Java EE

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Le framework Spring
La programmation orientée aspect

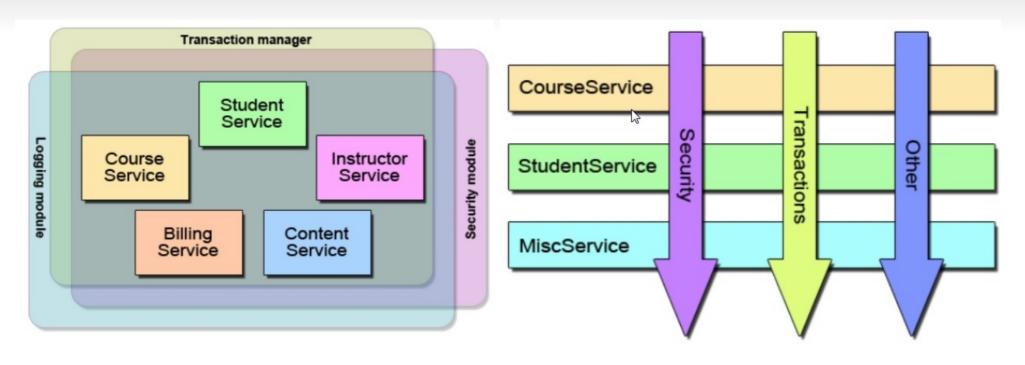


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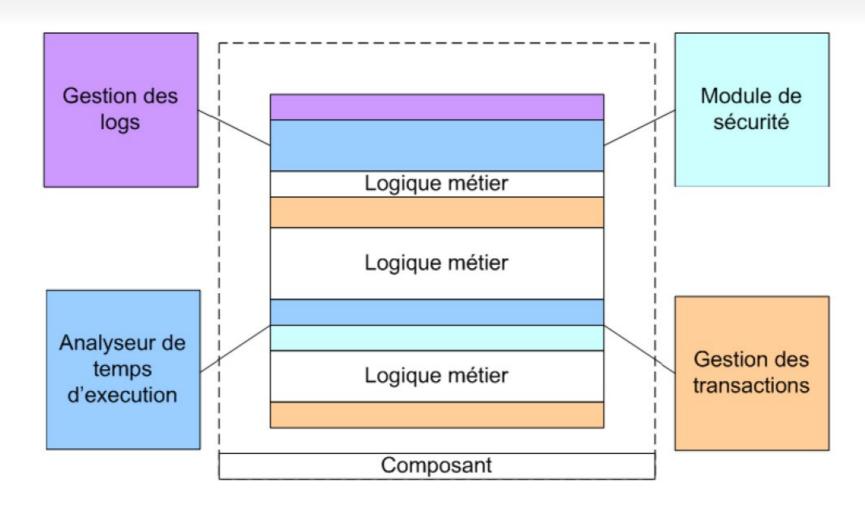
La programmation orientée aspect

La programmation orientée aspect AOP



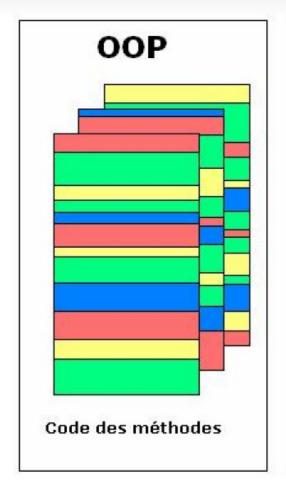
chaque module gère des aspects différents du système, sécurité, transactions, log, etc.

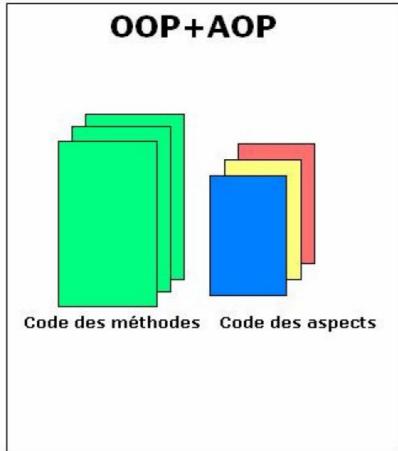
La programmation orientée aspect AOP



Habituellement les différents aspects sont entremêlés

La programmation orientée aspect AOP







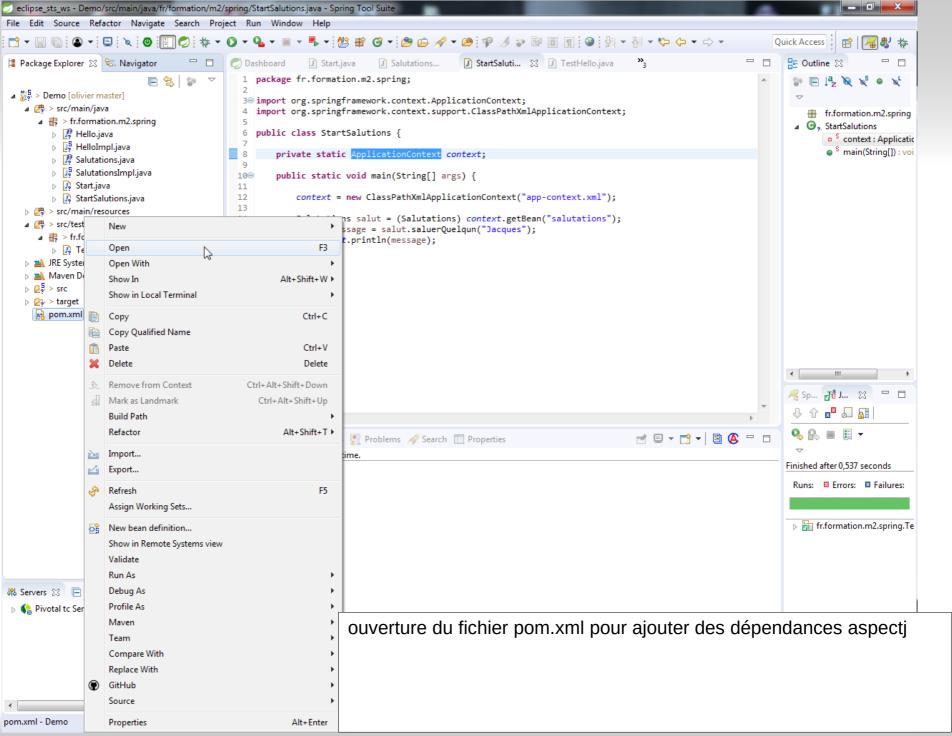
La programmation orientée aspect AoP

- L'AOP est utilisée par Spring pour fournir des fonctionnalités
 - Transverses, par exemple la gestion des transactions
 - Spécifiques, par exemple l'injection de dépendances dans un bean non géré par Spring
- Cela se fait de manières déclaratives dans la configuration XML ou grâce à des annotations
- L'extension AspectJ est utilisée par Spring depuis sa version 2.5

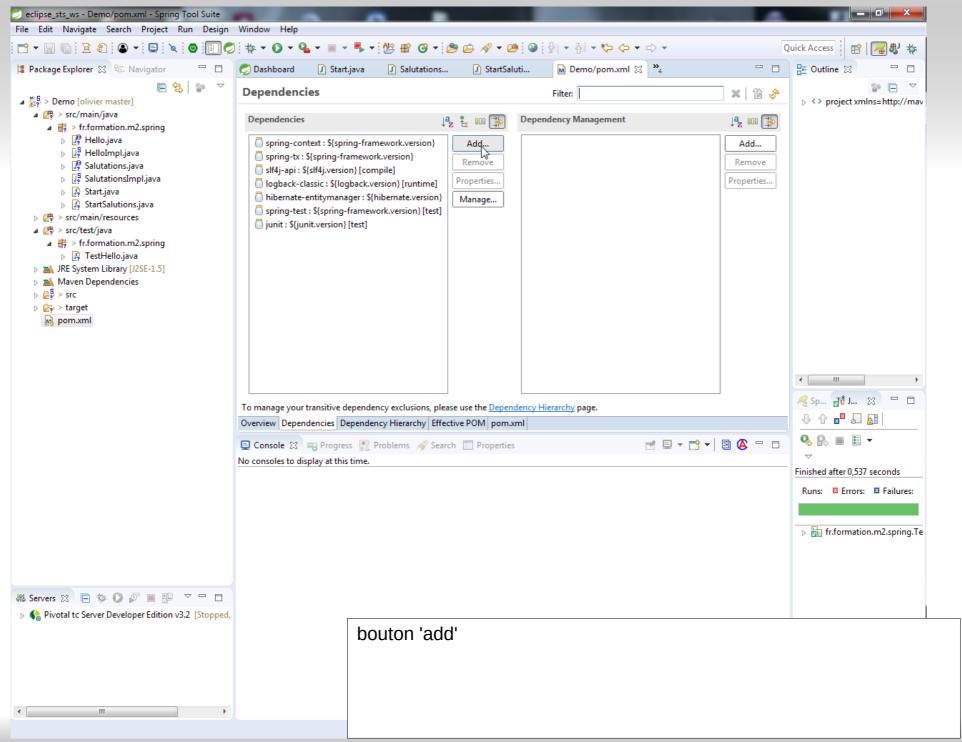
Application au projet précédent

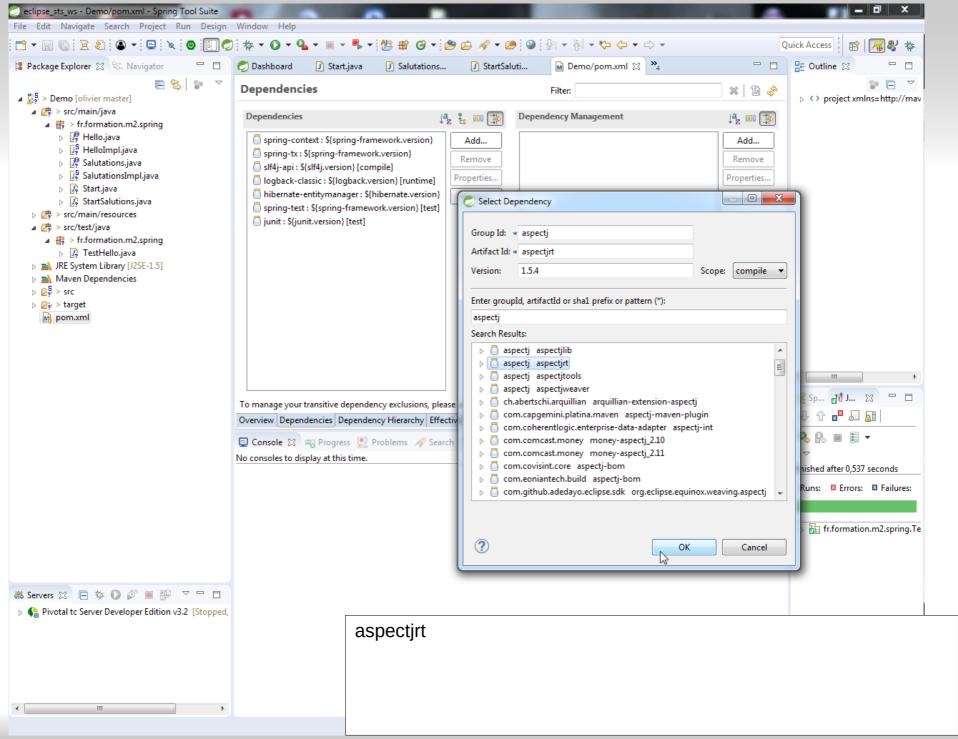
Objectif:

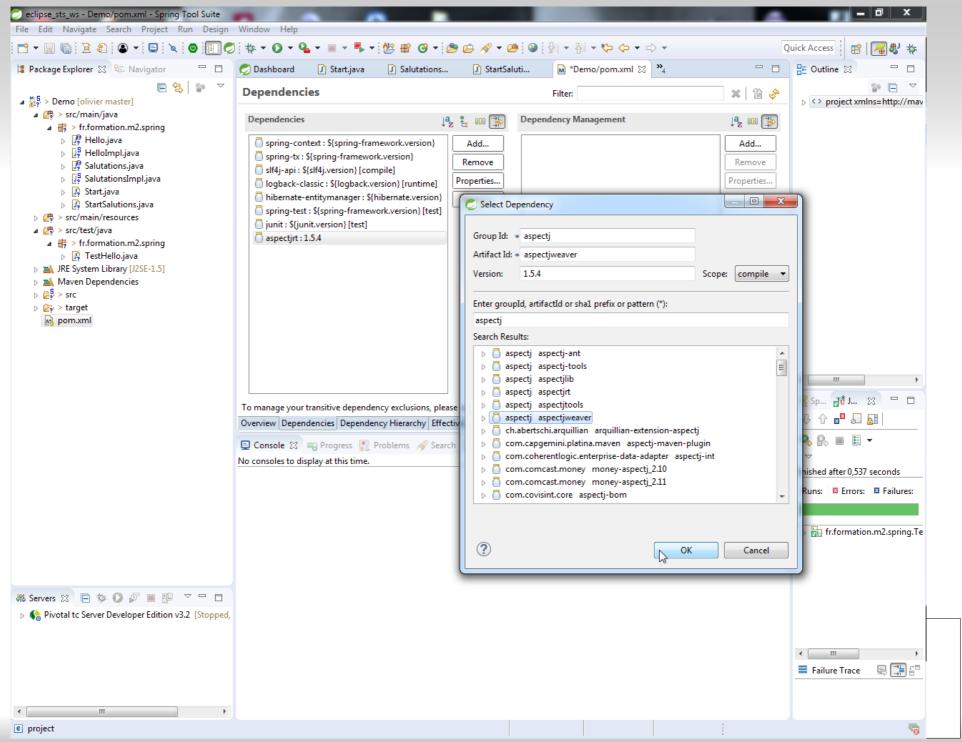
rajouter des éléments techniques (logs) à des classes métiers sans ajouter une seule ligne de code à celles-ci

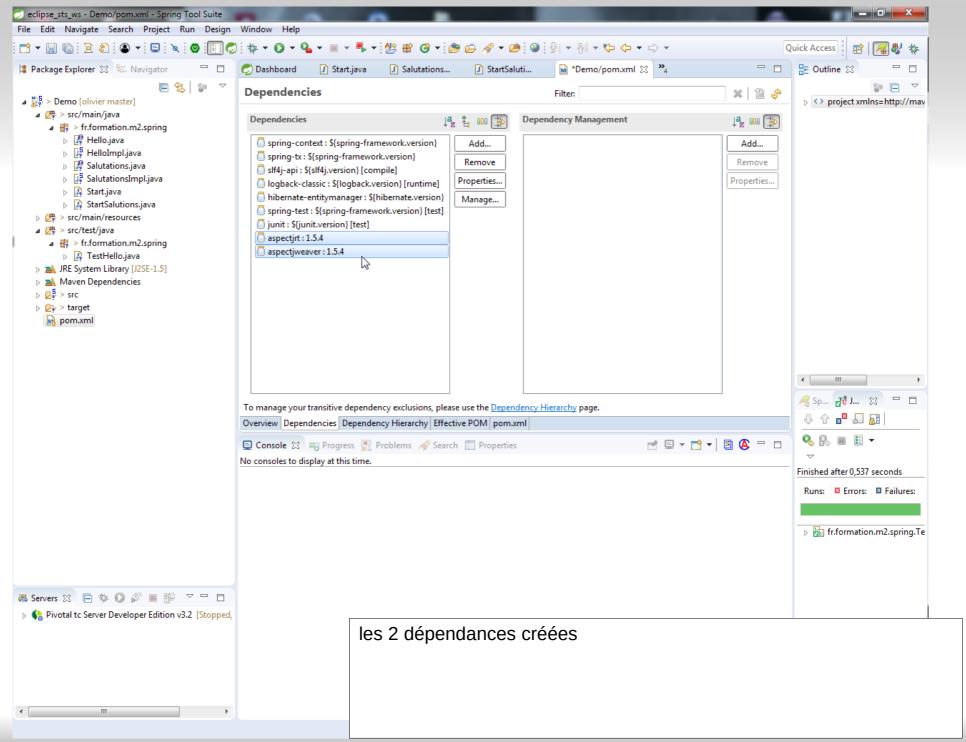


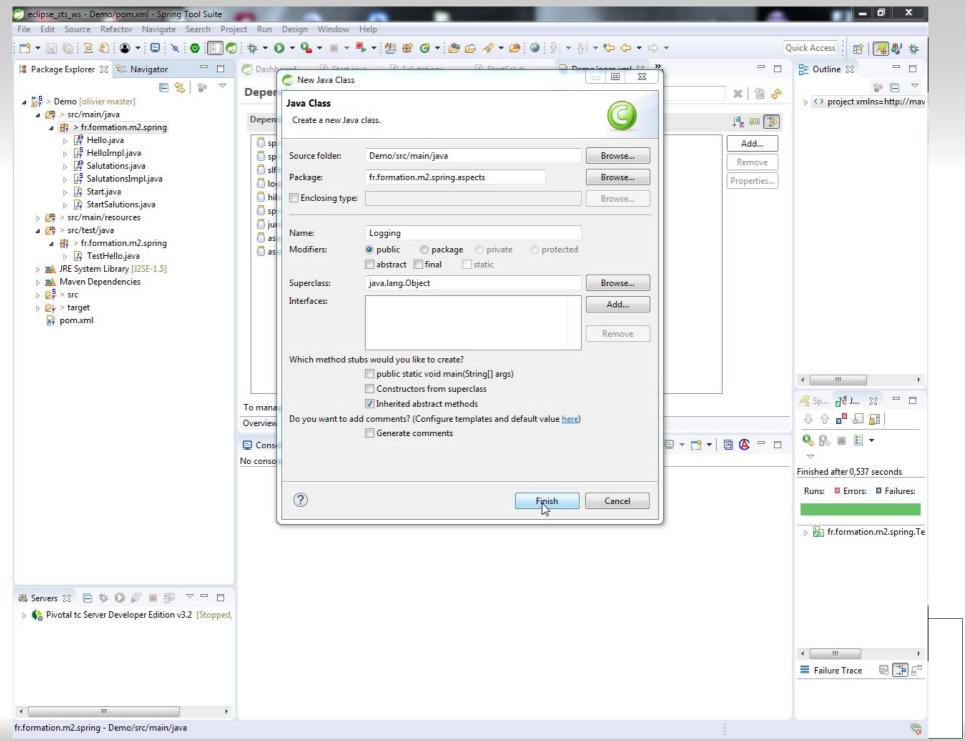
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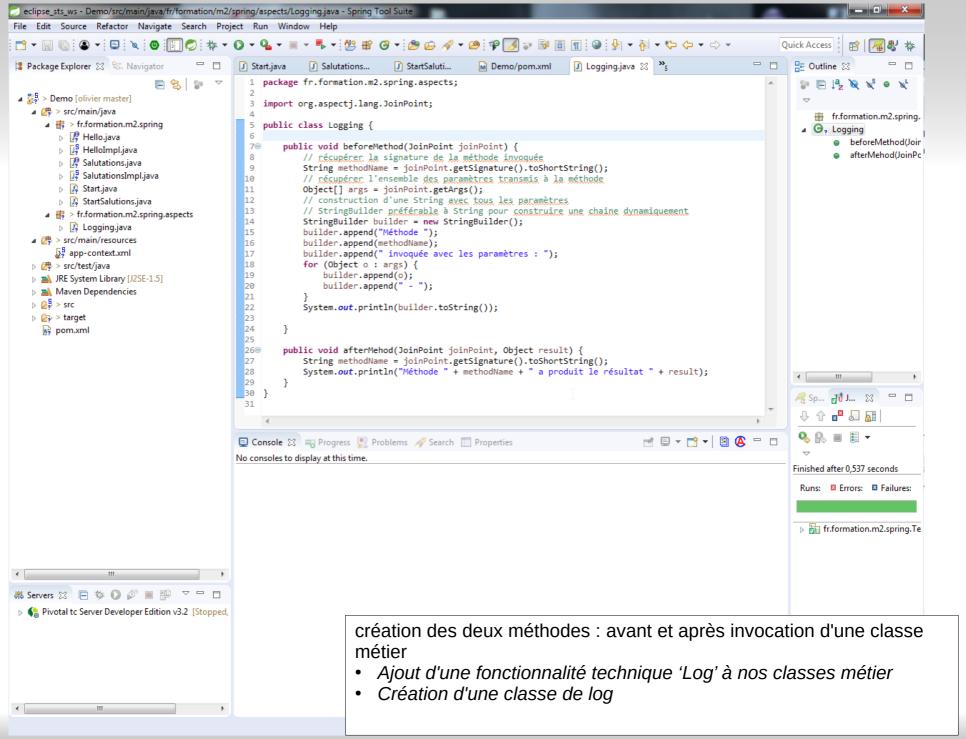


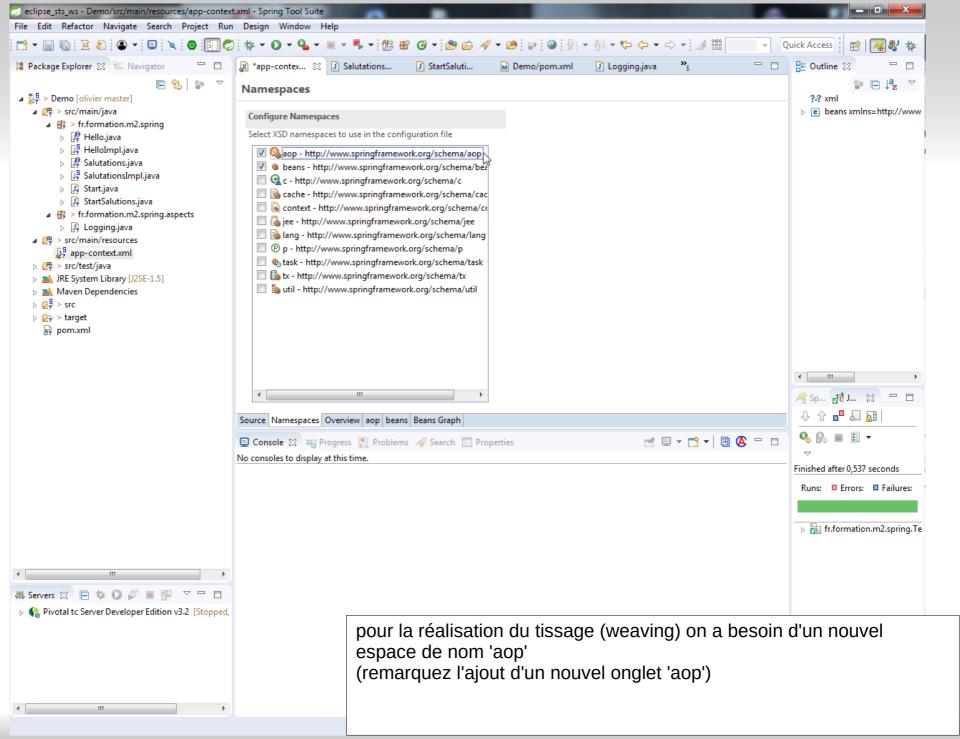


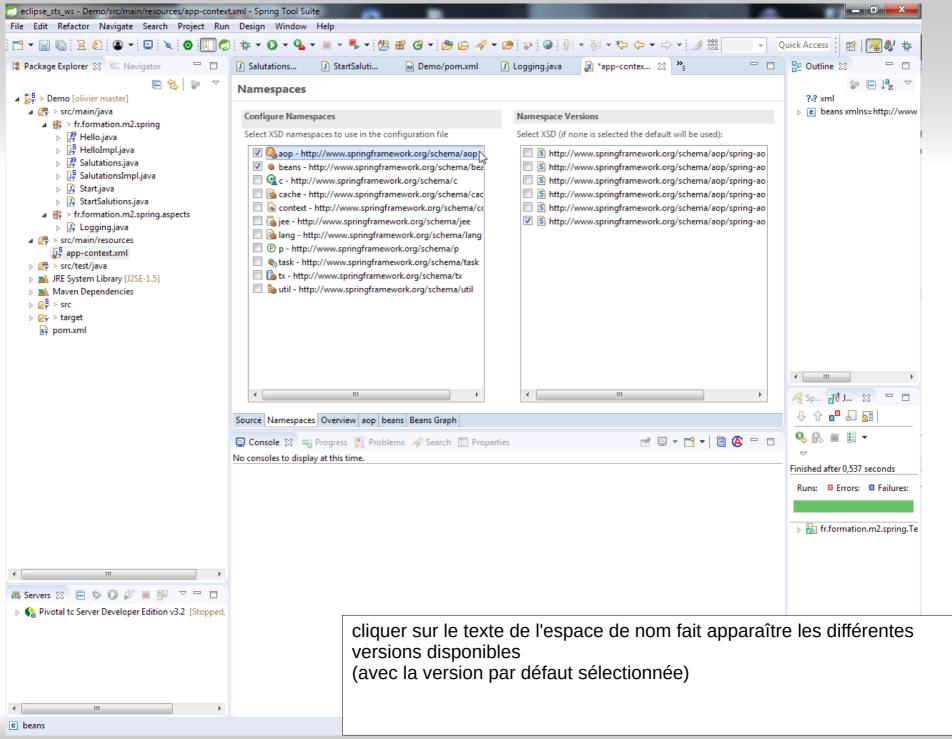


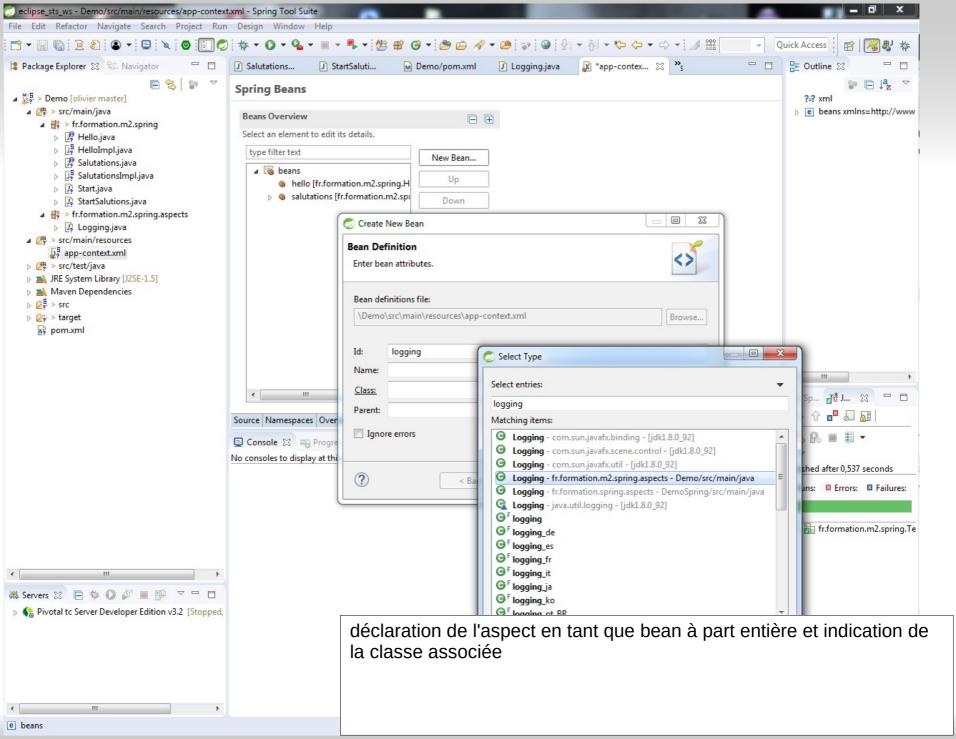


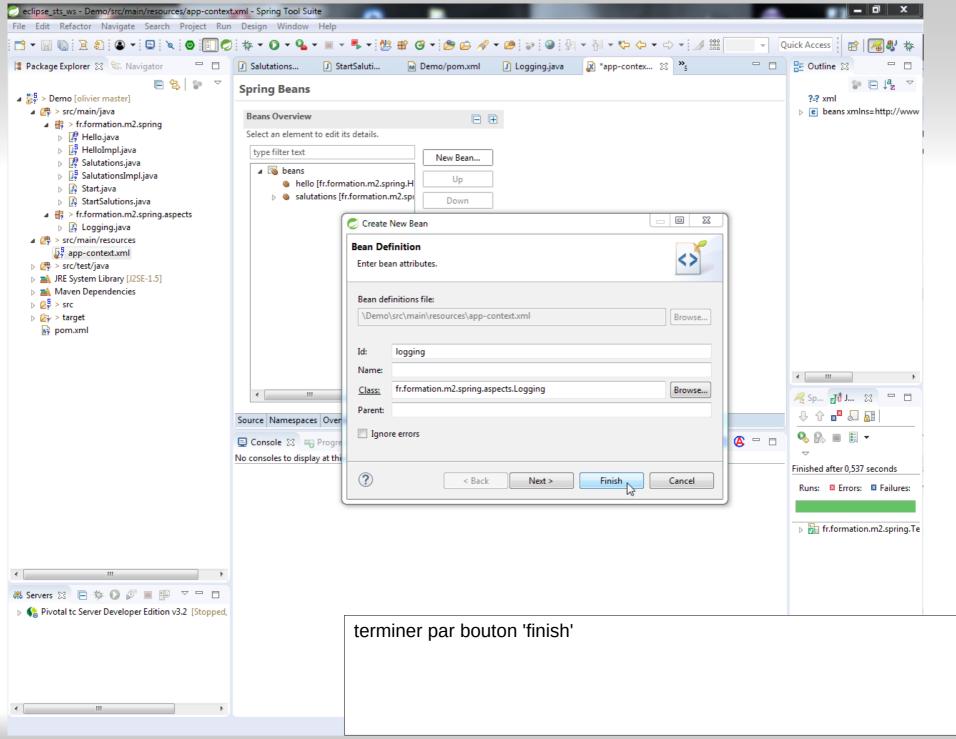


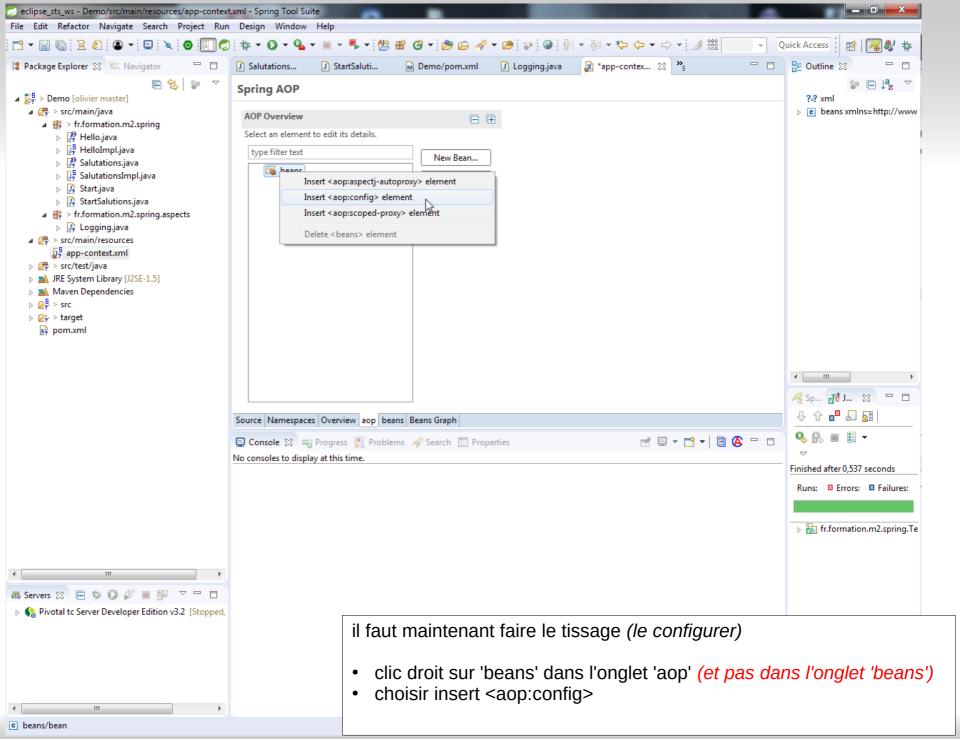


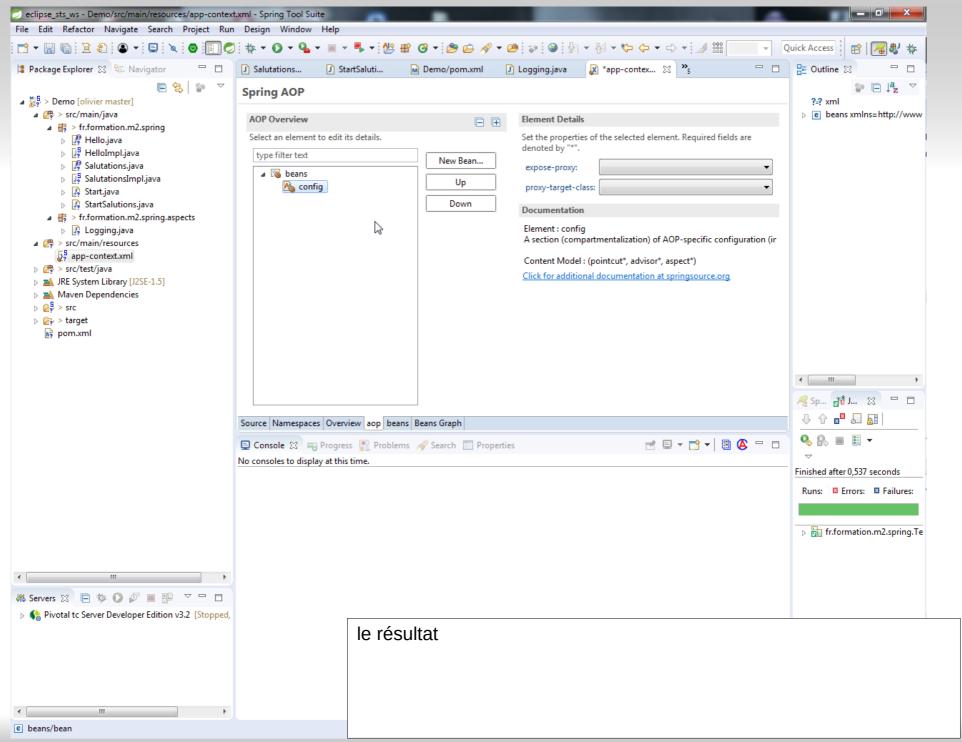


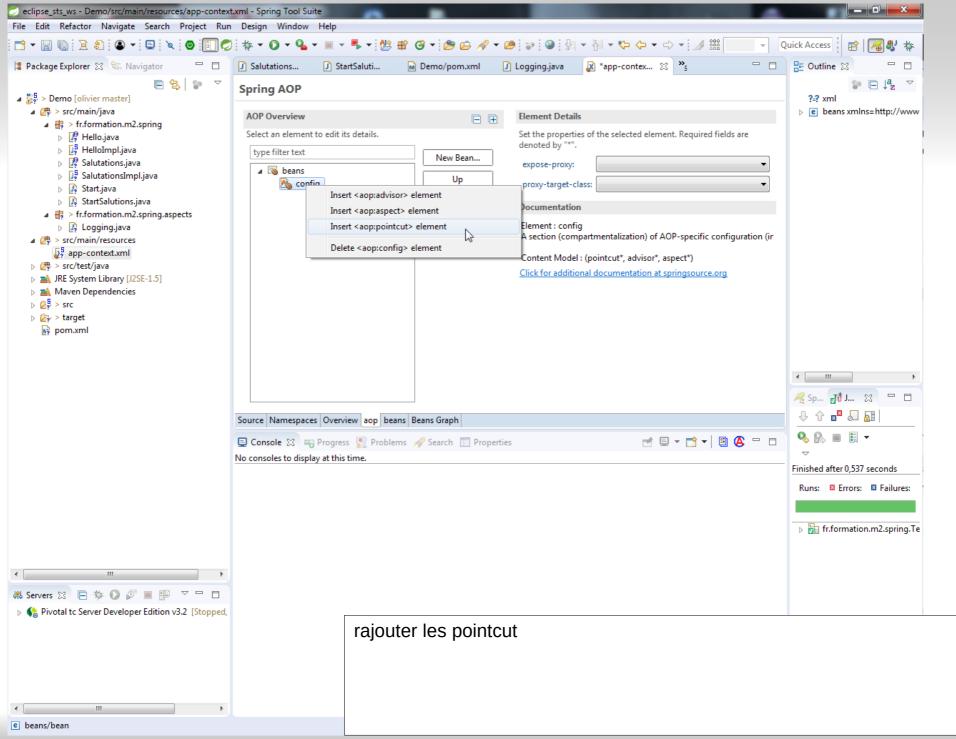


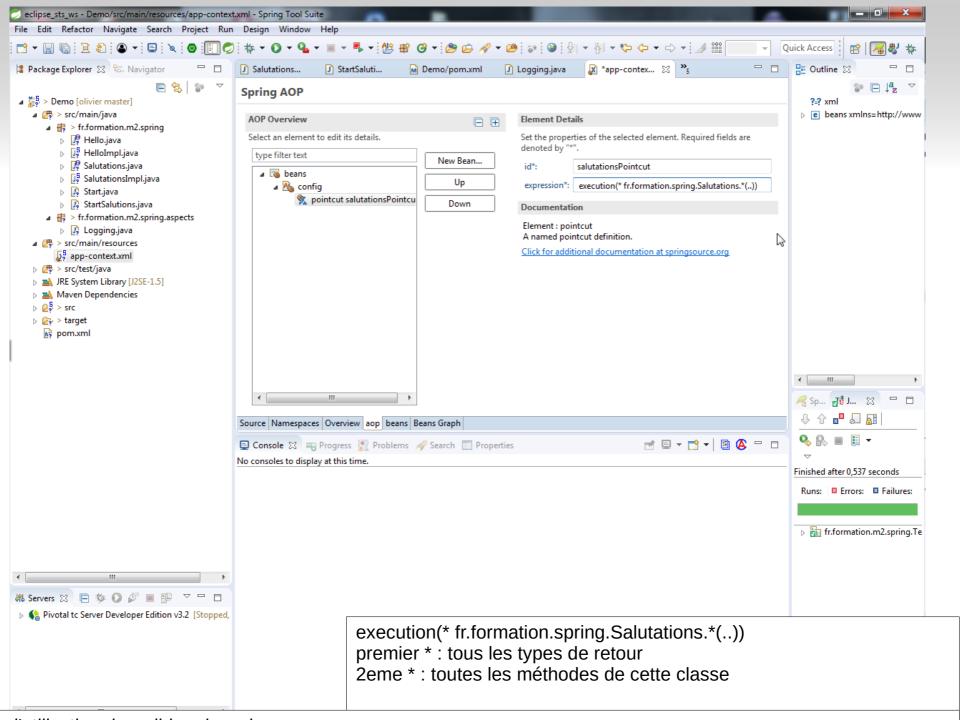




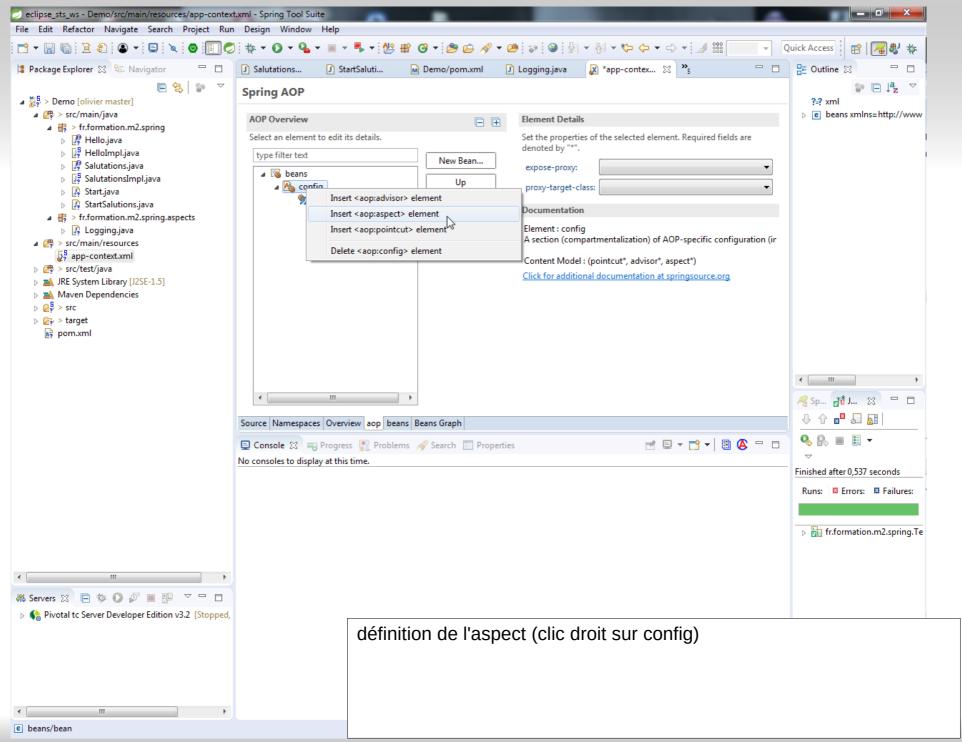


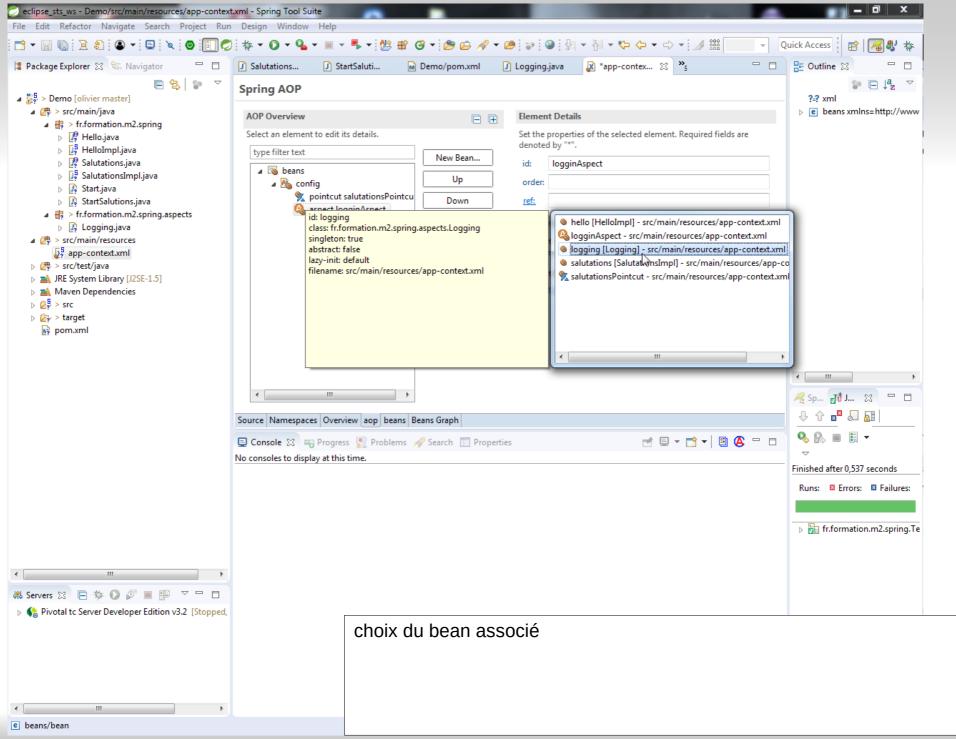


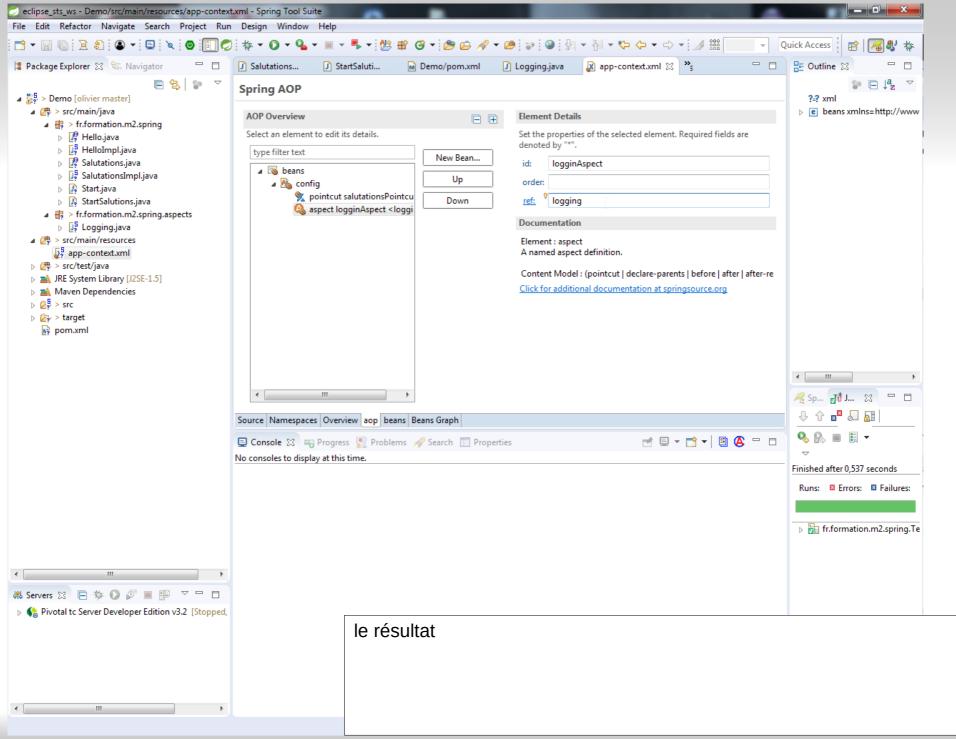


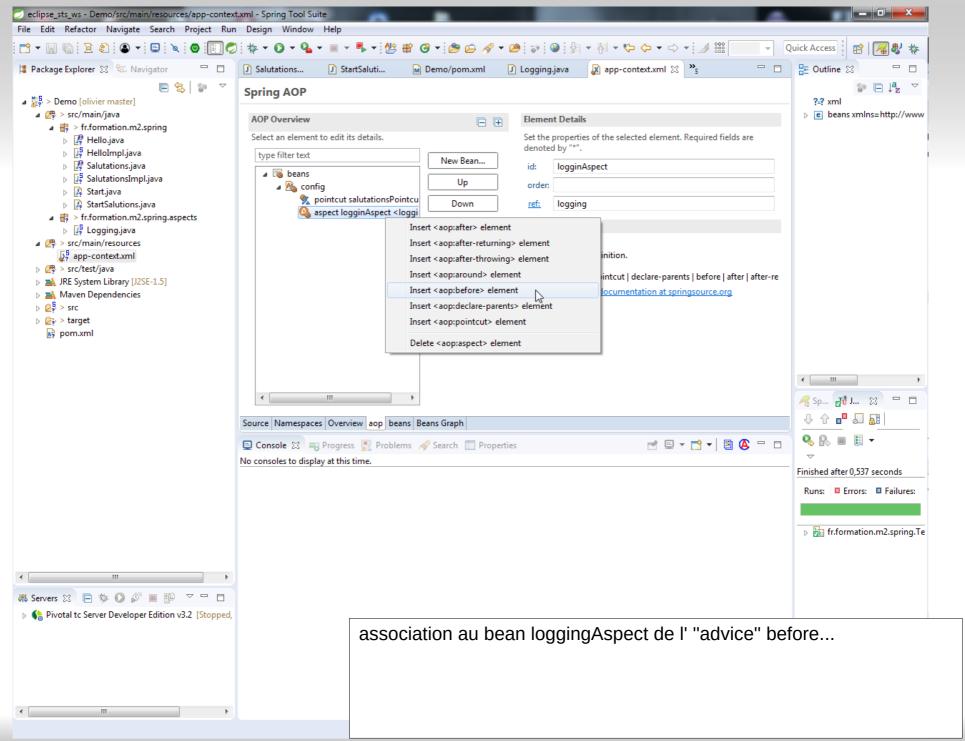


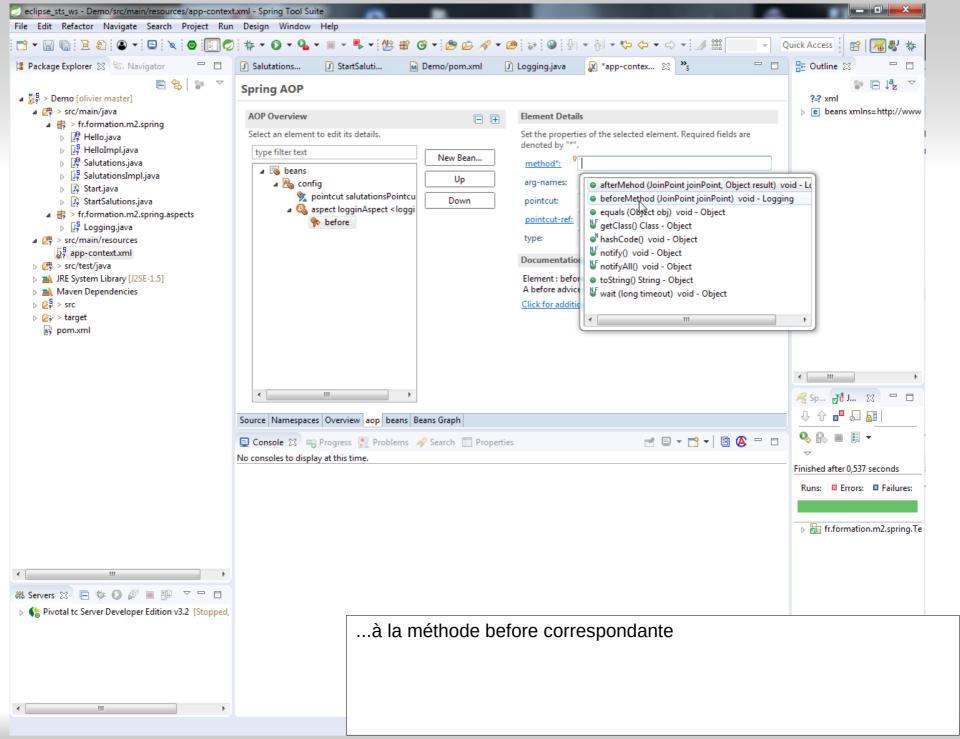
pour l'utilisation des wildcards, voir : http://www.eclipse.org/aspectj/doc/released/progguide/language-joinPoints.html

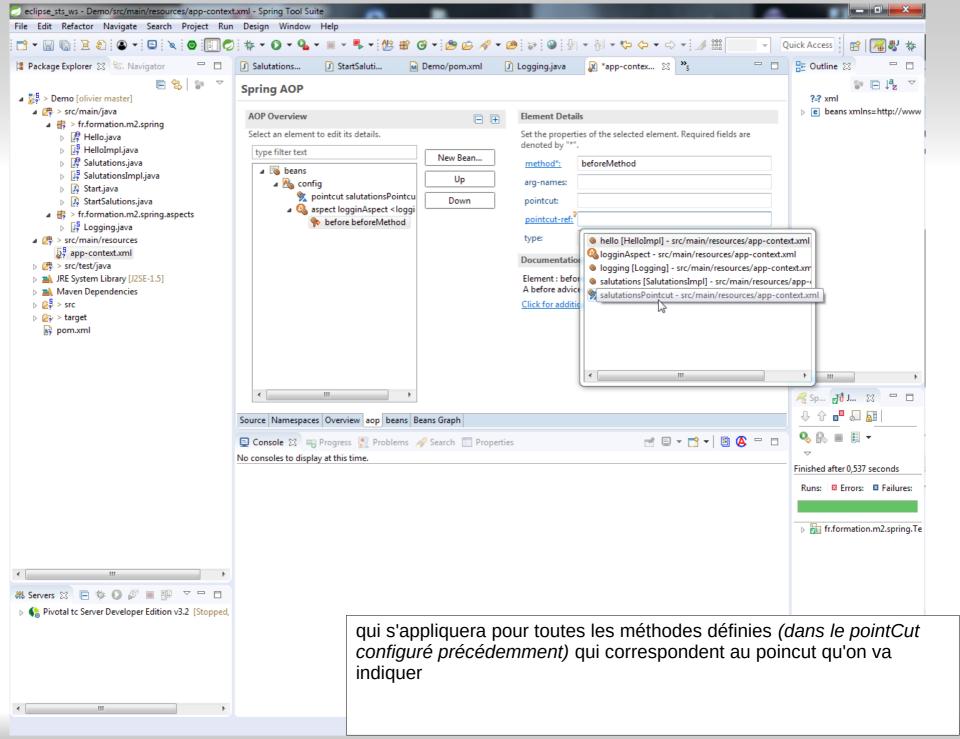


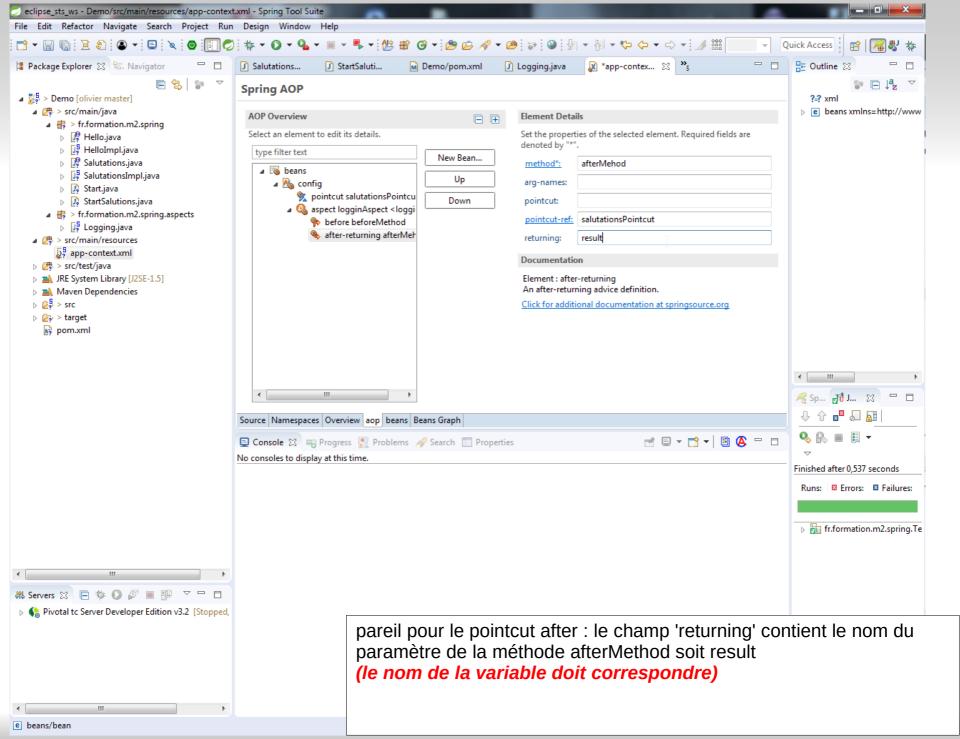


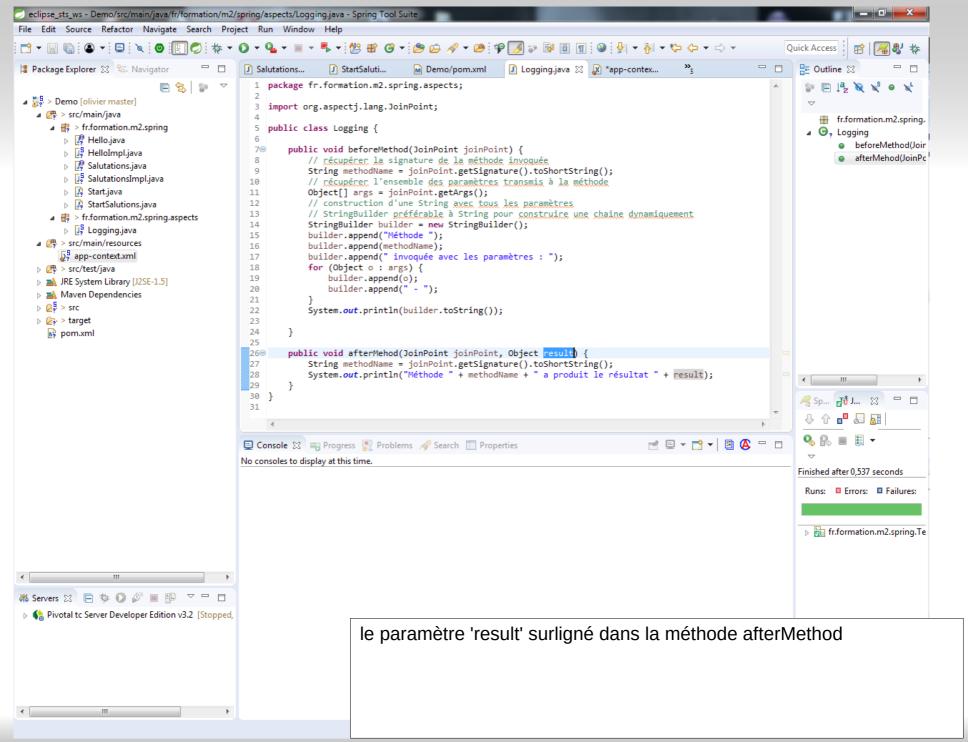


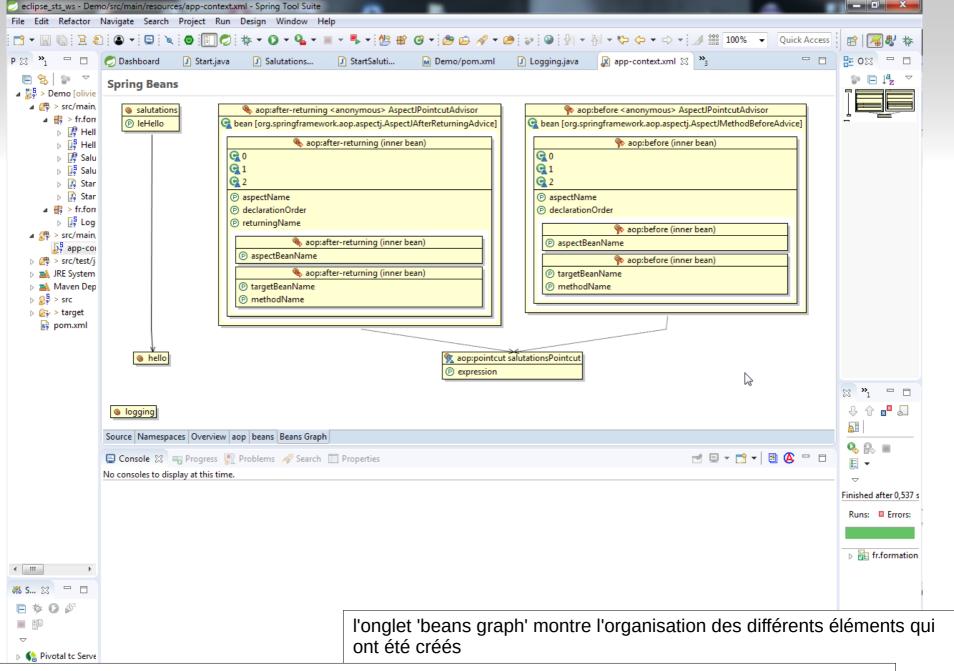






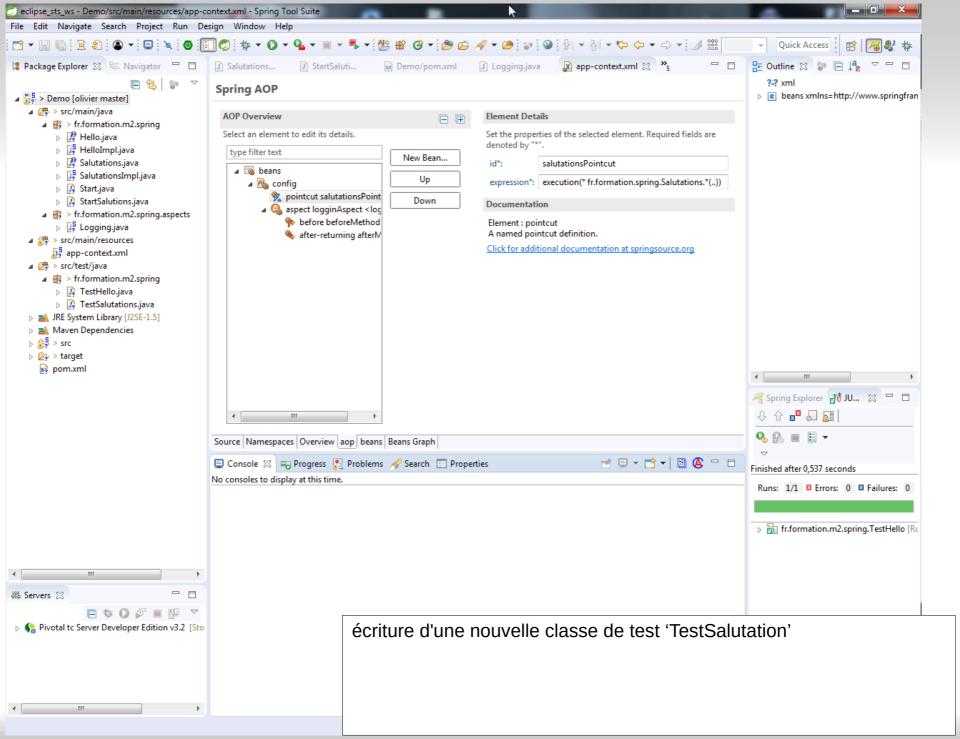


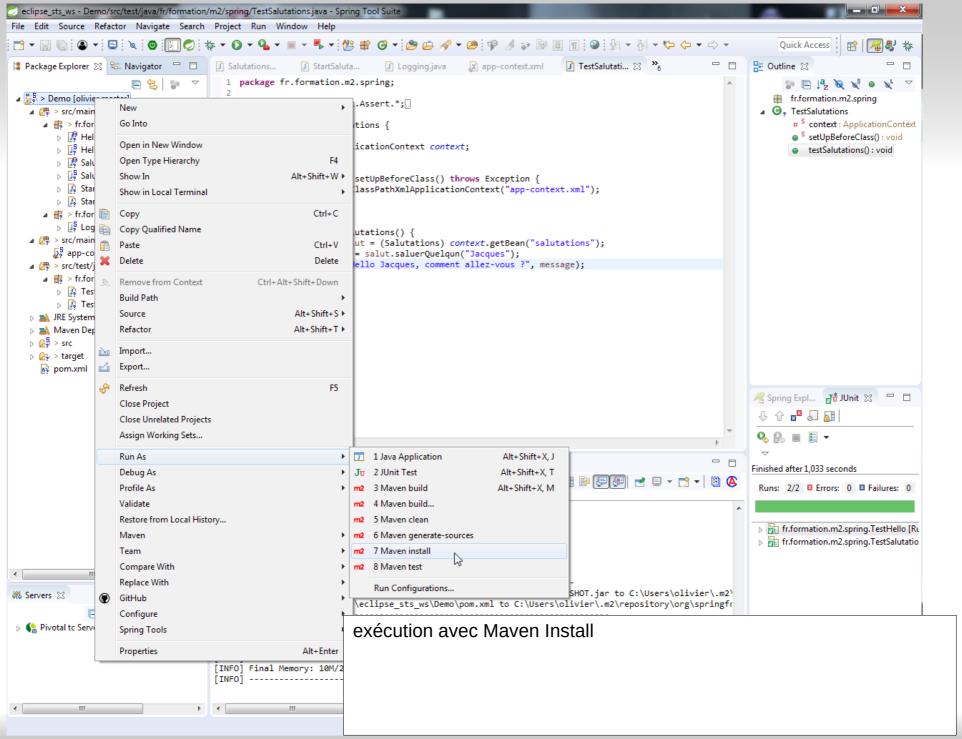


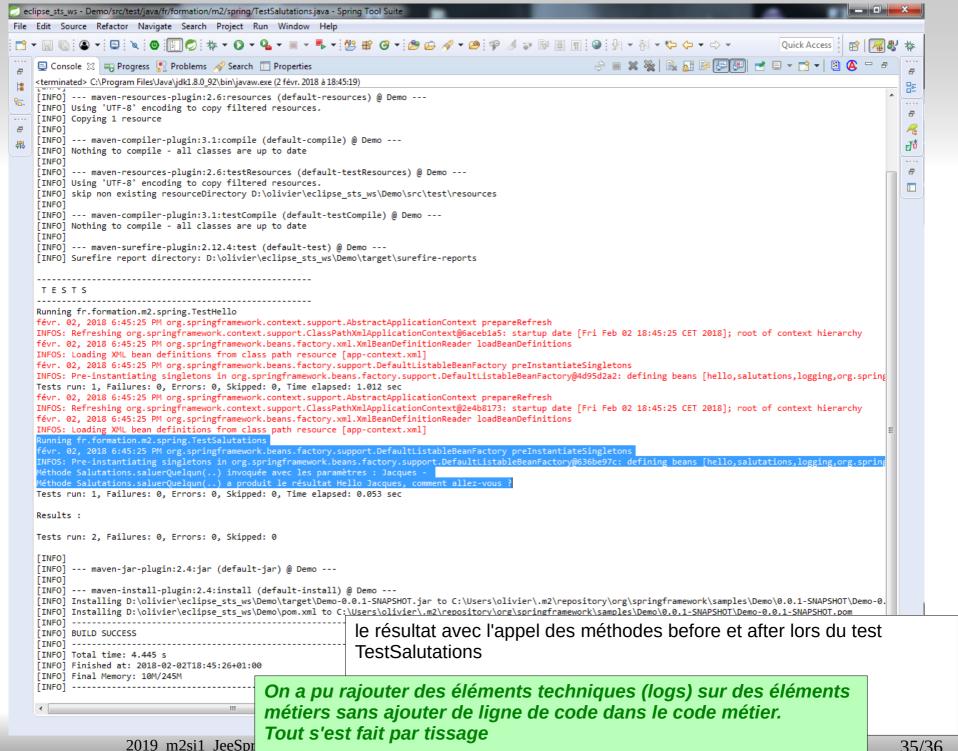


bien aller voir aussi :

- -les indications rajoutées (flèches) dans les méthodes de la classe de log
- pareil dans le source app-context.xml
- la flèche entrant dans la méthode de la classe Salutations (qui indique 2 marqueurs AOP)







Sources

guide de programmation AspectJ

http://www.eclipse.org/aspectj/doc/released/progguide/index.html

XML Schema Based AOP with Spring

https://www.tutorialspoint.com/spring/schema_based_aop_appoach.htm