Parentheses Vs. Square Brackets

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() vs. []

- () just changes the priority of an execution but the program is executed
- [] blocks program execution: the program is NOT executed

Use [] for 'Unknown' Execution Occurrence

Use [expressions] when:

- expressions may not be executed at all (if, and, ...)
- expressions may be executed multiple times (while, ...)

Example

n timesRepeat: [self doSomething]

timesRepeat: executes a number of times its argument, therefore the argument is a block

() vs. [] Example

x isNil ifTrue: [self doSomething]

ifTrue: may execute or not its argument, therefore the argument is a block

() vs. [] Example

[self start] whileTrue: [self doSomething]

whileTrue: may execute both its receiver and argument multiple times, therefore they are both a block



1 to: n do: ... self doSomething ...

x ifEmpty: ... self doSomething ...

Quiz

1 to: 100 do: [:i|self doSomething]

x ifEmpty: [self doSomething]

Summary

- () is about changing the order of a computation
- [] is freezing the computation and controlling it

A course by



and



in collaboration with











