

Retail Sentiment Index Indicator – Project Brief

1. Overview

An MT5 indicator that fetches live retail sentiment data from multiple brokers via their APIs, plots each broker's net sentiment as a moving average line overlaid on the chart, and optionally displays a weighted average line when more than one broker feed is visible.

2. Data Sources

Broker	Default Color	Notes
OandaFX	Green	Extract via API
Dukascopy	Red	Extract via API
Myfxbook	Orange	Extract via API
IG Sentiment	Purple	Extract via API
Average Weighted	Deep Sky Blue	3x thicker line

3. Data Processing

- Net sentiment formula: $\text{Net Sentiment (\%)} = \text{Long Positions (\%)} - \text{Short Positions (\%)}$
- Each broker's net sentiment is plotted as a moving average line.
- Moving average type configurable (default: SMA).
- Period length user-defined.

4. Plotting Rules

- Each broker feed has a customizable color.
- Weighted average line appears only if ≥ 2 broker feeds are visible.
- Weighted average = mean of visible broker values.
- Average line thickness = 3x other lines.

5. Symbol Auto-Detection

When attached to a chart:

1. Detect current chart's symbol.
2. Fetch sentiment data only for that symbol.
3. Skip brokers without matching data.

6. Display Options

- Default: overlay sentiment lines on candlestick chart.
- Option to display in separate window/dashboard.
- Lines auto-scale to chart view.

7. User Inputs

- API Keys / Endpoints
- Enable/Disable Broker Feeds
- Color Settings

- Moving Average Period
- Moving Average Type
- Enable Average Weighted Line
- Separate Dashboard Mode

8. Technical Notes

- API calls must be efficient.
- Real-time updating.
- Error handling for missing/unavailable data.
- Buffer-based plotting for smooth lines.
- Compatible with offline charts if historical sentiment available.

9. Flow Diagram

