Hoan Ng

MODELLING LANGUAGE

Models are mechanisms for communication

Communication needs language

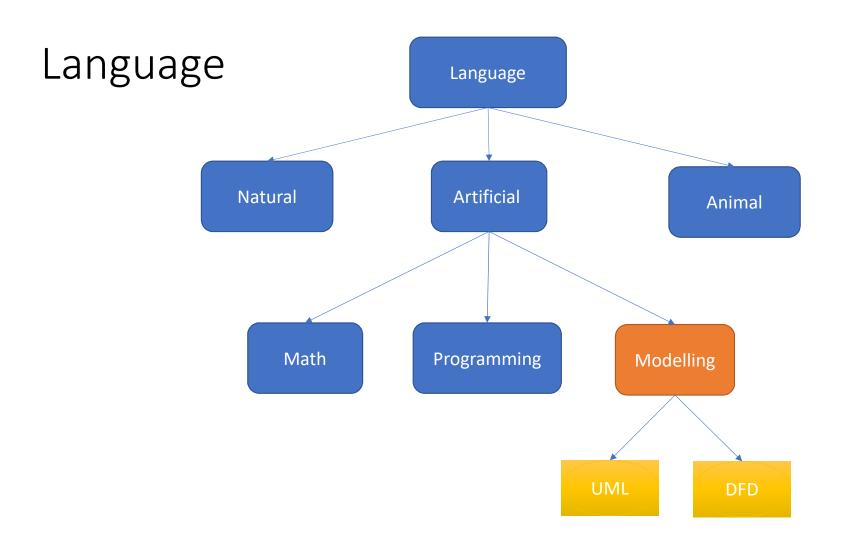
MODELLING NEEDS LANGUAGE

Language

Agenda

Modelling Language

Common Languages



Natural language is misunderstanding

Making consistent models

MODELLING LANGUAGE

The notion of a modelling language allows the developer to make useful connections between different models

MODELLING LANGUAGE are represented diagrammatically

MODELLING LANGUAGE

A set of rules that defines what symbols can be used on a particular type of diagram and what can be constructed with these symbols – its syntax;

One that determines what the diagrams and symbols mean – its semantics.

You construct models to express your understanding and model language will help you pass on that understanding to others

How to select a modelling language

Sufficiently expressive, so that you can be confident that your particular 'take' on a situation can be represented;

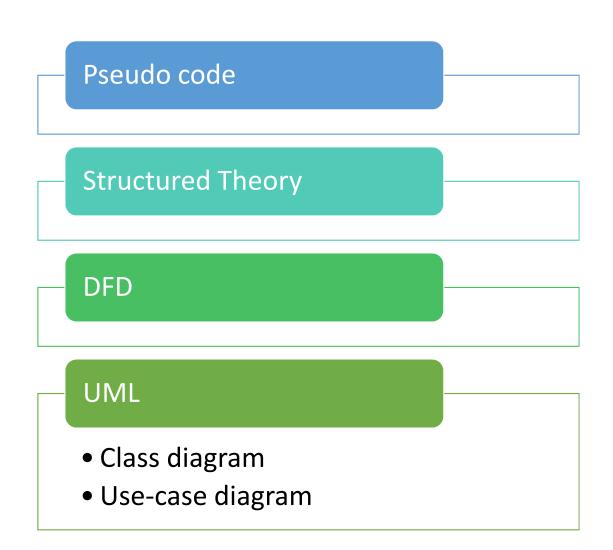
Easy enough to use, but in such a way that its notation allows you to express what you want to say (there will necessarily be some limitations on this because models are a simplification of reality);

Unambiguous, so that the number of possible interpretations of your model are minimised (ideally, that number should be one);

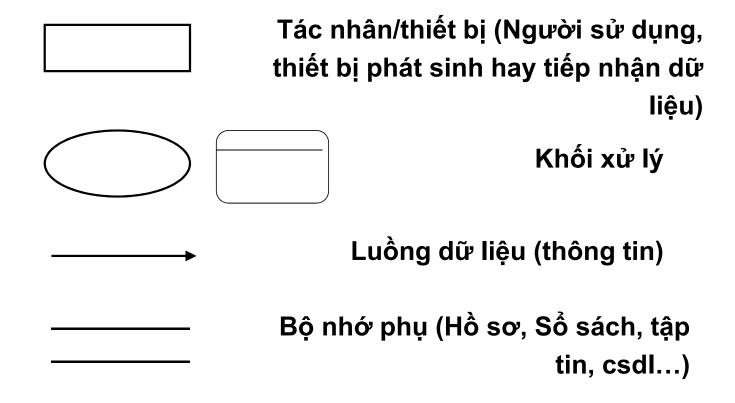
Supported by suitable tools, so that you can apply your modelling skills and not be constrained by your drawing skills;

Widely used, so that you can move to other problem situations without having to learn a new modelling language every time

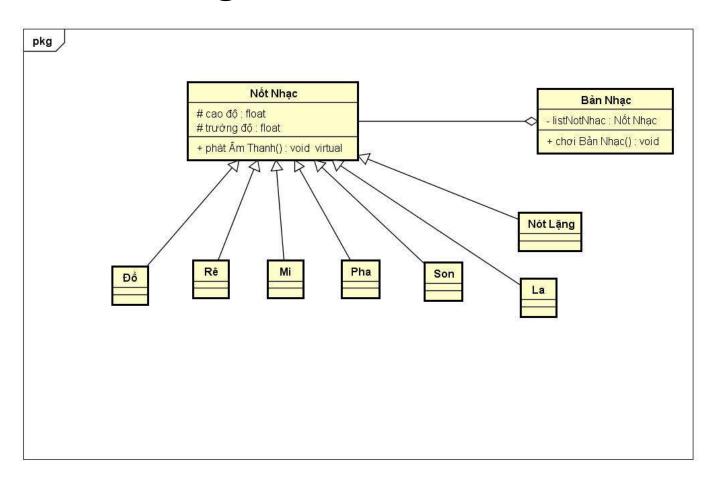
Modelling Language



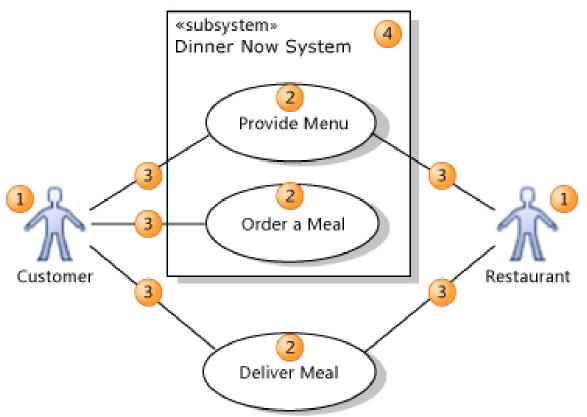
DFD



UML – Class diagram



UML – Use case diagram



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