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Dines Bjørner's MAP-i Lecture # 11

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# Conclusion

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Thursday, 28 May 2015: 15:30–16:30

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## 8. Conclusion

### 8.1. Various Observations

#### 8.1.1. Tony Hoare's Summary on 'Domain Modeling'

- In a 2006 e-mail, in response, undoubtedly to my steadfast, perhaps conceived as stubborn insistence, on domain engineering,
- Tony Hoare summed up his reaction to domain engineering as follows, and I quote<sup>31</sup>:

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<sup>31</sup>E-Mail to Dines Bjørner, July 19, 2006

“There are many unique contributions that can be made by domain modeling.

- 1 The models describe all aspects of the real world that are relevant for any good software design in the area. They describe possible places to define the system boundary for any particular project.
- 2 They make explicit the preconditions about the real world that have to be made in any embedded software design, especially one that is going to be formally proved.

- 3 They describe the whole range of possible designs for the software, and the whole range of technologies available for its realisation.
  - 4 They provide a framework for a full analysis of requirements, which is wholly independent of the technology of implementation.
  - 5 They enumerate and analyse the decisions that must be taken earlier or later in any design project, and identify those that are independent and those that conflict. Late discovery of feature interactions can be avoided.”
- All of these issues are dealt with in [10, Part IV].

## 8.1.2. Beauty Is Our Business

- This paper started with a quote from Dostovevsky's *The Idiot*.

*It's life that matters, nothing but life –  
the process of discovering, the everlasting and perpetual process,  
not the discovery itself, at all.*<sup>32</sup>

- I find that quote appropriate in the following, albeit rather mundane, sense:
  - ❖ It is the process of analysing and describing a domain
  - ❖ that exhilarates me:
  - ❖ that causes me to feel very happy and excited.
- There is beauty [E.W. Dijkstra] not only in the result but also in the process.

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<sup>32</sup>Fyodor Dostoyevsky, *The Idiot*, 1868, Part 3, Sect. V

## 8.2. Acknowledgements

- I thank Dr. Luís Soares Barbosa for having organised my lectures.  
I truly much appreciate the huge amount of work he has done.
- Preparing for these lectures has taken quite some time.  
But it has been fun to do that work — including quite some additional research — not (yet) enough I am {afraid|glad} to say!
- I thank Prof. José Nuno Oliveira for having supported my being here.  
He has indeed established a truly remarkable department.  
We can all be very proud of him.
- I thank my wife, Kari, of 50 years, for holding my arm when crossing the streets of Braga this week!

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**End of MAP-i Lecture # 11:**  
**Conclusion**

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