Ruby Beyond the Basics

Ruby is an Object Oriented Language



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Javascript

Rust

Objective-C

Simula

io

C++

Python

C#

Ruby

Java

Smalltalk

Scala

Javascript

Rust

Objective-C

Simula

io

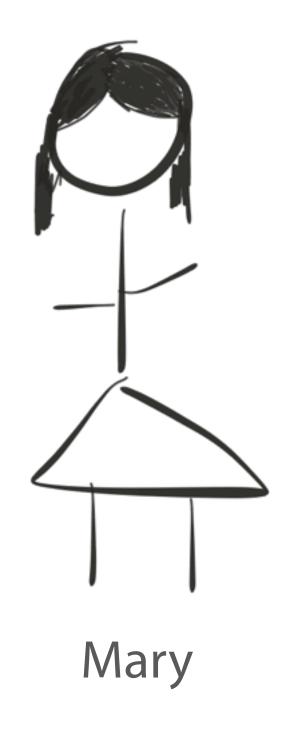
C++ Python C#
"I can tell you that C++ wasn't
what byad in milada

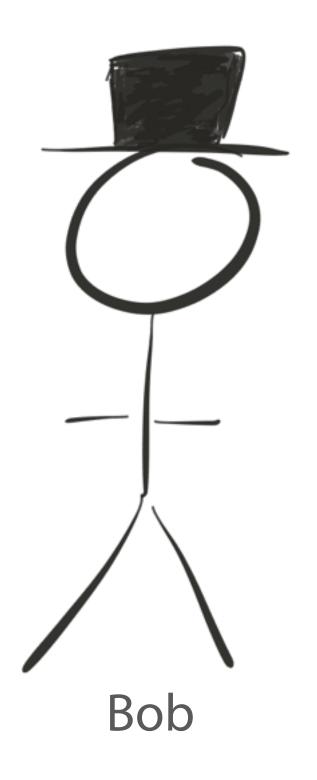
Alan Kay, OOPSLA 1997

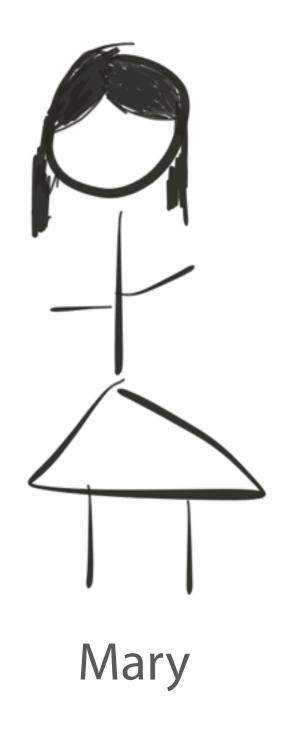
Smalltalk

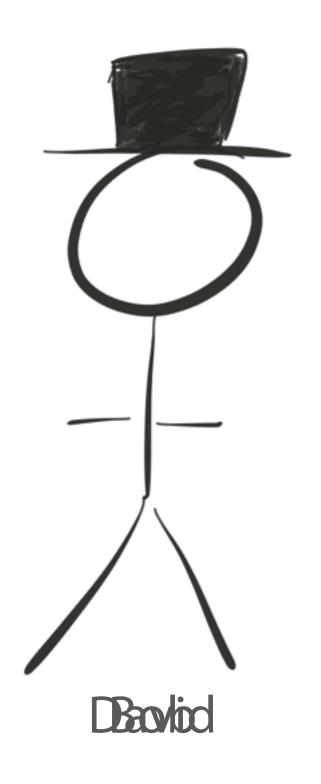
Scala

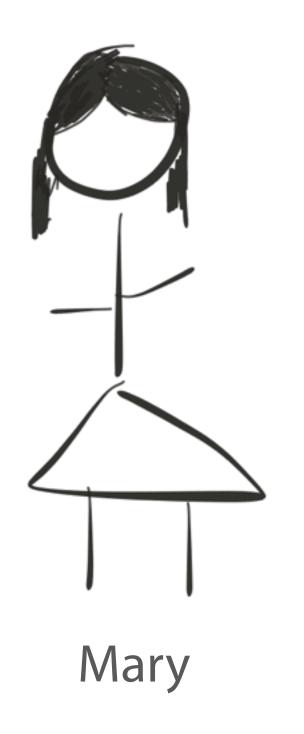
Ruby Object Oriented

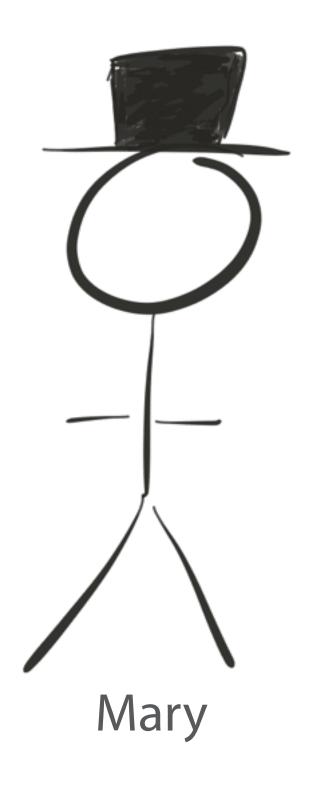


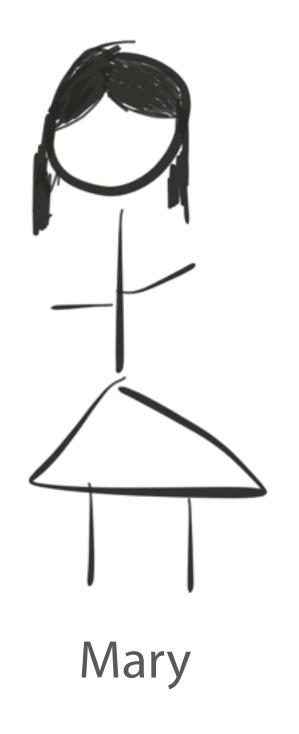


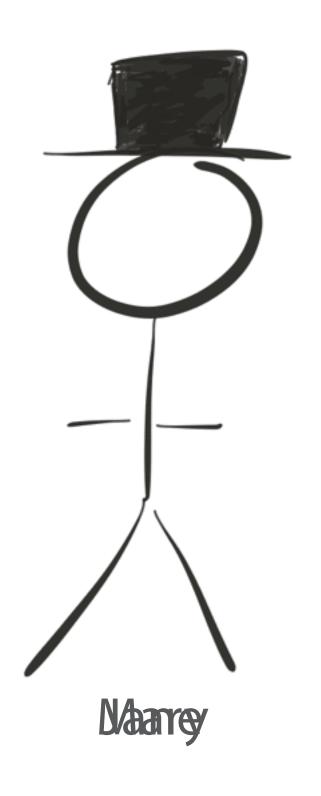




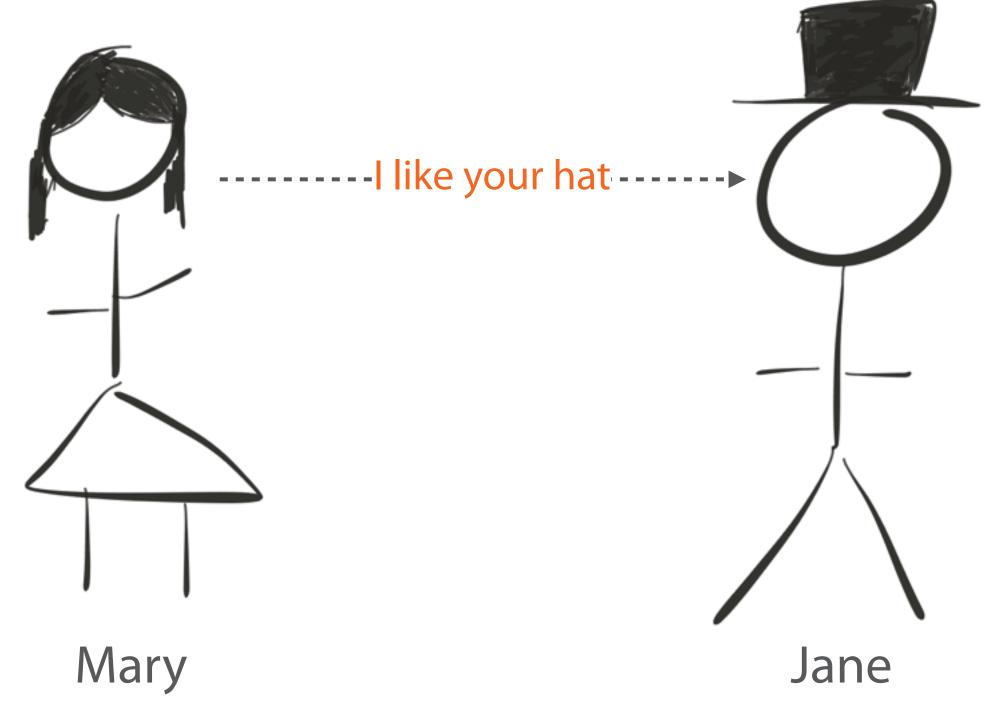




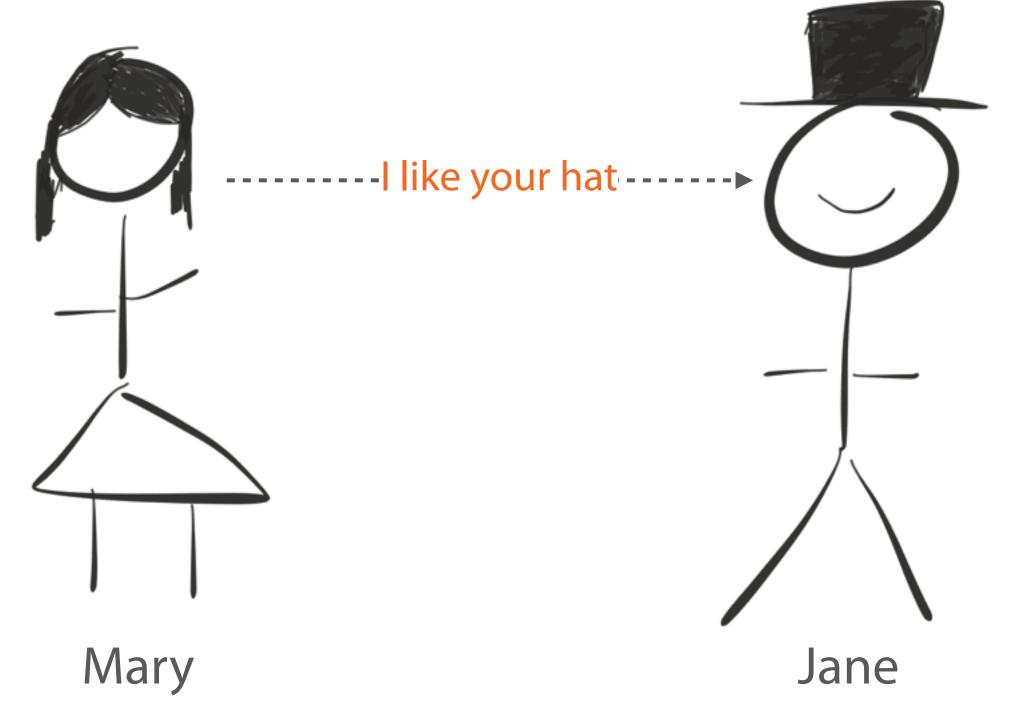




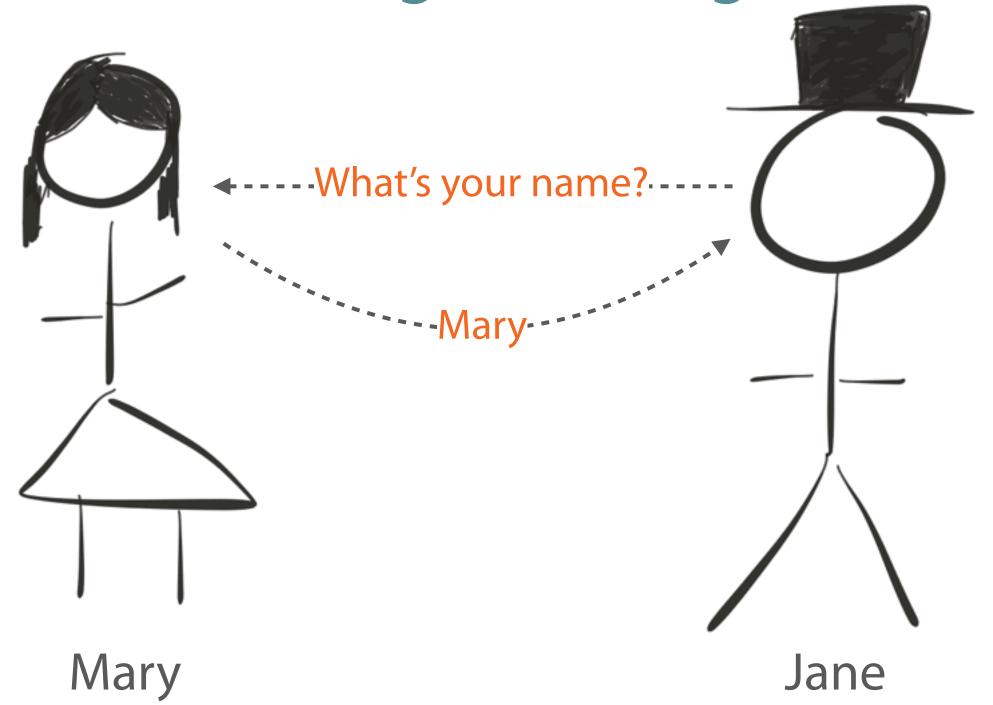
Message Sending



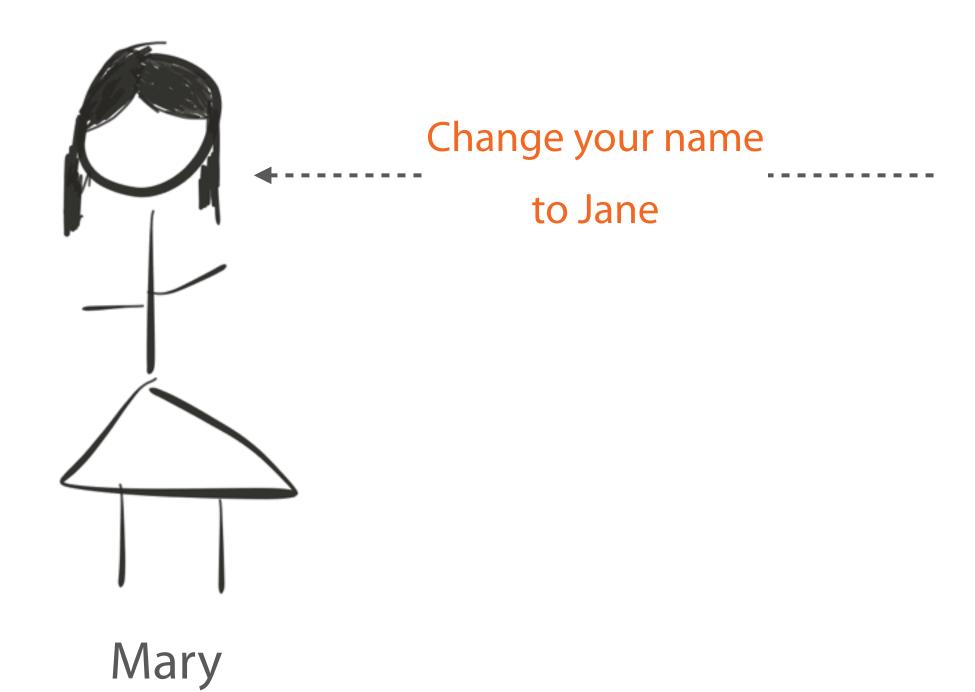
Message Sending

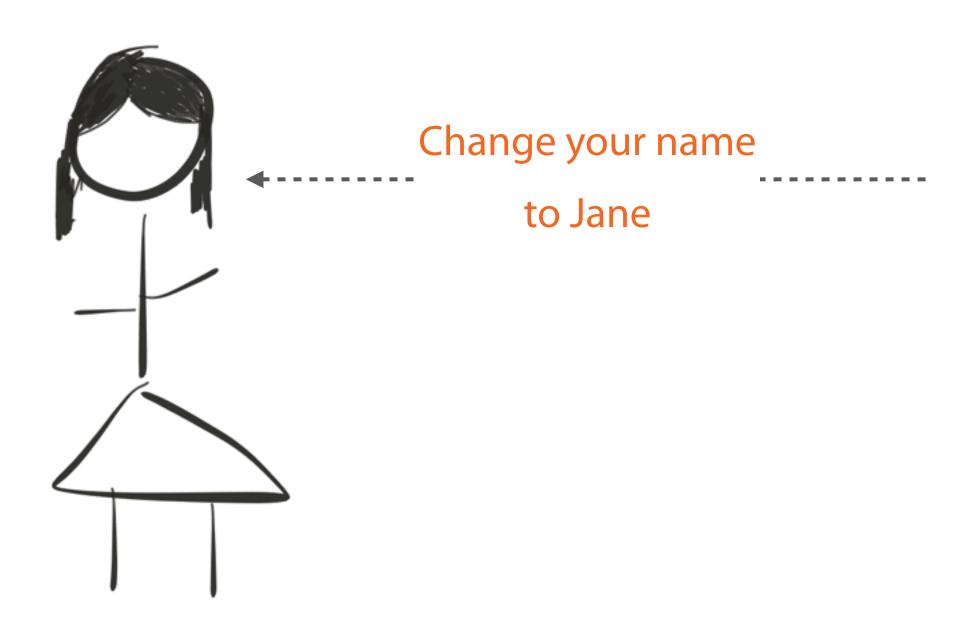


Message Sending

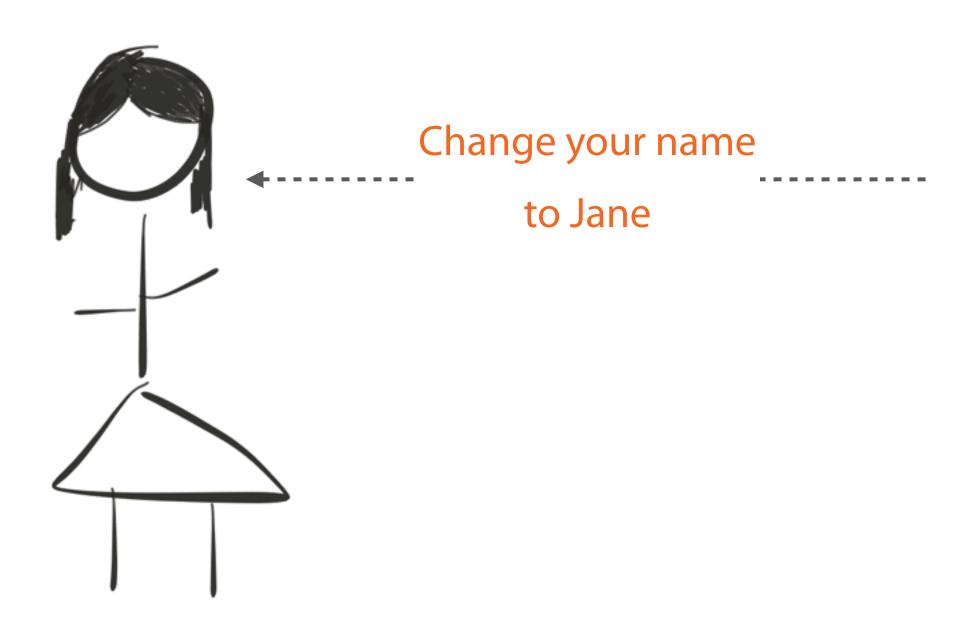


Messages == Calling Methods

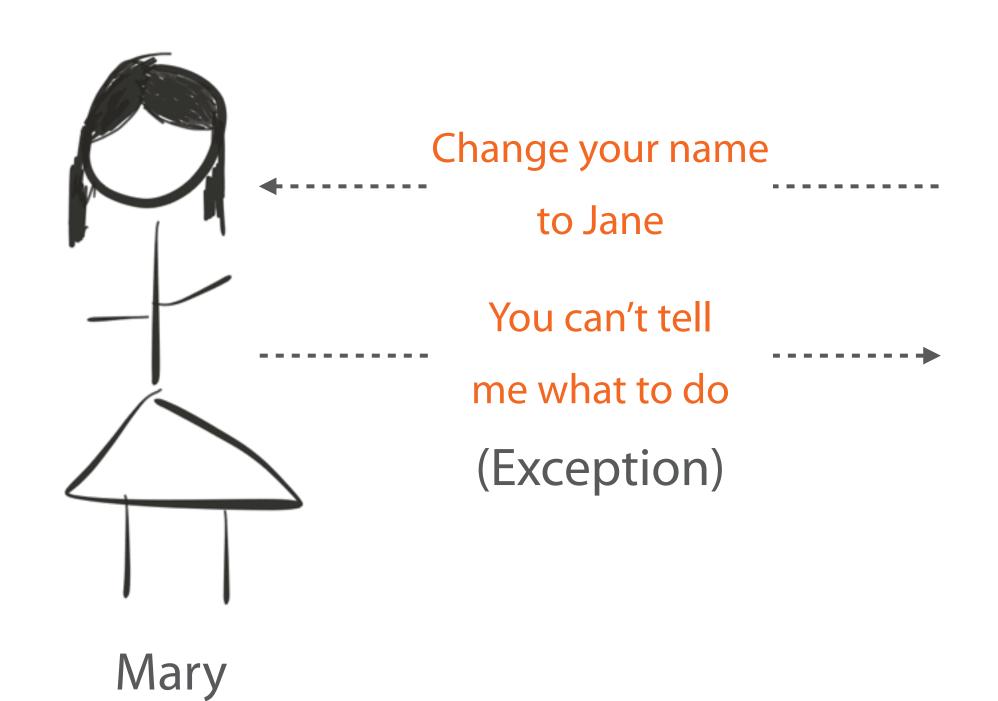


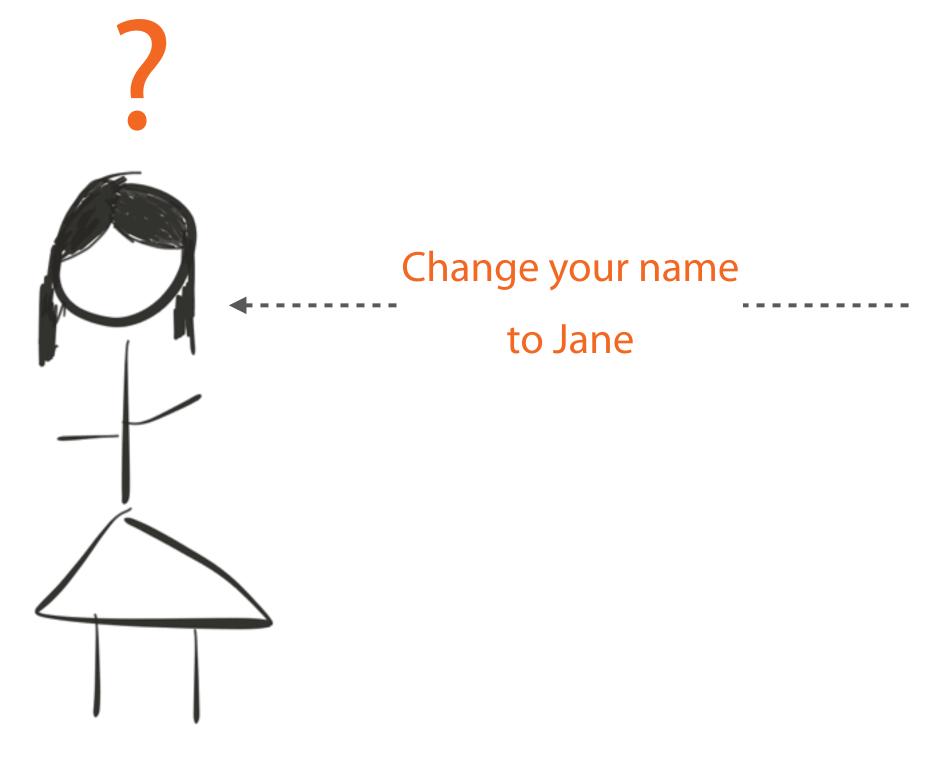


Waarrey



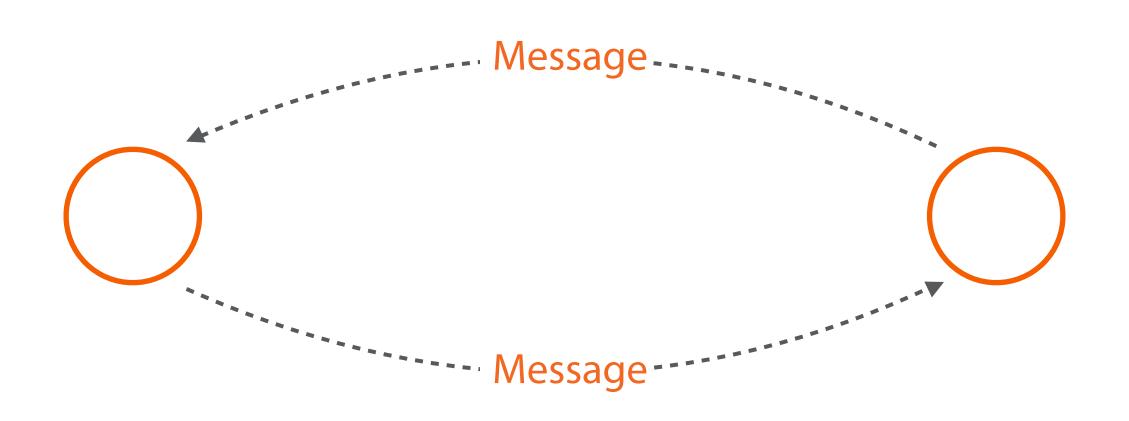
Waarrey

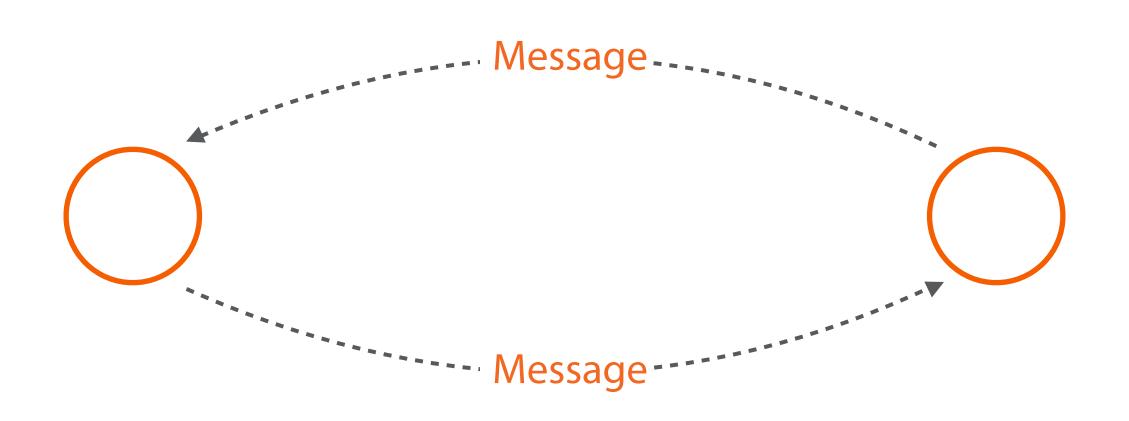


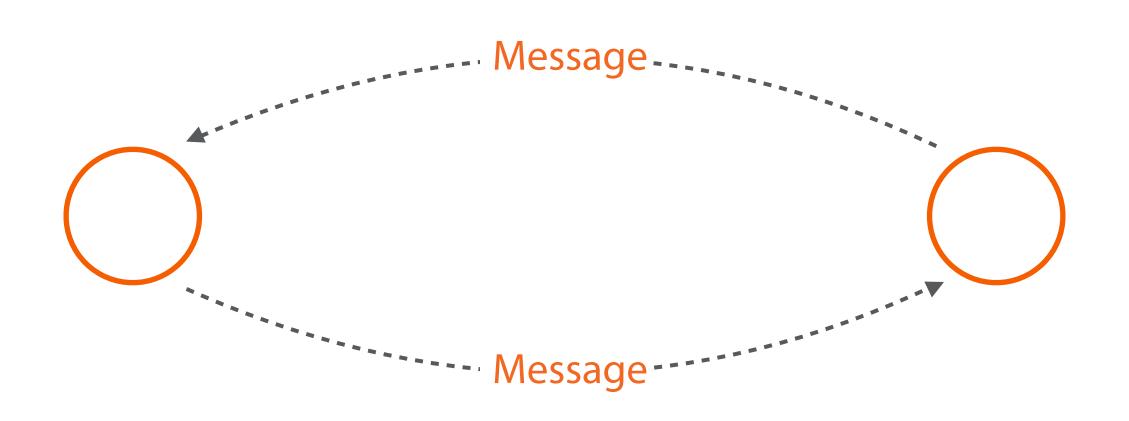


Mary

NoMethodError







Everything is an Object

Object

Local state
Collection of objects

Responds to messages

Object

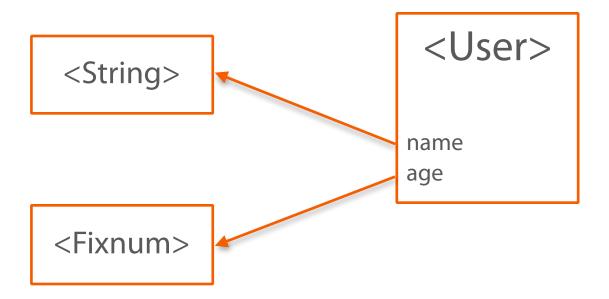
A collection of references to other objects

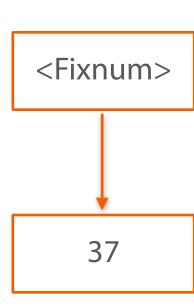
(local state)

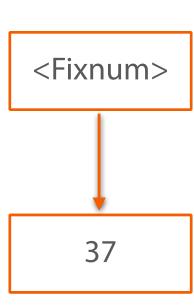
that responds to certain messages

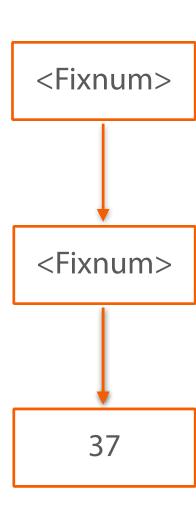
Special Objects

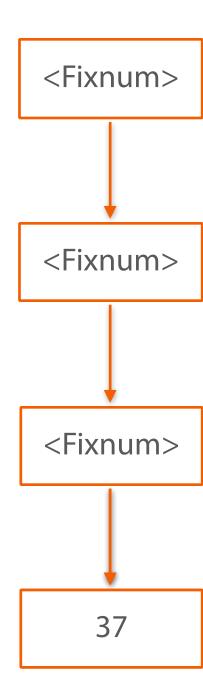


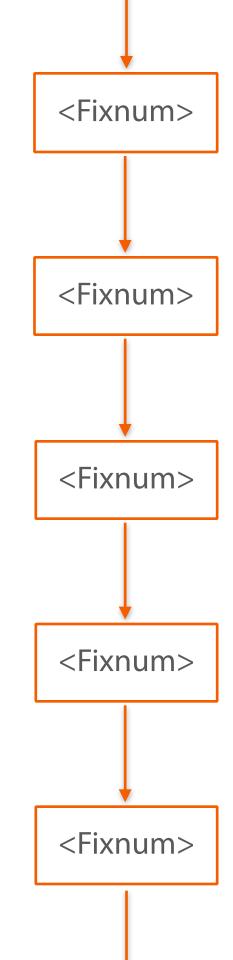


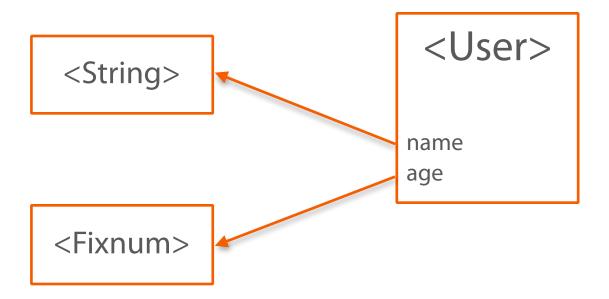


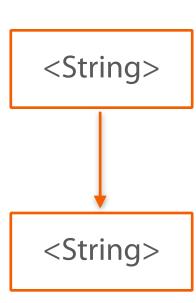


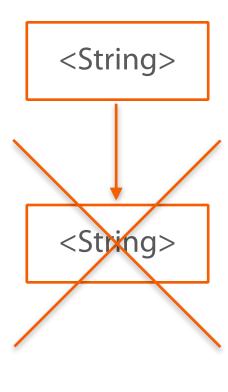




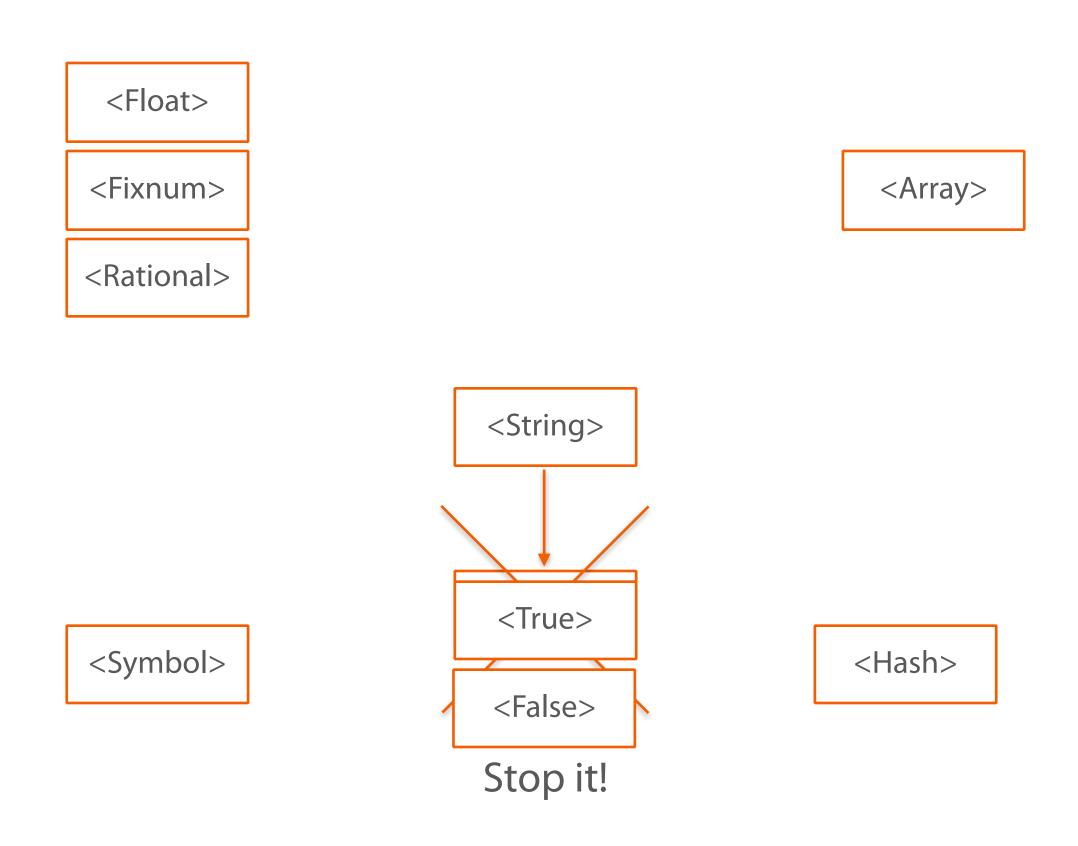


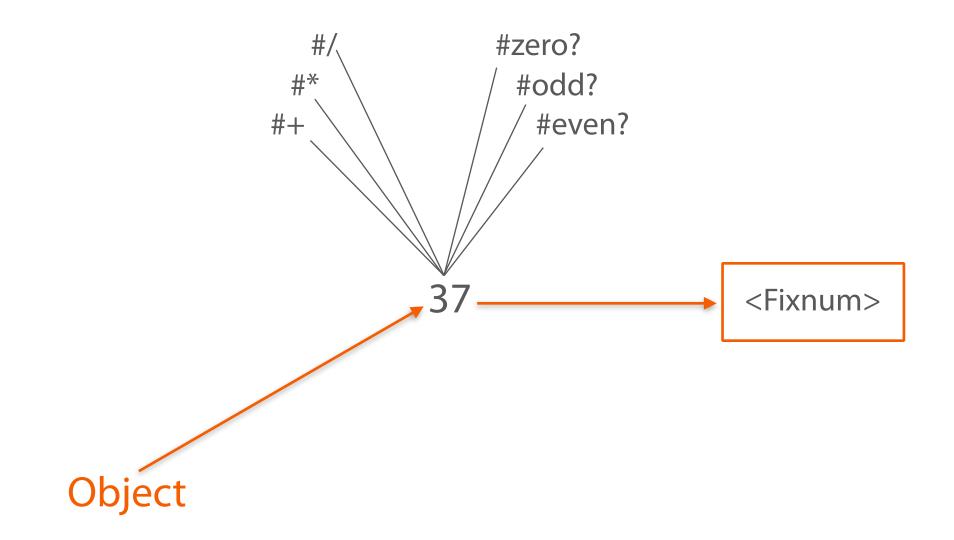




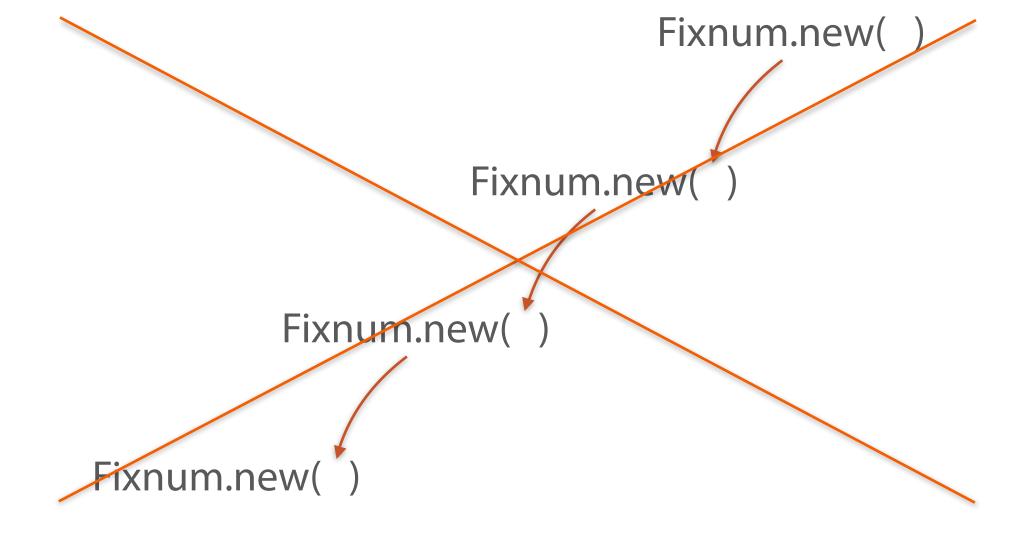


Stop it!



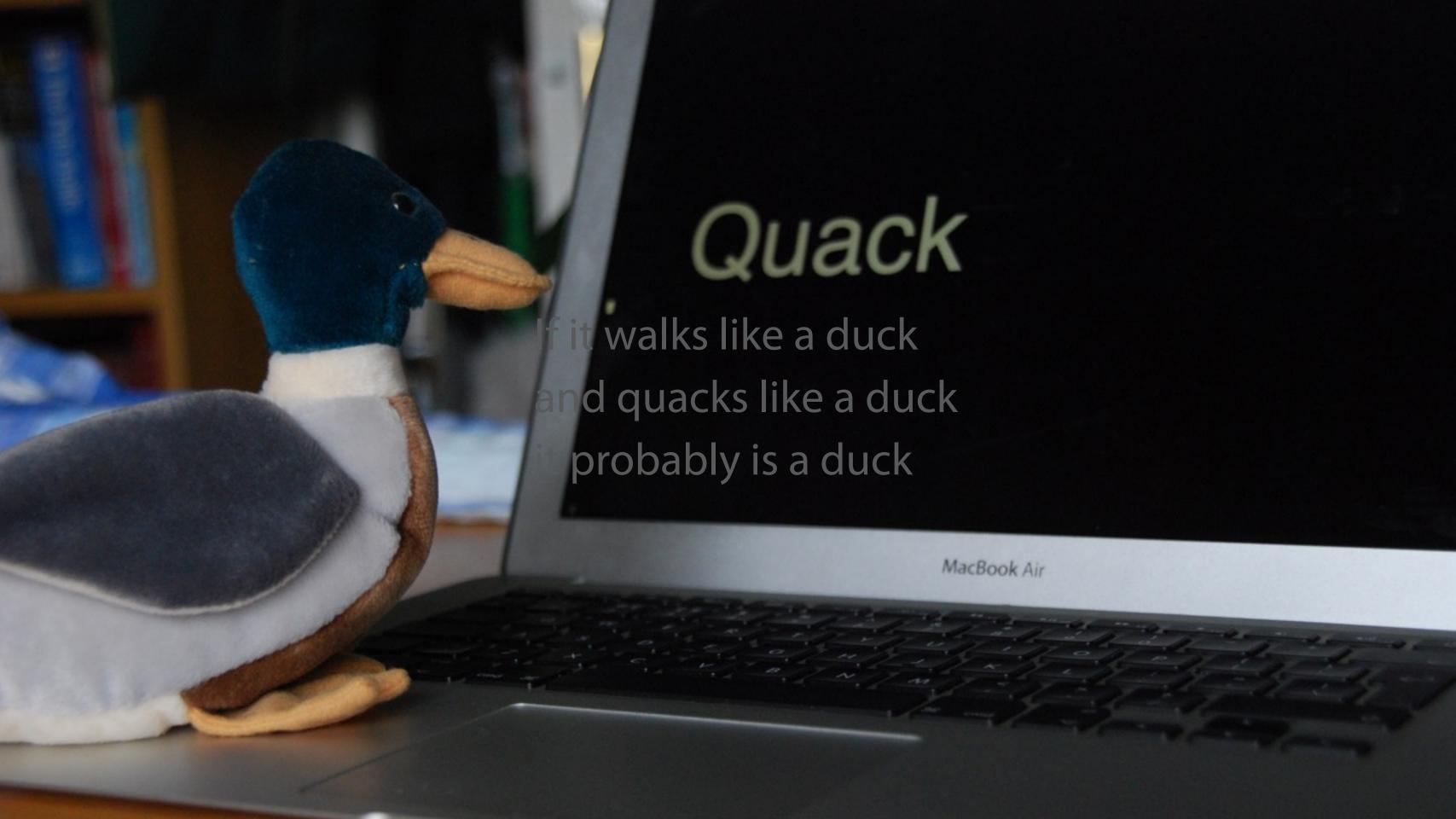


```
object = Class.new(...)
num = 42
<Fixnum>
```

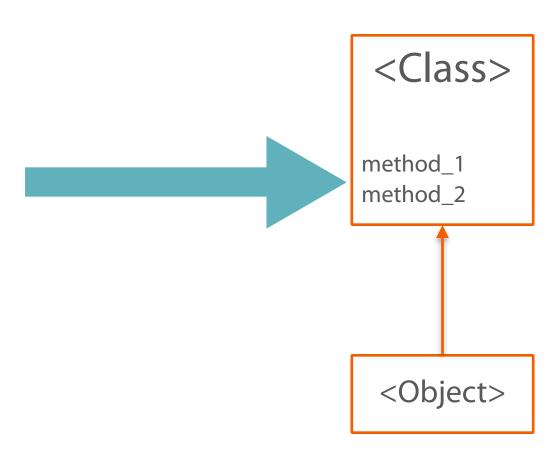


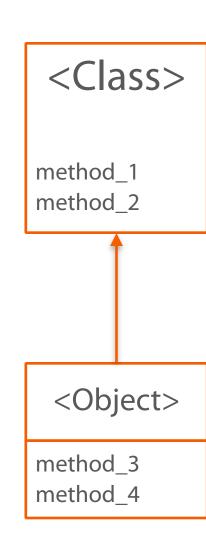
Stop it!

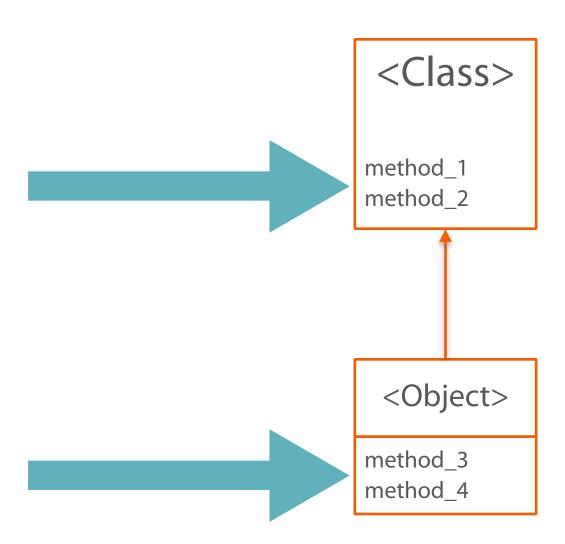
Duck Typing

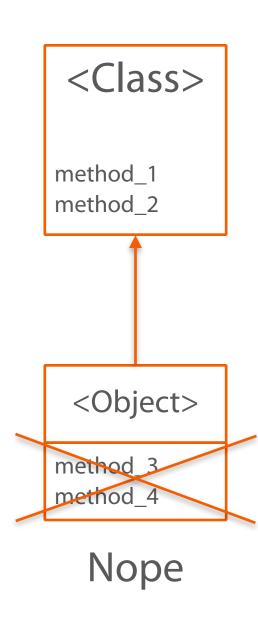


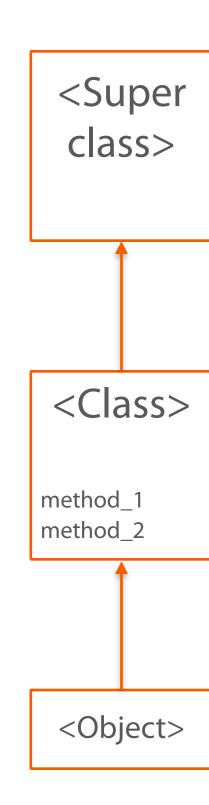
Extend

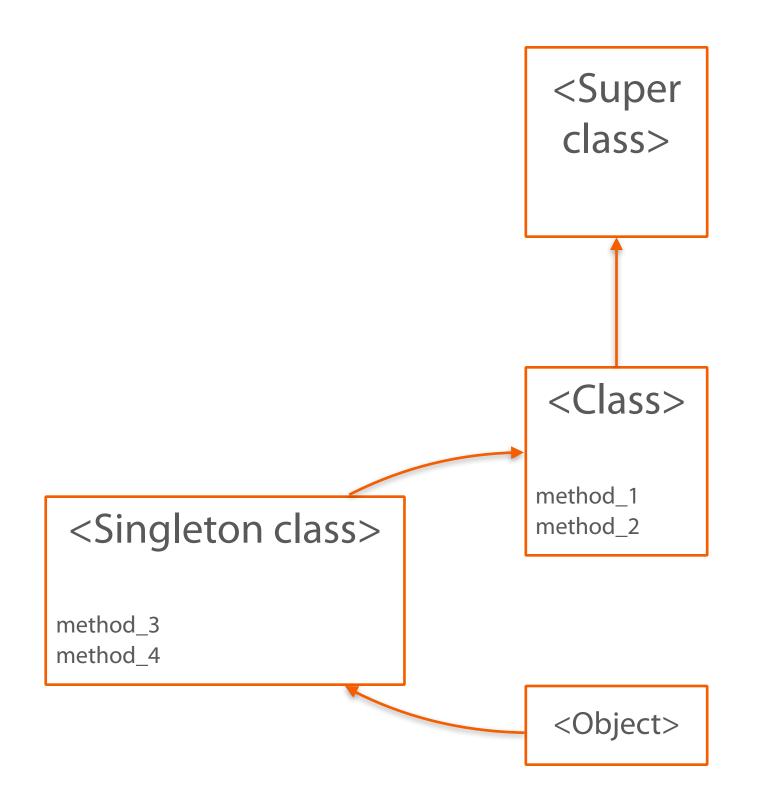


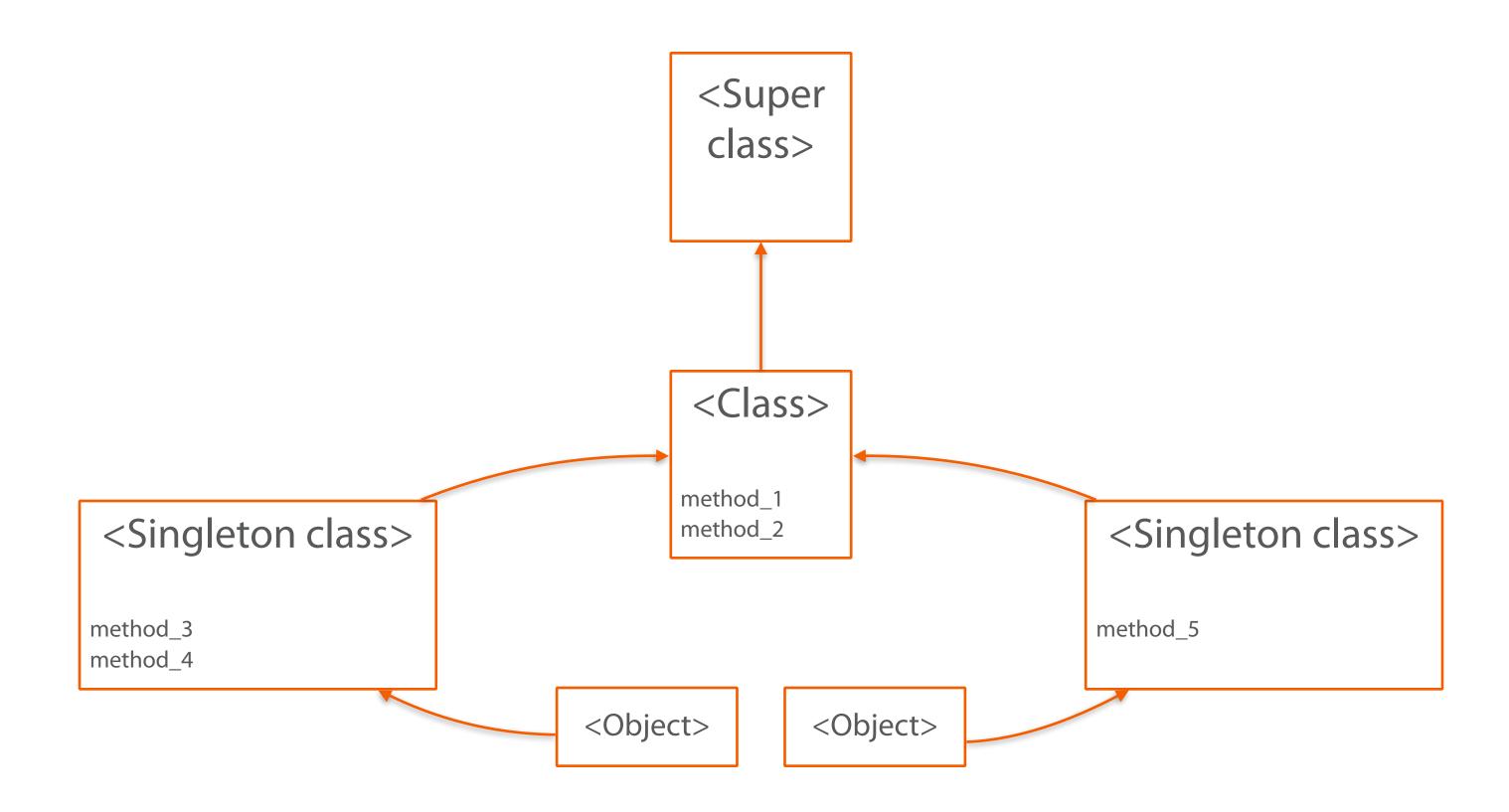




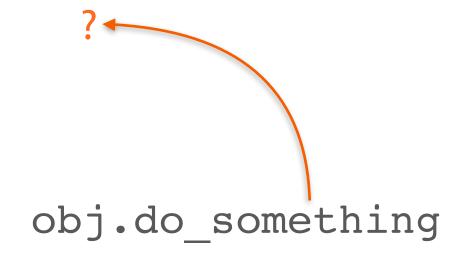


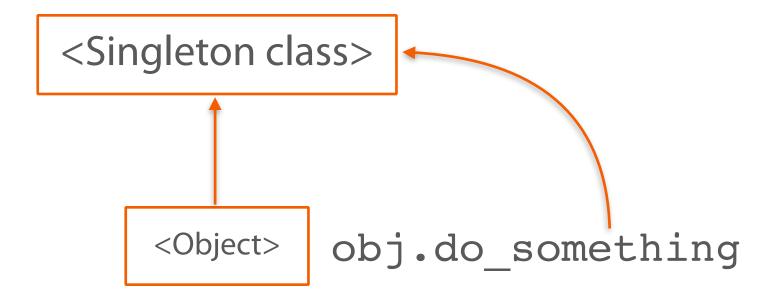


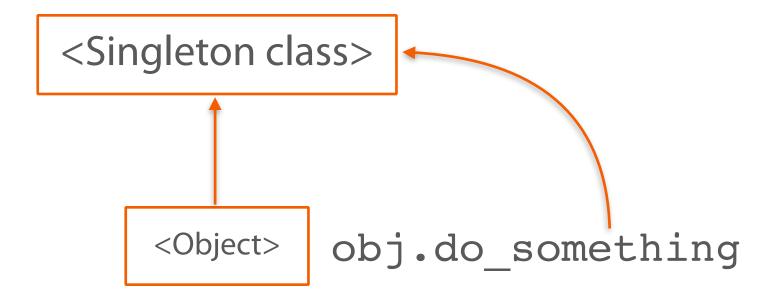


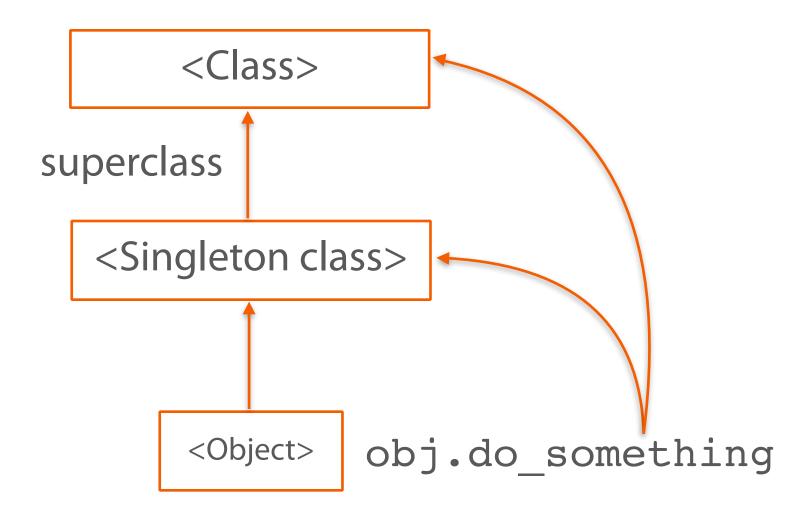


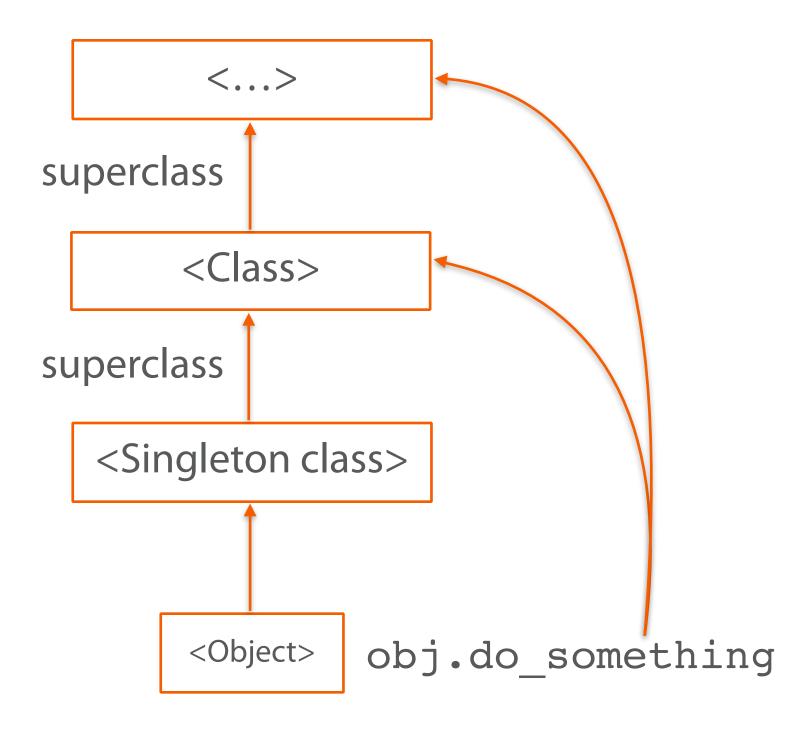
Method Dispatch

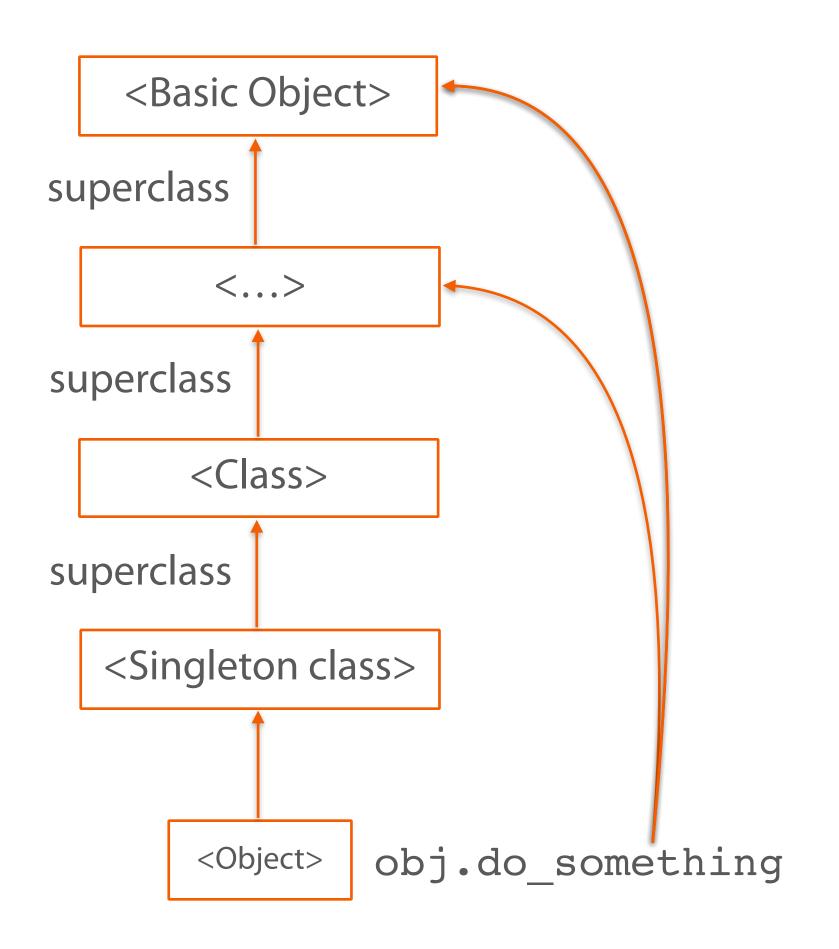


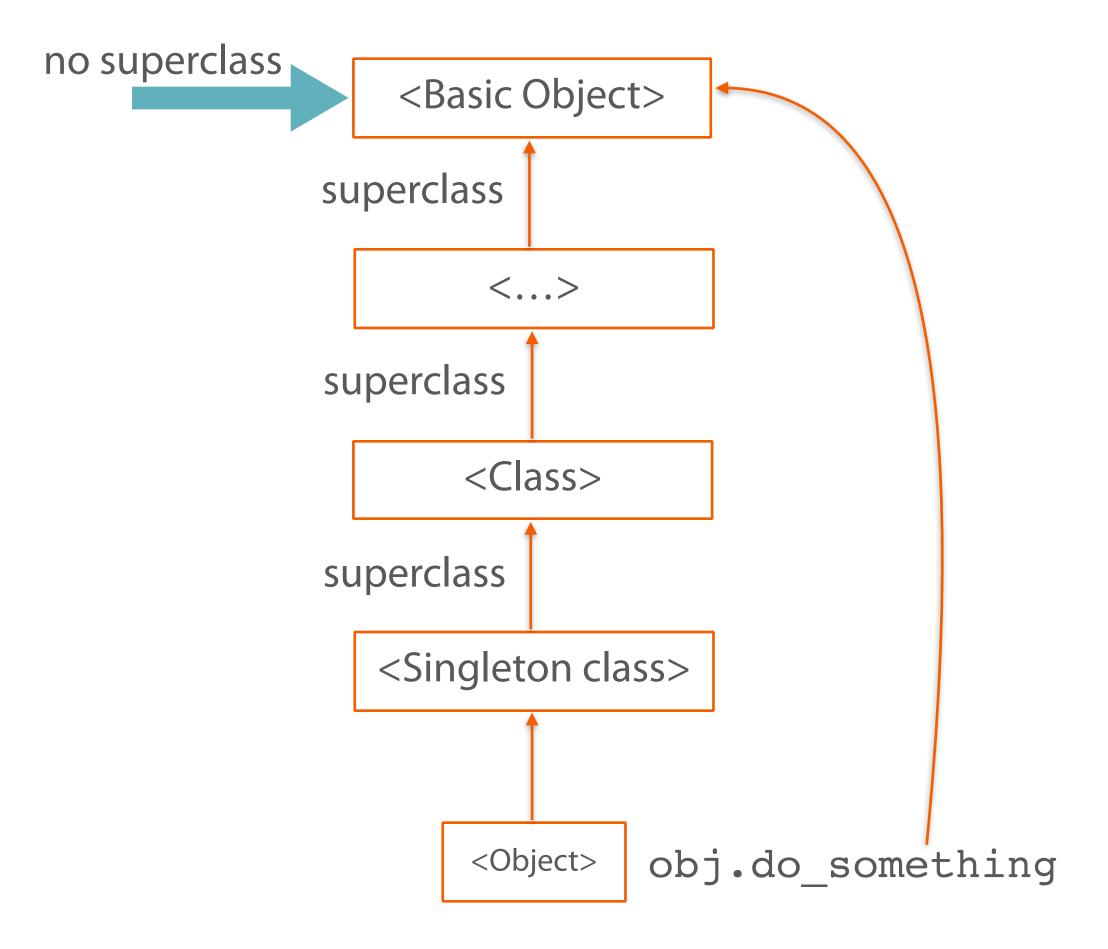


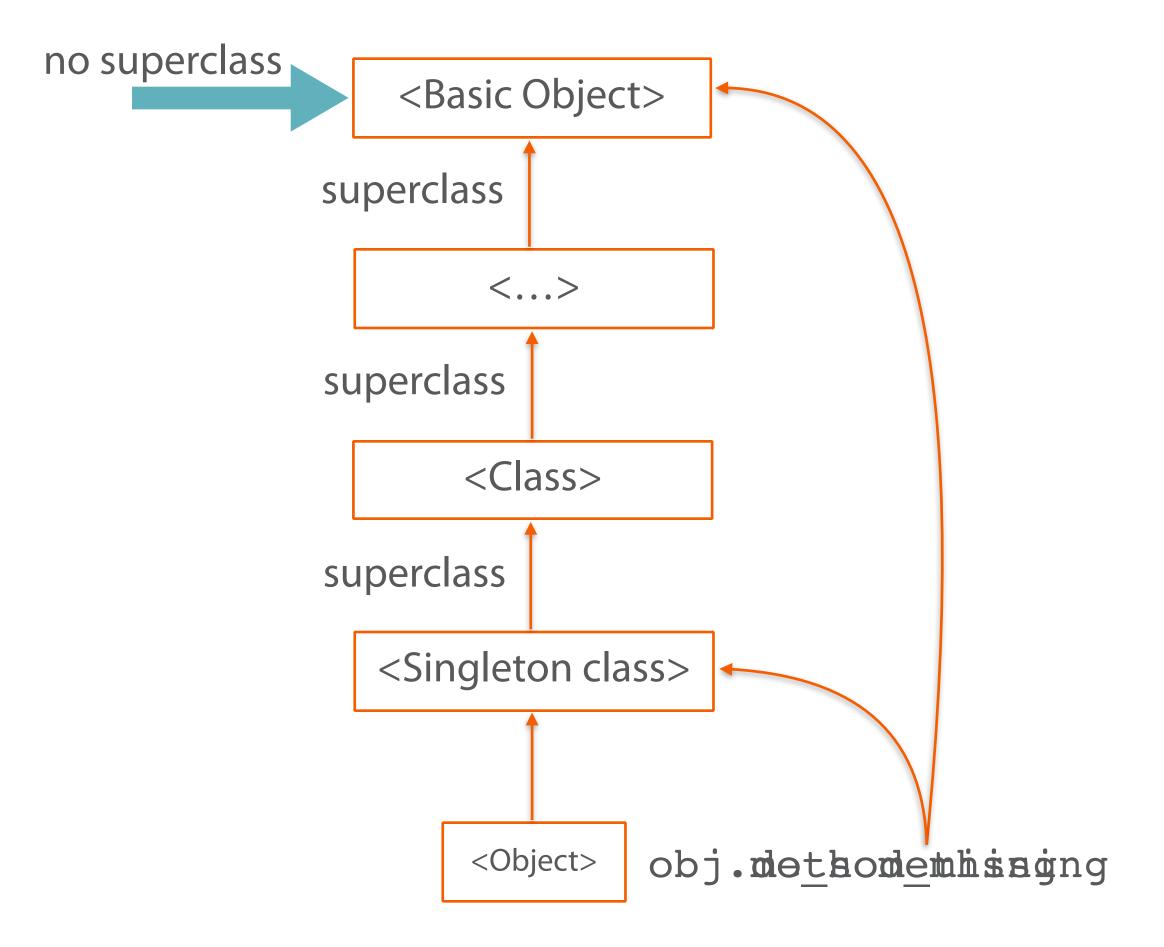


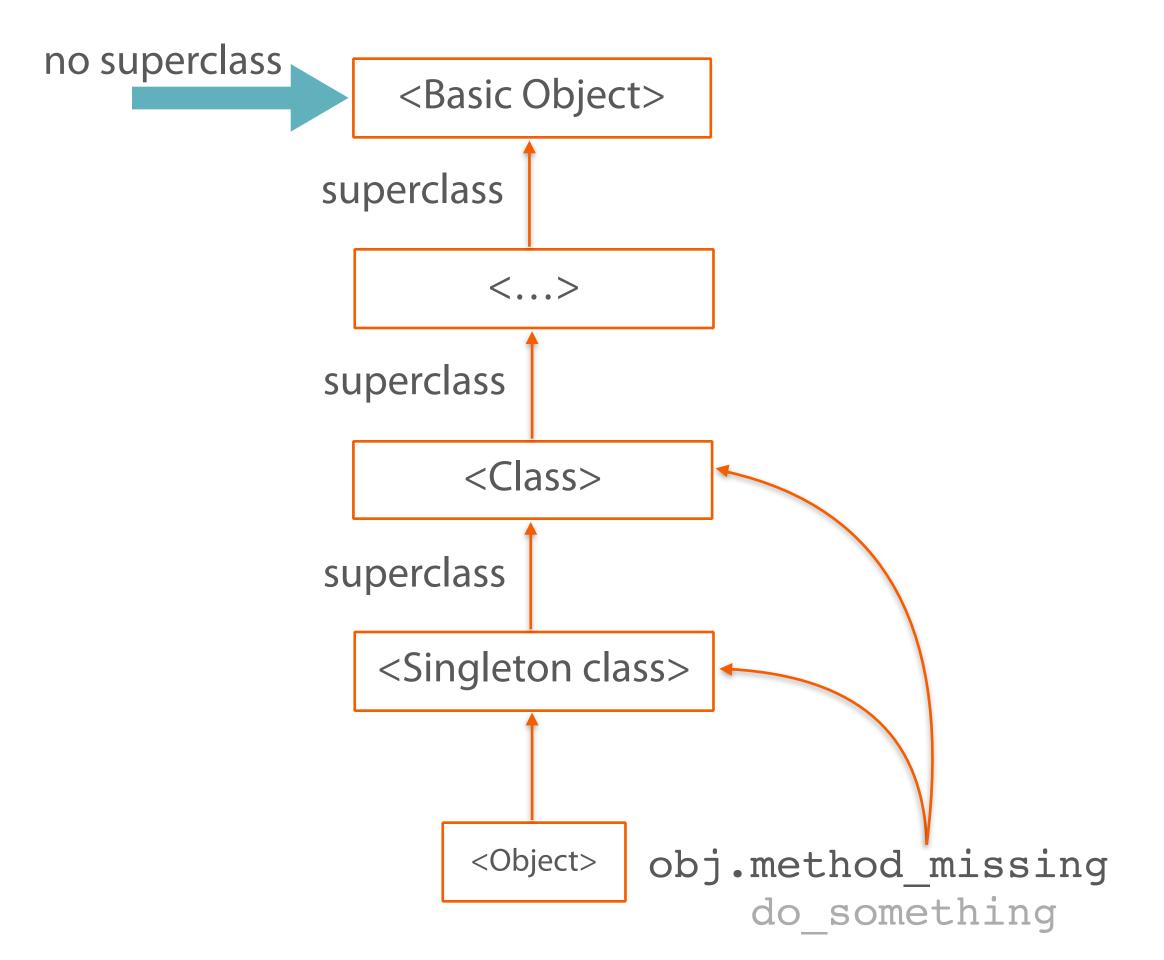


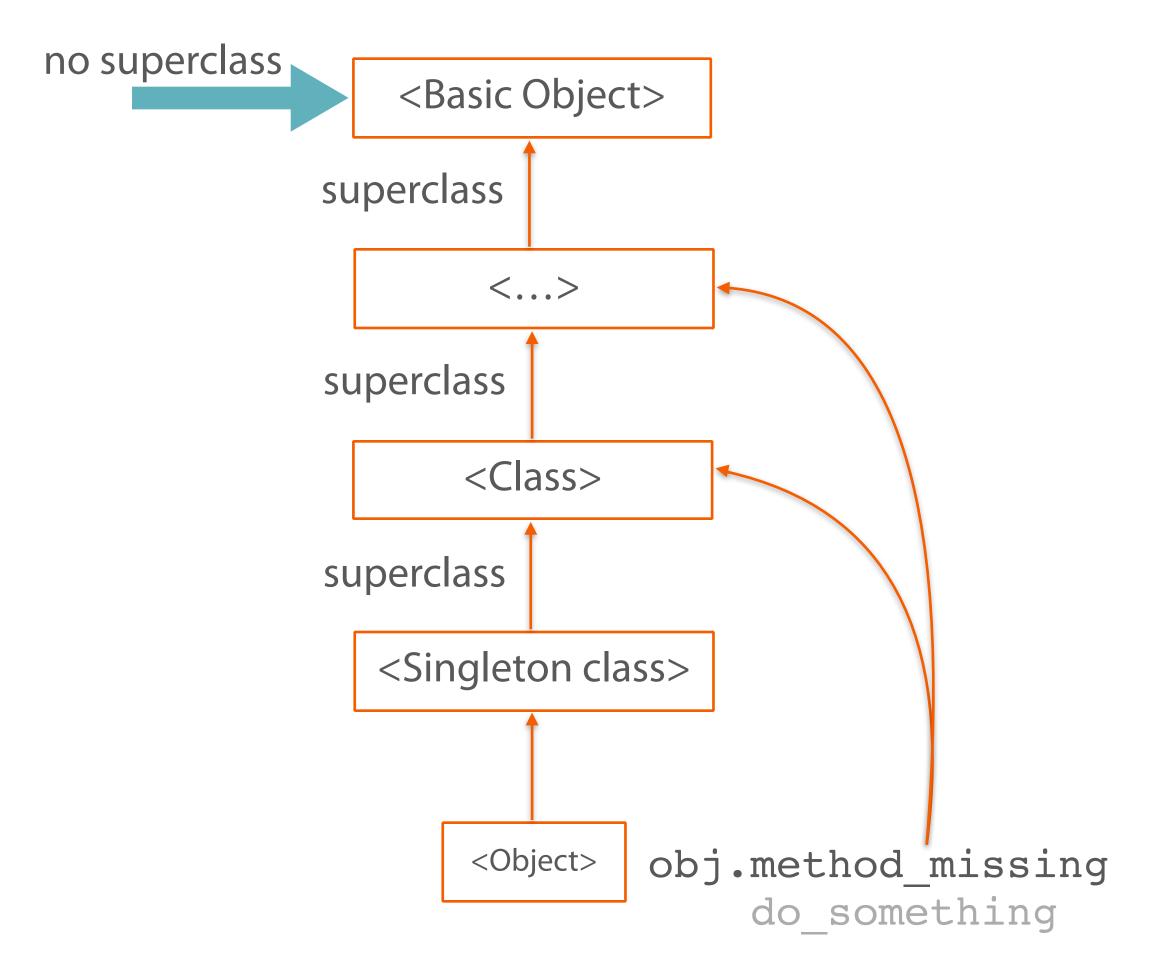


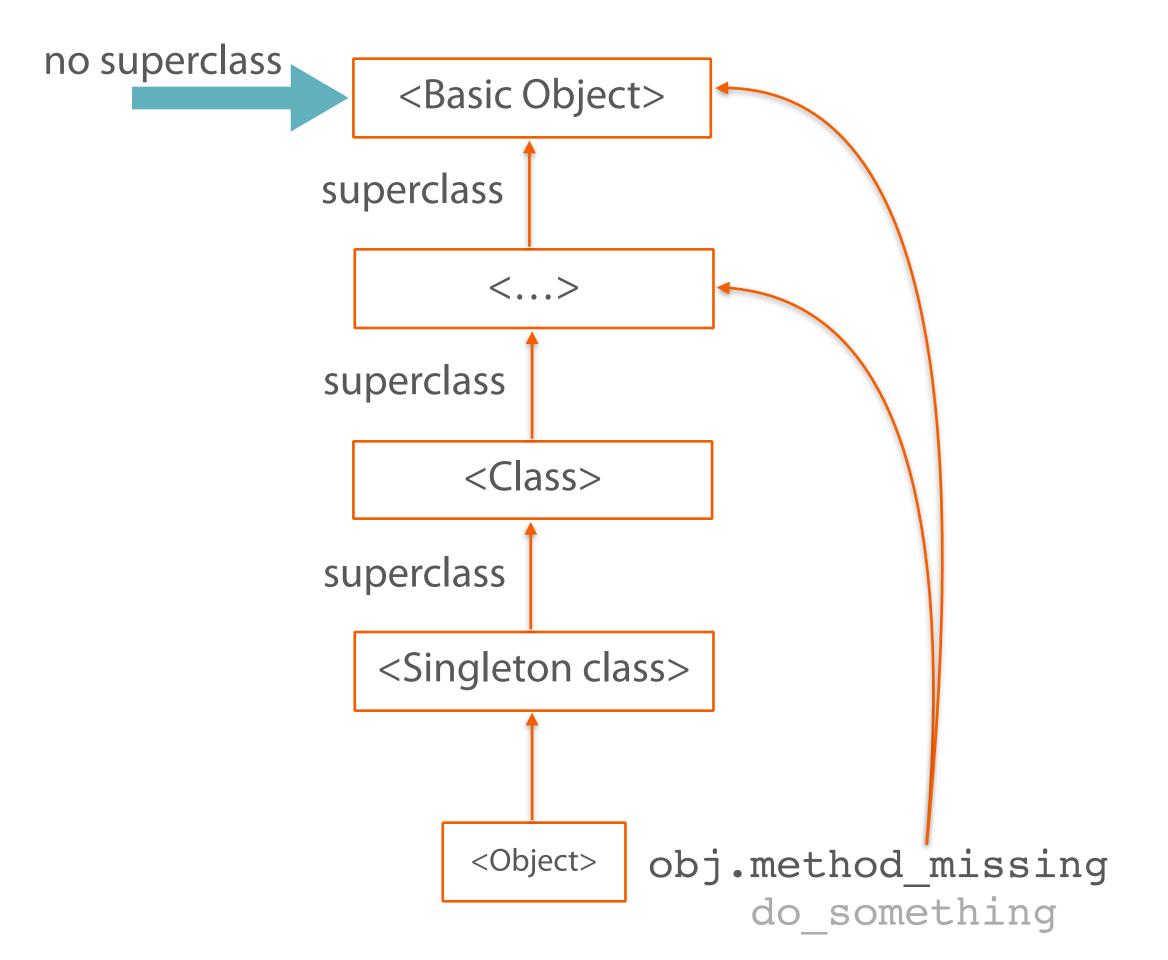


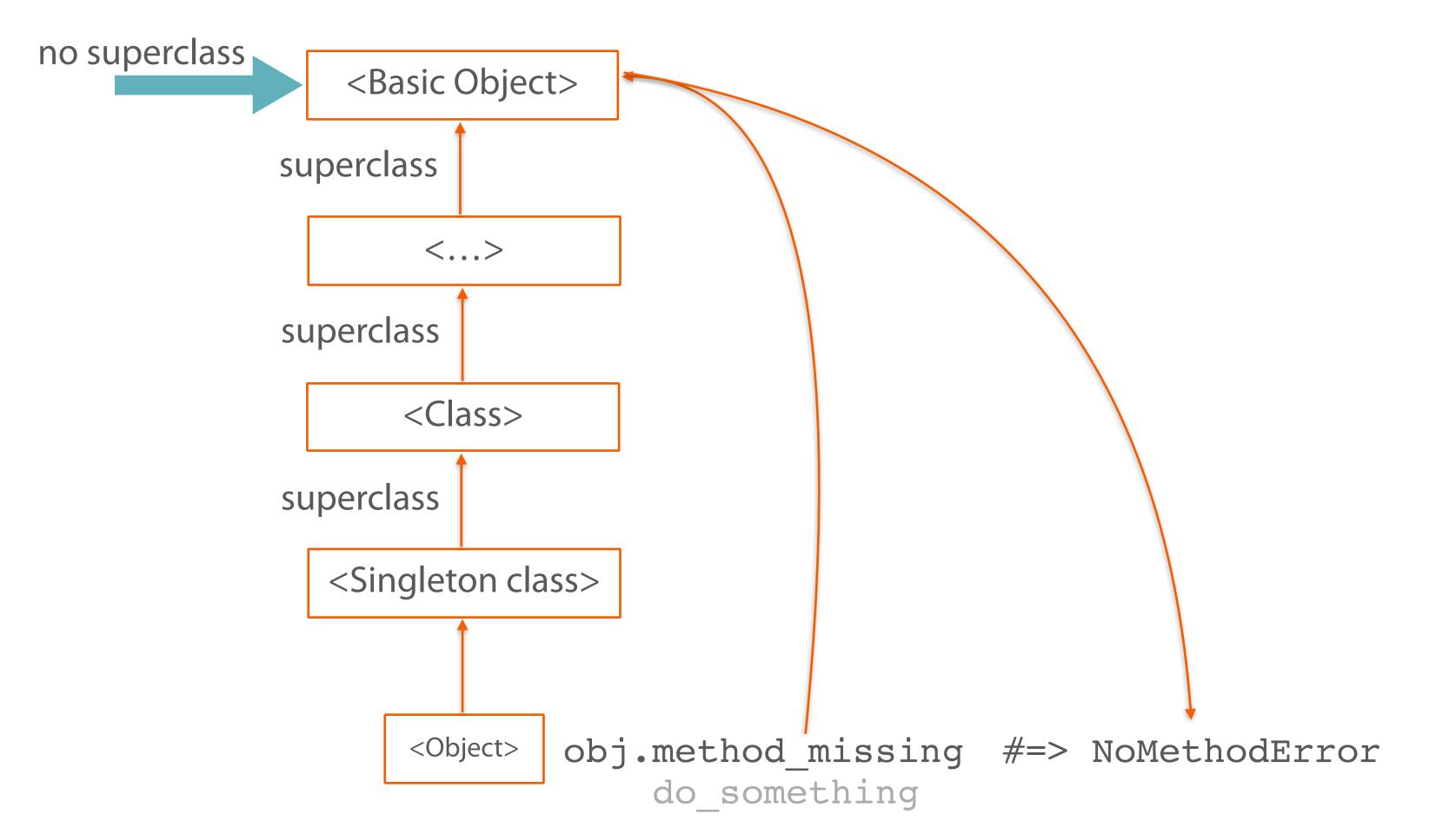


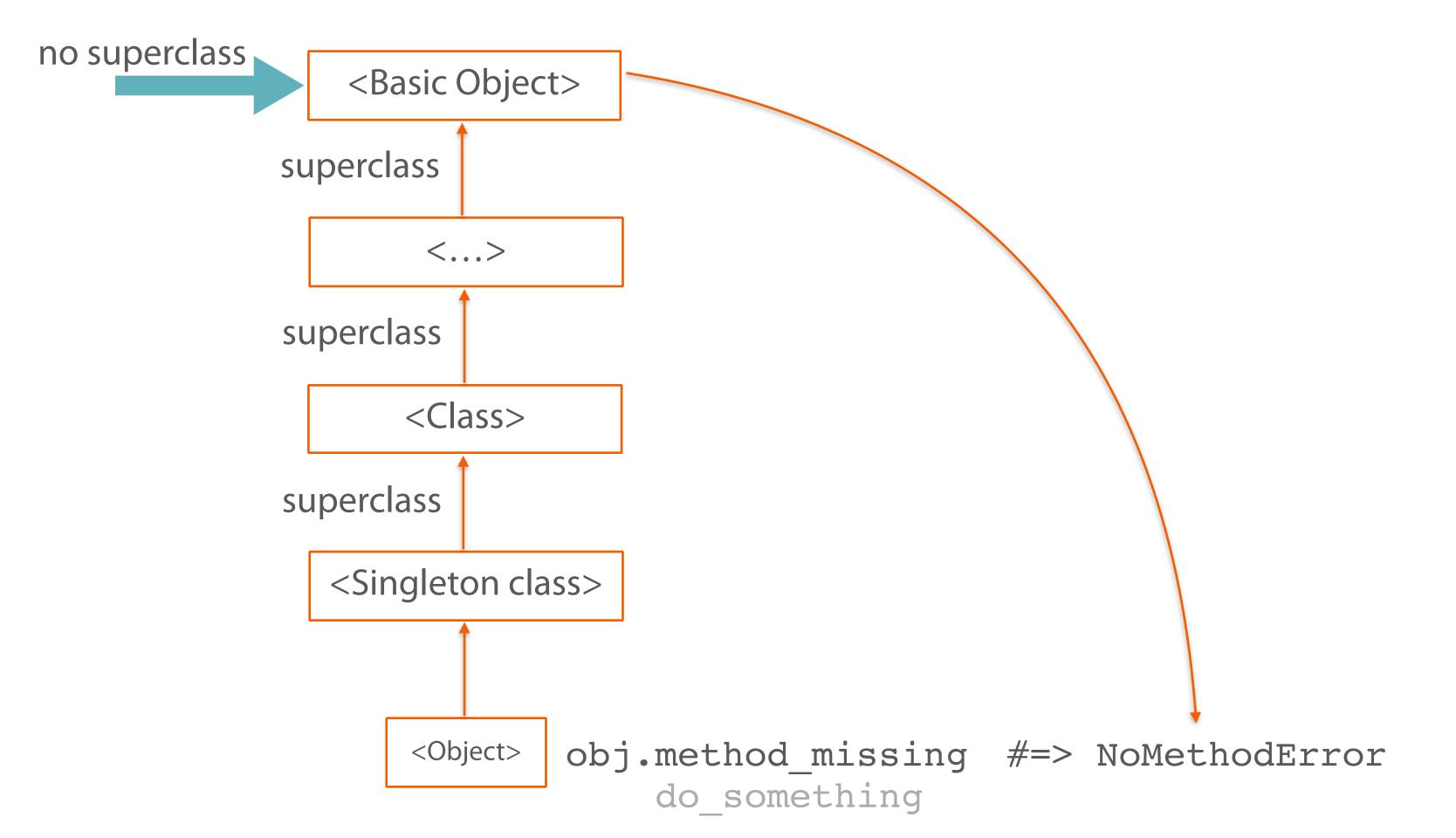












method_missing(name, *args, &block)

method_missing(name, *args, &block)

some_method(a, b, c) ---- some_method([a, b, c])