with tight ATR; pause for red calendar.
- 3 Ignore ML/AI unless they agree with checklist.
- 4 One multi-chart layout only (FX + DXY).

Week 4 — Stress & honesty

- 1 Run Twin shocks on open paper risk.
- 2 Anomaly=critical drills: force flat.
- 3 Present yourself a scenario A–E blind quiz.
- 4 Decide which two tools you will master next month.

Appendix B · FAQ

Is FMC connected to a broker?

No. Paper research only. Live mode means real-world quotes, not live execution.

Why do whale lines vanish on weekends?

NY-cut boards are session products. FMC falls back to the last weekday board.

Why is chain_source synthetic?

Without a pasted options chain, GEX uses a synthetic surface for teaching.

Can I trust Goldbach numbers literally?

Treat as a map. Paper-test overlaps with Whales/GEX before any size habit.

What if tabs disappear?

Widen the window or use Sections ■. Tabs scroll horizontally on mid widths.

Which PDF is the 50-page dossier?

FMC_Tools_Dossier.pdf in the PDFs folder and Guide tab download.

Which PDF is Goldbach?

goldbach_trading_2024_02.pdf (190p) embedded on Study; plus the shorter Master Study Guide if present.

Does investingLive get scraped every minute?

Refresh attempts on demand; many articles ship the table as an image, so seeded boards remain the reliable desk layer.

What grade should I care about most?

A/A– tools first: Chart, Whales, Quant, GEX. Supporting meters last.

How do I regenerate this dossier?

Guide tab /api/dossier.pdf — server builds from luxgex/dossier.py if missing.

Appendix C · Troubleshooting matrix

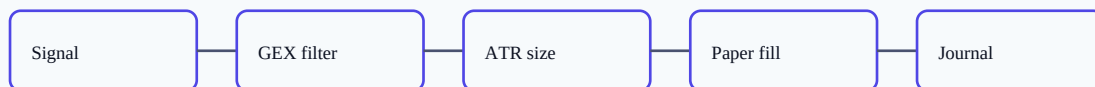
Symptom	Fix
Chart blank	Click Run all; confirm symbol has bars; check console for script errors.
Whales empty on SPX	Switch to FX pair; whales are FX option boards.
PDF iframe blank	Open /api/library/goldbach.pdf directly; confirm file in luxgex/data/library/.
Bot not stepping	Reset bot; ensure running flag; check bot log.
Fit quiz empty	Open Quant first so /api/strategies loads.
Live quotes stale	Toggle Live off/on; check network; fall back to Synthetic for teaching.
Flow looks random	Increase TF; mark a level first; avoid dead sessions.
AGI errors	Local model/API keys; bundle still returns rule engines without LLM.

Appendix D · Risk & ethics

FMC will not stop you from emotional paper trading. That is why Journal mood and Anomaly gates exist. Never risk capital you cannot lose. Educational overlays can be wrong for long stretches. Option expiry notionals are approximate public-board style figures, not your broker's book. Goldbach numerics are one author's framework. investingLive commentary is journalism, not advice.

- Paper first for weeks, not hours.
- One risk unit until Replay agrees.
- No screenshots as proof of edge without costs.
- No sharing of API keys in journals.
- Respect data vendor terms when refreshing boards.

SCHEMATIC · PAPER BOT PIPELINE



No broker — paper only. Rules must pass before size grows.

Figure — paper pipeline reminder

Appendix E · Printable weekly scorecard

Copy this table into your journal each Friday.

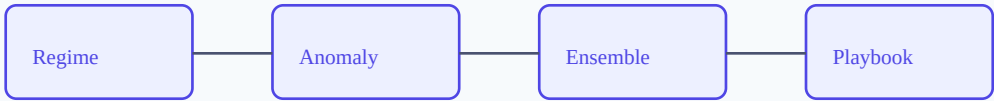
Metric	Mon	Tue	Wed	Thu	Fri	Notes
Checklist used?						
Regime logged?						
Whales checked?						
Journal tags?						
Revenge trades?						
Rules broken?						
Lessons (1 line)						

Scoring: 1 point per Yes on first four rows; -2 per revenge trade; -1 per rule break. Target ≥ 12 for the week before increasing paper size.

Appendix F · Tool interaction map

Primary path: Chart structure → (Whales|GEX level) → Regime gate → Quant playbook → Flow confirm → Bot/Journal.
Secondary meters: ML, AI note, Astro. Study/Goldbach feeds level ideas into the primary path.

SCHEMATIC · AGI DECISION GATE



high_vol / critical → flat · trend → Donchian/TSMOM · mean_revert → RSI2/Boll

SCHEMATIC · ORDER FLOW READ

Footprint / delta stacks



Absorption at whale / VWAP



CVD rising into resistance = caution

SCHEMATIC · GAMMA WALLS



Positive GEX → fade extremes · Negative GEX → respect trend

Figures — gate, flow confirm, gamma map

Appendix G · One-page desk open checklist

- 1 Launch FMC (Desktop app or <http://127.0.0.1:8790>).
- 2 Hard-refresh if UI looks stale.
- 3 Select symbol + TF.
- 4 Run all.
- 5 Whales refresh (FX) or skip.
- 6 AGI regime glance.
- 7 Macro next high-impact event.
- 8 Write today's single sentence plan.
- 9 Only then enable bot or take paper signals.
- 10 End of day: journal + scorecard tick.

Appendix H · Document control

Document: FMC_Tools_Dossier.pdf · Generator: luxgex/dossier.py · Companion PDFs: goldbach_trading_2024_02.pdf, Goldbach_Trading_Master_Study_Guide_50Plus_Pages.pdf · Folder: Desktop/FX Mercatus Codex/PDFs/ · In-app: Guide tab + Study tab · Classification: educational / paper trading.

© FX Mercatus Codex — local paper terminal. No broker connection.

Appendix I · Symbol playbooks (quick)

EURUSD

- Whales primary
- DXY multi-pane
- London–NY focus
- MR inside expiry brackets
- Skip thin Asia breakouts

USDJPY

- Watch round figures + expiries
- BOJ/intervention humility
- Far whales ignored
- Trail wider on spikes

XAU / Gold

- GEX+structure first
- Whales N/A
- Macro yields matter
- Astro optional only

BTC / ETH

- Crypto mom + liquidations
- Funding awareness
- Skip-period mom script
- Weekend gap risk

SPX / NQ

- GEX walls
- Session drift optional
- FOMC size cuts
- Bot GEX filter on

Appendix J · Common failure modes

- 1 Trading distant whales as targets.
- 2 Connors RSI2 under SMA200 / bear regime.
- 3 Donchian in multi-week chop without Regime filter.
- 4 Increasing bot ATR after three wins.
- 5 Ignoring Anomaly=critical because 'setup looks perfect'.
- 6 Using AI desk note as entry trigger.
- 7 Goldbach levels without dealing-range context.
- 8 No journal tags → Replay cannot help.
- 9 Four multi panes with four unrelated theses.
- 10 Leaving whale lines on after the cut and still fading them.

Each failure mode is a journal prompt. If you recognise yourself, that is progress — write the counter-rule.

Appendix K · 30-day paper challenge

- 1 Days 1–5: observation only (Whales + Chart).
- 2 Days 6–10: one Quant script, five trades max.
- 3 Days 11–15: add Flow confirmation requirement.
- 4 Days 16–20: bot assists but you approve every step.
- 5 Days 21–25: scenario drills A–E rewritten in your words.
- 6 Days 26–30: Replay week; promote only rules with positive tagged expectancy.
- 7 Pass criterion: checklist adherence $\geq 80\%$, not P&L.
- 8 Fail criterion: revenge day or skipped journal.
- 9 Reward: unlock a second Quant family — still paper.
- 10 Never skip Macro on event days during the challenge.

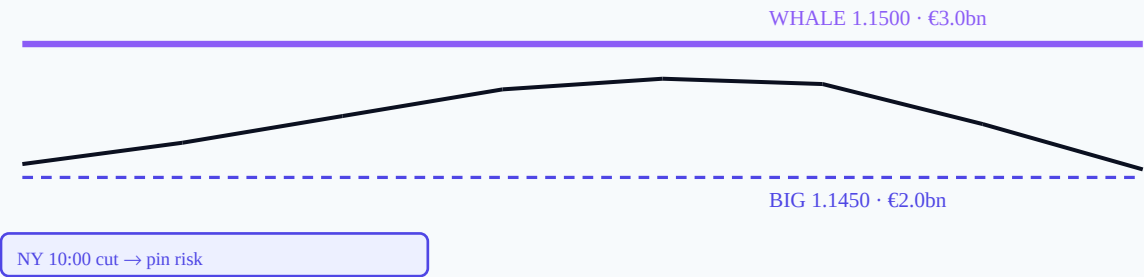


Figure — keep the challenge layout simple

Appendix L · Closing letter

Operator — this dossier exists so the FMC desk is teachable. Tools without a ritual become a casino skin. Start with Chart, Whales, Quant, and Journal. Let GEX and Flow earn their place. Treat Goldbach as literature. Treat investingLive boards as context. Treat ML and AI notes as meters. When in doubt, flatten and write. Re-open this PDF from the Guide tab whenever the desk feels louder than your rules.

SCHEMATIC · OPTION EXPIRY MAGNET



SCHEMATIC · PO3 DEALING RANGE + GOLDBACH WIREFRAME



Final figures — magnets and wireframes

— End of FX Mercatus Codex Tools Dossier (~50 pages) —

Appendix M · Keyboard & UI map

- **■K** — Super Search across tools.
- **Run all** — rebuild analysis, GEX, ML, whale levels.
- **Sections ■** — jump to any panel on narrow screens.
- **Chart wheel** — zoom; drag — pan; shift+drag — box zoom.
- **Live toggle** — real quotes vs synthetic tape (still paper).
- **Guide tab** — download this dossier.
- **Study tab** — Goldbach PDF embed + literature pack.
- **Whales → Plot on chart** — push magnets onto candles.

Appendix N · Version stamp

Generated by luxgex/dossier.py for FX Mercatus Codex. Target length: ~50 pages. If your copy is shorter after an edit, re-run the generator and replace files in PDFs/ and luxgex/data/.

49

Appendix P · Blank review page

End-of-day: what worked, what broke rules, what to try tomorrow.

This image shows a full page of blank, lined paper. It features approximately 20 horizontal blue lines spaced evenly across the page, typical of notebook paper. The lines are thin and light blue, set against a plain white background. There is no handwriting or other markings on the page.

— Truly the end · FX Mercatus Codex Tools Dossier —