🤖 COMPLETE MANUAL - MALANGE TRADING BOT

Definitive Guide for Beginners

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1. INTRODUCTION TO MALANGE ROBOT

🎯 What is the MALANGE Robot?

The **MALANGE Trading Bot** is an automated trading system for binary options that operates independently, analyzing the market and executing operations automatically. It was developed to simplify trading, allowing anyone to participate in the financial market without advanced technical knowledge.

🌟 Main Features

- 🤖 **Automatic Operation**: The robot analyzes the market and executes operations on its own
- 📊 **48 Strategies**: Various tested and optimized strategies
- 🏢 **Multiple Brokers**: Support for 13 different brokers (Avalon, Atriun, Broker10, Bullex, CasaTrade, CapitalBear, DayProfit, Exnova, IQ Option, MangoTrade, Nyrion, OptgoBroker, Polarium)
- 🌍 **Multi-language**: Portuguese, English and Spanish
- 📱 **Notifications**: Real-time alerts via Telegram
- 🔒 **Security**: Encrypted credentials and data protection
- 💻 **Multi-platform**: Windows and Linux

🎯 How Does the Robot Work?

1. **Analysis**: The robot analyzes charts and technical indicators
2. **Decision**: Based on the chosen strategy, decides CALL or PUT
3. **Execution**: Opens the operation automatically on the broker
4. **Monitoring**: Tracks the result until closing
5. **Report**: Shows statistics and results

⚠️ Important Risk Warning

ATTENTION: Trading involves significant financial risks. You can lose all invested money. This robot is an educational tool and should be used responsibly. Always test first on DEMO account before using real money.

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2. DOWNLOAD AND INSTALLATION

📥 Where to Download the Robot

The MALANGE robot can be downloaded for free from the official website:
🌐 **https://malange.com.br/**

📦 What You Get

The download contains a ZIP file with:

- **Malange_Trading_Bot.exe** - Windows version
- **Malange_Linux** - Linux version
- **config.sample.txt** - Configuration examples
- **estrategias.txt** - List of available strategies

🖥️ Windows Installation

1. **Download** the ZIP file from the website
2. **Extract** the file to a folder (e.g., Desktop)
3. **Run** the file `Malange_Trading_Bot.exe`
4. **Allow** antivirus access (if requested)

🐧 Linux Installation

1. **Download** the ZIP file from the website
2. **Extract** the file to a folder
3. **Give execution permission**: `chmod +x Malange_Linux`
4. **Run**: `./Malange_Linux`

✅ Installation Verification

If everything is correct, you will see:

- Robot welcome screen
- Language selection menu
- Initial configuration option

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3. FIRST USE - INTERACTIVE CONFIGURATION

🚀 Starting the Robot for the First Time

When you run the robot for the first time (without `config.txt` file), it will start an interactive configuration process that will guide you through all necessary configurations.

📝 Configuration Step by Step

Step 1: Language Selection

```
🤖 MALANGE TRADING BOT v2.02.112
🌍 Select language / Select language / Selecciona idioma:

[1] Português (Brasil)
[2] English (United States)
[3] Español

Enter your option (1-3):
```

👉 **Choice**: Type `2` for English

Step 2: Broker Configuration

```
🏦 AVAILABLE BROKERS:

[0] Avalon (Functional)
[1] Atriun (Functional)
[2] Broker10 (Functional)
[3] Bullex (Functional)
[4] CasaTrade (Functional)
[5] CapitalBear (Functional)
[6] DayProfit (Functional)
[7] Exnova (Functional)
[8] IQ Option (Functional)
[9] MangoTrade (Functional)
[10] Nyrion (Functional)
[11] OptgoBroker (Functional)
[12] Polarium (Functional)

Enter your option (0-12):
```

👉 **Choice**: Type the number of the desired broker (0-12)

⚠️ **IMPORTANT**: You need to have an account with the chosen broker to use the robot. If you don't have one yet, go to the broker's website and create your account first.

Step 3: Login Credentials

```
📧 Enter your broker email: your@email.com
🔒 Enter your password: ********
```

⚠️ **IMPORTANT**:
- Use your **real** broker credentials (email and password)
- The robot needs this information to access your account and trade
- These credentials will be saved securely and encrypted, in a separate file for each broker
- **Never share** your credentials with other people

Step 4: Account Type

```
💰 ACCOUNT TYPE:

[1] DEMO (Recommended for beginners)
[2] REAL (Only for experienced users)
[3] TOURNAMENT (Tournament account)

Enter your option (1-3):
```

👉 **Recommendation**: Always start with `1` (DEMO)

Step 5: Basic Settings

```
💵 Entry value per trade ($): 10
🎯 Profit target ($): 50
🛡️ Loss limit ($): 100
```

💡 **Tips**:
- **Entry value**: Start with low values ($5-20)
- **Profit target**: 2-5x the entry value
- **Loss limit**: 5-10x the entry value

Step 6: Strategy Selection

```
📊 RECOMMENDED STRATEGIES FOR BEGINNERS:

[25] MHI 3 Majority (Good for beginners)
[39] Winner Strategy (Most stable)
[33] Chinese (Simple and effective)

Enter strategy number (1-90):
```

👉 **Recommendation**: Type `39` for Winner Strategy

Step 7: Telegram Configuration (Optional)

```
📱 Do you want to receive Telegram notifications? (Y/N): Y
💬 Enter your Telegram Chat ID: 1234567890
```

📝 **How to get Chat ID**:

1. **IMPORTANT**: Send `/start` to `@Tropical_OB_bot` to authorize the bot
2. Send `/start` to `@BotFather` on Telegram
3. Copy the number that appears
4. Paste it in the requested field

Step 8: Finalization

```
✅ Configuration completed!
📁 config.txt file created successfully.
🚀 Starting the robot...
```

🔄 Automatic vs Manual Mode

During configuration, you will be asked about the operation mode:

```
🤖 OPERATION MODE:

[1] MANUAL (Recommended - Confirms each operation)
[2] AUTOMATIC (Careful - Executes automatically)

Enter your option (1-2):
```

👉 **Recommendation**: Always choose `1` (MANUAL) for beginners

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4. COMPLETE CONFIGURATION FILE

📄 Structure of config.txt File

The configuration file is divided into organized sections. Each section controls a specific part of the robot.

> 📑 ***Where is the full list of options?*** *In* ***chapter 10*** *of this same manual (Full config.txt reference), aligned with* `config.sample.txt`.

🔐 Section [LOGIN]

This section contains authentication information:

```
[LOGIN]
corretora = iqoption          # Broker to be used
email = "your@email.com"      # Your email
senha = "your_password"       # Your password
notificar_telegram = Y        # Telegram notifications (Y/N)
telegram_chat_id = 1234567890 # Telegram chat ID
```

📝 **Parameter Explanation**:
- **corretora**: Broker name (avalon, atriun, broker10, bullex, casatrade, capitalbear, dayprofit, exnova, iqoption, mangotrade, nyrion, optgobroker, polarium)
- **email**: Your broker account email
- **senha**: Your broker account password
- **notificar_telegram**: "Y" to enable notifications, "N" to disable
- **telegram_chat_id**: Your Telegram chat number

⚙️ Section [AJUSTES]

Contains the main robot configurations:

```
[AJUSTES]
idioma = en-US              # Robot language
auto = N                    # Automatic mode (Y/N)
conta = 1                   # 1=DEMO, 2=REAL, 3=TOURNAMENT
tipo = digital              # Asset type (digital/binary/all)
valor_entrada = 10          # Entry value per trade in $
stop_win = 50               # Profit target in $
stop_loss = 100             # Loss limit in $
estrategia = 39             # Strategy number (1-90)
recarregar_config = Y       # Reload config automatically
entrada_invertida = N       # N=trade in strategy direction; Y=invert (CALL↔PUT)
negativar_em_loss = N       # N=no list change on LOSS; Y=blacklist until next catalog refresh
max_win_consecutivo = 0     # 0=unlimited; N>0 stops after N consecutive wins
max_loss_consecutivo = 0    # 0=unlimited; N>0 stops after N consecutive losses
adx_maximo = 100            # ADX ceiling (ADX confluence / strategies using filter)
pay_minimo = 70             # Minimum payout accepted (%)
filtrar_ttz = Dark Green, Light Green, Blue  # Allowed TTZ colors (or N to disable)
ttz_email = you@email.com     # TTZ account enabled for the colors API
ttz_senha = "your password"   # TTZ password (quote it if it has a comma or #)
filtrar_ativos =            # Optional: only assets whose name contains one token (comma-separated)
ignorar_ativos =            # Optional: exclude assets whose name contains any token
usar_catalogacao = N
arquivo_catalogacao = catalogacao.txt
arquivo_de_sinais = sinais.txt
delimitador_de_sinais = ;
interface = modern          # Interface type (modern/moderna/adaptive or
basic/basica/classic/traditional)
detalhar_operacoes = Y      # Display detailed history in final report (Y/N)
```

📝 **Parameter Explanation**:

- **idioma**: "pt-BR" (Portuguese), "en-US" (English), "es-ES" (Spanish)
- **auto**: "N" for manual mode (safer), "Y" for automatic
- **conta**: "1" for DEMO, "2" for real account, "3" for TOURNAMENT
- **tipo**: "digital" (recommended), "binary" or "all"
- **valor_entrada**: Value in dollars for each operation
- **stop_win**: Daily profit target
- **stop_loss**: Maximum loss limit
- **estrategia**: Strategy number (see complete list in chapter 5)
- **entrada_invertida**: "N" (default) trades in the direction recommended by the strategy; "Y" inverts it (if strategy says CALL, robot trades PUT and vice versa)
- **negativar_em_loss**: "N" (default) does not change the asset list after a LOSS; "Y" blacklists the

asset after **each individual LOSS** (including gales and protection legs) until the next pair catalog refresh (`atualizar_pares` interval or catalog file reload)
- **max_win_consecutivo**: `0` = unlimited; greater than zero stops the bot after that many consecutive wins
- **max_loss_consecutivo**: `0` = unlimited; greater than zero stops after that many consecutive losses
- **adx_maximo**: ADX above this value (in `[AJUSTES]`, default 100) blocks the signal for ADX confluence and strategies that use the filter; see also `adx_minimo` and `adx_periodo` in the full configuration manual
- **pay_minimo**: Minimum accepted payout (70-90% recommended)
- **filtrar_ttz**: Trader Timer Zone colors the robot may trade in; use `N` to disable. Accepted colors: Blue, Dark Green, Light Green, Orange, Red, Wine (or the codes B, D, L, O, R, W). Older names still work: Green = Dark Green, Yellow = Orange, Dark Red = Wine
- **ttz_email** / **ttz_senha**: login for your Trader Timer Zone account (not your Google password). The account must be enabled by TTZ for the colors API. If credentials are missing, access is denied or TTZ is unavailable, the robot pauses entries until a valid reading returns
- **filtrar_ativos** / **ignorar_ativos**: comma-separated substrings; the robot checks whether the **asset name contains** each token (blocklist first, then allowlist if `filtrar_ativos` is non-empty)
- **usar_catalogacao**, **arquivo_catalogacao**, **arquivo_de_sinais**, **delimitador_de_sinais**: manual pair catalog and signal file input
- **interface**: "modern", "moderna" or "adaptive" (adaptive modern interface - DEFAULT), "basic", "basica", "classic" or "traditional" (traditional interface)
- **detalhar_operacoes**: "Y" to display detailed history of all operations in final report, "N" to hide (useful for cleaner reports)

📊 Section [ESTRATEGIA]

Strategy-specific configurations:

```
[ESTRATEGIA]
estrategia = 39              # Strategy number
tipo = digital               # Asset type
confluencias = "EMA","RSI","ADX"  # Active confluences
timeframe = 60               # Timeframe in seconds (60=M1)
qnt_velas = 100              # Number of candles for analysis
max_segundo_entrada = 3      # Latest second at candle open to enter (M1 also uses 50–59 window)
```

📝 **Parameter Explanation**:
- **estrategia**: Strategy number (1-90)
- **tipo**: Asset type to trade
- **confluencias**: Comma-separated confluence list. A QuadCode script is added as `QCS:alias` (chapter 5)
- **qcs_scripts**, **qcs_combinar**, **qcs_vela_aberta**: used by strategy 52 (QuadCode Script). The `.lua` path is relative to the `config.txt` folder. `qcs_combinar` accepts `todas`, `maioria`, or `qualquer`. `qcs_vela_aberta = S` includes the open candle
- **timeframe**: 60=M1, 300=M5, 900=M15, 1800=M30, 3600=H1
- **qnt_velas**: Number of candles for analysis (50-200)
- **max_segundo_entrada**: Maximum second at candle start to allow entry (default 3); on M1 the bot may also trade in the 50–59 s window

🎲 Section [MARTINGALE]

Martingale risk management system:

```
[MARTINGALE]
usar_martingale = N          # Activate Martingale (Y/N)
niveis_martingale = 2        # Maximum number of levels
fator_martingale = 2.0       # Multiplication factor
inverter_gale = N            # Invert direction on gale (Y/N)
```

⚠️ **CAUTION**: Martingale is risky! Use only with low values and on DEMO first.

📝 **Parameter Explanation**:
- **usar_martingale**: "Y" to activate, "N" to deactivate
- **niveis_martingale**: Maximum 2-3 levels (no more!)
- **fator_martingale**: 2.0 is more conservative, 2.1 more aggressive
- **inverter_gale**: "Y" to invert direction after each loss

💡 **For complete details on Martingale operation, see Chapter 6 - Risk Management.**

💰 Section [SOROS]

SOROS risk management system:

```
[SOROS]
usar_soros = N            # Activate SOROS (Y/N)
niveis_soros = 1          # Number of SOROS levels
usar_protecao = N         # Activate Martingale protection (Y/N)
niveis_protecao = 2       # Martingale protection levels
fator_protecao = 2.3      # Protection multiplication factor
```

📝 **Parameter Explanation**:
- **usar_soros**: "Y" to activate, "N" to deactivate
- **niveis_soros**: 1-2 levels recommended
- **usar_protecao**: "Y" to activate Martingale protection after LOSS
- **niveis_protecao**: Number of recovery levels (0-3 recommended)
- **fator_protecao**: Multiplier for each level (2.3 is default)

💡 **For complete details on SOROS and SOROS with Protection operation, see Chapter 6 - Risk Management.**

🎯 Section [MASANIELLO]

Masaniello risk management system:

```
[MASANIELLO]
usar_masaniello = N       # Activate Masaniello (Y/N)
num_eventos = 10          # Number of events
vitorias_esperadas = 6    # Expected wins
```

📝 **Parameter Explanation**:
- **usar_masaniello**: "Y" to activate, "N" to deactivate
- **num_eventos**: Total number of planned operations
- **vitorias_esperadas**: How many wins are needed for profit

💡 **For complete details on Masaniello operation, see Chapter 6 - Risk Management.**

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5. STRATEGY SYSTEM

📊 Complete Strategy List

The MALANGE robot has **52 public strategies** (numbers 1 to 52, within the public range up to 90). Strategies with number **above 90** are secret and do not appear in the default list. Each has specific characteristics suitable for different market types and trader profiles.

🔰 Strategies Recommended for Beginners

NUMBER	NAME	DESCRIPTION	DIFFICULTY
39	**Winner Strategy**	Most stable and reliable strategy	⭐
33	**Chinese**	Good for M1 timeframes, simple	⭐
25	**MHI 3 Majority**	Based on trend analysis	⭐⭐
17	**Pattern D21**	Classic and tested strategy	⭐⭐

📈 Technical Analysis Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
6	**EMA Cross**	Exponential moving average crossover	⭐⭐⭐
7	**EMA + RSI**	EMA combined with RSI	⭐⭐⭐
10	**MACD + ADX**	Momentum and trend analysis	⭐⭐⭐⭐
11	**KELTNER + RSI**	Keltner channels with RSI	⭐⭐⭐

🎲 Pattern Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
15	**CLAW Pattern (M1)**	Pattern analysis in M1	⭐⭐
16	**Hx5 Pattern**	Specific Hx5 pattern	⭐⭐
26	**Pattern 23 (M1)**	Pattern 23 in M1 timeframe	⭐⭐
30	**1x3 Pattern**	1x3 reversal pattern	⭐⭐⭐

📊 Indicator Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
2	**RSI**	Relative strength index	⭐⭐
9	**ADX + PSAR**	Trend and momentum analysis	⭐⭐⭐
14	**WILLIAMS FRACTALS**	Williams fractals analysis	⭐⭐⭐
31	**Donchian**	Donchian channels	⭐⭐⭐

🔄 Reversal Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
3	**Reversal**	Simple reversal strategy	⭐⭐
5	**RSI + Reversal**	RSI combined with reversal	⭐⭐⭐
32	**R7**	Advanced reversal strategy	⭐⭐⭐⭐

📈 Trend Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
1	**Trend**	Basic trend analysis	⭐⭐
4	**RSI + Trend**	RSI combined with trend	⭐⭐⭐
8	**EMA Signal**	Signals based on EMA	⭐⭐

🎯 MHI Strategies (Hyperbolic Martingale)

NUMBER	NAME	DESCRIPTION	DIFFICULTY
20	**MHI Minority**	MHI for minority	⭐⭐⭐⭐
21	**MHI 2 Minority**	MHI 2 for minority	⭐⭐⭐⭐
22	**MHI 3 Minority**	MHI 3 for minority	⭐⭐⭐⭐
23	**MHI Majority**	MHI for majority	⭐⭐⭐
24	**MHI 2 Majority**	MHI 2 for majority	⭐⭐⭐

🎲 Probability Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
18	**Million Majority**	Majority strategy	⭐⭐
19	**Million Minority**	Minority strategy	⭐⭐⭐
27	**Best of 4**	Analysis of 4 options	⭐⭐⭐
29	**Sixth Candle**	Sixth candle analysis	⭐⭐

📡 External Signal Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
28	**TXT Signals**	Reads signals from text file	⭐⭐
37	**Orion Signal**	External Orion signals	⭐⭐
38	**General Signal**	General external signals	⭐⭐

🎯 Special Strategies

NUMBER	NAME	DESCRIPTION	DIFFICULTY
34	**Seven Flip**	Inversion strategy	⭐⭐⭐
35	**3 Musketeers**	Three-element strategy	⭐⭐⭐
36	**Twin Towers**	Twin towers pattern	⭐⭐⭐
40	**Third Candle (M5)**	Third candle analysis in M5	⭐⭐
41	**Stochastic + SMA 50**	Stochastic with 50-period moving average	⭐⭐⭐
42	**Multi-Indicator**	Combination of 4 indicators	⭐⭐⭐⭐
43	**Support & Resistance**	Support/Resistance with gap detection	⭐⭐⭐
44	**Trend Indicator**	Candle sequence patterns for next candle	⭐⭐⭐
45	**Dayshin**	Moving averages with signal line and S&R	⭐⭐⭐⭐
46	**Price Logic**	Support/Resistance with OHLC only, level rejection and breakout	⭐⭐⭐
47	**FIT**	Crossover (fast SMA − slow SMA) with WMA signal line (@fitrader)	⭐⭐⭐
48	**SEAL**	SUP/RES + SEAL: engulfing (text arrows + double engulfing) and optional MACD signals	⭐⭐⭐
49	**ALMA**	Arnaud Legoux moving average: ALMA position vs price (CALL/PUT)	⭐⭐⭐
50	**ALMA 2**	Two ALMAs on the same side of price (trend)	⭐⭐⭐
51	**ALMA Cross**	ALMA signal crossing ALMA slow	⭐⭐⭐

NUMBER	NAME	DESCRIPTION	DIFFICULTY
52	**QuadCode Script**	Runs one or more QuadCodeScript files (.lua) and reads buy, sell, or neutral	⭐⭐⭐⭐

Note: Strategies with number **above 90** (e.g. 91 Tropical VIP, 92 Tropical Sniper) are secret and are not listed publicly.

🎯 How to Choose the Ideal Strategy

For Beginners:

- **Winner Strategy (39)**: Most stable and reliable
- **Chinese (33)**: Good for M1, easy to understand
- **Pattern D21 (17)**: Classic and tested

For Intermediates:

- **EMA Cross (6)**: Solid technical analysis
- **RSI + Trend (4)**: Effective combination
- **MHI Majority (23)**: Good for trends

For Advanced:

- **MACD + ADX (10)**: Complex technical analysis
- **R7 (32)**: Advanced reversal strategy
- **Multi-Indicator (42)**: Combination of 4 indicators
- **Support & Resistance (43)**: S&R analysis with gaps
- **Trend Indicator (44)**: Candle sequence patterns
- **Dayshin (45)**: Moving averages with signal line and S&R
- **Price Logic (46)**: Support/Resistance with price (OHLC) only, level rejection and breakout
- **FIT (47)**: Crossover of SMA difference with WMA signal line (@fitrader strategy)

- **SEAL (48)**: SUP/RES + SEAL indicator: text arrows (engulfing at candle open) and Double Engulfing; optional signals for more entries (engulfing+MAs, MACD/signal, MACD zero, histogram zero). See **ESTRATEGIA_SEAL.md**.
- **ALMA (49), ALMA 2 (50), ALMA Cross (51)**: Arnaud Legoux moving average (ALMA); parameters in AJUSTES: `alma_length`, `alma_sigma`, `alma_distribution_offset`, `alma_lenta`, `alma_rapida`, `alma_sinal`.
- **QuadCode Script (52)**: runs `.lua` scripts from the broker chart language, as a strategy or as a `QCS:alias` confluence. See the strategy 52 section below.

📊 Strategies 49, 50 and 51: ALMA (Arnaud Legoux Moving Average)

ALMA is a Gaussian-weighted moving average that balances smoothness and responsiveness. Available as **strategy** and as **confluence**:
- **49 – ALMA**: CALL when ALMA is below the candle low; PUT when above the high.
- **50 – ALMA 2**: CALL when both ALMAs (fast and slow) are below price; PUT when both are above.
- **51 – ALMA Cross**: CALL when ALMA signal crosses above ALMA slow; PUT when it crosses below.

Parameters in AJUSTES: `alma_length` (period, default 10), `alma_sigma` (smoothing, default 6), `alma_distribution_offset` (0–1, default 0.85), `alma_lenta`, `alma_rapida`, `alma_sinal` for ALMA 2 and ALMA Cross.

📊 Strategy 52: QuadCode Script

QuadCode Script runs scripts written in the broker chart language (QuadCodeScript, Lua 5.3). The script reads the candles of the asset and timeframe already set on the robot and returns buy (CALL), sell (PUT), or silence. The same `.lua` file can be the strategy, a confluence, or both.

The robot uses the signal only. Drawing calls (`hline`, `fill`, `rect`, `label`, and the color of `plot_candle`) are accepted so the script can load, and they do not open a trade.

How the robot reads the signal

The default read is the last **closed** candle:

1. `advise`. `advice.buy` becomes CALL, `advice.sell` becomes PUT, and `advice.neutral` means no entry. If the script calls `advise` more than once on the same candle, the last call wins. Buy and sell on the same candle mean no entry.

2. If that candle has no `advise`, a **`plot_shape`** whose condition is true is used. An up arrow or triangle, or text containing the word buy, compra, or call, becomes CALL. The opposite (down, or sell, venda, or put) becomes PUT. Both sides at once, or text that disagrees with the arrow style, mean no entry. `belowbar` or `abovebar` alone does not choose the side.
3. With neither `advise` nor `plot_shape`, the script produces no entry. Coloring the candle or plotting a moving average alone is not a signal.

`qcs_vela_aberta = S` includes the candle that is still open. That value changes until the candle closes.

Use as a strategy

Save the `.lua` file in the robot folder (the same folder as `config.txt`) and point to it:

```
[ESTRATEGIA]
estrategia = 52
timeframe = 60
qnt_velas = 200
qcs_scripts = qcs/compra_venda.lua
qcs_combinar = todas
qcs_vela_aberta = N
```

- **qcs_scripts**: one or more files, separated by commas. The path is relative to the `config.txt` folder. An absolute path is also accepted.
- **qcs_combinar**: how several scripts are combined.
- `todas` (default): trade only when every script agrees. Neutral or an error in any script blocks the entry.
- `maioria`: the side with more votes wins. A tie does not trade. Neutral votes are not counted.
- `qualquer`: the first script that returns CALL or PUT decides.
- **qcs_vela_aberta**: `N` (default) uses the last closed candle. `S` includes the open candle. On M1, with `N`, the robot analyzes only from second 0 through `max_segundo_entrada` of the new candle: the arrow is on the candle that just closed and the order is placed on the candle that is opening. The 50–59 second window is left out in this mode, so the order is not placed one candle later. With `S`, the 50–59 window stays: the script reads the candle that is closing and the entry waits for the next open.

- **qnt_velas**: cover the longest period in the script. An RSI of 14 needs far more than 14 candles.

With a single file, the panel shows the name from `instrument { name = "..." }`. Example: `QuadCode Script (EMA Cross)`.

Use as a confluence

The name is `QCS:` plus an alias. The alias points to a section that holds the file:

```
[ESTRATEGIA]
estrategia = 39
confluencias = EMA, QCS:filtro
qcs_vela_aberta = N

[QCS:filtro]
arquivo = qcs/filtro.lua
Period = 21
```

The confluence follows the same contract as the others: the same side as the strategy confirms; neutral, the opposite side, or an error blocks. Several aliases can sit next to EMA, RSI, and the rest. In the setup assistant, type the name with the alias, for example `QCS:filtro`. `qcs_vela_aberta` in `[ESTRATEGIA]` also applies to these confluences.

Override script inputs

The starting value lives in the `.lua` file. To change it without editing the script, add a `QCS:` section and use the **title** passed to `input()` — the quoted text, not the variable name:

```
period = input(14, "Period", input.integer, 1)
```

```
[QCS:compra_venda]
Period = 21
```

For the strategy, the section applies when the alias is the file name without `.lua` (`compra_venda.lua` matches `QCS:compra_venda`), or when `arquivo` points at the same file. For a confluence, the section is the alias used in `confluencias`. The title match ignores letter case.

Numbers, yes/no, and a choice list (`input.string_selection` , which returns the option index) are applied. Color, line width, and visibility are accepted and do not change the trade side.

Minimal example

```
instrument { name = "EMA Cross", overlay = true }

period = input(21, "Period", input.integer, 1)
fast = ema(close, 9)
slow = ema(close, period)

if crossover(fast, slow) then
   advise(advice.buy)
elseif crossunder(fast, slow) then
   advise(advice.sell)
else
   advise(advice.neutral)
end
```

Compute `sma` , `ema` , `rsi` , and the other averages **before** the `if` . An indicator inside `if` or `and` changes how many series each candle creates. The robot drops the signal and logs an alignment error.

A script that only draws arrows on the broker chart can use `plot_shape` :

```
fast = ema(close, 9)
slow = ema(close, 21)
plot_shape(crossover(fast, slow), "Buy", shape_style.triangleup, shape_location.belowbar)
plot_shape(crossunder(fast, slow), "Sell", shape_style.triangledown, shape_location.abovebar)
```

If the same candle also calls `advise` , `advise` wins. Comparisons `>` , `<` , `>=` , and `<=` work directly on a series. To compare a series with a number for equality, use `get_value(series)` .

Functions available

Price series: `open` , `high` , `low` , `close` , `volume` , `hl2` , `hlc3` , `ohlc4` , and the `inputs` table (index 1 is the close). Averages: `sma` , `ema` , `wma` , `rma` , `ssma` , and the `averages` table (SMA, EMA, WMA, SSMA, RMA, in that order). Also `rsi` , `change` , `highest` , `lowest` , `nz` ,

`na` , `iff` , `conditional` , `crossover` , `crossunder` , `max` , `min` , `abs` , `make_series` with `:set()` , `instrument` , `input` , `input_group` , `advise` , `plot` , `plot_shape` , and `plot_candle` .

`security(current_ticker_id, "15m")` rebuilds the candles the robot already has for the same asset. A timeframe shorter than the chart comes back empty, so `if sec then` does not run. Another asset fails by name and no trade is opened. A function this version does not include yet (`alma` , `atr` , `adx` , `macd` , `bb` , and others in that group) fails by name, and that asset gets no entry.

A syntax error, a missing file, an unknown function, or a script that loops forever leaves that asset without an entry and writes the reason to the log. The robot keeps running on the other assets. The script cannot touch files, the network, or system commands. Save the `.lua` file as UTF-8.

📊 Strategy 48: SEAL

The **SEAL** strategy is based on the SUP/RES + SEAL indicator (QuadCodeScript), adapted for binary options. It combines **main signals** (always on) — **Text arrows (BUY/SELL)** on the sync bar (engulfing + price above/below 3 MAs) and **Double Engulfing** (engulfing on filter timeframe and current candle) — with **optional signals** (off by default): engulfing with aligned MAs, MACD/signal crossover, MACD zero cross, histogram zero cross (enabled via AJUSTES parameters). Main parameters in AJUSTES: `seal_ma_fast_period` , `seal_ma_slow_period` , `seal_ma_trend_period` , `seal_ma_avg` , `seal_sync_resolution` , `seal_filter_resolution` , `seal_signal_period` ; optional: `seal_use_engulfing_ma_aligned` , `seal_use_macd_cross` , `seal_use_macd_zero` , `seal_use_histo_zero` . For full documentation see **ESTRATEGIA_SEAL.md**.

📊 Strategy 47: FIT

The **FIT** strategy is based on the @fitrader indicator (QuadcodeScript). It uses the crossover of the difference between a fast SMA and a slow SMA with its signal line (WMA). **CALL** when the difference crosses above the signal line; **PUT** when it crosses below. Parameters in the AJUSTES section: `fit_ma_fast` (fast SMA, default 1), `fit_ma_slow` (slow SMA, default 34), `fit_signal` (WMA signal period, default 5).

📊 Strategy 46: Price Logic

The **Price Logic** strategy uses only price (OHLC) to generate signals, without indicators. It calculates support and resistance from price history and generates **CALL** on rejection at support (bullish candle) and **PUT** on rejection at resistance (bearish candle). Optionally considers breakouts. Parameters (lookback, proximity, min channel, single command, marubozu, split rate) can be

adjusted in the AJUSTES section of config.txt. For full documentation see **ESTRATEGIA_LOGICA_PRECO.md**.

📊 Strategy 43: Support & Resistance

The **Support & Resistance** strategy is based on the QuadcodeScript indicator that combines trend analysis, price gap detection, and support/resistance level identification.

🎯 How It Works:

1. Trend Analysis:
- Calculates two exponential moving averages (EMA): fast (default: 9 periods) and slow (default: 21 periods)
- Checks if both are in uptrend or downtrend by analyzing 4 consecutive periods
- Combines trends to determine overall market trend

2. Gap Detection:
- Identifies gaps (spaces) between previous candle's close and current candle's open
- Calculates gap strength as percentage (in thousandths)
- Classifies gaps as:
- **GAPF (Gap Forward)**: Gap that continues previous candle's direction
- **GAPD (Gap Downward)**: Gap that reverses previous candle's direction

3. Support and Resistance Levels:
- Calculates support (low) and resistance (high) levels based on a lookback period (default: 20 candles)
- Optionally checks if price is near these levels

📈 Signal Logic:

CALL Signal (Buy):
- Overall trend = **Up**
- Strong gap detected (above minimum percentage)
- Gap conditions:
- (Green candle + forward gap) OR
- (Red candle + forward gap) OR
- (Green candle + downward gap)

PUT Signal (Sell):
- Overall trend = **Down**
- Strong gap detected (above minimum percentage)

- Gap conditions:
- (Red candle + forward gap) OR
- (Green candle + forward gap) OR
- (Red candle + downward gap)

No Signal:
- Lateral trend
- Weak gap (below minimum percentage)
- Price not near support/resistance (if filter enabled)

⚙️ Configurable Parameters:

```
[AJUSTES]
sr_ma_rapida = 9          # Fast MA period (default: 9)
sr_ma_lenta = 21          # Slow MA period (default: 21)
sr_gap_percentage = 0.1   # Minimum gap percentage in thousandths (default: 0.1 = 0.1%)
sr_lookback = 20          # Period to calculate S&R (default: 20)
sr_proximity = 0.2        # Proximity to S&R level in percentage (default: 0.2%)
sr_use_proximity = S      # Use proximity as filter (Y/N, default: S)
```

📝 Parameter Explanation:
- **sr_ma_rapida**: Fast EMA period (common values: 5-15)
- **sr_ma_lenta**: Slow EMA period (common values: 20-30)
- **sr_gap_percentage**: Minimum gap percentage to consider valid (0.1 = 0.1%, common values: 0.05-0.5)
- **sr_lookback**: How many candles to use for S&R calculation (common values: 15-30)
- **sr_proximity**: Maximum distance to S&R level in % (common values: 0.1-0.5)
- **sr_use_proximity**: If "S", only generates signal when near S&R if "N", ignores proximity

💡 Usage Tips:

- **Recommended timeframes**: M1, M5 (works better on smaller timeframes)
- **Markets**: Works well in markets with moderate volatility
- **Combination**: Use with other confluences for greater precision
- **Fine-tuning**: Reduce `sr_gap_percentage` for more signals or increase for fewer but more reliable signals

📊 Strategy 44: Trend Indicator

The **Trend Indicator** strategy is based on candle sequence patterns that generate signals to enter the **NEXT candle** (not the current candle). This strategy was implemented based on the QuadcodeScript "Indicador de tendencia Exnova 2025".

🎯 How It Works:

1. Sequence Pattern Analysis:
- Analyzes the last 5 closed candles
- Identifies specific patterns of green and red candle sequences
- Generates signal to enter the next candle when pattern is confirmed

2. Pattern for BUY (CALL):
- **3 consecutive red candles** (close < open)
- Followed by **1 green candle** (close > open)
- Followed by **1 red candle** (close < open)
- When this pattern is detected, generates **"PROX COMPRA!"** signal to enter the next candle

3. Pattern for SELL (PUT):
- **3 consecutive green candles** (close > open)
- Followed by **1 red candle** (close < open)
- Followed by **1 green candle** (close > open)
- When this pattern is detected, generates **"PROX VENDA!"** signal to enter the next candle

📈 Signal Logic:

CALL Signal (Buy):
- Pattern detected: 3 red + 1 green + 1 red (in last 5 closed candles)
- Signal is generated when the last closed candle confirms the pattern
- Entry should be made in the **next candle** (which is still forming)

PUT Signal (Sell):
- Pattern detected: 3 green + 1 red + 1 green (in last 5 closed candles)
- Signal is generated when the last closed candle confirms the pattern
- Entry should be made in the **next candle** (which is still forming)

No Signal:
- Pattern not detected in last 5 candles
- Late entry (more than 5 seconds after last candle close)
- Less than 5 candles available for analysis

⚙️ **Technical Characteristics:**

- **Only closed candles analysis**: Strategy discards candles still forming to avoid premature signals
- **Late entry protection**: If more than 5 seconds have passed since last candle close, signal is ignored
- **Projective signal**: Signal is generated when pattern is confirmed, indicating entry in next candle

💡 **Usage Tips:**

- **Recommended timeframes**: M1, M5 (works better on smaller timeframes)
- **Markets**: Works well in markets with clear movements and defined candle sequences
- **Combination**: Use with other confluences for greater precision
- **Timing**: Strategy is projective - signal indicates entry in next candle, not current
- **Patience**: Wait for complete pattern confirmation before entering

📊 **Strategy 45: Dayshin**

The **Dayshin** strategy is based on Quadcode Script (QSC) and implements advanced technical analysis using moving averages, signal line, and support/resistance levels.

🎯 **How It Works:**

1. Moving Average Calculation:
- Calculates two simple moving averages (SMA): fast (default: 1 period) and slow (default: 34 periods)
- Uses candle close value (configurable: close, open, high, low)
- The difference between averages is calculated (buffer1)

2. Signal Line:
- Applies a weighted moving average (WMA) to the difference of averages
- WMA period default: 5 periods
- This signal line (buffer2) is used to generate entry signals

3. Support and Resistance Levels:
- Fetches candles from a higher timeframe (default: M15) to calculate S&R

- Calculates support (low) and resistance (high) levels
- Uses configurable number of candles (default: 1 candle) to calculate levels

4. Signal Generation:
- **CALL (Buy)**: When difference (buffer1) crosses above signal line (buffer2)
- **PUT (Sell)**: When difference (buffer1) crosses below signal line (buffer2)
- Signals are generated only on last closed candle (not on forming candle)

📈 Signal Logic:

CALL Signal (Buy):
- buffer1 (difference of averages) crosses above buffer2 (signal line)
- Signal is generated on last closed candle
- Considers support/resistance levels from higher timeframe

PUT Signal (Sell):
- buffer1 (difference of averages) crosses below buffer2 (signal line)
- Signal is generated on last closed candle
- Considers support/resistance levels from higher timeframe

No Signal:
- No crossover between buffer1 and buffer2
- Insufficient candles to calculate averages
- Error fetching S&R candles from higher timeframe

⚙️ Configurable Parameters:

```
[DAYSHIN]
ma_fast_period = 1          # Fast MA period (default: 1)
ma_slow_period = 34         # Slow MA period (default: 34)
signal_period = 5           # Signal line WMA period (default: 5)
ma_value = close            # Value for MAs: close, open, high, low (default: close)
sr_timeframe = 15           # Timeframe for S&R in minutes (default: 15 = M15)
sr_candles_count = 1        # Number of candles to calculate S&R (default: 1)
```

📝 Parameter Explanation:
- **ma_fast_period**: Fast SMA period (common values: 1-5)
- **ma_slow_period**: Slow SMA period (common values: 20-50)
- **signal_period**: WMA period for signal line (common values: 3-10)
- **ma_value**: Type of value to calculate MAs - "close" (recommended), "open", "high", "low"

- **sr_timeframe**: Timeframe in minutes to fetch S&R candles (common values: 5, 15, 30, 60)
- **sr_candles_count**: How many candles to use for S&R calculation (common values: 1-5)

💡 Usage Tips:

- **Recommended timeframes**: M1, M5 (works well on smaller timeframes)
- **Markets**: Works well in markets with clear trends
- **Combination**: Use with other confluences for greater precision
- **Fine-tuning**: Adjust `ma_slow_period` and `signal_period` according to market
- **S&R**: Configure `sr_timeframe` to a higher timeframe than main (e.g., M15 if trading M1)
- **Cache**: Strategy uses cache to optimize S&R candle fetches

🔗 Confluence System

Confluences are additional conditions that must be met beyond the main strategy:

Available Confluences:

Position-Based (Averages vs Price):
- **EMA**: Checks if EMA_LENTA is below (CALL) or above (PUT) the price
- **EMA2**: Checks if BOTH (EMA_LENTA + EMA_RAPIDA) are on the same side of price
- **EMA3**: Checks if ALL (EMA_LENTA + EMA_RAPIDA + EMA_SINAL) are on the same side of price
- **SMA**: Checks if SMA_LENTA is below (CALL) or above (PUT) the price
- **SMA2**: Checks if BOTH (SMA_LENTA + SMA_RAPIDA) are on the same side of price
- **SMA3**: Checks if ALL (SMA_LENTA + SMA_RAPIDA + SMA_SINAL) are on the same side of price

Crossover-Based:
- **EMA_CROSS**: Signal when EMA_SINAL crosses EMA_LENTA (above=CALL, below=PUT)
- **SMA_CROSS**: Signal when SMA_SINAL crosses SMA_LENTA (above=CALL, below=PUT)

Other Indicators:
- **TREND**: General market trend analysis
- **PSAR**: Parabolic Stop and Reverse
- **MACD**: Moving average convergence divergence
- **ADX**: Average directional index (trend strength)
- **KELTNER**: Keltner channels
- **SAFE_KELTNER**: Safe Keltner channels
- **FRACTAIS/FRACTALS**: Williams fractals analysis

- **RSI**: Relative strength index
- **DONCHIAN**: Donchian channels
- **SUPPORT_RESISTANCE**: Support/Resistance with gap detection
- **CHOP**: Choppiness Index (trend vs choppy market filter)
- **PEARSON**: Pearson correlation between price series
- **STOCHASTIC**: Stochastic Oscillator (overbought/oversold)
- **QCS:alias**: A QuadCodeScript file used as a filter. The alias points to the `[QCS:alias]` section. See strategy 52

How It Works:

1. **Strategy** suggests CALL or PUT
2. **Confluences** confirm if the entry is good
3. **Result**: Higher precision, fewer operations, more profit

Recommended Configuration:

```
# Basic configuration (2-3 confluences)
confluencias = "EMA","RSI","ADX"

# Advanced configuration (multiple confluences)
confluencias = "TREND","EMA2","RSI","MACD","ADX"

# Configuration for crossovers
confluencias = "EMA_CROSS","SMA_CROSS","RSI"

# Configuration with Support & Resistance
confluencias = "SUPPORT_RESISTANCE","EMA3","ADX"
```

🔍 SUPPORT_RESISTANCE Confluence:

The **SUPPORT_RESISTANCE** confluence uses the same logic as strategy 43, but works as an additional filter to confirm signals from other strategies.

How to use as confluence:

```
[ESTRATEGIA]
estrategia = 39            # Winner Strategy
confluencias = "SUPPORT_RESISTANCE","EMA3"
```

Advantages:
- Confirms signals only when there are significant gaps
- Validates trend using moving averages
- Considers support and resistance levels
- Reduces false signals in lateral markets

Parameters (same as strategy):

```
[AJUSTES]
sr_ma_rapida = 9
sr_ma_lenta = 21
sr_gap_percentage = 0.1
sr_lookback = 20
sr_proximity = 0.2
sr_use_proximity = S
```

🔍 CHOP Confluence (Choppiness Index):

The **CHOP** confluence measures whether the market is in **trend** or **choppy** (lateral). It works as a filter to avoid trend trades in lateral markets.

How it works:
- **CHOP < chop_minimo (38.2)**: Market in trend → **Confirms** the signal
- **CHOP > chop_maximo (61.8)**: Choppy market → **Rejects** the signal
- **Intermediate zone**: Considers neutral and confirms the signal

How to use as confluence:

```
[ESTRATEGIA]
confluencias = "CHOP","EMA3","ADX"
```

Parameters:

```
[AJUSTES]
chop_periodo = 14        # Period for calculation (default: 14)
chop_atr_periodo = 1     # ATR period (default: 1)
chop_minimo = 38.2       # Value below = trend (default: 38.2)
chop_maximo = 61.8       # Value above = choppy (default: 61.8)
```

💡 **Tip:** Use CHOP with trend strategies (EMA Cross, ADX) to filter choppy markets where these indicators generate false signals.

🔍 PEARSON Confluence (Pearson Correlation):

The **PEARSON** confluence measures **linear correlation** between two price series. It indicates direction (CALL or PUT) based on correlation strength.

How it works:
- **Correlation ≥ pearson_minimo (0.5)**: Strong positive correlation → **CALL**
- **Correlation ≤ -pearson_minimo (-0.5)**: Strong negative correlation → **PUT**
- **Correlation between -0.5 and +0.5**: No significant correlation → **Rejects** the signal

How to use as confluence:

```
[ESTRATEGIA]
confluencias = "PEARSON","EMA","RSI"
```

Parameters:

```
[AJUSTES]
pearson_periodo = 30        # Period for calculation (default: 30)
pearson_minimo = 0.5        # Minimum absolute value for significant correlation (default: 0.5)
pearson_source1 = close     # Source 1: close, open, high, low, max, min
pearson_source2 = close     # Source 2: close, open, high, low, max, min
pearson_shift = 0           # Shift for source2 (default: 0)
```

💡 **Tip:** With `source1=close` and `source2=close` and `shift=1`, you can measure price autocorrelation. For different series comparison, use `max` / `min` or `high` / `low` with shift.

🔍 STOCHASTIC Confluence (Stochastic Oscillator):

The **STOCHASTIC** confluence identifies **overbought** and **oversold** conditions, indicating possible reversals.

How it works:
- **Stochastic ≥ stoch_sobrecompra (80)**: Overbought → **PUT** (expectation of reversal downward)
- **Stochastic ≤ stoch_sobrevenda (20)**: Oversold → **CALL** (expectation of reversal upward)
- **Intermediate zone**: No directional signal → **Rejects** the signal

How to use as confluence:

```
[ESTRATEGIA]
confluencias = "STOCHASTIC","RSI","EMA"
```

Parameters:

```
[AJUSTES]
stoch_k_periodo = 14      # %K period (default: 14)
stoch_d_periodo = 3       # %D period (default: 3)
stoch_smooth_k = 1        # %K smoothing (default: 1)
stoch_smooth_d = 3        # %D smoothing (default: 3)
stoch_sobrecompra = 80    # Overbought limit (default: 80)
stoch_sobrevenda = 20     # Oversold limit (default: 20)
```

💡 **Tip:** Stochastic is ideal for reversal strategies. Combine with RSI for confirmation in extreme zones.

🔍 QCS confluence (QuadCode Script):

The **QCS:alias** confluence runs a `.lua` script and lets the entry through only when the script points to the same side as the strategy. Neutral, the opposite side, a missing file, or a script error blocks the trade. Signal details (`advise`, `plot_shape`, the closed candle, and the available functions) are in **strategy 52**.

```
[ESTRATEGIA]
estrategia = 39
confluencias = "EMA","QCS:filtro"
qcs_vela_aberta = N

[QCS:filtro]
arquivo = qcs/filtro.lua
Period = 21
```

`Period` overrides the `input()` whose title is `"Period"`. The `arquivo` path is relative to the `config.txt` folder. Several filters can share the list, for example `"EMA","QCS:filtro","QCS:tendencia"`, each with its own section.

Configuration Examples with New Confluences:

```
# Trend filter (CHOP) + direction (EMA) + strength (ADX)
confluencias = "CHOP","EMA3","ADX"

# Price correlation (PEARSON) + trend (EMA)
confluencias = "PEARSON","EMA2","RSI"

# Reversal (STOCHASTIC + RSI) + confirmation (EMA)
confluencias = "STOCHASTIC","RSI","EMA_CROSS"

# Own strategy filtered by a QuadCode script
confluencias = "EMA","QCS:filtro"
```

---

6. RISK MANAGEMENT

🛡️ Available Risk Management Systems

The MALANGE robot offers three risk management systems:

1. MARTINGALE ⚠️ HIGH RISK

🎯 **Fundamental Concept:**
Martingale is a loss recovery system based on the theory that, statistically, a sequence of losses will eventually be followed by a win. When this happens, all previous losses are recovered with profit.

📊 **How It Works in Detail:**
1. **Base Value**: Defines the initial operation value
2. **After Loss**: Multiplies the value by the configured factor
3. **After Win**: Returns to original base value
4. **Level Limit**: Prevents excessive losses

🔢 **Detailed Practical Example:**

Scenario: Base value $10, Factor 2.0, Maximum 3 levels

OPERATION	VALUE	DIRECTION	RESULT	ACCUMULATED BALANCE	NEXT VALUE
1st Entry	$10	CALL	❌ LOSS	-$10	$20
2nd Entry	$20	PUT	❌ LOSS	-$30	$40
3rd Entry	$40	CALL	✅ WIN	+$10	$10

💰 **Profit Calculation:**
- Total investment: $70 (10+20+40)
- Win return: $80 (40 × 2.0)
- **Net profit: $10**

🎲 **Inversion Strategy (inverter_gale = N):**
When activated, the `inverter_gale` option makes:

- **1st entry**: Original strategy direction
- **Gale 1**: **Opposite** direction to previous
- **Gale 2**: **Opposite** direction to previous
- And so on...

Recommended Configuration:

```
[MARTINGALE]
usar_martingale = Y          # Activate Martingale system
niveis_martingale = 2        # MAXIMUM 2-3 LEVELS (never more!)
fator_martingale = 2.0       # Factor 2.0 (more conservative)
inverter_gale = N            # Invert direction on gale (default)
```

📈 **Martingale Advantages:**
- ✅ **Guaranteed recovery**: One win recovers all losses
- ✅ **Simplicity**: Easy to understand and configure
- ✅ **Effectiveness**: Works well in volatile markets
- ✅ **Control**: Level limit prevents excessive losses

⚠️ **Risks and Disadvantages:**
- ❌ **High Risk**: Can cause large losses quickly
- ❌ **Long sequences**: Markets can have many consecutive losses
- ❌ **Capital**: Requires significant capital to support losses
- ❌ **Psychological**: Can cause stress due to increasing values

🛡️ **MANDATORY Safety Rules:**
1. **ALWAYS test on DEMO account first**
2. **Use maximum 2-3 levels** (never more than that)
3. **Have sufficient capital** to support 3-4 consecutive losses
4. **Monitor constantly** the performance
5. **Stop immediately** if loss limit is reached
6. **Never use more than 20%** of your total capital

💡 **Tips for Beginners:**
- Start with **factor 2.0** (more conservative)

- Use **only 2 levels** initially
- Test with **low values** first ($5-10)
- **Never** use Martingale with more than 50% of your capital
- Consider using **stop loss** to limit total losses

2. SOROS 💰 LOW RISK

🎯 **Fundamental Concept:**
SOROS is a more conservative risk management system than Martingale. It was inspired by the strategies of the famous investor George Soros and focuses on **capital protection** and **gradual growth**.

📊 **How It Works in Detail:**
1. **After Win**: Increases the value of the next entry (progresses)
2. **After Loss**: Returns to base value (protects capital)
3. **After Draw**: Maintains current value (stability)
4. **Focus**: Capital protection above all

🔢 **Detailed Practical Example:**

Scenario: Base value $10, 2 SOROS levels

OPERATION	VALUE	RESULT	ACTION	NEXT VALUE	ACCUMULATED BALANCE
1st Entry	$10	✅ WIN	Progress	$15	+$7.50
2nd Entry	$15	✅ WIN	Progress	$20	+$22.50
3rd Entry	$20	❌ LOSS	Restart	$10	+$2.50
4th Entry	$10	✅ WIN	Progress	$15	+$10.00

📈 **Progression Strategy:**
SOROS uses a **smoother** progression than Martingale:

- **Level 1**: Base value (e.g., $10)
- **Level 2**: Base value × 1.5 (e.g., $15)

- **Level 3**: Base value × 2.0 (e.g., $20)
- **Level 4**: Base value × 2.5 (e.g., $25)

Recommended Configuration:

```
[SOROS]
usar_soros = Y        # Activate SOROS system
niveis_soros = 2      # 2 levels (RECOMMENDED for beginners)
```

Advanced Configuration:

```
[SOROS]
usar_soros = Y        # Activate SOROS system
niveis_soros = 3      # 3 levels (for experienced users)
```

📈 **SOROS Advantages:**
- ✅ **Capital protection**: Losses don't accumulate
- ✅ **Gradual growth**: Increases profits progressively
- ✅ **Lower risk**: Much more conservative than Martingale
- ✅ **Psychological**: Less stress than aggressive systems
- ✅ **Stability**: Less volatility in results
- ✅ **Simplicity**: Easy to understand and configure

⚠️ **Risks and Disadvantages:**
- ❌ **Slow growth**: Profits may be smaller
- ❌ **Sequence dependency**: Needs consecutive wins
- ❌ **Constant restart**: Losses make return to start
- ❌ **Less aggressive**: May not take advantage of opportunities

🛡️ **Safety Rules:**
1. **Use 1-2 levels** for beginners
2. **Monitor performance** regularly
3. **Adjust levels** according to your risk tolerance
4. **Combine with stop loss** for additional protection
5. **Test different configurations** on DEMO

💡 **Tips for Beginners:**
- Start with **1 level** only
- Use **low values** for testing
- **Combine with Martingale** for hybrid strategies
- **Monitor** win/loss frequency
- **Adjust** according to strategy performance

2.1. SOROS WITH PROTECTION 🛡️ 💰 MODERATE RISK

🎯 **Fundamental Concept:**
SOROS with Protection combines the **best of both worlds**: the **safety of SOROS** with the **recovery capacity of Martingale**. When there's a loss in SOROS, instead of returning to base value immediately, the system activates a **Martingale-type protection** to try to recover capital before restarting.

📊 **How It Works in Detail:**
1. **After SOROS Win**: Increases next entry value (progresses normally)
2. **After SOROS Loss**: Activates Martingale protection to recover
3. **Protection Success**: Returns to base value without accumulated loss
4. **Protection Failed**: Accepts the loss and returns to base value
5. **Focus**: Maximum capital protection with recovery chance

🔢 **Detailed Practical Example:**

Scenario: Base value $10, 1 SOROS level, 2 protection levels, factor 2.3

OPERATION	TYPE	VALUE	RESULT	ACTION	ACCUMULATED BALANCE
1st Entry	SOROS	$10	✅ WIN	Progress SOROS	+$8.70
2nd Entry	SOROS Level 1	$18.70	❌ LOSS	Activate Protection	-$10.00
3rd Entry	Protection G1	$23.00	❌ LOSS	Continue Protection	-$33.00
4th Entry	Protection G2	$52.90	✅ WIN	Recovered!	+$6.03
5th Entry	SOROS Restarted	$10	✅ WIN	Progress SOROS	+$14.73

📈 **Progression Strategy with Protection:**

SOROS Phase (growth):
- **Base Level**: Entry value (e.g., $10)
- **Level 1**: Base value + previous profit (e.g., $18.70)
- **Level 2**: Base value + accumulated profits (e.g., $27.40)

Protection Phase (after SOROS Loss):
- **Protection G1**: Base value × protection_factor (e.g., $10 × 2.3 = $23)
- **Protection G2**: G1 value × protection_factor (e.g., $23 × 2.3 = $52.90)
- **Protection G3**: G2 value × protection_factor (e.g., $52.90 × 2.3 = $121.67)

Recommended Configuration (Conservative):

```
[SOROS]
usar_soros = Y          # Activate SOROS
niveis_soros = 1        # 1 SOROS level (conservative)
usar_protecao = Y       # Activate protection
niveis_protecao = 2     # 2 recovery levels
fator_protecao = 2.3    # Default factor
```

Balanced Configuration:

```
[SOROS]
usar_soros = Y          # Activate SOROS
niveis_soros = 2        # 2 SOROS levels (balanced)
usar_protecao = Y       # Activate protection
niveis_protecao = 2     # 2 recovery levels
fator_protecao = 2.3    # Default factor
```

Aggressive Configuration (Advanced):

```
[SOROS]
usar_soros = Y          # Activate SOROS
niveis_soros = 2        # 2 SOROS levels
usar_protecao = Y       # Activate protection
niveis_protecao = 3     # 3 recovery levels (more risky)
fator_protecao = 2.3    # Default factor
```

📈 **SOROS with Protection Advantages:**

- ✅ **Double protection**: SOROS + Martingale combined
- ✅ **High recovery rate**: Many losses are recovered
- ✅ **Gradual growth**: Maintains SOROS progression
- ✅ **Flexibility**: Configurable according to risk profile
- ✅ **Better than pure Martingale**: Doesn't expose as much capital
- ✅ **Better than pure SOROS**: Recovers losses instead of accepting

⚠️ **Risks and Disadvantages:**

- ❌ **Moderate risk**: Riskier than pure SOROS
- ❌ **Capital exposure**: Protection may require high values
- ❌ **Bad sequences**: Multiple consecutive losses are dangerous
- ❌ **Complexity**: Requires understanding of both systems
- ❌ **May mask problems**: Bad strategy hidden by recovery

🛡️ **Safety Rules:**

1. **Start with 1-2 protection levels** only
2. **Monitor frequency** of protection activation
3. **If protection activates often**: Your strategy needs adjustment
4. **Configure stop loss**: Protection does NOT eliminate need for limit

5. **Test extensively on DEMO**: Understand risks before
6. **Don't use protection > 3 levels**: Risk of severe drawdown

💡 **Advanced Tips:**
- **Frequent protection?** Your strategy or confluences need adjustment
- **Use factor 2.3-2.5**: Balances recovery and exposure
- **Combine with stop loss**: Protection is last line of defense
- **Monitor maximum drawdown**: Should not exceed 20% of capital
- **Performance analysis**: Compare with and without protection

📊 **When to Use SOROS with Protection:**
- ✅ **Strategy with 55-65% accuracy**: Protection compensates occasional losses
- ✅ **Volatile markets**: Protection offers second chance
- ✅ **Intermediate trader**: Understands risks of both systems
- ✅ **Adequate capital**: Can support protection levels
- ❌ **Strategy < 50% accuracy**: Protection only delays inevitable
- ❌ **Limited capital**: Protection may deplete quickly
- ❌ **Beginner**: Start with pure SOROS or Fixed Hand

3. MASANIELLO 🧮 VERY HIGH RISK

🎯 **Fundamental Concept:**
Masaniello is a risk management system based on **complex mathematical algorithms** that calculate dynamic entry values using a **probability matrix**. It's an advanced system that adjusts entry values according to operation progress.

📊 **How It Works in Detail:**
1. **Probability Matrix**: Uses complex mathematical algorithms to calculate values
2. **Dynamic Values**: Each entry has a different value based on progress
3. **Average Payout**: Considers broker's average payout in calculations
4. **Stop Loss**: Uses loss limit as base for calculations
5. **Limited Events**: Operates with configured fixed number of events

🧮 **Masaniello Algorithm:**
The system uses a complex bidimensional matrix that considers:

- **Remaining number of events**
- **Current wins** vs **expected wins**
- **Broker's average payout**

- **Configured stop loss**
- **Current operation progress**

🔢 **How It Works in Practice:**

The MASANIELLO system automatically calculates entry values based on:

- **Configured Stop Loss** in config.txt file
- **Broker's average payout**
- **Remaining number of events**
- **Current progress** (wins/losses)

⚠️ **IMPORTANT**:
- Values are **automatically calculated** by the algorithm
- **Not fixed values** - change with each operation
- **Can increase significantly** as losses accumulate
- **Always monitor** values calculated by the robot

Recommended Configuration for Beginners:

```
[MASANIELLO]
usar_masaniello = Y     # Activate Masaniello system
num_eventos = 5         # 5 events (RECOMMENDED for beginners)
vitorias_esperadas = 1  # 1 expected win
```

Intermediate Configuration:

```
[MASANIELLO]
usar_masaniello = Y     # Activate Masaniello system
num_eventos = 8         # 8 events
vitorias_esperadas = 1  # 1 expected win
```

Advanced Configuration:

```
[MASANIELLO]
usar_masaniello = Y     # Activate Masaniello system
num_eventos = 10        # 10 events
vitorias_esperadas = 1  # 1 expected win
```

📊 **Configurations by Experience Level:**

LEVEL	EVENTS	EXPECTED WINS	RISK	RECOMMENDATION
Beginner	5	1	Very High	Use only on DEMO
Intermediate	8	1	Extreme	Use with extreme caution
Advanced	10	1	Extreme	For experienced users

📈 **Masaniello Advantages:**
- ✅ **Mathematical**: Based on advanced algorithms
- ✅ **Adaptive**: Adjusts values according to progress
- ✅ **Precise**: Considers real average payout
- ✅ **Controlled**: Limited number of events

⚠️ **Risks and Disadvantages:**
- ❌ **High Risk**: Can cause large losses quickly
- ❌ **Complexity**: Difficult to understand and predict
- ❌ **Increasing Values**: Values increase with losses
- ❌ **Payout Dependency**: Sensitive to payout changes
- ❌ **Stop Loss**: Can reach limit quickly

🛡️ **MANDATORY Safety Rules:**
1. **ALWAYS test on DEMO first**
2. **Use few events** (5-8 maximum)
3. **Configure low stop loss** to limit losses
4. **Monitor constantly** calculated values
5. **Stop immediately** if values get too high
6. **Never use more than 10%** of your capital

💡 **Tips for Beginners:**
- **DO NOT use on real account** until very experienced

- Start with **5 events and 1 win** only
- **Test extensively** on DEMO
- **Monitor** values calculated by robot in each operation
- **Stop immediately** if values get too high
- **Configure low stop loss** to limit losses

📊 System Comparison

SYSTEM	RISK	COMPLEXITY	RECOMMENDED FOR
SOROS	Low	Simple	Beginners
SOROS + PROTECTION	Moderate	Moderate	Intermediate
MARTINGALE	High	Simple	Experienced
MASANIELLO	Very High	Complex	Experts Only

🎯 Recommendations by Level

For Beginners:

- **Use only SOROS** with 1-2 levels
- **Never use Martingale or Masaniello** until experienced
- **Always test on DEMO** first

For Intermediates:

- **Use SOROS** as main system
- **SOROS with Protection** for better recovery
- **Martingale only** with very low values and on DEMO
- **DO NOT use Masaniello** yet
- **Monitor constantly** results

For Advanced:

- **Use SOROS and Martingale** according to strategy
- **Masaniello only** for experts with much capital
- **Adjust parameters** based on performance

- **Always have** stop loss configured

🚫 Safety Rules

1. **ALWAYS test on DEMO** before using real account
2. **Never use more than 50%** of your capital
3. **Configure stop loss** adequate
4. **Monitor constantly** performance
5. **Stop immediately** if loss limit is reached
6. **Don't increase values** after consecutive losses
7. **Have reserve** for emergencies
8. **Diversify strategies** to reduce risk

6.1. REPORTS AND OPERATIONS HISTORY

📊 Detailed Final Report

At the end of each trading session, the MALANGE robot generates a **complete report** with statistics and information about all operations performed.

📝 Report Components

The final report includes:

1. **Session Information**:
2. Broker used
3. Account type (DEMO/REAL/TOURNAMENT)
4. Strategy used
5. Active confluences
6. Active risk management
7. **Operation Statistics**:
8. Total operations performed
9. Total WIN vs LOSS (TRADES scoreboard)
10. Win rate (WIN / TOTAL)
11. Individual operations scoreboard (includes GALEs)
12. **Martingale/GALE Analysis**:
13. WIN without GALE
14. WIN in GALE 1, GALE 2, GALE 3, etc.
15. Victory distribution by level
16. **Financial Result**:
17. Total session profit/loss
18. Target achieved (%)

19. Variation over initial balance (%)
20. Final balance
21. **Time Information**:
22. Total execution time
23. End date and time
24. Robot version

📋 Detailed Operations History

New Feature: The robot now offers a **detailed history** of all individual operations performed during the session.

Detailed History Configuration

In the `[AJUSTES]` section of the `config.txt` file, you can control whether to display or hide the detailed history:

```
[AJUSTES]
# ... other settings ...
detalhar_operacoes = Y       # Display detailed history in final report (Y/N)
```

Parameter Explanation:
- **Y**: Shows detailed history of all operations (DEFAULT)
- **N**: Hides detailed history (useful for cleaner reports)

What the Detailed History Shows

When `detalhar_operacoes = Y`, the report includes:

1. **Operation Number**: Sequential number (1, 2, 3...)
2. **Time**: Operation execution time (HH:MM format)
3. **Asset**: Traded asset (e.g., EURUSD-OTC)
4. **Direction**: CALL (up) or PUT (down)
5. **Result**: WIN, LOSS, or DRAW

6. **GALE Level**: Shows if it was a recovery operation
7. Empty: Normal WIN/LOSS
8. (G1): WIN/LOSS in GALE 1
9. (G2): WIN/LOSS in GALE 2
10. (SOROS): WIN in SOROS progression
11. **PnL**: Profit/Loss of the operation with color coding
12. Green: Positive PnL (WIN)
13. Red: Negative PnL (LOSS)

Example of Detailed History

```
>> HISTÓRICO DETALHADO DAS OPERAÇÕES:
>> Total de operações registradas: 5
>>   1. 09:56 | USDHKD-OTC | CALL | LOSS | PnL: -101.43
>>   2. 09:57 | USDHKD-OTC | CALL | LOSS | PnL: -233.28
>>   3. 09:58 | USDHKD-OTC | CALL | WIN (G2) | PnL: +478.73
>>   4. 10:00 | USDNOK-OTC | PUT | LOSS | PnL: -102.87
>>   5. 10:01 | USDNOK-OTC | PUT | WIN (G1) | PnL: +211.04
```

Benefits of Detailed History

- ✅ **Complete transparency**: See all operations performed
- ✅ **Performance analysis**: Identify patterns and trends
- ✅ **Strategy validation**: Verify if strategy is working
- ✅ **Risk monitoring**: Track GALE usage frequency
- ✅ **Learning tool**: Understand robot behavior
- ✅ **Audit trail**: Complete record for analysis

When to Hide Detailed History

You may want to set `detalhar_operacoes = N` when:

- **Clean reports**: For presentation or sharing

- **Long sessions**: Many operations make report very long
- **Performance**: Faster report generation
- **Storage**: Smaller log files

---

7. NOTIFICATIONS AND TELEGRAM

📱 Telegram Configuration

The robot can send Telegram notifications to keep you informed about all operations. All Telegram configurations are in the [LOGIN] section of the config.txt file.

How to Get Chat ID:

1. **Open Telegram** on your phone or computer
2. **Search for** `@Tropical_OB_bot`
3. **Send** `/start` to authorize the bot
4. **Search for** `@BotFather`
5. **Send** `/start`
6. **Copy the number** that appears (e.g., 1234567890)
7. **Paste in config.txt file**:

```
[LOGIN]
telegram_chat_id = 1234567890
notificar_telegram = Y
```

Notification Types:

🚀 **Bot Start:**

```
🤖 MALANGE TRADING BOT v2.02.112
✅ Bot started successfully!
📊 Strategy: Winner Strategy (39)
💰 Entry value: $10
🎯 Target: $50 | 🛡️ Limit: $100
```

📈 **Entry Executed:**

📊 ENTRY EXECUTED
🕐 Time: 14:30:25
💰 Value: $10
📈 Direction: CALL
📊 Asset: EURUSD
⏱️ Timeframe: M1

✅ Result - Win:

🎉 WIN!
💰 Profit: $7.50
📊 Total: $17.50
📈 Next target: $32.50

❌ Result - Loss:

💔 LOSS
💸 Loss: $10.00
📊 Total: $90.00
🛡️ Remaining limit: $110.00

🎯 Target Reached:

🏆 TARGET REACHED!
💰 Total profit: $50.00
⏹️ Bot paused by stop win

🛡️ Loss Limit:

⚠️ LOSS LIMIT REACHED
💸 Total loss: $100.00
⏹️ Bot paused by stop loss

🔔 Notification Advantages

- 📱 **Real-time tracking** of all operations
- 🚨 **Receive alerts** for targets and limits
- 📊 **Monitor statistics** without being at computer
- ⚠️ **Be notified** of problems or errors
- 📈 **Track progress** anywhere

🛠️ Troubleshooting

Problem: Don't receive notifications
Solution:
1. Check if `notificar_telegram = Y`
2. Confirm Chat ID is correct
3. Test sending a message to `@BotFather`

Problem: Chat ID doesn't work
Solution:
1. **IMPORTANT**: Send `/start` to `@Tropical_OB_bot` to authorize the bot
2. Send `/start` again to `@BotFather`
3. Copy exact number (no spaces)
3. Save config.txt file

7.1. TRADER TIMER ZONE (TTZ) FILTER

The TTZ filter makes the robot trade only in the market colors you choose, based on the Trader Timer Zone dashboard. It uses TTZ's official colors API, which requires your own account, enabled by TTZ.

📋 Step 1: Create your Trader Timer Zone account

1. Go to tradertimerzone.com and create your account with **email and password**.
2. **Do not use "Sign in with Google"**: the robot needs the account email and password, and a Google sign-in has no TTZ password.
3. If you already signed up with Google, set a TTZ password or create a new account with email and password.

🔓 Step 2: Request access to the colors API

1. Sign in to TTZ with the account from step 1.
2. While signed in, open tradertimerzone.com/solicitar-api and send the request.
3. Wait for approval. Until then, the robot shows "access to the colors API not enabled" and does not trade with the filter on.

⚙️ Step 3: Configure the robot

Desktop robot (config.txt), `[AJUSTES]` section:

```
filtrar_ttz = Dark Green, Light Green, Blue
ttz_email = you@email.com
ttz_senha = "your TTZ password"
```

- Quote the password if it contains a comma or `#`.
- To test the account without starting the robot, run `python ttz.py` in the robot folder: it shows the current color, the next one and when it changes.

MALANGE CLOUD: in **Robots** → **Configure** → **Settings** → **Trader Timer Zone filter**, select the colors and fill in **TTZ email** and **TTZ password** in the box right below. The password is stored encrypted. Type a new one to change it, or leave it blank to keep the current one.

🎨 Available colors

COLOR	CODE
Blue	B
Dark green	D
Light green	L
Orange	O
Red	R
Wine	W

Older names still work: **Green** = Dark green, **Yellow** = Orange, **Dark Red** = Wine. "Yellow-green" no longer exists and is ignored.

🚦 How the robot behaves

- **Allowed color**: trades normally.
- **Color not allowed**: pauses entries and resumes by itself when the color changes.
- **Signal list** (`arquivo_de_sinais`): the filter applies too. A signal whose time falls in a color that is not allowed (or while TTZ is unavailable) is skipped and the robot moves to the next one. To use the list without the filter, turn TTZ off (`filtrar_ttz = N`).
- **TTZ unavailable** (account not enabled, wrong password, site down or expired reading): for safety, it **pauses entries** until a valid reading returns.
- On startup the robot already queries TTZ and logs the current color (or the account problem, if any). After that, the log shows one line per change, for example: `✅ TTZ: zona Verde claro (operando) | próxima: Verde escuro às 22:00`.
- In MALANGE CLOUD, the robot status screen shows the color the robot read.

🛠️ Common problems

MESSAGE	WHAT TO DO
`informe ttz_email e ttz_senha`	Fill in the TTZ account in the configuration
`e-mail ou senha do TTZ recusados`	Check email and password by signing in to the site. If the account was created with Google, set a password
`acesso à API de cores não liberado ou vencido`	Request access at tradertimerzone.com/solicitar-api or wait for approval
`limite de consultas/logins do TTZ atingido`	Wait; the robot retries by itself. Avoid using the same account on many robots at once
`TTZ indisponível (HTTP 503)`	TTZ instability; the robot resumes when the reading returns

⚠️ TTZ colors describe the market moment; **they are not buy or sell signals**.

8. TROUBLESHOOTING

🔧 Common Problems and Solutions

❌ Error: "Connection failure"

Cause: Incorrect credentials or network problems
Solution:
1. Check email and password in config.txt file
2. Test login manually on broker website
3. Check your internet connection

❌ Error: "Strategy not found"

Cause: Invalid strategy number
Solution:
1. Use only strategies 1 to 47
2. Check if number is correct in config.txt
3. Consult strategy list in estrategias.txt file

❌ Error: "config.txt file not found"

Cause: Missing configuration file
Solution:
1. Run robot again for interactive configuration
2. Or copy config.sample.txt to config.txt
3. Configure manually necessary options

❌ Error: "Telegram doesn't work"

Cause: Incorrect Chat ID or invalid configuration
Solution:
1. Get Chat ID correctly via @BotFather
2. Check if `notificar_telegram = Y`
3. Test sending a test message

❌ Error: "Insufficient balance"

Cause: Account balance smaller than entry value
Solution:
1. Check your account balance on broker
2. Reduce `valor_entrada` in config.txt
3. Make deposit in account if necessary

❌ Error: "Asset not available"

Cause: Specified asset not being traded
Solution:
1. Check broker operating hours
2. Wait a few minutes and try again
3. Check if broker is working normally

🔍 Important Checks

Before Using Robot:

1. ✅ **Test on DEMO** first
2. ✅ **Check credentials** in config.txt
3. ✅ **Confirm sufficient balance**
4. ✅ **Configure adequate stop loss**
5. ✅ **Choose appropriate strategy**

During Use:

1. ✅ **Monitor constantly** performance
2. ✅ **Check Telegram notifications**
3. ✅ **Don't change configurations** during operations
4. ✅ **Maintain stable** internet connection
5. ✅ **Keep backup** of config.txt

In Case of Problems:

1. 🔄 **Restart robot**

2. 📋 **Check error logs**
3. 🔧 **Fix configurations** if necessary
4. 📞 **Consult this manual** for solutions
5. 🛑 **Stop robot** if problems persist

📋 Checklist

Basic Configuration:
- [ ] config.txt file present
- [ ] Correct credentials (email/password)
- [ ] Account type selected (DEMO/REAL)
- [ ] Valid strategy (1-90)
- [ ] Entry values configured

Security:
- [ ] Stop loss configured
- [ ] Stop win configured
- [ ] Manual mode activated (for beginners)
- [ ] Low values for testing
- [ ] DEMO account for beginners

Notifications:
- [ ] Telegram configured (optional)
- [ ] Correct Chat ID
- [ ] Notifications activated
- [ ] Notification test working

---

9. TIPS AND BEST PRACTICES

💡 Tips for Beginners

🎯 Start Simple:

1. **Always use DEMO account** in first days
2. **Choose simple strategies** (1-2 stars)
3. **Configure low values** ($5-20)
4. **Use manual mode** to confirm operations
5. **Monitor constantly** results

📊 Recommended Strategies:

- **Winner Strategy (39)**: Most stable
- **Chinese (33)**: Simple and effective
- **Pattern D21 (17)**: Classic and tested

⚙️ Safe Configurations:

```
[AJUSTES]
conta = 1                # ALWAYS DEMO first
auto = N                 # Manual mode
valor_entrada = 10       # Low values
stop_win = 50            # Conservative target
stop_loss = 100          # Loss limit
estrategia = 39          # Winner Strategy
```

🚀 Tips for Intermediates

📈 Optimization:

1. **Test different strategies** to find the best
2. **Use confluences** for higher precision

3. **Configure SOROS** for risk management
4. **Monitor hours** of better performance
5. **Adjust parameters** based on results

🔗 **Effective Confluences:**

```
confluencias = "EMA","RSI","ADX"  # Good precision
confluencias = "TREND","MACD"     # For trends
confluencias = "RSI","FRACTAIS"   # For reversals
confluencias = "EMA","QCS:filtro" # Filter with a QuadCode script
```

⏰ **Recommended Hours:**

- **9h-12h**: European market active
- **14h-17h**: American market active
- **Avoid**: 12h-14h (low volatility)

🎯 **Tips for Advanced**

🧠 **Complex Strategies:**

1. **Combine multiple strategies** at different hours
2. **Use Martingale** with extreme caution
3. **Configure Masaniello** for specific targets
4. **Monitor multiple assets** simultaneously
5. **Analyze statistics** for optimization

⚡ **Advanced Optimization:**

```
[AJUSTES]
filtrar_ttz = Green, Light Green  # Only favorable hours
pay_minimo = 80                   # High payout
atualizar_pares = 30              # Update assets every 30min
```

📊 **Performance Analysis:**

- **Win rate**: Should be > 60%
- **Average profit**: Monitor per session
- **Maximum drawdown**: Don't exceed 20%
- **Operation time**: Optimize hours

🛡️ **Safety Rules**

💰 **Capital Management:**

1. **Never risk more than 5%** of capital per day
2. **Always use stop loss**
3. **Don't increase values** after losses
4. **Have reserve** for emergencies
5. **Diversify strategies** to reduce risk

🧠 **Trading Psychology:**

1. **Maintain emotional discipline**
2. **Don't trade** under stress or fatigue
3. **Accept losses** as part of process
4. **Don't chase losses** with higher values
5. **Celebrate wins** but maintain humility

🔧 **Maintenance:**

1. **Make regular backup** of config.txt
2. **Update robot** when available
3. **Monitor error logs**
4. **Test configurations** before using
5. **Keep record** of results

📚 Additional Resources

📖 Documentation:

- **estrategias.txt**: Complete strategy list
- **config.sample.txt**: Configuration examples
- **README.md**: Technical documentation
- **Official website**: https://malange.com.br/

🔗 Useful Links:

- **Supported Brokers**:
- **Avalon**: https://avalonbroker.com
- **Atriun**: https://atriunbroker.finance
- **Broker10**: https://broker10.com
- **Bullex**: https://bullex.com
- **CasaTrade**: https://casatrade.com
- **CapitalBear**: https://capitalbear.com
- **DayProfit**: https://dayprofit.com
- **Exnova**: https://exnova.com
- **IQ Option**: https://iqoption.com
- **MangoTrade**: https://mangotrade.com
- **Nyrion**: https://nyrion.com
- **OptgoBroker**: https://optgobroker.com
- **Polarium**: https://polarium.com
- **Telegram**: https://telegram.org
- **TraderTimeZone**: For hour analysis
- **Community forum**: For doubts and support

Support:

1. **Consult this manual** first
2. **Check official documentation**
3. **Test on DEMO** before reporting problems
4. **Provide detailed logs** when reporting bugs
5. **Be specific** when describing problems

---

10. FULL CONFIG.TXT REFERENCE

This section is a **checklist** of options the robot reads from `config.txt` (or the cloud equivalent). The source of truth is **`config.sample.txt`**; keys read in code but missing from the sample appear in the tables below. **Defaults** may come from the sample or from `ConfigManager` / `malange.py` when a key is absent.

Conventions

- **Y/N**: `S`, `SIM`, `Y`, `YES`, `TRUE`, `1` are truthy; other values are false.
- **Lists**: usually **comma-separated**; the parser strips outer quotes when present.
- **`valor_entrada`**, **`stop_win`**, **`stop_loss`**: fixed number **or** balance percentage with `%` suffix (e.g. `5%`).
- **Credentials**: `email` / `senha` in `[LOGIN]` may be empty if encrypted credentials already exist.

Section `[LOGIN]`

KEY	DESCRIPTION
`corretora`	Broker id (e.g. `iqoption`, `avalon`, ...)
`email`	Account email (optional if using credential file)
`senha`	Password (optional ditto)
`notificar_telegram`	Y/N — Telegram alerts
`telegram_chat_id`	Chat id (numeric)

Section `[AJUSTES]` — operation, account, UI

KEY	DESCRIPTION
`idioma`	`pt-BR` , `en-US` , `es-ES`
`auto`	Automatic mode Y/N (**use with caution**)
`conta`	`1` DEMO, `2` REAL, `3` TOURNAMENT
`tipo`	`digital` , `binario` , `tudo` (broker-dependent)
`valor_entrada`	Amount or `%` of balance
`stop_win`	Profit target (amount or `%`)
`stop_loss`	Loss limit (amount or `%`)
`recarregar_config`	Y/N — watch file changes at runtime
`ocultar_valores`	Y/N
`atualizar_pares`	Minutes between pair refreshes; `0` disables
`limite_win` , `limite_loss` , `limite_duracao`	Total or time limits (`0` = unlimited)
`max_win_consecutivo` , `max_loss_consecutivo`	Streak limits (`0` = off)
`negativar_em_loss`	Y/N — blacklist on LOSS until next catalog refresh
`entrada_invertida`	Y/N — invert CALL/PUT vs strategy signal
`pay_minimo`	Minimum payout (%)
`ativo`	Asset name or `par` to rotate
`min_volume`	Volume filter; `0` off

KEY	DESCRIPTION
`filtrar_ttz`	`N` off; else allowed TTZ colors (comma)
`ttz_email`, `ttz_senha`	TTZ account enabled for the colors API (required when `filtrar_ttz` is on)
`filtrar_ativos`, `ignorar_ativos`	Comma lists (substring in asset name)
`usar_catalogacao`, `arquivo_catalogacao`	Manual pair catalog
`arquivo_de_sinais`, `delimitador_de_sinais`	Signal file
`interface`	`moderna` / `adaptativa` or `basica` / `classica`
`detalhar_operacoes`	Y/N — detail in report (`reports.py`)
`exp`	Legacy in sample; expiry mainly follows **`timeframe`** in `[ESTRATEGIA]`

Section `[AJUSTES]` — indicators and numeric filters

GROUP	KEYS
RSI	rsi_minimo , rsi_maximo , rsi_compra_inicio , rsi_compra_final , rsi_venda_inicio , rsi_venda_final , rsi_periodo
ADX	adx_minimo , adx_maximo , adx_periodo
EMA / MACD	ema_rapida , ema_lenta , ema_sinal , macd_rapida , macd_lenta , macd_sinal
SMA	sma_rapida , sma_lenta , sma_sinal
Keltner	keltner_periodo , keltner_deslocamento , keltner_media (ema / sma per strategy)
Fractals / Donchian	fractal_periodo , donchian_periodo
CHOP	chop_periodo , chop_atr_periodo , chop_minimo , chop_maximo
Pearson	pearson_periodo , pearson_minimo , pearson_source1 , pearson_source2 , pearson_shift
Stochastic	stoch_k_periodo , stoch_d_periodo , stoch_smooth_k , stoch_smooth_d , stoch_sobrecompra , stoch_sobrevenda
ALMA	alma_length , alma_sigma , alma_distribution_offset , alma_lenta , alma_rapida , alma_sinal
Chinese strategy	chinesa_periodo , chinesa_sma_a , chinesa_sma_b , chinesa_ema , chinesa_sma_b_o , chinesa_sma_a_o
Trend / sequence	min_sequencia , max_sequencia , velas_tendencia , fator_tendencia , max_tendencia , max_trend , trend_threshold , reversal_candles
S/R (e.g. strat 43)	sr_ma_rapida , sr_ma_lenta , sr_gap_percentage , sr_lookback , sr_proximity , sr_use_proximity

GROUP	KEYS
Price Logic (46)	pl_lookback , pl_proximity_pct , pl_allow_breakout , pl_confirmar_teste_nivel , pl_min_channel_pct , pl_exigir_comando_unico , pl_evitar_apos_marubozu , pl_wick_max_pct , pl_taxa_dividida_reforca
FIT (47)	fit_ma_fast , fit_ma_slow , fit_signal
SEAL	seal_ma_fast_period , seal_ma_slow_period , seal_ma_trend_period , seal_ma_avg , seal_sync_resolution , seal_filter_resolution , seal_signal_period , seal_use_engulfing_ma_aligned , seal_use_macd_cross , seal_use_macd_zero , seal_use_histo_zero

Section `[MARTINGALE]`

usar_martingale , niveis_martingale , fator_martingale , somente_recuperacao , inverter_gale , gale_oposto — usage in **Chapter 6** of this manual.

Section `[MASANIELLO]`

usar_masaniello , num_eventos , vitorias_esperadas , payout_medio , reiniciar_ciclos .

Section `[SOROS]`

usar_soros , niveis_soros , multiplicador_soros (legacy interactive flows), usar_protecao , niveis_protecao , fator_protecao .

Section `[DAYSHIN]`

ma_fast_period , ma_slow_period , signal_period , ma_value , sr_timeframe , sr_candles_count .

Section `[ESTRATEGIA]`

estrategia , tipo , confluencias , timeframe , qnt_velas , max_segundo_entrada . For strategy **52**: qcs_scripts , qcs_combinar (todas , maioria , qualquer), qcs_vela_aberta (N or S).

Section `[QCS:alias]`

One section per QuadCode script. `arquivo` is the `.lua` file. The other keys override `input()` by the title declared in the script (`Period = 21` matches `input(..., "Period", ...)`). The alias is written in `confluencias` as `QCS:alias` . For strategy 52, the section also applies when the alias is the file name without the extension.

Optional `[CONFLUENCIAS]`

`confluencias` — same as in `[ESTRATEGIA]` ; useful to centralize the list.

Optional `[TELEGRAM]`

`token` , `chat_id` , `notificar_entrada` , `notificar_resultado` (may coexist with `[LOGIN]` depending on build).

Section `[CLOUD]` (container / `--robot-id`)

`db_url` **or** `db_host` , `db_port` , `db_user` , `db_password` , `db_name` — Malange Cloud DB; env priority as in `config.sample.txt` comments.

Valid confluences (shortcut)

Typical values: `TREND` , `EMA` , `EMA2` , `EMA3` , `SMA` , `SMA2` , `SMA3` , `PSAR` , `MACD` , `ADX` , `KELTNER` , `SAFE_KELTNER` , `RSI` , `FRACTAIS` , `DONCHIAN` , `SMA_CROSS` , `EMA_CROSS` , `ALMA` , `ALMA2` , `ALMA_CROSS` , and `QCS:alias` — use the exact spelling your build expects (see interactive assistant messages). `QCS:alias` requires a `[QCS:alias]` section with `arquivo` .

📝 CONCLUSION

The **MALANGE Trading Bot** is a powerful tool for automated binary options trading. With its 52 public strategies (public range up to 90), multiple risk management systems, and user-friendly interface, it offers a complete solution for both beginners and experienced traders.

🎯 Important Reminders:

1. ⚠️ **Trading involves risks** - You can lose money
2. 🧪 **Always test on DEMO** before using real account
3. 📚 **Study and understand** strategies before using
4. 🛡️ **Use adequate risk management**
5. 📱 **Configure notifications** to track operations
6. 🔄 **Keep robot updated** with latest versions

🚀 Next Steps:

1. **Download robot** from official website
2. **Run interactive configuration**
3. **Test on DEMO account** for a few days
4. **Analyze results** and adjust configurations
5. **When confident**, consider using real account with low values

📞 Support and Updates:

- **Official website**: https://malange.com.br/
- **Updates**: Always available on website
- **Documentation**: Consult this manual and included files
- **Community**: Participate in forums and user groups

🤖 **MALANGE Trading Bot v2.02.112**

Automated Trading System for Binary Options

⚠️ **LEGAL DISCLAIMER**: This software is provided "as is" for educational purposes. The use of this robot is entirely the user's responsibility. The developers are not responsible for financial losses arising from the use of this software. Always test on DEMO account before using real money.

Manual created in English for beginner users

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