Resources UML 2 Tutorial

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UML Tutorial

What is UML 2?

UML 2 advances the successful UML specification, and is quickly becoming the accepted standard for specifying, documenting and visualizing software systems. The Unified Modeling Language (UML) is also used for the modeling of nonsoftware systems, and is extensively implemented in most industry sectors including finance, military and engineering.

If you are new to the Unified Modeling Language, our <u>Introduction to UML</u> is a recommended starting point.

UML is divided into two general sets and includes fourteen basic diagram types:

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1. Structural Modeling Diagrams

Structure diagrams define the static architecture of a model. They are used to model the 'things' that make up a model - the classes, objects, interfaces and physical components. In addition, they are used to model the relationships and dependencies between elements.

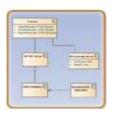
1. Package Diagrams



Package diagrams are used to divide the model into logical containers, or 'packages', and describe the

interactions between them at a high level.

2. Component Diagrams



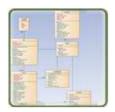
Component diagrams are used to model higher level or more complex structures, usually built up from one or more classes,

and providing a well defined interface.

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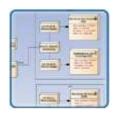
3. Class or Structural Diagrams



Class or Structural diagrams define the basic building blocks of a model: the types, classes and general materials used to

construct a full model.

4. Deployment Diagrams



Deployment diagrams Deployment diagrams show the physical disposition of significant artifacts within a real-world

setting.

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5. Composite Structure Diagrams



Composite Structure diagrams provide a means of layering an element's structure and focusing on inner detail, construction

and relationships.

6. Object Diagrams

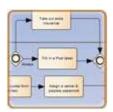


Object diagrams show how instances of structural elements are related and used at run-time.

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7. Profile Diagrams



Profile diagrams provide a visual way of defining light-weight extensions to the UML specification. UML Profiles are often used

to define a group of constructs with domain-specific or platform-specific properties and constraints, which extend the underlying UML elements.

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2. Behavioral Modeling Diagrams

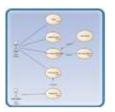
Behavior diagrams capture the varieties of interaction and instantaneous states within a model as it 'executes' over time; tracking how the system will act in a real-world environment, and observing the effects of an operation or event, including its results.

8. Use Case Diagrams

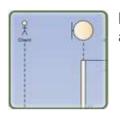
Use Case diagrams are used to model user/system interactions. They define behavior, requirements and constraints in the form of scripts or scenarios.

9. Sequence Diagrams

Sequence diagrams are closely related to communication diagrams and show the sequence of messages passed



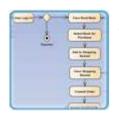
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between objects using a vertical timeline.

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10. Activity Diagrams



Activity diagrams have a wide number of uses, from defining basic program flow, to capturing the decision points and actions

within any generalized process.

11. Timing Diagrams



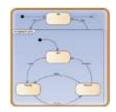
Timing diagrams fuse sequence and state diagrams to provide a view of an object's state over time, and messages which

modify that state.

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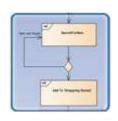
12. State Machine Diagrams



State Machine diagrams are essential to understanding the instant to instant condition, or "run state" of a model when

it executes.

13. Interaction Overview Diagrams



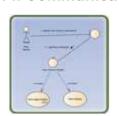
Interaction Overview diagrams fuse activity and sequence diagrams to allow interaction fragments to be easily combined

with decision points and flows.

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14. Communication Diagrams



Communication diagrams show the network, and sequence, of messages or communications

between objects at run-time, during a collaboration instance.

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