🦔 Sonic Collectible Bundle Hunter

Automated web scraper for finding profitable Sonic collectible bundles across eBay, Mercari, and Facebook Marketplace.

🚀 Quick Setup

1. Installation

```bash
bash

# Create project directory
mkdir sonic-bundle-hunter
cd sonic-bundle-hunter

# Copy these files:
# - sonic_hunter.js (main script)
# - config.js (configuration)
# - package.json (dependencies)

# Install dependencies
npm install

# Install browser
npx playwright install chromium
```

2. Configuration

Facebook Login (Optional but Recommended)

You have 3 options for Facebook Marketplace access:

Option 1: Environment Variables (Most Secure)

```bash
bash

export FB_EMAIL="your-facebook-email@example.com"
export FB_PASSWORD="your-facebook-password"
```

Option 2: Edit config.js

```javascript
javascript
```

```javascript
facebook: {
  email: "your-facebook-email@example.com",
  password: "your-facebook-password",
  enabled: true
}
```

Option 3: Interactive Prompt

- The script will ask for credentials when you run it
- Leave blank to skip Facebook Marketplace

Search Settings

Edit config.js to customize:

```javascript
search: {
  maxPricePerItem: 25,        // Maximum price to search for
  maxResultsPerPlatform: 20,  // Results per platform
  searchDelay: 3000,          // Delay between searches (ms)
  facebookDelay: 5000         // Extra delay for Facebook
}
```

3. Run the Hunt

```bash
npm run hunt
```

🎯 What It Does

Platforms Searched

- **eBay**: Full search with price filtering
- **Mercari**: Complete marketplace search
- **Facebook Marketplace**: Requires login (2FA supported)

Target Items (from your strategy)

- GE Sonic plush
- GE Shadow plush
- GE Tails plush
- GE Knuckles plush

- Boom8 Sonic figure
- Boom8 Shadow figure

Bundle Analysis

Automatically identifies opportunities for these profitable bundles:

1. **Hero Team Plush Pack**
   - GE Sonic + Tails + Knuckles plushes
   - Target cost: $60 → Resale: $120

2. **Shadow & Rivals Collector Set**
   - GE Shadow + Sonic plushes + Boom8 Shadow figure
   - Target cost: $70 → Resale: $145

📊 Results

Files Generated

```
sonic_results/
├────── sonic_collectibles_2025-08-03.json  # Complete data with bundle analysis
├────── sonic_collectibles_2025-08-03.csv   # Spreadsheet format
└────── images/                 # Product photos
    ├────── item_001.jpg
    └────── item_002.jpg
```

Data Includes

- **Item Details**: Title, price, condition, shipping
- **Platform Info**: eBay/Mercari/Facebook with direct links
- **Bundle Opportunities**: Profit calculations and viability
- **Images**: Product photos for verification
- **Timestamps**: When items were found

🛠️ Customization

Add More Search Terms

Edit `config.js`:

```
javascript
```

```javascript
strategy: {
 targetItems: [
   'GE Sonic plush',
   'SA2 Shadow figure',     // Add new items
   'Resaurus Tails',
   'SEGA official Amy'
 ]
}
```

Create New Bundles

```javascript
javascript

bundles: [
 {
   name: "Custom Bundle Name",
   items: ["Item 1", "Item 2", "Item 3"],
   targetCost: 50,
   resaleValue: 100,
   minMargin: 60  // Minimum profit margin %
 }
]
```

Browser Settings

```javascript
javascript

browser: {
 headless: false,   // true = no browser window
 slowMo: 1000,      // Delay between actions
 timeout: 30000     // Page load timeout
}
```

🔧 Troubleshooting

Facebook Issues

- **2FA Required**: Script will pause for manual completion
- **Security Check**: Complete in browser, then press Enter
- **Login Failed**: Check credentials and try again
- **Rate Limited**: Increase `facebookDelay` in config

General Issues

- **Browser Not Found**: Run `npx playwright install chromium`

- **Network Errors**: Increase delays in config
- **Missing Results**: Check if sites have changed their layouts
- **Permission Errors**: Make sure you have write access to the folder

Facebook 2FA Workflow

1. Script starts Facebook login
2. If 2FA appears, complete it manually in the browser
3. Press Enter in terminal when done
4. Script continues automatically

📈 Using Results

High-Value Opportunities

Look for items in the JSON results with:

- `viable: true` in bundle analysis
- High profit margins (>50%)
- Multiple available items for same bundle

Quick Wins

- Sort CSV by price (lowest first)
- Look for "Brand New" condition items
- Check seller ratings and shipping costs
- Cross-reference with current eBay sold listings

Bundle Strategy

1. **Buy the cheapest items first** (they sell fastest)
2. **Complete bundles before listing** (higher perceived value)
3. **Take quality photos** of the complete bundle
4. **Use keywords from config** in your listings

💡 Pro Tips

- Run the script daily for best item availability
- Set up Google Sheets import for the CSV files
- Use the downloaded images for your listings
- Track your actual buy/sell prices vs. estimates
- Adjust target margins based on your results

🚨 Important Notes

- **Respect rate limits**: Don't run too frequently

- **Follow platform ToS**: Use results responsibly

- **Verify items**: Always check photos and descriptions

- **Facebook security**: Use app passwords if available

- **Stay updated**: Platforms change their layouts regularly

Need help? Check the generated JSON file for detailed bundle analysis and profitability calculations!