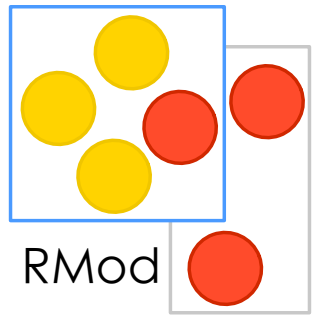
INRIA



Precision about the Cascade

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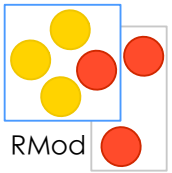
Let's be Precise!

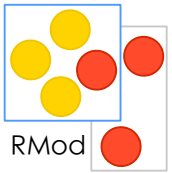


- The semantics of the cascade is to send all the messages in the cascade to the receiver of the FIRST message involved in the cascade.

- Workstation new name: #mac ; nextNode: aNode

- Where the msg name: is sent to the newly created instance of workstation and the msg nextNode: too.

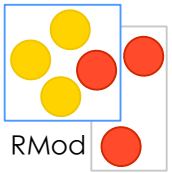
Let's be Precise!



(OrderedCollection with: 1) add: 25; add: 35

In the example the FIRST message involved in the cascade is the first add: msg and not #with:. So all the messages are sent to the result of the parenthesised expression, the newly created instance of anOrderedCollection

One Problem

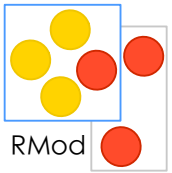



```
(OrderedCollection with: 1)
        add: 25;
        add: 35
```

PrIt-> 35

One problem: the expression returns 35 and not the collection object.

Let's analyze a bit…



OrderedCollection>>add: **newObject**

"Include newObject as one of the receiver's elements. Answer newObject."

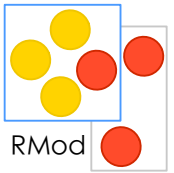
^self addLast: newObject

OrderedCollection>>addLast: **newObject**

"Add newObject to the end of the receiver. Answer newObject."

```
lastIndex = self basicSize ifTrue: [self makeRoomAtLast].
lastIndex := lastIndex + 1.
self basicAt: lastIndex put: newObject.
^newObject
```

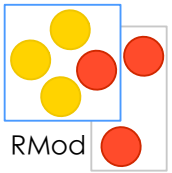
Yourself: Accessing the Receiver



- Use yourself
- yourself returns the receiver of the cascade.

```
(OrderedCollection with: 1)
        add: 25;
        add: 35 ;
        yourself
-> OrderedCollection(1 25 35)
```

Really got it?



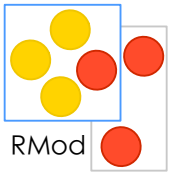
yourself returns the receiver of the cascade:

Here the receiver of the cascade is a newly created instance anOrderedCollection and not the class OrderedCollection. The self in the yourself method is linked to this instance

(OrderedCollection with: 1) add: 25; add: 35 ; yourself

anOrderedCollection(1) = self

Of course!




```
Object>>yourself
    ^ self
```