











<input checked="" type="checkbox"/> CATEGORIES	11
<input checked="" type="checkbox"/>  Architectural	14
<input checked="" type="checkbox"/>  Behavioral	19
<input checked="" type="checkbox"/>  Business Tier	2
<input checked="" type="checkbox"/>  Concurrency	15
<input checked="" type="checkbox"/>  Creational	15
<input checked="" type="checkbox"/>  Integration	6
<input checked="" type="checkbox"/>  Other	14
<input checked="" type="checkbox"/>  Persistence Tier	3
<input checked="" type="checkbox"/>  Presentation Tier	4
<input checked="" type="checkbox"/>  Structural	11
<input checked="" type="checkbox"/>  Testing	1
<input checked="" type="checkbox"/> TAGS	13
<input checked="" type="checkbox"/> Apache Camel™	2
<input checked="" type="checkbox"/> Difficulty-Beginner	45
<input checked="" type="checkbox"/> Difficulty-Expert	5
<input checked="" type="checkbox"/> Difficulty-Intermediate	46
<input checked="" type="checkbox"/> EIP	5
<input checked="" type="checkbox"/> Functional	7
<input checked="" type="checkbox"/> Gang Of Four	23
<input checked="" type="checkbox"/> I/O	3
<input checked="" type="checkbox"/> Idiom	8
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<input checked="" type="checkbox"/> Performance	11
<input checked="" type="checkbox"/> Reactive	7
<input checked="" type="checkbox"/> Spring	4




logging...

API Gateway (/patterns/api-gateway/)

difficulty-intermediate java spring

 architectural**Abstract Document** (/patterns/abstract-document/)

Abstract Factory (/patterns/abstract-factory/)	difficulty-intermediate	gang of four	java	difficulty-intermediate	java	structural
+ creational						
Adapter (/patterns/adapter/)	difficulty-beginner	gang of four	java	structural		
Aggregator Microservices (/patterns/aggregator-microservices/)			java	spring	architectural	
Async Method Invocation (/patterns/async-method-invocation/)	difficulty-intermediate	functional	java	reactive		
Balking (/patterns/balking/)	difficulty-beginner	java		concurrency		
concurrency						
Bridge (/patterns/bridge/)	difficulty-intermediate	gang of four	java	structural		
Builder (/patterns/builder/)						
Business Delegate (/patterns/business-delegate/)	difficulty-intermediate	gang of four	java	+ creational		
CQRS (/patterns/cqrs/)	difficulty-intermediate	java		business tier		
Caching (/patterns/caching/)	architectural			difficulty-intermediate	java	performance
				? other		
Callback (/patterns/callback/)						
Chain of responsibility (/patterns/chain/)	difficulty-beginner	functional	idiom	java	? other	
Command (/patterns/command/)	difficulty-intermediate	gang of four	java	behavioral		
Composite (/patterns/composite/)	difficulty-intermediate	functional	gang of four	java	behavioral	
Converter (/patterns/converter/)	difficulty-intermediate	gang of four	java	structural		
difficulty-beginner	java					
Data Access Object (/patterns/dao/)	business tier			difficulty-beginner	java	persistence tier
Data Bus (/patterns/data-bus/)						
Data Mapper (/patterns/data-mapper/)	difficulty-intermediate	java		architectural		
difficulty-beginner	java					
Data Transfer Object (/patterns/data-transfer-object/)	persistence tier			difficulty-beginner	java	architectural
Decorator (/patterns/decorator/)						

Delegation (/patterns/delegation/)	difficulty-beginner	gang of four	java	 structural
Dependency Injection (/patterns/dependency-injection/)	difficulty-beginner	java	behavioral	
Double Checked Locking (/patterns/double-checked-locking/)	difficulty-beginner	idiom	java	behavioral
Double Dispatch (/patterns/double-dispatch/)	difficulty-intermediate	idiom	java	concurrency
EIP Aggregator (/patterns/eip-aggregator/)			eip	java
EIP Message Channel (/patterns/eip-message-channel/)				integration
EIP Publish Subscribe (/patterns/eip-publish-subscribe/)		apache camel™	eip	java
EIP Splitter (/patterns/eip-splitter/)		apache camel™	eip	java
EIP Wire Tap (/patterns/eip-wire-tap/)			eip	java
Event Aggregator (/patterns/event-aggregator/)				integration
Event Driven Architecture (/patterns/event-driven-architecture/)	difficulty-beginner	java	reactive	structural
Event Queue (/patterns/event-queue/)	difficulty-intermediate	java	reactive	architectural
Event Sourcing (/patterns/event-sourcing/)		java	concurrency	
Event-based Asynchronous (/patterns/event-asynchronous/)		java	performance	architectural
Execute Around (/patterns/execute-around/)		java	concurrency	
Extension objects (/patterns/extension-objects/)	difficulty-beginner	idiom	java	behavioral
Facade (/patterns/facade/)				
Factory Kit (/patterns/factory-kit/)	difficulty-beginner	gang of four	java	structural
Factory Method (/patterns/factory-method/)	difficulty-beginner	gang of four	java	creational
Feature Toggle (/patterns/feature-toggle/)				

Fluent Interface (/patterns/fluentinterface/)	difficulty-beginner	java	⚙️ behavioral
Flux (/patterns/flux/)	difficulty-intermediate	functional	java ? other
Flyweight (/patterns/flyweight/)	difficulty-intermediate	java	📖 presentation tier
Front Controller (/patterns/front-controller/)	difficulty-intermediate	gang of four	java performance 🏢 structural
Guarded Suspension (/patterns/guarded-suspension/)	difficulty-intermediate	java	📖 presentation tier
Half-Sync/Half-Async (/patterns/half-sync-half-async/)	difficulty-beginner	java	🗨️ concurrency
Hexagonal Architecture (/patterns/hexagonal/)	difficulty-intermediate	java	🗨️ concurrency
Intercepting Filter (/patterns/intercepting-filter/)	difficulty-expert	java	🏢 architectural
Interpreter (/patterns/interpreter/)	difficulty-intermediate	java	⚙️ behavioral
Iterator (/patterns/iterator/)	difficulty-intermediate	gang of four	java ⚙️ behavioral
Layers (/patterns/layers/)	difficulty-beginner	gang of four	java ⚙️ behavioral
Lazy Loading (/patterns/lazy-loading/)	difficulty-intermediate	java	spring 🏢 architectural
Marker Interface (/patterns/marker/)	difficulty-beginner	idiom	java performance ? other
Mediator (/patterns/mediator/)	difficulty-beginner	java	? other
Memento (/patterns/memento/)	difficulty-intermediate	gang of four	java ⚙️ behavioral
Model-View-Controller (/patterns/model-view-controller/)	difficulty-intermediate	gang of four	java ⚙️ behavioral
Model-View-Presenter (/patterns/model-view-presenter/)	difficulty-intermediate	java	📖 presentation tier
Module (/patterns/module/)	difficulty-intermediate	java	📖 presentation tier
Monad (/patterns/monad/)	difficulty-beginner	java	+ creational
MonoState (/patterns/monostate/)	difficulty-expert	functional	java ? other

Multiton (/patterns/multiton/)	difficulty-beginner java + creational
Mute Idiom (/patterns/mute-idiom/)	difficulty-beginner java + creational
Mutex (/patterns/mutex/)	difficulty-beginner idiom java ? other
Naked Objects (/patterns/naked-objects/)	difficulty-intermediate java 🗨 concurrency
Null Object (/patterns/null-object/)	difficulty-expert java 🏠 architectural
Object Mother (/patterns/object-mother/)	difficulty-beginner java ⚙ behavioral
Object Pool (/patterns/object-pool/)	difficulty-beginner java + creational
Observer (/patterns/observer/)	difficulty-beginner java performance + creational
Page Object (/patterns/page-object/)	difficulty-beginner gang of four java reactive ⚙ behavioral
Partial Response (/patterns/partial-response/)	difficulty-intermediate java ☰ testing difficulty-beginner java 🏠 architectural
Poison Pill (/patterns/poison-pill/)	difficulty-intermediate java reactive ? other
Private Class Data (/patterns/private-class-data/)	difficulty-beginner idiom java ? other
Producer Consumer (/patterns/producer-consumer/)	difficulty-intermediate i/o java reactive 🗨 concurrency
Promise (/patterns/promise/)	difficulty-intermediate functional java reactive
Property (/patterns/property/)	difficulty-beginner java 🗨 concurrency + creational
Prototype (/patterns/prototype/)	difficulty-beginner gang of four java + creational
Proxy (/patterns/proxy/)	difficulty-beginner gang of four java + creational
Queue based load leveling (/patterns/queue-load-leveling/)	difficulty-beginner gang of four java 🏠 structural
Reactor (/patterns/reactor/)	difficulty-intermediate java performance ? other
	difficulty-expert i/o java 🗨 concurrency

Reader Writer Lock (/patterns/reader-writer-lock/)	difficulty-intermediate i/o java performance
Repository (/patterns/repository/)	🗨 concurrency
Resource Acquisition Is Initialization (/patterns/resource-acquisition-is-initialization/)	difficulty-intermediate java spring 🗨 persistence tier
Retry (/patterns/retry/)	difficulty-beginner idiom java ? other
Semaphore (/patterns/semaphore/)	difficulty-expert java performance ? other difficulty-intermediate java 🗨 concurrency
Servant (/patterns/servant/)	difficulty-beginner java 🏠 structural
Service Layer (/patterns/service-layer/)	difficulty-intermediate java 🏠 architectural
Service Locator (/patterns/service-locator/)	difficulty-beginner java performance 🏠 structural
Singleton (/patterns/singleton/)	difficulty-beginner gang of four java + creational
Specification (/patterns/specification/)	difficulty-beginner java 🗨 behavioral
State (/patterns/state/)	difficulty-intermediate gang of four java 🗨 behavioral
Step Builder (/patterns/step-builder/)	difficulty-intermediate java + creational
Strategy (/patterns/strategy/)	difficulty-beginner gang of four java 🗨 behavioral
Template method (/patterns/template-method/)	difficulty-beginner gang of four java 🗨 behavioral
Thread Local Storage (/patterns/tls/)	difficulty-intermediate java 🗨 concurrency
Thread Pool (/patterns/thread-pool/)	difficulty-intermediate java performance 🗨 concurrency
Throttling (/patterns/throttling/)	difficulty-beginner java 🗨 behavioral
Tolerant Reader (/patterns/tolerant-reader/)	difficulty-beginner java ➡ integration
Trampoline (/patterns/trampoline/)	difficulty-intermediate java performance
Twin (/patterns/twin/)	difficulty-intermediate java + creational
Unit Of Work (/patterns/unit-of-work/)	difficulty-intermediate java + creational

Value Object (/patterns/value-object/)

difficulty-beginner java

 architectural

difficulty-beginner java

Visitor (/patterns/visitor/) **+** creational



serverless (/patterns/serverless/)

difficulty-intermediate gang of four java

 behavioral

difficulty-intermediate java

 architectural*Currently showing 105 Patterns of 105 Patterns total*

 Github Repository (<https://github.com/iluwatar/java-design-patterns>) · Designed by  markusmo3
(<https://github.com/markusmo3>) · Commit [a0d79af](https://github.com/iluwatar/java-design-patterns/commit/a0d79af9090e61d05c57ad67f9a9bb4adbd8ed6b) (<https://github.com/iluwatar/java-design-patterns/commit/a0d79af9090e61d05c57ad67f9a9bb4adbd8ed6b>)