

```
# A method is just a function attached to an object.
        #'In other words a property is a type of variable like a method is a type of function.
        cat = {}
       cat.meow = ->
           print("mewwww!")
        cat.meow() ** # Methods are called just like functions, because they are functions. ** "mewwww!"
        meow()
                  # ERROR. There is no meow function out in the open, only on the cat object. meow by itself refers to nothing!
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```

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# Methods can have parameters that accept arguments, just like normal functions.
cat = {}
cat.eat = (food) ->
   print("I pooped " + food) # (For a refresh on how + behaves with strings see 01a-variables.pdf, P6)
cat.eat("kibbles") # "I pooped kibbles"
```

```
# Methods are special in one way though, they can refer to the object they belong to using the keyword 'this'.
#'In a method 'this' refers to the object the method is attached to.
player = {health:100,name:"Bob"}
player.explode = ->
   this.health = 0
   print(this.name + " is dead!")
print(player.health)
                     # 100
player.explode() =
                     # "Bob is dead!"
print(player.health)
                     # 0
```

```
# Another example.
cat = {name:"Mittens"}
cat.meow = ->
   print(this.name + " wants pets")
cat.meow()
                # "Mittens wants pets"
cat.name = "Biff" - # Change the value of the name property
                # "Biff wants pets"
cat.meow()
```

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# For comparison, note how the function below accesses and modifies a variable out in the open.
points = 0
catchSnitch = ->
   points = points + 150
print(points)
                # 0
catchSnitch()
print(points)
                # 150
```

```
# Here's an example using a Layer.
box = new Layer()
box.scoot = -> this.x = this.x + 20
box.onMouseDown(box.scoot) --- -- # Click the box to scoot it 20pt to the right from wherever it is.
```

```
# In CoffeeScript we can substitute the @ symbol for 'this.'
# Note that @ takes the place of this AND the dot afterwards.
box = new Layer()
box.scoot = '-> '@x '+= '20' - #'For a refresher on '+=' see 01a-variables, P13
box.onMouseDown(box.scoot)
```

```
# You can define a method when using CoffeeScript's Object Literal shorthand.
# You can call a method using CoffeeScript's function call shorthand.
name:"mittens" = # ....a new object, beginning with its first property:value pair
              # another property:value pair
  age:10 - - -
  eat:(food)->
             " # method declaration
     print "I pooped " + food # method body
              #'If'we'call'a method with an argument, we can omit the parenthesis just like with normal functions.
print cat.name
print cat.age
cat.eat "kibbles"
```