

Nine major diagrams of UML

Dynamic diagrams

- **Use case diagrams**
are representations of the functionality of a system, from the point of view of its users
- **Activity diagrams**
represent the behavior of operations using sets of actions
- **Statechart diagrams**
represent the behavior of classes using state machines
- **Sequence diagrams**
represent the behavior of operations using sets of actions
- **Collaboration diagrams**
illustrate the interactions between objects using a spatial structure that represents their physical layout

Static diagrams

- **Class diagrams**
express the static structure of a system in terms of classes and their relationships
- **Object diagrams**
express the static structure of a system in terms of objects using a temporal structure that represents the order of communication
- **Component diagrams**
describe the software components of an application in the implementation environment
- **Deployment diagrams**
show the locations of components on particular pieces of hardware