

## static and dynamic modeling

Static modeling is used to specify structure of the objects that exist in the problem domain. These are expressed using class, object and UML diagrams. But dynamic modeling refers representing the object interactions during runtime. It is represented by sequence, activity, collaboration and statechart diagrams.

A dynamic model on the other hand has the state of the system changing with time. The output values at any instant in time are dependent on not only the input values at that time, but may also be dependent on all of the input values presented to the model at previous times as well.