

TradingView Alerts Extractor

Overview

Automated Node.js script using Puppeteer to extract TradingView alerts data and export to CSV format.

- Type of Project:** Web Scrapping
- Technology Stack:** Node.js, Puppeteer, XLSX
- Output Format:** CSV file
- Browser Mode:** Non-headless (visible)

Prerequisites

Required Packages

```
npm install puppeteer
npm install xlsx
```

Required Information

Parameter	Description	Where to Find
YOURCHARTID	TradingView chart identifier	URL of your saved chart
YOURSESSIONID	TradingView session cookie	Browser DevTools → Application → Cookies

IMPORTANT: Replace YOURCHARTID and YOURSESSIONID with your actual values before running the script.

Configuration

Browser Settings

```
const browser = await puppeteer.launch({
  headless: false,           // Shows browser window
  defaultViewport: null,     // Uses default viewport
  args: ['--start-maximized'] // Starts maximized
});
```

Authentication

```
await page.setCookie({
  name: 'sessionid',
  value: 'YOURSESSIONID', // Replace with actual session ID
  domain: '.tradingview.com'
});
```

Script Flow

Execution Steps

- 1. Browser Launch:** Opens Puppeteer browser in visible mode
- 2. Navigation:** Goes to TradingView chart URL
- 3. Authentication:** Sets session cookie and reloads page
- 4. Panel Check:** Verifies if alerts panel is open, opens if needed
- 5. List Navigation:** Clicks on list tab to show alerts
- 6. Data Extraction:** Iterates through alerts, hovers for tooltips
- 7. Scrolling:** Auto-scrolls to load more alerts
- 8. CSV Generation:** Converts extracted data to CSV format
- 9. Download:** Triggers browser download of CSV file

Data Extraction Process

Alert Processing Loop

```
while (true) {
  const alerts = await page.$$alertSelector); // Get visible alerts

  // Process each alert
  for (let i = 0; i < alerts.length; i++) {
    await alerts[i].hover(); // Hover to show tooltip
    await new Promise(r => setTimeout(r, 1500)); // Wait for tooltip

    // Extract tooltip text
    const tooltipText = await page.evaluate(() => {
      // Find element containing Strategy text
    });
  }

  // Scroll for more alerts
  await page.evaluate((container) => {
    el.scrollBy(0, 200); // Incremental scroll
  });
}
```

Data Parsing

Field	Extraction Method
Alert Name	Line before "Strategy" text
Strategy Name	Text before opening parenthesis
Parameters	Content inside parentheses, split by comma
Symbol	First part of line after strategy
Timeframe	Parts separated by bullet (•)
Created Date	Line starting with "Created:"

Selectors Reference

Key DOM Selectors

Element	Purpose
Alerts Panel	Check if alerts widget is open
List Tab (#list)	Switch to list view of alerts
Alert Items	Individual alert entries
Scroll Container	Container for scrolling through alerts

Timing Configuration

Wait Times

Operation	Wait Time	Purpose
Page Load	5000ms	Initial page load after cookie set
Panel Open	2000ms	Wait for alerts panel to open
Tooltip Hover	1500ms	Wait for tooltip to appear
Scroll	1000ms	Wait after scrolling
Before Close	3000ms	Wait before closing browser

Output Format

CSV Structure

The generated CSV file contains extracted alert data in columnar format:

- Alert Name
- Strategy Name
- Strategy Parameters (multiple columns)
- Symbol
- Timeframe Components
- Creation Date

File Output

```
Filename: tradingview_alerts.csv
Location: Browser default download folder
```

Error Handling

Scroll Detection

```
// Check if we've reached the end
const scrolledBefore = await page.evaluate((container) => {
  return el ? el.scrollTop : 0;
});

// Attempt to scroll
await page.evaluate((container) => {
  el.scrollBy(0, 200);
});

// Check new position
const scrolledAfter = await page.evaluate((container) => {
  return el ? el.scrollTop : 0;
});

// Exit if no more scrolling possible
if (scrolledBefore === scrolledAfter) {
  console.log('Reached end of list');
  break;
}
```

Usage Instructions

1. **Install Dependencies:**

```
npm install puppeteer xlsx
```

2. **Get Session ID:**

- Open TradingView in browser
- Login to your account
- Open DevTools (F12)
- Go to Application → Cookies
- Find and copy sessionId value

3. **Get Chart ID:**

- Open your saved chart
- Copy the ID from URL after /chart/

4. **Update Script:**

- Replace YOURCHARTID with actual chart ID
- Replace YOURSESSIONID with actual session ID

5. **Run Script:**

```
node scriptname.js
```

Console Output

Log Messages

Message	Meaning
Script started!	Script initialization
Starting browser...	Puppeteer launch
Going to chart...	Navigation started
Processing alert X...	Processing specific alert number
Reached end of list	All alerts processed
CSV download started	File download initiated