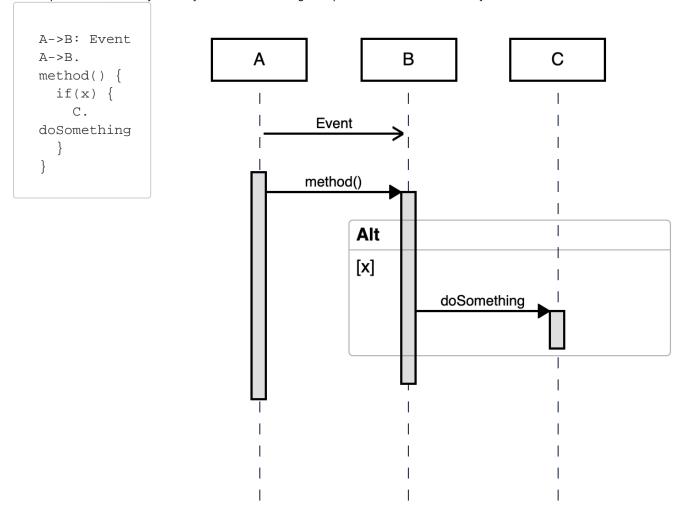
Sequence diagram syntax

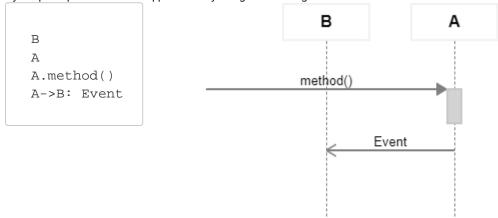
A sequence diagram is an interaction diagram that shows how processes operate with one another and in what order.

Most developers would find the syntax fairly familiar. The following example demonstrates some basic syntaxes.



Participants

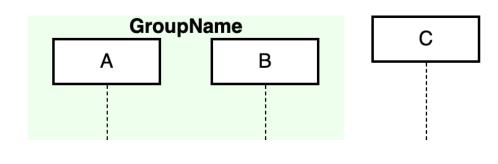
The participants can be defined implicitly as in the first example on this page. The participants are rendered in order of appearance in the diagram source text. Sometimes you might want to show the participants in a different order than how they appear in the first message. It is possible to specify the participant' s order of appearance by doing the following:



Participant group

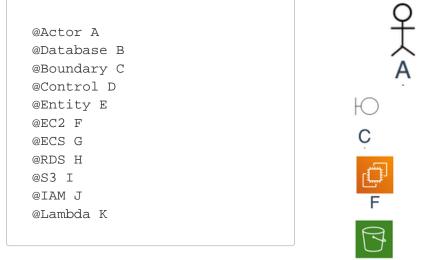
We can group the participants with ${\tt group}$ keyword.

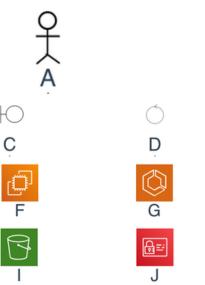




Participant type (Annotation)

We can change the shape of the participant representation with annotations.

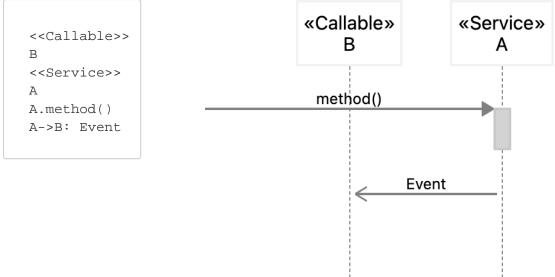






Stereotype

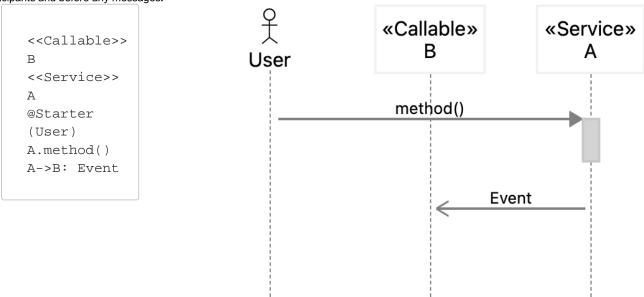
It is possible to add stereotypes to participants using << and >>.



Starter

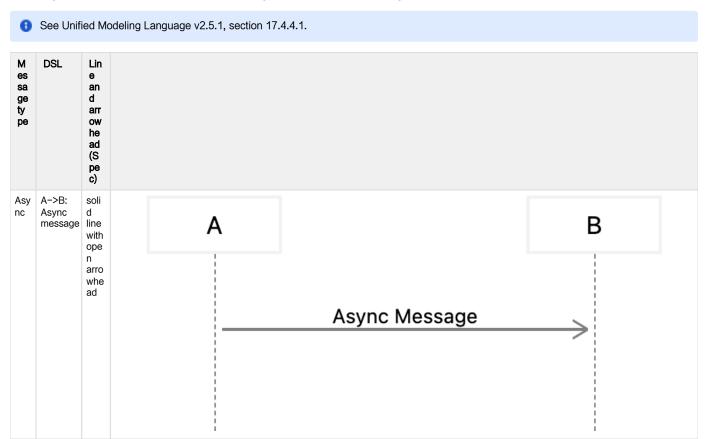
ADVANCED

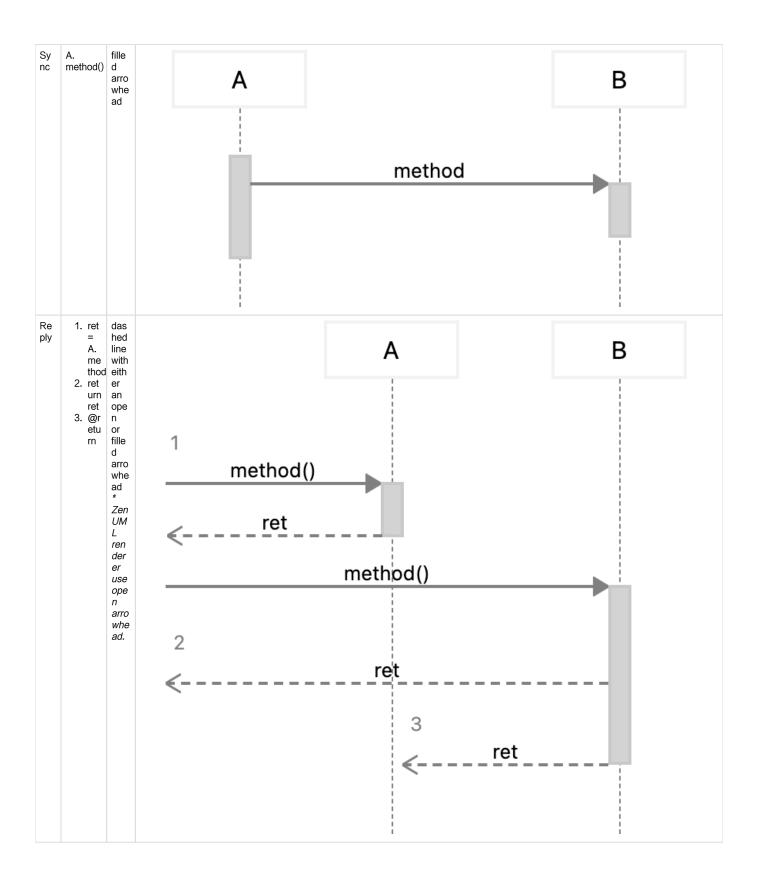
By default, the "client" of the interaction is not shown in the diagram. However, you can specify a "client" with the @Starter keyword. Specifically, if the starter's name is "User" or "Actor", we will use a Stickman icon. @Starter must be put after you have declared all participants and before any messages.

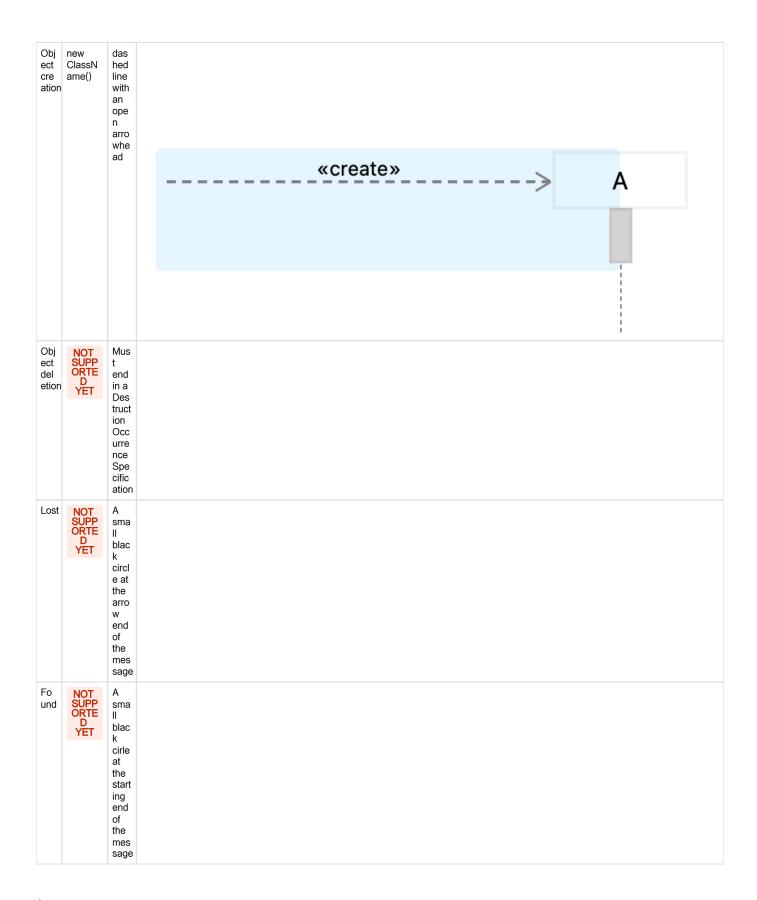


Messages

A message is shown as a line from the sender MessageEnd to the receiver MessageEnd.







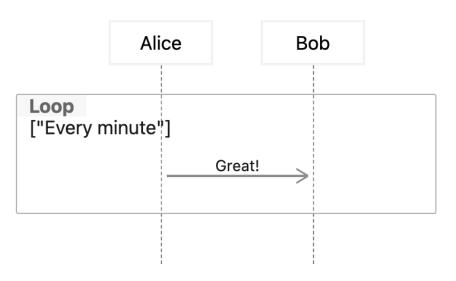
Loops

The loop operand will be repeated a number of times. This is expressed by the notation:

```
while(condition) {}
for(enumerator) {}
forEach(enumerator) {}
```

See the example below:

```
loop("Every
minute") {
   Alice-
>Bob: Great!
}
```



Alt

The alt operand represents a choice of behavior. At most one of the operands will be chosen. This is expressed by the notions:

```
if (condition1) {
    ...
} else if (condition2) {
    ...
} else {
    ...
}
```

```
if (x) {
   A.m1()
} else if (y) {
   A.m2()
} else {
   A.m3()
}
```

