

11/29 UPDATES

Phase 1: The Foundation

Status: Solid Trend Follower.

The Logic: It relied on the 9/20 EMA Cross and VWAP to find value. It used Angles to filter out flat markets.

The Weakness for Options:

1. **Static Targets:** It used a fixed **0.7%** rule for over-extension. (Failed in high volatility).
 2. **Slow Exits:** It relied on the 9 EMA or a Red Cross to exit. (Too slow for options; profits would evaporate).
 3. **No Theta Protection:** It would buy even if the market was moving painfully slow (ADX < 15).
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Phase 2: The "Gamma" Upgrade (Speed)

The Change: We introduced the Gray Line (5 EMA).

The CFO Logic: Options require velocity (Gamma). We stopped relying on the Yellow Line (9 EMA) for exits.

- **New Rule:** We enter on the signal, but we **EXIT** the moment price closes below the Gray Line. This locks in profits before the reversal kills the option premium.
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Phase 3: The "Dynamic" Upgrade (Volatility)

The Change: We deleted the static 0.7% inputs and replaced them with Standard Deviation Bands (Bollinger Logic).

The CFO Logic:

- **Low Volatility (Lunch):** The bands tighten, forcing us to take profit sooner.
 - **High Volatility (News):** The bands expand, allowing us to ride the winner longer without selling too early.
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Phase 4: The "Theta Shield" (Risk Management)

The Change: We added the ADX Filter.

The CFO Logic:

- **Kill Zone (ADX < 20):** The script now physically **BLOCKS** signals. It prevents you from buying options in a dead market where Time Decay (Theta) is the only winner.
 - **Manual Override:** We added a checkbox so you can turn this shield off if you want to trade aggressively.
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Phase 5: The "CFO Dashboard" (Macro Data)

The Change: We added the Data Table in the bottom right.

The CFO Logic: You no longer need 5 monitors. The chart now tells you:

1. **VIX:** Are options cheap or expensive?
 2. **Rule of 16:** What is the expected % move today?
 3. **ADR:** Has SPY run out of gas (exhaustion) for the day?
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Visual Comparison

Feature	Old Code (The Start)	Final Code (The Finish)
Exit Strategy	Wait for 9/20 Cross (Slow)	Gamma Line (5 EMA) Break (Fast)
Over-Extension	Static 0.7% (Rigid)	2.0 Std Dev Bands (Adaptive)
Market Filter	Angle Calculation only	ADX "Theta Shield" + Angles
Data Display	None	Full CFO Dashboard (VIX, ADR, ATR)
Option Suitability	Low (High Risk of Decay)	High (Optimized for Speed/Gamma)

12/4 UPDATES

System Summary: "Main 5/9/20 EMA + VWAP + CFO Dashboard"

This script is a comprehensive **Scalping and Day Trading System** designed for high-frequency setups (like SPY, QQQ, or volatile stocks). It combines fast moving averages for entry signals with a "CFO Dashboard" for macro-market awareness.

The Visual Indicators (The Lines)

- **5 EMA (Black Line)**: The "Super Fast" Signal line. This moves closest to price.
 - **9 EMA (Yellow Line)**: The "Trigger" line.
 - **20 EMA (Purple Line)**: The "Trend" line. This is your immediate support/resistance.
 - **VWAP (Red Line)**: Volume Weighted Average Price. The institutional anchor.
 - **VWAP Bands (Shaded Area)**: These are standard deviation bands (2.0 dev) around the VWAP.
 - *Usage*: When price touches the outer bands, it is statistically over-extended and likely to snap back (revert).
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Signal Logic (When to Buy/Sell)

A. The Scalp Signal (Triangles)

- **Condition**: When the **5 EMA (Black)** crosses the **9 EMA (Yellow)**.
- **Label**: Small Green "Buy" or Red "Sell".
- **Meaning**: Immediate momentum shift. Use this for quick entries.

B. The "Perfect Trend" (Blue Labels)

- **Condition**: **5 > 9 > 20** (Bullish) or **5 < 9 < 20** (Bearish).
- **Label**: Blue "Trend" label.
- **Meaning**: All moving averages are stacked correctly. This is the safest time to hold a position.

C. The "Strong VWAP" Trend (Orange Labels)

- **Condition**: **5 > 9 > VWAP > 20**.
- **Label**: Orange "Strong" label.

- **Meaning:** This is the highest probability setup. It means the fast EMAs have crossed, and the VWAP is "sandwiched" between the fast move and the 20 EMA, acting as a springboard.

D. Confirmed Signal (Checkmarks

- **Condition:** A cross happens, and the next **2 bars** continue in that direction with volume higher than average.
- **Label:** " Buy (2)".
- **Meaning:** The move is confirmed by volume and price action. Fewer false alarms.

Metric	Description	How to Read It
VIX	Volatility Index	<p>Red (>20): High fear, candles will be large and whippy.</p> <p>Black (<20): Normal trading conditions.</p>
ADR (10)	Average Daily Range	<p>Comparing today's range to the 10-day average.</p> <p>Orange: We have exceeded the average move (stop trading).</p>
Exp Move	Expected Move	Based on VIX. Tells you how much percentage move is "normal" for today.

ADX (14)	Trend Strength	Gray (<20): CHOP. Do not trade. Yellow (20-25): Waking up. Green (25-50): STRONG TREND. Best for entries. Red (>50): Exhaustion.
RVOL	Relative Volume	Green (>1.0): Volume is higher than usual (Institutional participation). Gray (<1.0): Low volume (Retail noise).
VWAP Dev	Deviation (Z-Score)	How far price is from VWAP. Orange (>2.0): Price is mathematically over-extended. Expect a pullback.

How to Execute (Strategy)

1. **Check the Dashboard:** Is **ADX > 20** (Yellow/Green) and **RVOL > 1.0**? If yes, proceed. If ADX is Gray, sit on hands.
2. **Wait for the Setup:** Look for the **Black Line (5)** crossing the **Yellow Line (9)**.
3. **Confirm Alignment:** Ideally, you want to see the **Blue** or **Orange** labels appear, confirming the EMAs are stacked ($5>9>20$).
4. **Exit/Take Profit:**
 - When the Black line crosses back against the Yellow line.
 - OR when **VWAP Dev** hits **+2.0** (Over-extended).

12/6 SMALL NOTES & THOUGHTS

When does it shoot the most accurate signals?

ADX must? Should be bigger than 20-25

It can return the Bollinger bands

VWAP dev below 2.0, meaning price has not extended that far yet

ADR check, meaning if current changes are smaller than ADR, there is still room to go

RVOL >1

Opening 5m price change

When coming close to the day, volatility cools down

Watch for the VIX, trend signals & volume + sentiment