

Implementation

Phase 4

Implementation

- Goal is to get the design model up and running
- As stated out: We do it incrementally "use case by use case" (version by version)

Documentation at Implementation Level

- Code is the ultimate documentation ...
 - ... if it's understandable!
 - Put in a comment if you in **any way** think this could be hard to understand, high level, what is happening (not how)
 - All coding and comments in English
- Classes should have a class comment (at top)
 - What is this, responsibility of this, who uses it, author
- Methods
 - If in need put a comment (better a clear informative name)
- Attributes
 - Why, for what (better a clear informative name)
- Silly/Bad comments are a pain or a risk (low quality)

Testing

- Unit testing: If any nontrivial classes in design model we start out with testing them (one test/class)
- Integration testing: Testing the interaction of many objects (possible a full use case)
 - Cumbersome when number of objects increase
- The test are an important part of the quality and documentation

Testing in MP 0.1

- Most classes trivial
- A small test of the move method (in Piece)
 - Must go in circle i.e. use modulus

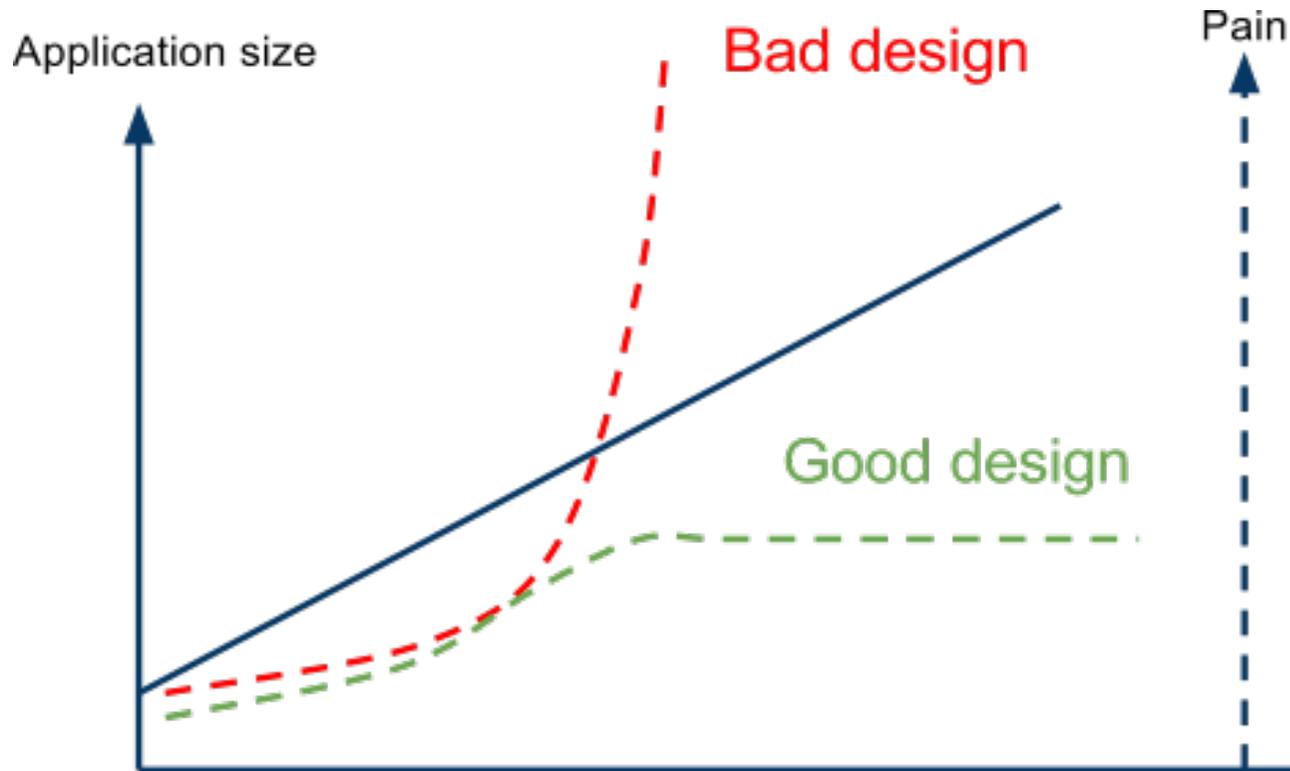
Domain Driven Design (again)

- We focus on the model, the model is the solution
- We don't want the solution blurred by other code (in particular not tons of awful GUI code...)
 - Develop parallel but wait to connect it to the model
- So..
- ...to be able to run the model we create a simple command line version of the program
 - Again: If needed, hard code mock-up classes

Implementation of **MP 0.1**

- Technicalities
 - To be able to see the output we override toString() for most domain classes (common development practise)
- Really impressive demo run...!!! Now... MP 0.1

The Impact of Design



On which curve are we..?

Hmm...



Summary

- Using the design model we have created a first running increment of the application
- We focus on the model, no GUI for now
- We'll have some tests (start of a full test suite)

Next: The $n-1$ following iterations....