Sequence Diagram

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1：meaning:

A sequence diagram is a view used to describe the order of information passing between an object and itself.

2:Elements:

The five elements of the sequence diagram are: activist, object, lifeline, control focus, message

3:Activity:

Activities issued by the situation or receiving system services.

4：Object:

An object is a collection of specific behaviors and attributes.

5:There are three ways to represent objects:

(1) Including the object name and class name,

(2)Only class name.

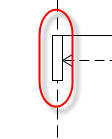
(3)Only the object name

6:lifeline:

Lifeline is used to describe the existence of the object cycle, the dotted line below the object is the lifeline of the object.

7：Control focus:

Control focus refers to the time period during which an activist or object is in execution.



8：message

The message is used to describe the way and content of interaction between objects.

There are four types of messages: synchronous message, asynchronous message, return message, self-associated message

\*Synchronous message: After an object sends a synchronization message to another object, it will be in a blocking state and wait until another object responds.

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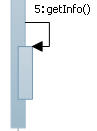
\*Asynchronous messages: After an object sends an asynchronous message to another object, the object can perform other operations without waiting for the response of another object

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\*Return message: The return message of the synchronization message

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\*Self-associated messages: used to describe the internal function of the object call each other.



9：Steps to draw a sequence diagram:

1. Determine the scope of interaction

2. Determine who and who is involved in the interaction

3. Determine the activities of the object, the life cycle

4. Determine the messages generated in the interaction

5. Refine the contents of the message