

Instructions













How is it going? Do you have problems with practical tasks? Any concerns with learning materials? 0 responses













What do you remember from the previous workshop?



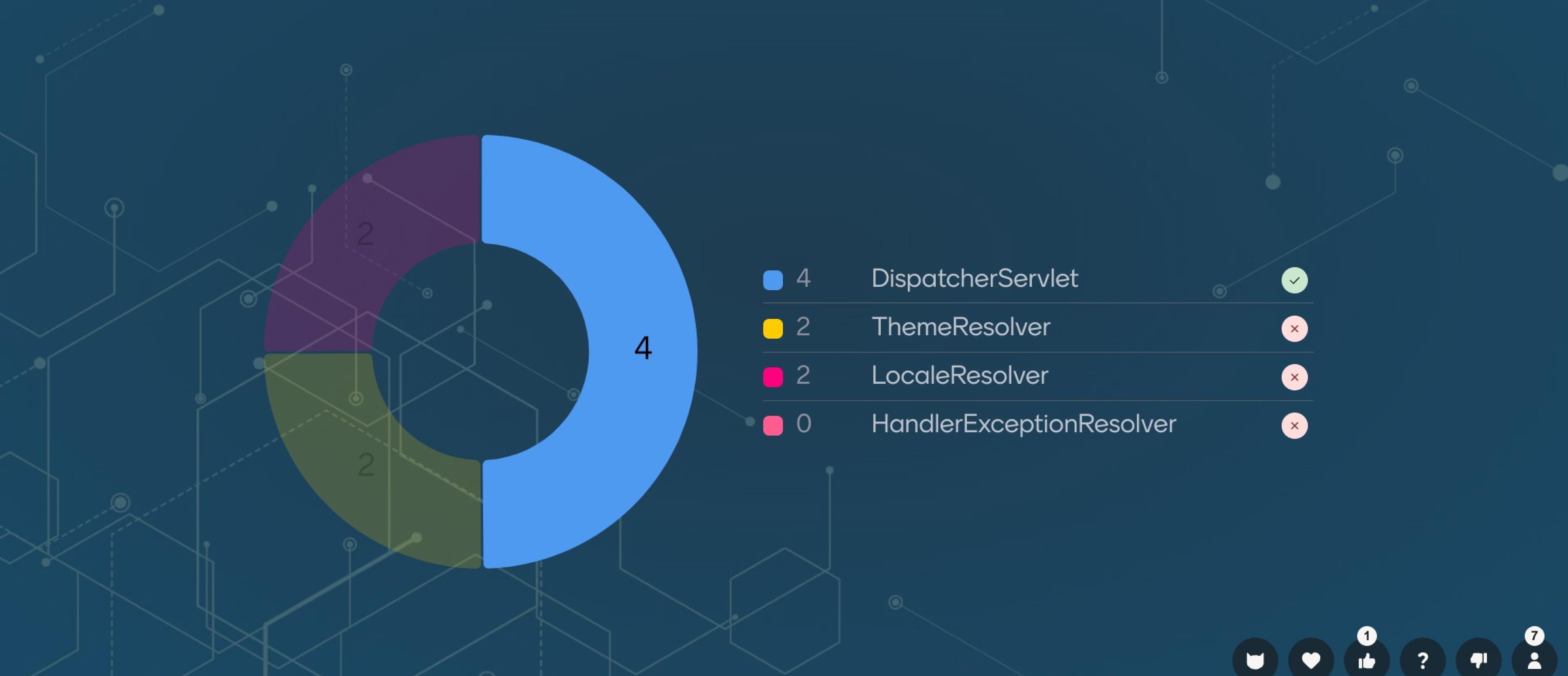




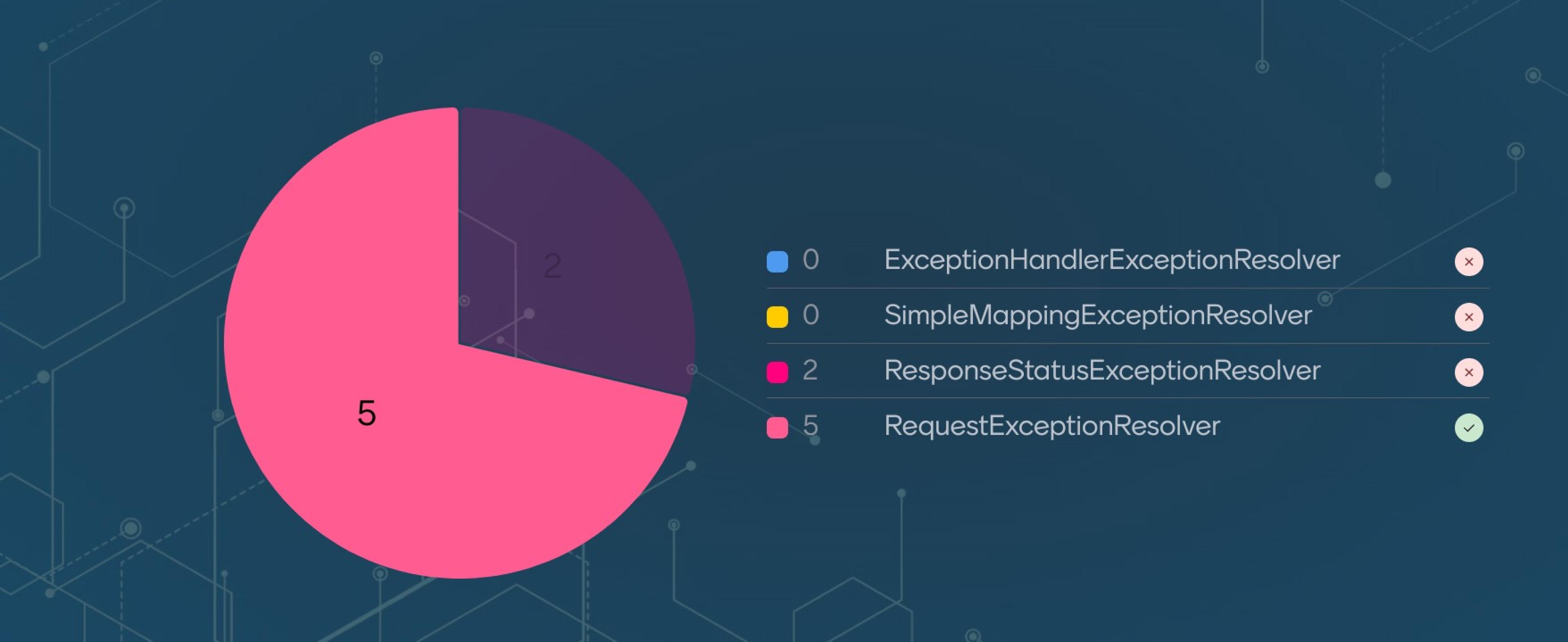




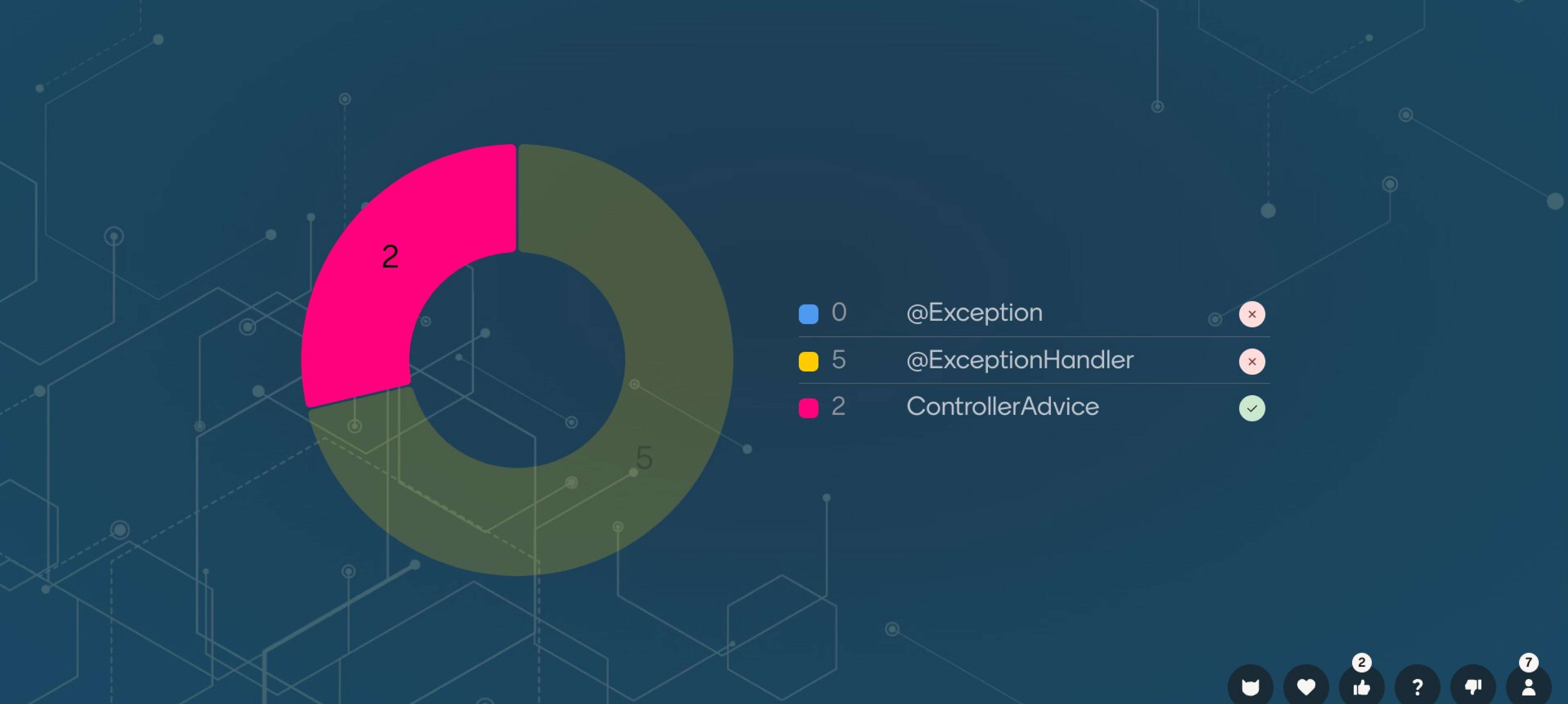
Which of the following is NOT a special bean type in Spring MVC?



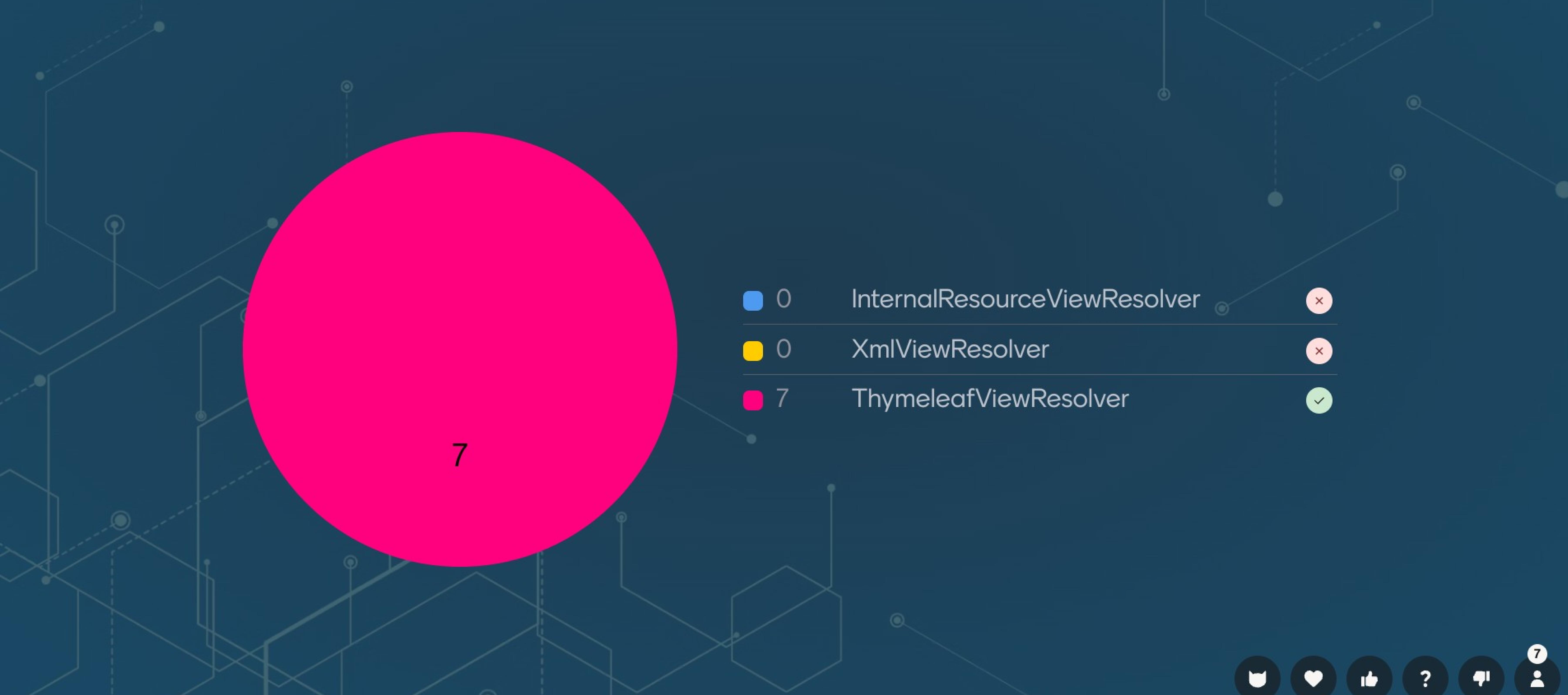
Which one is NOT exception handler class?



Which annotation is used to define a global exception handler method in a Spring MVC controller?



Which of the following is NOT a built-in implementation of the ViewResolver interface in Spring MVC?

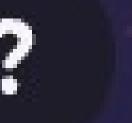


Spring AOP (ws-21)

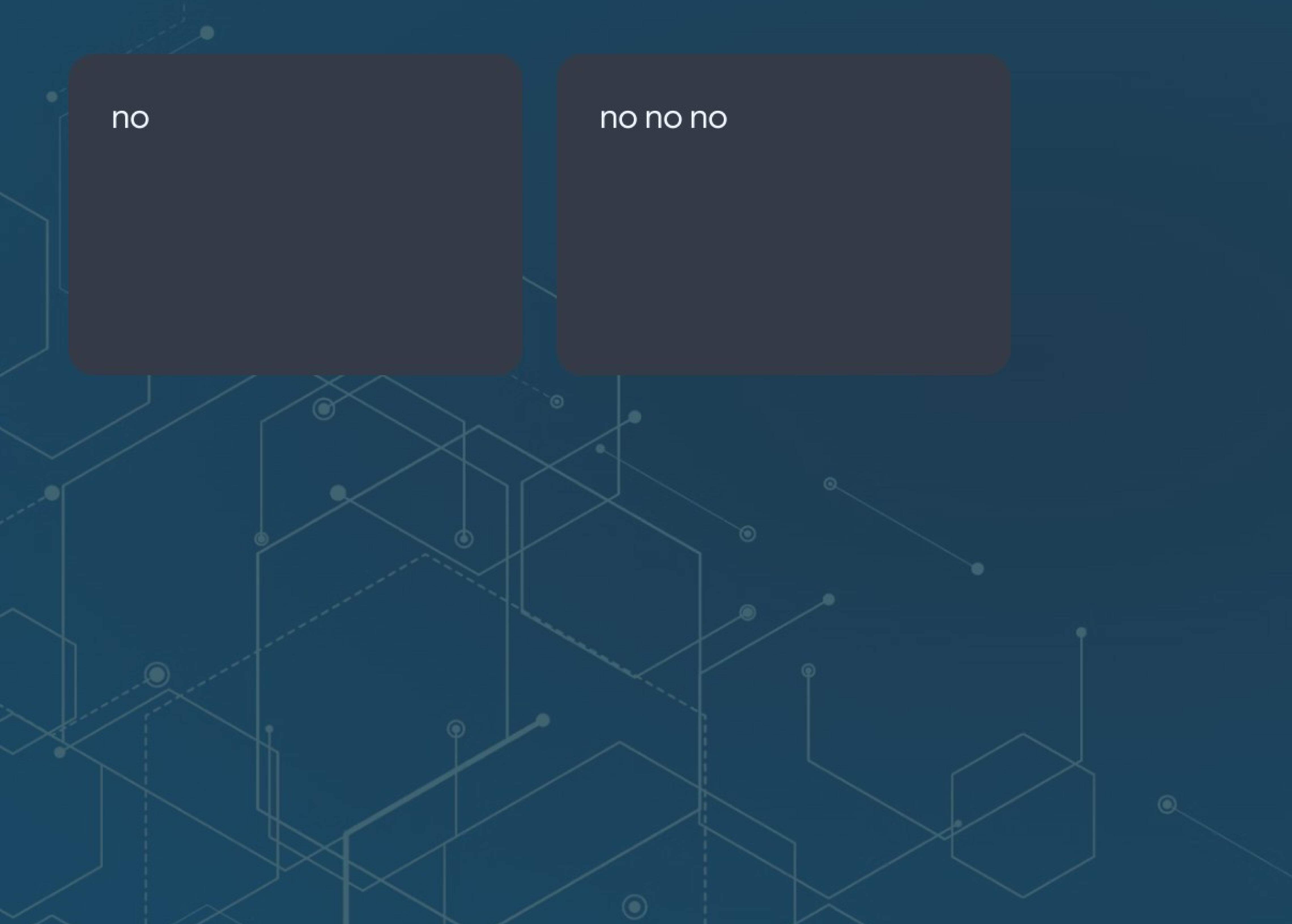
Aspect-oriented programming







Do you have questions \ uncertainties \ concerns on materials? (If no - it means all clear for you)



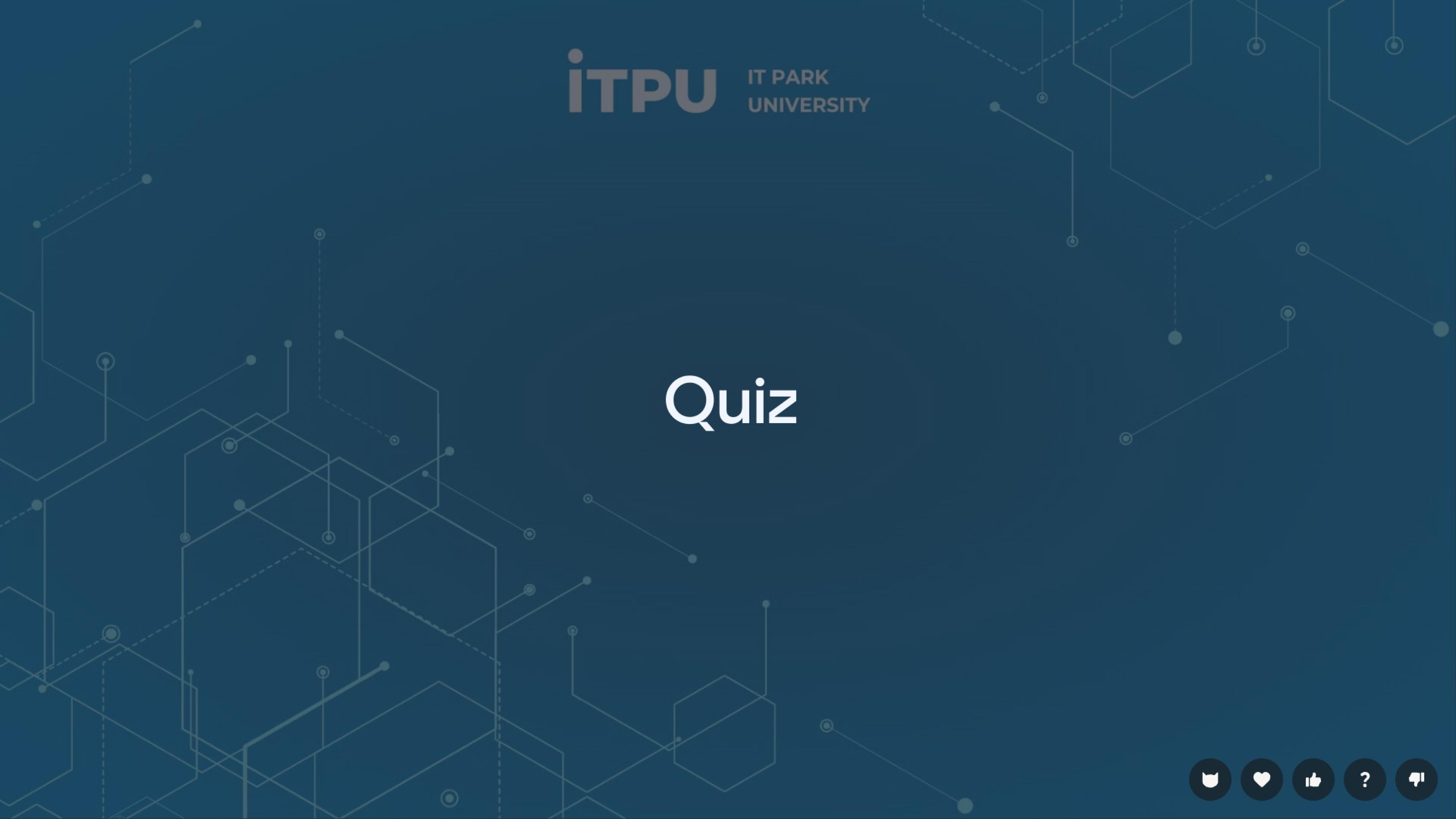




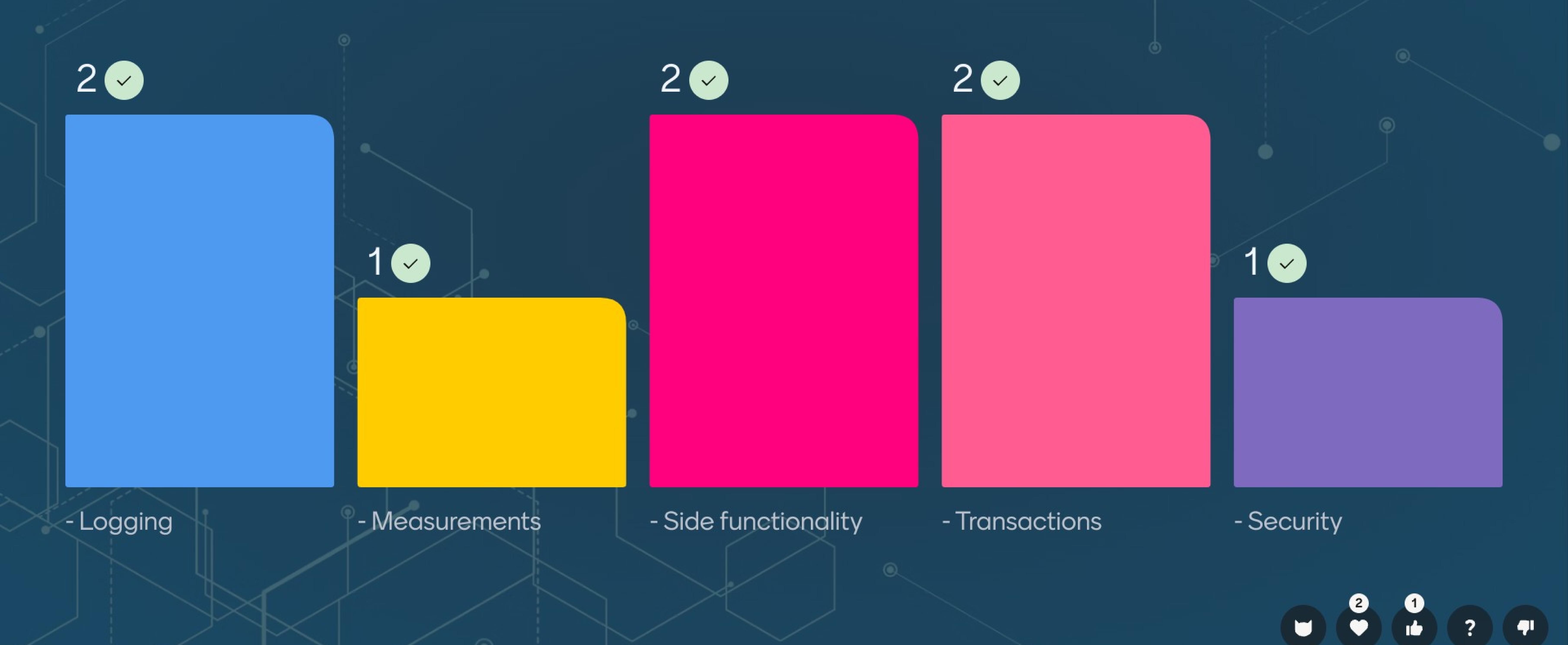








When should we use AOP?





When should we use AOP?

When cross-cutting concerns break OOP:

- Logging
- Measurements
- Side functionality
 - Transactions
 - Security

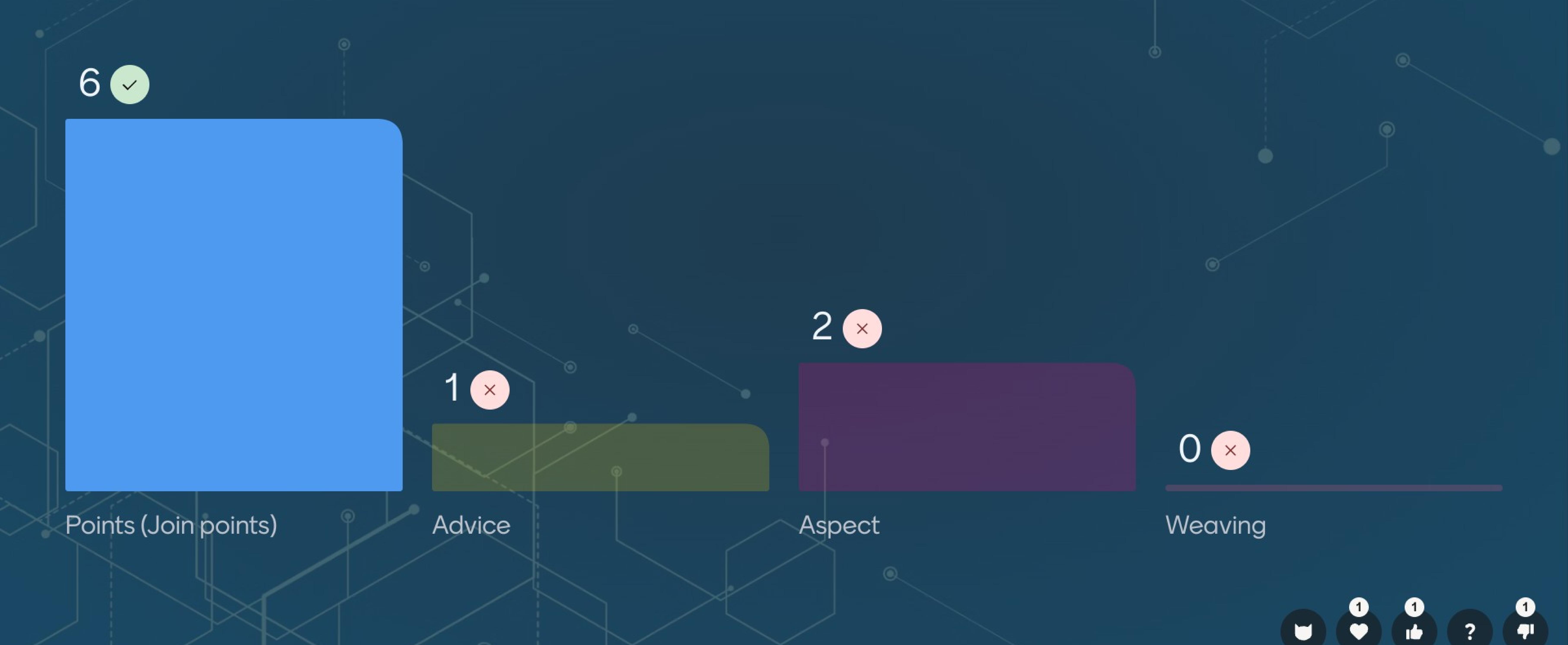




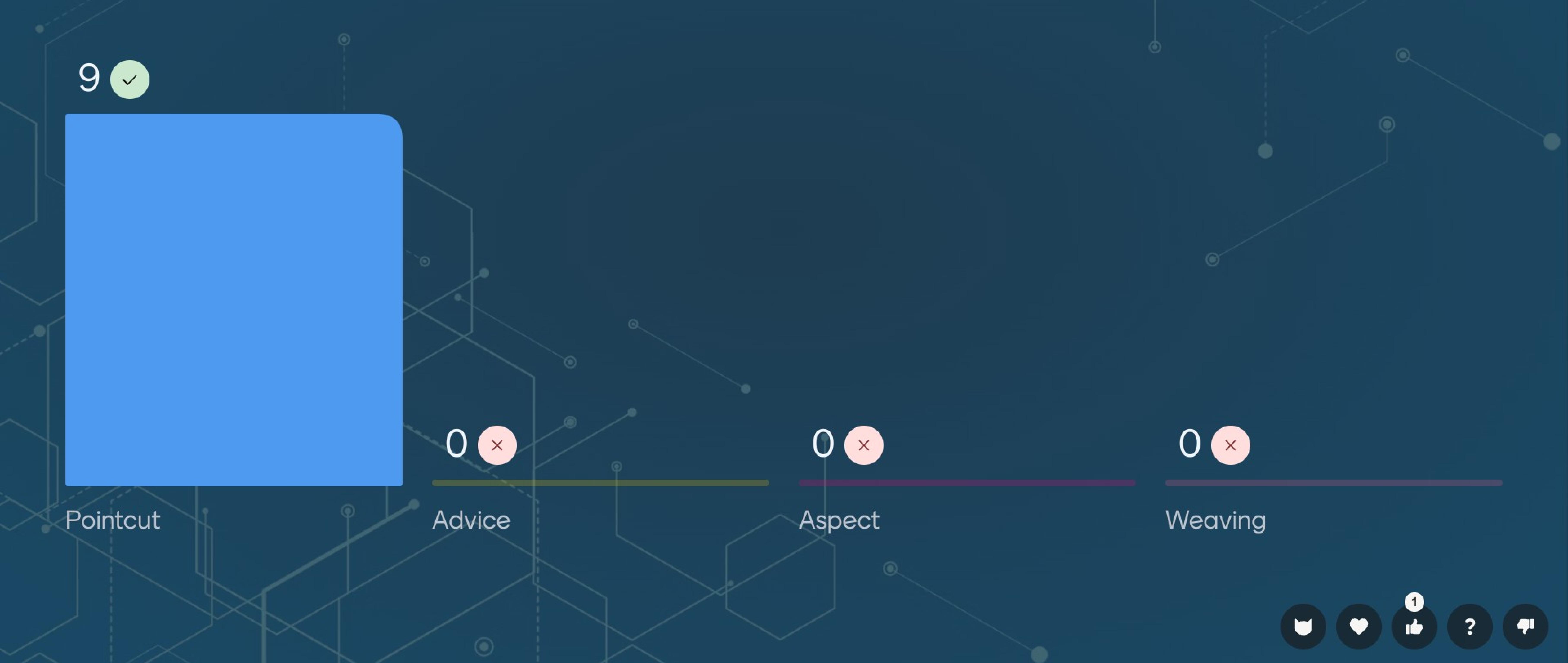




How places in the code where the aspect is applied are called



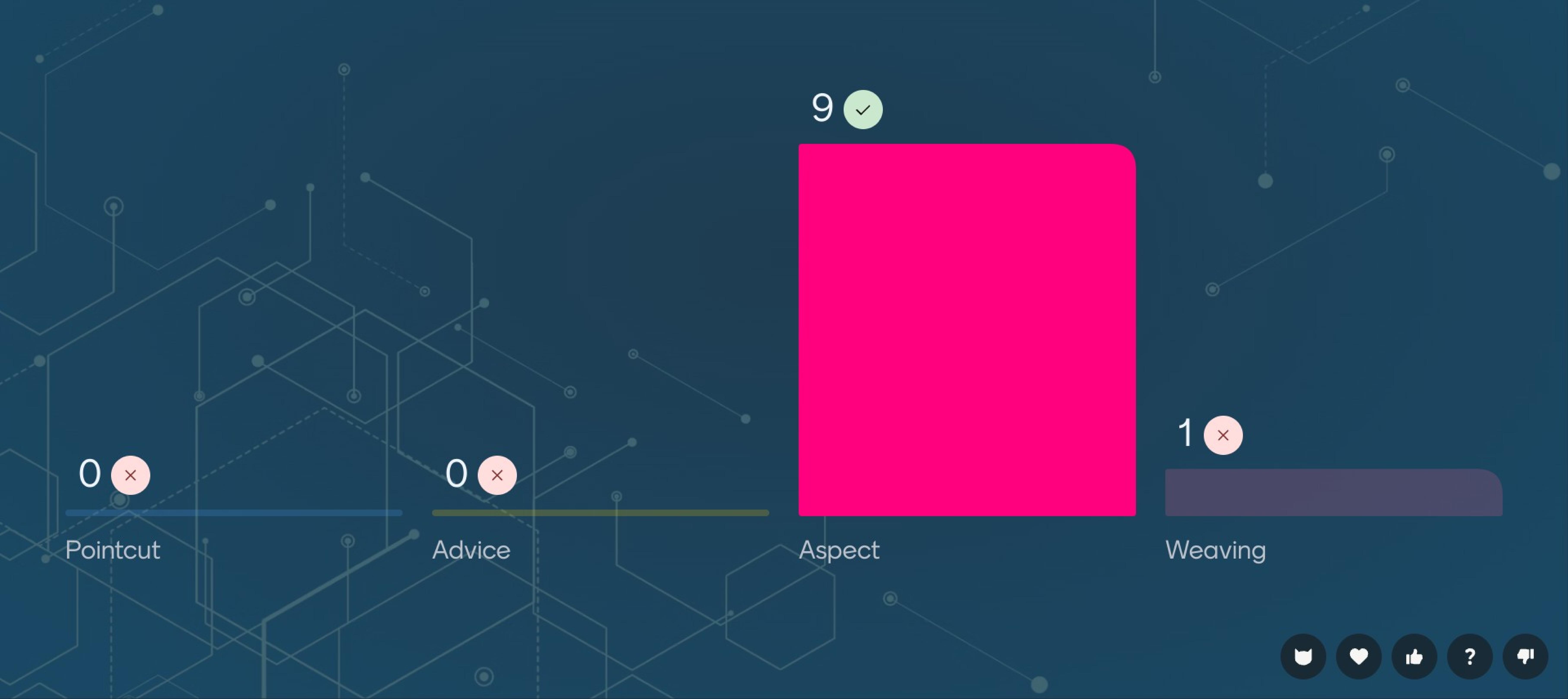
Expression that select one or more join points is called



The action taken by an aspect at a particular join point is called



A module that encapsulates pointcuts and advice is called

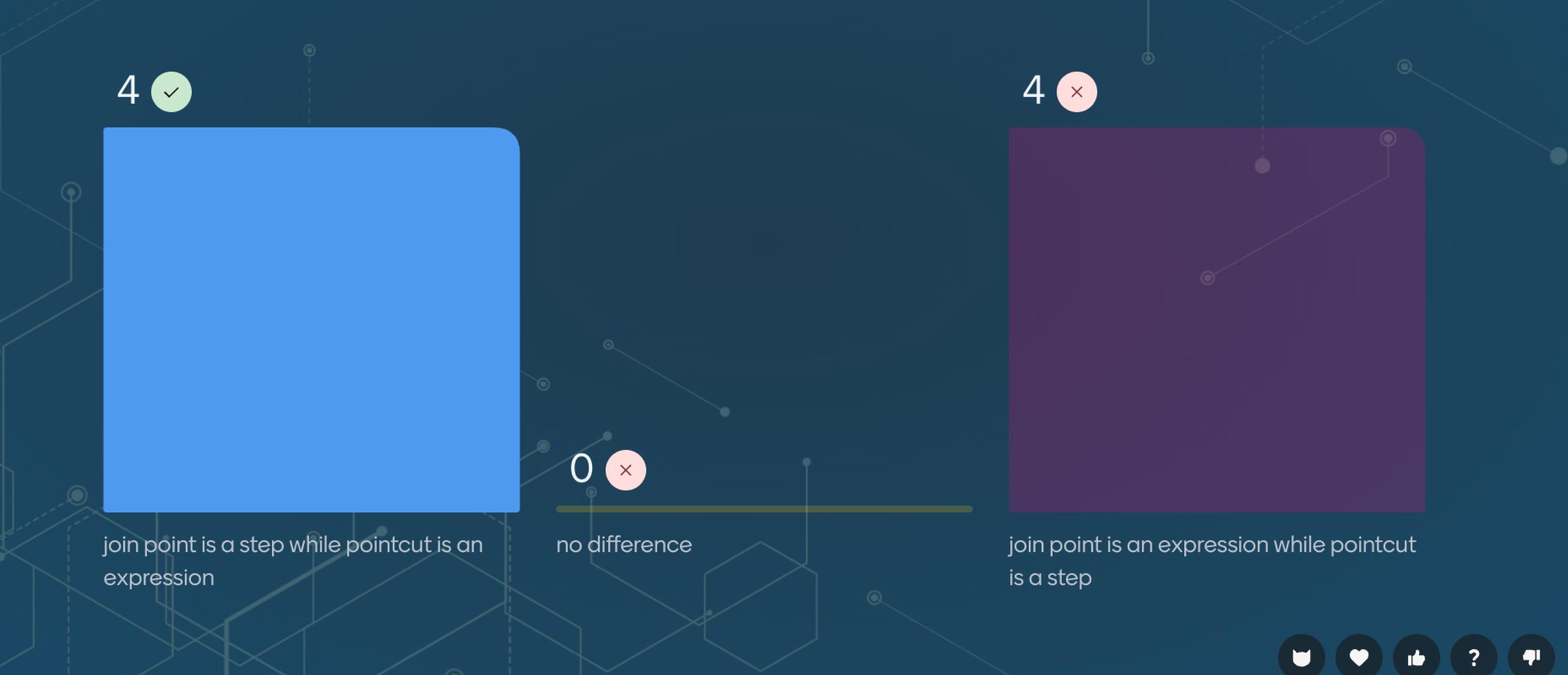


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Name the process of applying aspects to target objects to create advised objects. This can happen at compile time, load time, or runtime.



What are the differences between pointcut and join point in Spring AOP?



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What are the differences between pointcut and join point in Spring AOP?

A join point is a step in the program or application where you apply the AOP aspect. It can also be a specific advice execution instance.

For example, it can be an execution handling, method execution or a change in the object variable's value. In the Spring framework, a join point always denotes a method execution.

A pointcut is an expression that uses one or more join points to give advice. You can define a pointcut using patterns or expressions.

For example, if a point cut chooses two join points, it has two expressions.

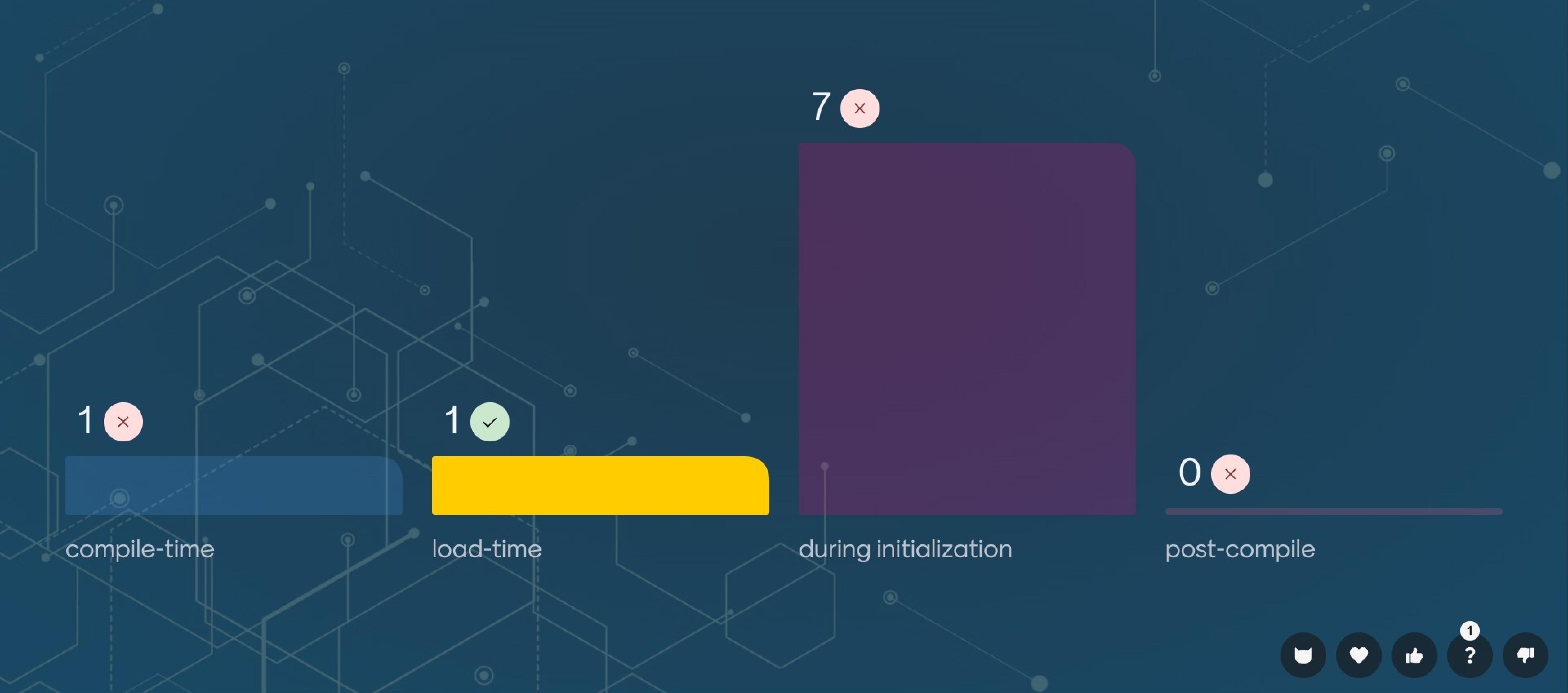








What type of weaving does Spring AOP use?





What type of weaving does Spring AOP use?

There are three types of weaving in AOP, including compile-time, post-compile and loadtime weaving. Spring AOP makes use of runtime weaving, also known as load-time weaving. In runtime weaving, the proxies of the targeted object weave the aspects during the application's execution using dynamic, JDK or CGLIB proxies.

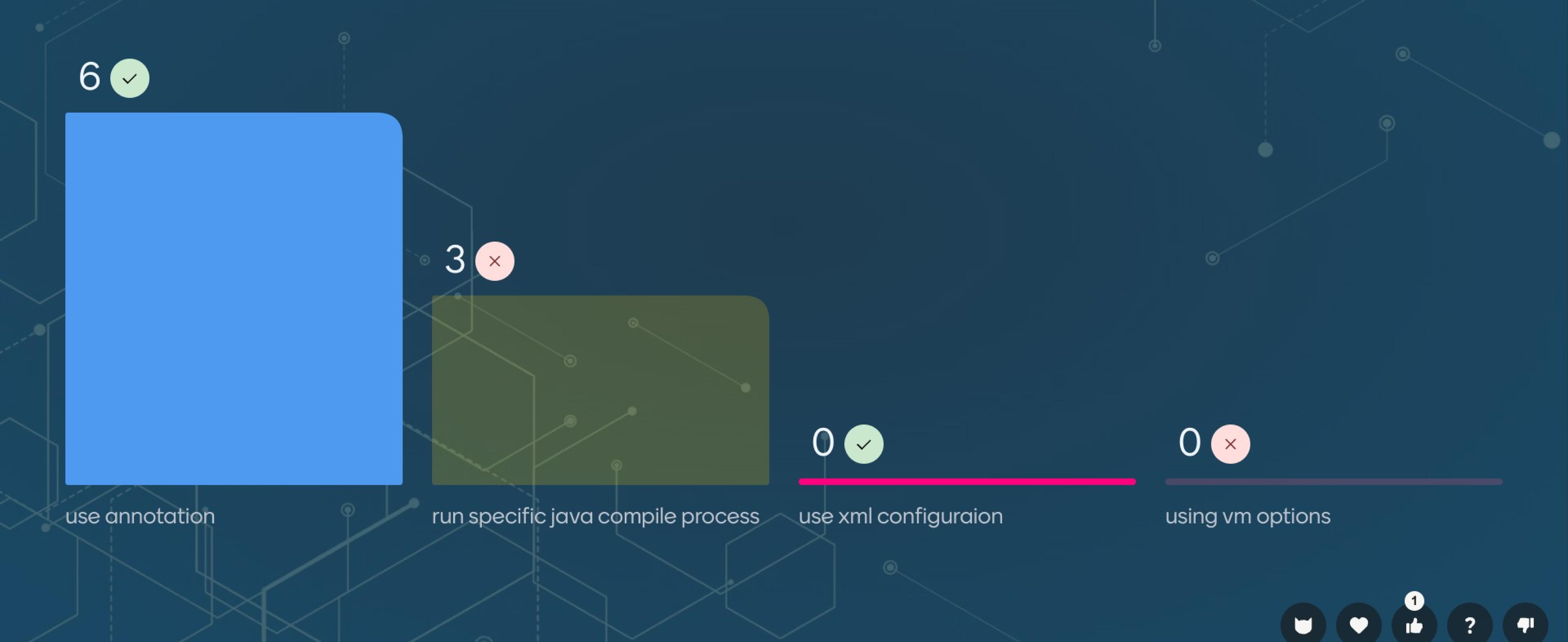








How to enable advice in Spring AOP?





How to enable advice in Spring AOP?

To enable advice in Spring, you can use the annotations available in AspectJ. Before executing this step, ensure that you implement the @EnableAspectJAutoProxy annotation to the configuration class. This ensures that Spring AOP can handle components denoted with AspectJ's annotations.

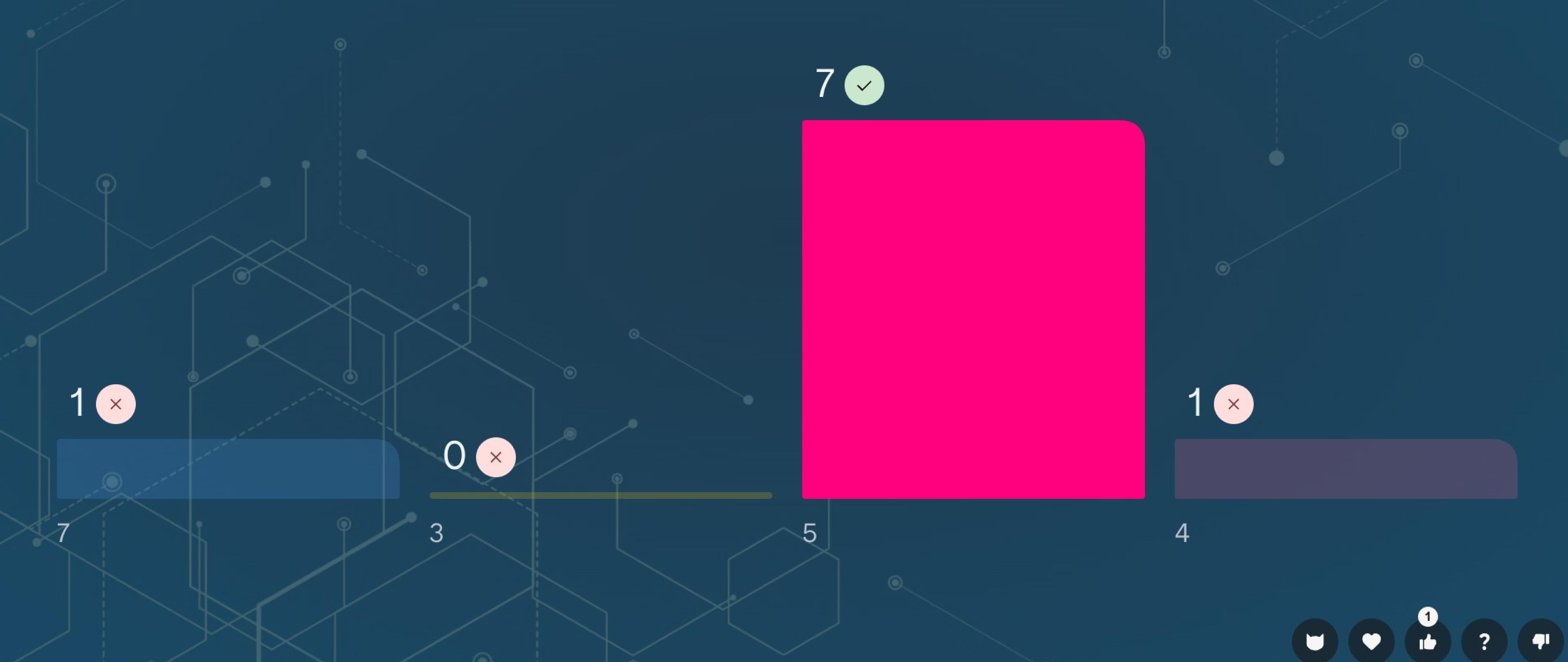








How many types of advice supported in Spring AOP?





What are the types of advice supported in Spring

There are 5 types of advice in the Spring AOP framework. They are before, after returning, after throwing, after and around advice.

The before advice executes before a join point, but it cannot prevent execution flow unless it throws an exception. The afterreturning advice executes after a joint point finishes normally. The after-throwing advice executes if a method exits by throwing an exception. The after advice executes irrespective of how the join point exits. The around is the most powerful advice and surrounds a join point using a method invocation.











Quiz leaderboard













