

Power Redact Plugin v2.0 - Complete Usage Guide

Comprehensive guide for using the Power Redact Plugin to protect sensitive information in your Obsidian notes.

Overview

The Power Redact Plugin v2.0 is an advanced text redaction tool designed to identify, hide, and protect sensitive information in your notes. It uses intelligent pattern detection and customizable redaction styles to ensure your private data remains secure.

Quick Start

Basic Redaction

1. Select Text to Redact:

- Highlight the sensitive text in your note
- Right-click and select "Redact Selected Text"
- Or use the command palette: `Ctrl+P` → "Power Redact: Redact Selection"

2. Automatic Pattern Detection:

- The plugin automatically detects common patterns:
 - Social Security Numbers (123-45-6789)
 - Email addresses (user@example.com)
 - Phone numbers (555-123-4567)
 - Credit card numbers (4532-1234-5678-9012)

3. View Redacted Content:

- Redacted text appears as: ████████ (blackout style)
- Hover over redacted text to see redaction info
- Use "Show/Hide Redactions" to toggle visibility

Pattern Detection System

Built-in Patterns

The plugin includes pre-configured patterns for common sensitive data:

Social Security Numbers

Pattern: `\b\d{3}-\d{2}-\d{4}\b`
Examples: 123-45-6789, 987-65-4321

Email Addresses

Pattern: `\b[A-Za-z0-9._%+-]+\@[A-Za-z0-9.-]+\.[A-Z|a-z]{2,}\b`
Examples: `user@example.com`, `john.doe@company.org`

Phone Numbers

Pattern: `\b\d{3}-\d{3}-\d{4}\b`
 Examples: 555-123-4567, 800-555-0199

Credit Card Numbers

Pattern: `\b\d{4}[\s-]?\d{4}[\s-]?\d{4}[\s-]?\d{4}\b`
 Examples: 4532-1234-5678-9012, 4532 1234 5678 9012

Custom Patterns

Create your own redaction patterns for specific needs:

1. Open Settings:

- Settings → Community Plugins → Power Redact Plugin → Options

2. Add Custom Pattern:

```
json
{
  "name": "Employee ID",
  "pattern": "EMP\d{6}",
  "flags": "gi",
  "style": "hash",
  "enabled": true
}
```

3. Pattern Examples:

```
```regex
IP Addresses
\b(?:\d{1,3}\.){3}\d{1,3}\b
```

# License Plates

```
[A-Z]{3}-\d{4}
```

# Medical Record Numbers

```
MRN\d{8}
```

# Bank Account Numbers

```
\b\d{10,12}\b
```
```

Pattern Priority System

When multiple patterns match the same text:

1. **Specific patterns** take priority over general ones
2. **Longer matches** take priority over shorter ones
3. **Custom patterns** take priority over built-in patterns
4. **Manual redactions** take priority over automatic ones

Redaction Styles

Available Styles

1. Blackout (Default)

Original: My SSN **is** 123-45-6789
Redacted: My SSN **is** [REDACTED]

Configuration:

```
{  
  "style": "blackout",  
  "character": "█",  
  "preserveLength": true  
}
```

2. Blur Effect

Original: My SSN is 123-45-6789
Redacted: My SSN is [blurred text]

Configuration:

```
{  
  "style": "blur",  
  "blurRadius": "3px",  
  "showOnHover": false  
}
```

3. Hash Replacement

Original: My SSN **is** 123-45-6789
Redacted: My SSN **is** [REDACTED-A7B9C2]

Configuration:

```
{  
  "style": "hash",  
  "hashLength": 6,  
  "prefix": "[REDACTED-",  
  "suffix": "]"  
}
```

4. Custom Replacement

Original: My SSN **is** 123-45-6789
Redacted: My SSN **is** [PRIVATE]

Configuration:

```
{
  "style": "custom",
  "replacement": "[PRIVATE]",
  "preserveCase": false
}
```

Style Customization

CSS Customization

```
/* Custom redaction styles */
.power-redact-blackout {
  background-color: #000;
  color: #000;
  border-radius: 2px;
}

.power-redact-blur {
  filter: blur(3px);
  transition: filter 0.3s ease;
}

.power-redact-blur:hover {
  filter: blur(0px);
}

.power-redact-hash {
  background-color: #ff6b6b;
  color: white;
  padding: 2px 4px;
  border-radius: 3px;
  font-family: monospace;
}
```

Batch Processing

Process Multiple Files

1. Select Files:

- Use file explorer to select multiple files
- Or use folder selection for entire directories

2. Configure Batch Settings:

```
json
{
  "batchSize": 10,
  "patterns": ["ssn", "email", "phone"],
  "style": "blackout",
  "createBackups": true,
  "skipBinaryFiles": true
}
```

3. Run Batch Process:

- Command palette: "Power Redact: Batch Process Files"

- Monitor progress in status bar
- Review results in batch report

Batch Processing Options

File Filters

```
{
  "includeExtensions": [".md", ".txt"],
  "excludeExtensions": [".pdf", ".docx"],
  "includeFolders": ["Private", "Confidential"],
  "excludeFolders": ["Public", "Archive"],
  "maxFileSize": "10MB"
}
```

Processing Settings

```
{
  "concurrent": 5,
  "timeout": 30000,
  "retryAttempts": 3,
  "skipErrors": true,
  "logLevel": "info"
}
```

Batch Report

After processing, review the detailed report:

```
Batch Processing Report
=====
Files Processed: 45/50
Successful: 43
Failed: 2
Skipped: 5

Patterns Found:
- SSN: 12 matches
- Email: 28 matches
- Phone: 15 matches

Processing Time: 2.3 seconds
Average per File: 0.05 seconds
```



Undo and Redo

Undo System

The plugin maintains a complete history of redaction operations:

1. Undo Last Action:

- **Ctrl+Z** or Command palette: "Power Redact: Undo"
- Reverts the most recent redaction

2. Redo Action:

- `Ctrl+Y` or Command palette: "Power Redact: Redo"
- Reapplies a previously undone redaction

3. View History:

- Command palette: "Power Redact: Show History"
- See all redaction operations with timestamps

History Management

```
{
  "historyLimit": 100,
  "persistHistory": true,
  "autoCleanup": true,
  "cleanupInterval": "7d"
}
```

Selective Undo

Undo specific redactions without affecting others:

1. **Right-click on redacted text**
2. **Select "Undo This Redaction"**
3. **Confirm the action**



Export and Security

Secure Export

Control how redacted content appears in exports:

Export Settings

```
{
  "exportRedacted": false,
  "exportStyle": "placeholder",
  "includeMetadata": false,
  "sanitizeOutput": true
}
```

Export Formats

1. Markdown Export:

```
```markdown
Original
My SSN is 123-45-6789

Exported (redacted)
My SSN is [REDACTED]
```
```

1. PDF Export:

- Redacted text appears as black bars
- Cannot be selected or copied
- Maintains document formatting

2. HTML Export:

```
```html
```

```
My SSN is [REDACTED]
```

```
```
```

Security Features

Data Protection

- **Memory Cleanup:** Sensitive data cleared from memory
- **Secure Storage:** Patterns encrypted in settings
- **Audit Trail:** All redaction operations logged
- **Access Control:** Permission-based redaction viewing

Privacy Settings

```
{
  "encryptPatterns": true,
  "clearClipboard": true,
  "disableScreenshots": false,
  "auditLogging": true,
  "sessionTimeout": 3600
}
```

Advanced Configuration

Settings Overview

Access comprehensive settings through:

Settings → Community Plugins → Power Redact Plugin → Options

Core Settings

```
{
  "enabled": true,
  "autoDetect": true,
  "realTimeRedaction": false,
  "defaultStyle": "blackout",
  "showNotifications": true,
  "debugMode": false
}
```

Performance Settings

```
{
  "maxFileSize": "50MB",
  "processingTimeout": 30000,
  "cacheResults": true,
  "cacheExpiry": "1h",
  "workerThreads": 2
}
```

UI Settings

```
{
  "showStatusBar": true,
  "showProgressBar": true,
  "contextMenuEnabled": true,
  "keyboardShortcuts": true,
  "tooltips": true
}
```

Keyboard Shortcuts

Default shortcuts (customizable):

| Action | Shortcut | Description |
|-------------------|--------------|----------------------------|
| Redact Selection | Ctrl+Shift+R | Redact selected text |
| Toggle Redactions | Ctrl+Shift+T | Show/hide all redactions |
| Undo Redaction | Ctrl+Z | Undo last redaction |
| Redo Redaction | Ctrl+Y | Redo last undone redaction |
| Quick Settings | Ctrl+Shift+S | Open quick settings panel |

Command Palette Commands

All available commands:

- **Power Redact: Redact Selection** - Redact selected text
- **Power Redact: Redact All Patterns** - Auto-redact all detected patterns
- **Power Redact: Toggle Redactions** - Show/hide redacted content
- **Power Redact: Undo Last** - Undo most recent redaction
- **Power Redact: Redo Last** - Redo most recent undo
- **Power Redact: Clear History** - Clear undo/redo history
- **Power Redact: Batch Process** - Process multiple files
- **Power Redact: Export Settings** - Export plugin configuration
- **Power Redact: Import Settings** - Import plugin configuration
- **Power Redact: Reset Settings** - Reset to default settings



Troubleshooting

Common Issues

Pattern Not Detected

Problem: Custom pattern doesn't match expected text

Solutions:

1. **Test Regex:** Use online regex tester to validate pattern
2. **Check Flags:** Ensure correct flags (g, i, m) are set

3. **Escape Characters:** Properly escape special regex characters
4. **Pattern Priority:** Check if other patterns are taking precedence

Example Fix:

```
# Wrong
\d{3}-\d{2}-\d{4}

# Correct
\\b\\d{3}-\\d{2}-\\d{4}\\b
```

Performance Issues

Problem: Slow redaction on large files

Solutions:

1. **Reduce File Size:** Split large files into smaller ones
2. **Disable Real-time:** Turn off real-time redaction
3. **Limit Patterns:** Use only necessary patterns
4. **Increase Timeout:** Adjust processing timeout settings

Redaction Not Visible

Problem: Redacted text appears normal

Solutions:

1. **Check Style Settings:** Verify redaction style is configured
2. **CSS Conflicts:** Check for theme CSS conflicts
3. **Plugin Conflicts:** Disable other plugins temporarily
4. **Refresh View:** Reload the note or restart Obsidian

Error Messages

“Pattern Compilation Failed”

```
Error: Invalid regular expression: Unterminated character class
```

Fix: Check regex syntax, especially character classes `[...]`

“File Too Large”

```
Error: File exceeds maximum size limit (50MB)
```

Fix: Increase `maxFileSize` setting or split the file

“Permission Denied”

```
Error: Cannot write to file - permission denied
```

Fix: Check file permissions and Obsidian vault access

Debug Mode

Enable debug mode for detailed logging:

1. Enable Debug Mode:

```
json
{
  "debugMode": true,
  "logLevel": "debug"
}
```

2. View Debug Logs:

- Open Developer Console (`Ctrl+Shift+I`)
- Look for “PowerRedact” log entries
- Copy relevant logs for support requests

3. Debug Information:

```
javascript
// Console commands for debugging
PowerRedact.getPatterns();
PowerRedact.getSettings();
PowerRedact.testPattern("your-regex-here", "test text");
```



Integration with Other Plugins

Compatible Plugins

Templater Integration

```
// Templater script for automatic redaction
<%*
const redactedContent = await app.plugins.plugins['power-redact'].api.processText(tp.file.content);
await tp.file.rename(tp.file.title + " (Redacted)");
%>
```

Dataview Integration

```
TABLE WITHOUT ID
  file.name as "File",
  PowerRedact.getRedactionCount(file) as "Redactions"
FROM "Private"
WHERE PowerRedact.hasRedactions(file)
```

Advanced Tables Integration

- Redact sensitive data in table cells
- Batch process tables with personal information
- Export tables with redacted content

API for Developers

```
// Plugin API interface
interface PowerRedactAPI {
  processText(text: string, patterns?: string[]): Promise<string>;
  addPattern(name: string, pattern: RegExp): void;
  removePattern(name: string): void;
  getPatterns(): Pattern[];
  redactSelection(): void;
  toggleRedactions(): void;
  undo(): void;
  redo(): void;
}

// Usage example
const api = app.plugins.plugins['power-redact'].api;
const redacted = await api.processText("SSN: 123-45-6789");
```



Usage Analytics

Redaction Statistics

View detailed statistics about your redaction usage:

1. Access Statistics:

- Command palette: "Power Redact: Show Statistics"
- Or Settings → Power Redact → Statistics tab

2. Available Metrics:

...

Total Redactions: 1,247

Files Processed: 89

Patterns Used:

- SSN: 45 (3.6%)
- Email: 523 (41.9%)
- Phone: 234 (18.8%)
- Custom: 445 (35.7%)

Most Active Day: Monday

Average per File: 14 redactions

...

1. Export Statistics:

- Export as CSV for analysis
- Generate reports for compliance
- Track redaction trends over time



Compliance and Legal

Regulatory Compliance

The Power Redact Plugin helps with various compliance requirements:

GDPR (General Data Protection Regulation)

- **Right to Erasure:** Redact personal data on request
- **Data Minimization:** Hide unnecessary personal information
- **Privacy by Design:** Automatic detection of personal data

HIPAA (Health Insurance Portability and Accountability Act)

- **PHI Protection:** Redact protected health information
- **Audit Trails:** Track all redaction operations
- **Access Controls:** Limit who can view redacted content

SOX (Sarbanes-Oxley Act)

- **Financial Data:** Redact sensitive financial information
- **Document Retention:** Maintain redacted versions for compliance
- **Audit Support:** Generate compliance reports

Best Practices

1. **Regular Audits:** Review redaction patterns monthly
2. **Staff Training:** Ensure team knows how to use redaction properly
3. **Backup Strategy:** Maintain both original and redacted versions
4. **Access Logging:** Monitor who accesses redacted content
5. **Pattern Updates:** Keep redaction patterns current with regulations



Additional Resources

Documentation Links

- [Installation Guide](#) (../INSTALLATION.md)
- [Architecture Overview](#) (../ARCHITECTURE.md)
- [Development Guide](#) (../DEVELOPMENT.md)
- [Integration Guide](#) (INTEGRATION_GUIDE.md)

Community Resources

- [GitHub Issues](https://github.com/memorymusicllc/power.components/issues) (https://github.com/memorymusicllc/power.components/issues)
- [GitHub Discussions](https://github.com/memorymusicllc/power.components/discussions) (https://github.com/memorymusicllc/power.components/discussions)
- [Plugin Wiki](https://github.com/memorymusicllc/power.components/wiki) (https://github.com/memorymusicllc/power.components/wiki)

Support Channels

- **Bug Reports:** GitHub Issues
 - **Feature Requests:** GitHub Discussions
 - **General Help:** Community Discord
 - **Enterprise Support:** enterprise@memorymusic.com
-



Quick Reference


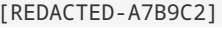
Essential Commands

Redact Selection: Ctrl+Shift+R
 Toggle Redactions: Ctrl+Shift+T
 Undo: Ctrl+Z
 Redo: Ctrl+Y
 Settings: Ctrl+Shift+S

Common Patterns

SSN: \\b\\d{3}-\\d{2}-\\d{4}\\b
 Email: \\b[\\w._%+-]+@[\\w.-]+\\. [A-Z|a-z]{2,}\\b
 Phone: \\b\\d{3}-\\d{3}-\\d{4}\\b
 Credit Card: \\b\\d{4}[\\s-]?\\d{4}[\\s-]?\\d{4}[\\s-]?\\d{4}\\b

Style Options

- **blackout:** 
- **blur:** CSS blur effect
- **hash:** 
- **custom:** User-defined replacement

Need more help? Check the [Integration Guide](#) (INTEGRATION_GUIDE.md) to learn how to use Power Redact with Power Canvas and other plugins.