

miniCycle Modularization Guide v3.0

The Multi-Pattern Approach: Choose the Right Tool for the Job

Error Handling & Logging Standards

Each pattern has specific error handling rules to keep console output clean and meaningful:

Pattern	Error Strategy	Logging Level	When to Throw
Static Utility ⚡	Return safe defaults	<code>console.warn</code> only	Never
Simple Instance	Graceful fallbacks	<code>console.warn</code> + fallback	Never
Resilient Constructor	Degrade gracefully	<code>console.warn</code> + user notification	Never
Strict Injection	Fail fast	<code>throw</code> + <code>showNotification('error')</code>	Missing deps

Examples:

```
javascript

// Static Utility - warn and return safe default
static safeGetElement(id) {
```

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