



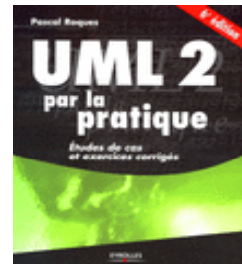
# Table Ronde Neptune

## Pascal Roques

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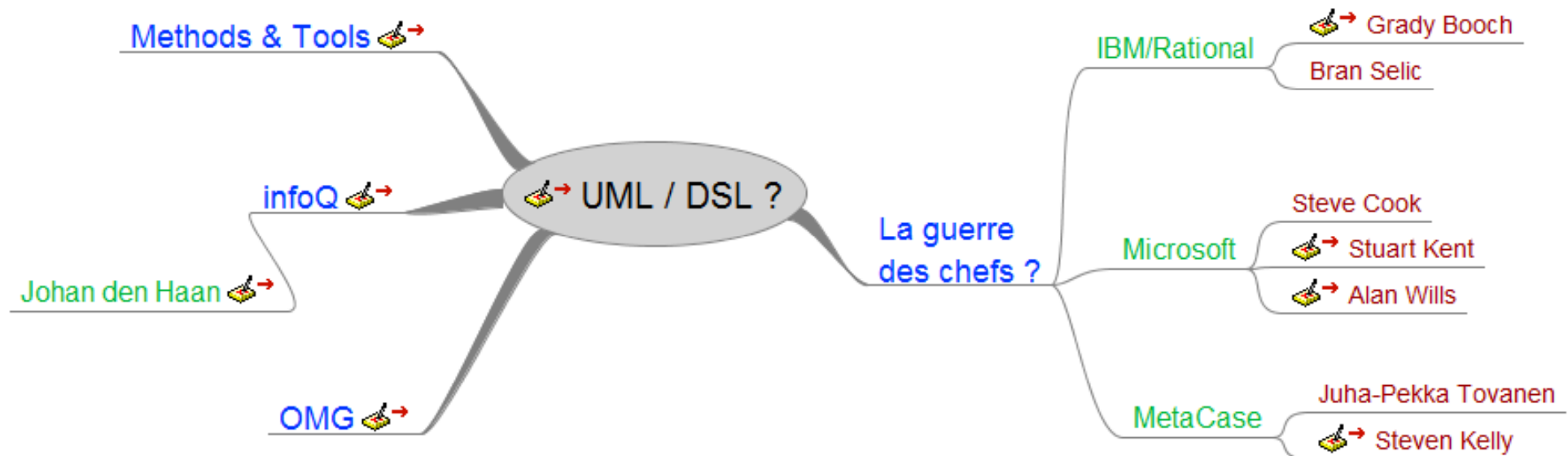


- **Modélisation : depuis plus de 20 ans**
  - **SADT, OMT, UML, SysML**



- **Blog :** <http://consultants.a2-artal.fr/proques>
- **Blog SysML France :** <http://sysmlfrance.blogspot.com/>

# UML / DSL ?



- [http://blogs.msdn.com/stuart\\_kent/archive/2005/01/04/346328.aspx](http://blogs.msdn.com/stuart_kent/archive/2005/01/04/346328.aspx)
- <http://blogs.msdn.com/camerons/archive/2008/06/25/dsl-uml-pragmatic-modeling.aspx>
- <http://www.metacase.com/blogs/stevek/blogView?showComments=true&entry=3396256561>
- <http://www.infoq.com/articles/8-reasons-why-MDE-fails>
- [http://www.theenterpriseearchitect.eu/archive/2008/08/20/dsl\\_in\\_the\\_context\\_of\\_uml\\_and](http://www.theenterpriseearchitect.eu/archive/2008/08/20/dsl_in_the_context_of_uml_and)
- <http://www.dotnetguru2.org/index.php?p=926>
- <http://www.omg.org/docs/omg/08-09-03.pdf>



## Le pour et le contre...

Although the use of DSL's has advantages, just creating DSL's based on the flavor of the day will result in a proliferation of DSL's. I think the proliferation of DSL's can't be fully avoided, but it can be made less painful by defining DSL's as specific instantiations of GPL's by using meta models. Although they are not real meta models, the use of stereotypes in UML is a good example of a technique for defining a model language for a specific purpose based on a GPL.

## Généraliste ?

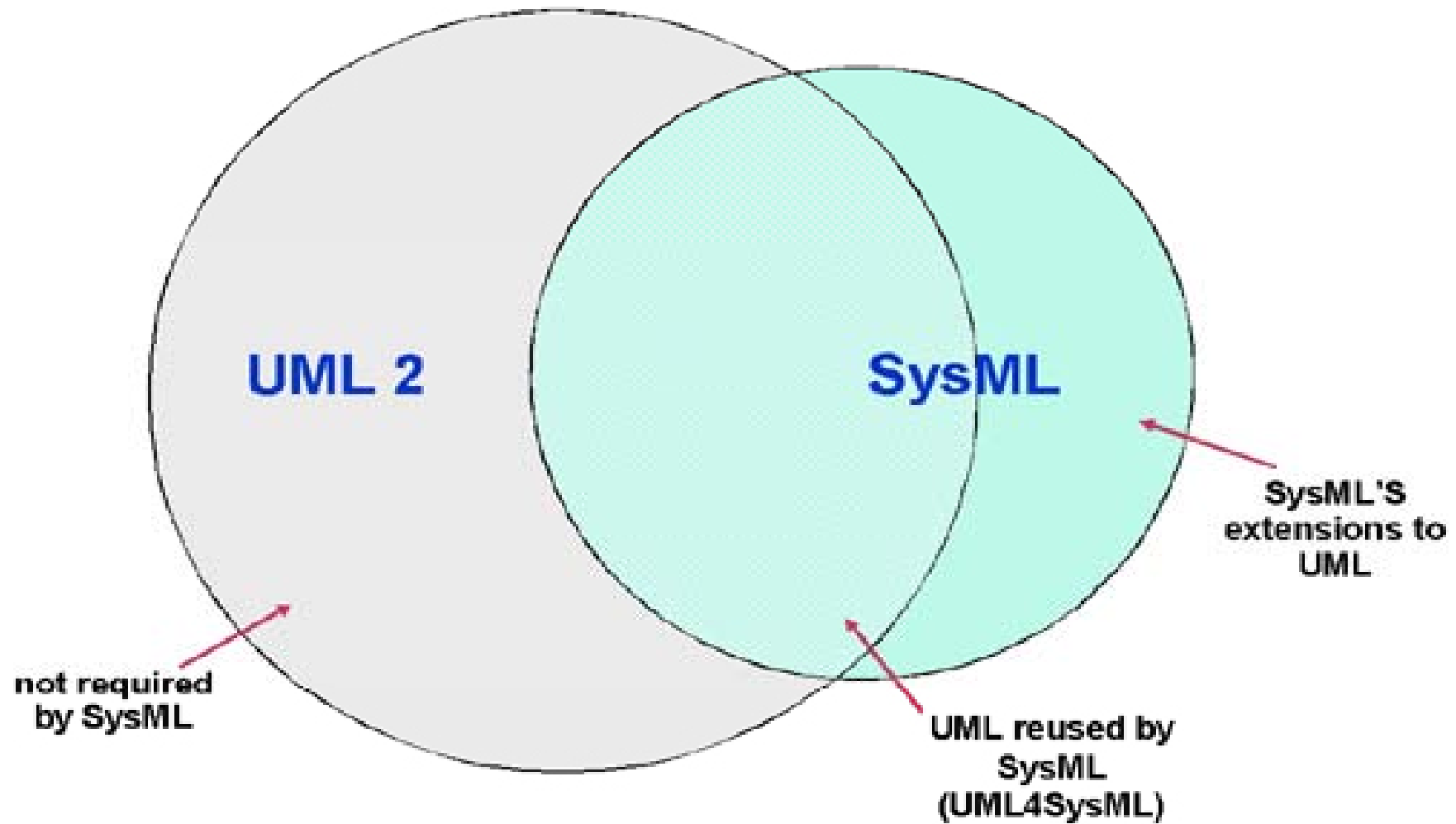


## Spécifique ?

The challenge for a software development project using DSL's is to ensure that the right DSL is used by the right person for the right situation.

- The (modeling) language can be fully tailored to the goal it has to be used for.
- Users work with concepts they know. DSL's can be vertical (tailored to a certain business domain) or horizontal (tailored to a technical discipline).
- Users only get what they need, they only have to learn the limited set of concepts related to the domain they are working on.
- Tools can be tailored to the use of specific DSL's even more supporting the user in defining the models in an easy way.

# Un exemple : SysML



Source : site OMG