

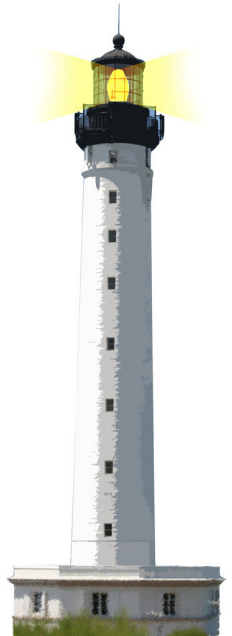
# Understanding Messages: Sequence and Cascade

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W2S04



<http://www.pharo.org>



# Expression Sequence

. is a separator

```
expression1.  
expression2.  
expression3
```

Example

```
Transcript cr.  
Transcript show: 1.  
Transcript show: 2
```



# Expression Sequence

- . is a separator, not a terminator
- no need to put one at the end
- no point after temporary variable declaration

```
| macNode pcNode |  
macNode := Workstation withName: #mac.  
macNode sendPacket: 'Hello World'
```



# Cascade: Sending Multiple Messages to an Object

```
Transcript cr.  
Transcript show: 1.  
Transcript show: 2
```

is equivalent to:

```
Transcript  
  cr ;  
  show: 1 ;  
  show: 2
```

- ; is called a cascade



# Cascade Example

## Sending Multiple Messages to an Object

```
| c |  
c := OrderedCollection new.  
c add: 1.  
c add: 2
```

is equivalent to:

```
OrderedCollection new  
  add: 1 ;  
  add: 2
```

- add: 2 is sent to the receiver of message add: 1
- this receiver is the instance of OrderedCollection



# What You Should Know

- . is a separator
- ; (cascade) is useful to avoid repeating the receiver
- the cascade returns the last message returned value



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