

## Control Information

### CombinedFragments

- ◆ Option (*opt*)
- ◆ Alternatives (*alt*)
- ◆ Parallel (*par*)
- ◆ Critical Region (*critical*)
- ◆ Iteration (*loop*)
- ◆ Continuation .

## CombinedFragments

### Option (*opt*)

- ◆ Represents a choice of behavior where
  - *either* the (sole) operand happens
  - *or* nothing happens

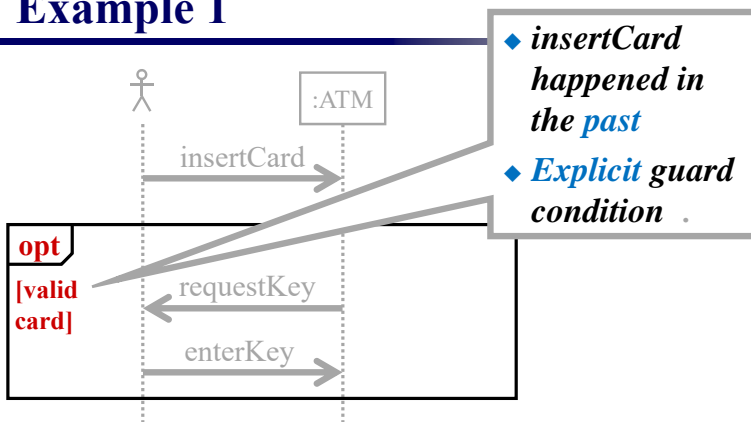
*Like “if then”  
without “else” in  
programming .*

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## Option (*opt*)

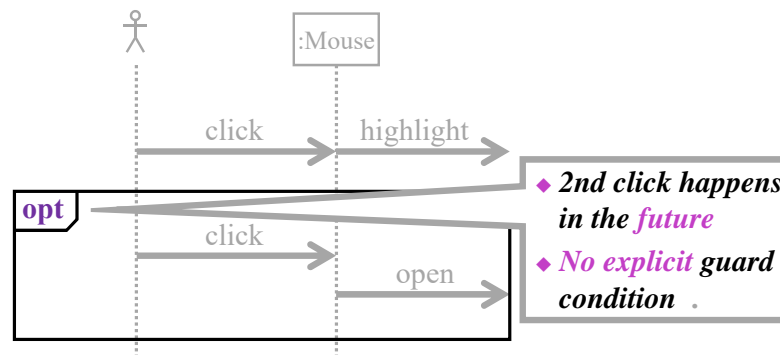
### Example 1



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## Option (*opt*)

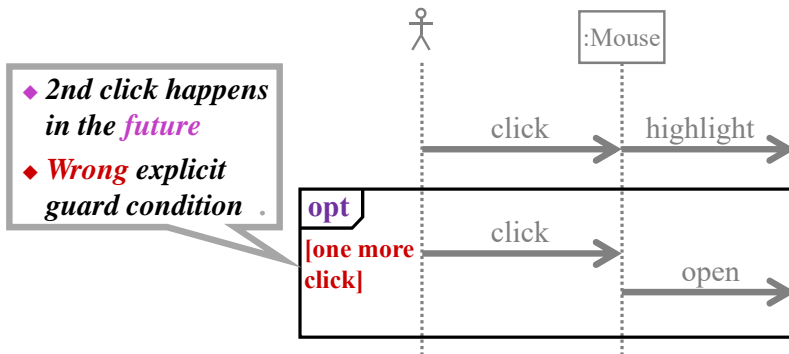
### Example 2



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Example 2 (continued)

We Learn from Mistakes

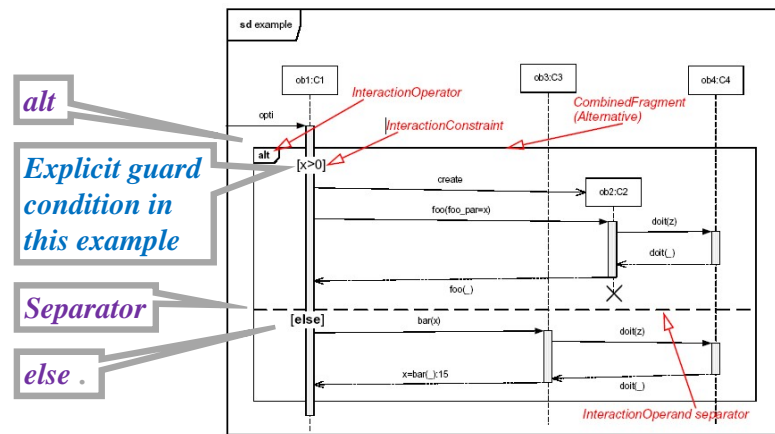


CombinedFragments Alternatives (alt)

- ◆ 2 or more behavioral options
- ◆ At most 1 will be chosen

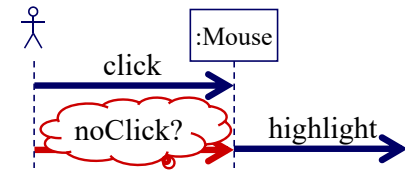
Like "if then else" in programming.

CombinedFragments Alternatives (alt)

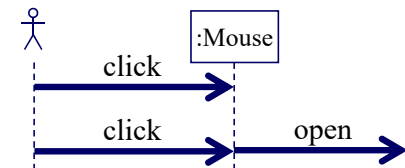


Duration Constraints

- ◆ Example 1: Single click

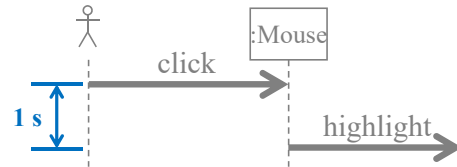


- ◆ Example 2: Double click

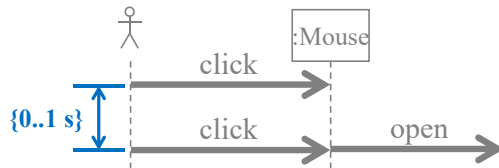


## Duration Constraints

- ◆ *Example 1:*  
Single click

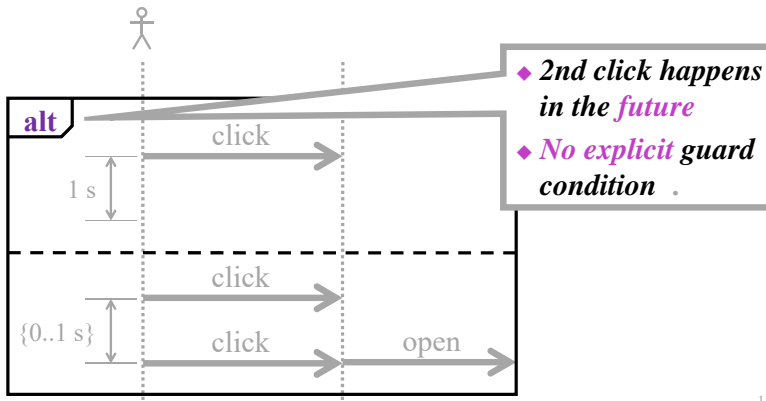


- ◆ *Example 2:*  
Double click



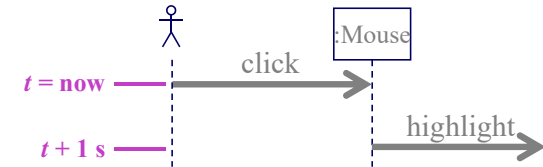
## Alternatives (alt)

### Example 1

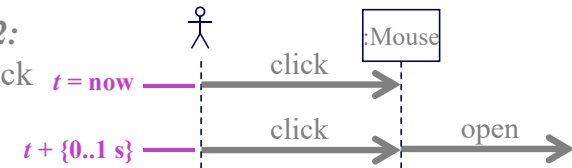


## Time Constraints

- ◆ *Example 1:*  
Single click

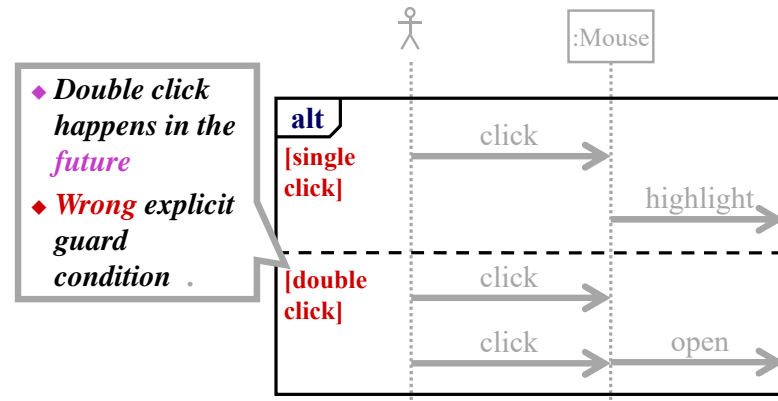


- ◆ *Example 2:*  
Double click



## Example 1 (Continued)

### We Learn from Mistakes



### CombinedFragments

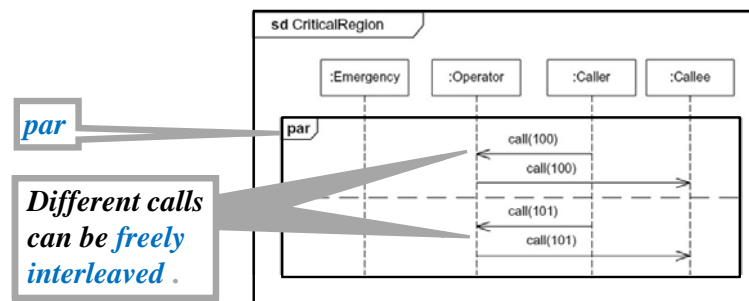
## Parallel (*par*)

- ◆ Represents a parallel merge of the behavior of the operands
- ◆ Different operands can be interleaved in any way as long as the order within each operand is preserved .

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### CombinedFragments

## Parallel (*par*)



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### CombinedFragments

## Critical Region (*critical*)

- ◆ Events in a critical region must be handled first
- ◆ Events in a critical region cannot be interleaved with events outside the region .

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### CombinedFragments

## Critical Region (*critical*)

