Class Class < Module

Classes in Ruby are first-class objects-each is an instance of class Class.

When a new class is defined (typically using class *Name*... end), an object of type Class is created and assigned to a constant (*Name*, in this case). When Name.new is called to create a new object, the new instance method in Class is run by default, which in turn invokes allocate to allocate memory for the object, before finally calling the new object's initialize method.

Class methods

inherite	cls.inherited(sub_c	
	Invoked by Ruby when a subclass of <i>cls</i> is created. The new seter.	subclass is passed as a param-
	<pre>class Top def self.inherited(sub) puts "New subclass: #{sub}" end end class Middle < Top end class Bottom < Middle end</pre>	
	produces:	
	New subclass: Middle New subclass: Bottom	

new

Class.new(super_class=Object) $\langle \{ block \} \rangle \rightarrow cls$

Creates a new anonymous (unnamed) class with the given superclass (or Object if no parameter is given). If called with a block, that block is used as the body of the class. Within the block, self is set to the class instance.

```
name = "Dave"
FriendlyClass = Class.new do
    define_method :hello do
        "Hello, #{name}"
    end
end
f = FriendlyClass.new
f.hello # => "Hello, Dave"
```

Instance methods

allocate	cls.allocate $\rightarrow obj$
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Allocates space for a new object of *cls*'s class. The returned object must be an instance of *cls*. Calling new is basically the same as calling the class method allocate to create an object, followed by calling initialize on that new object. You cannot override allocate in normal programs; Ruby invokes it without going through conventional method dispatch.

```
class MyClass
  def self.another_new(*args)
    o = allocate
    o.send(:initialize, *args)
    o
    end
  def initialize(a, b, c)
    @a, @b, @c = a, b, c
    end
end
mc = MyClass.another_new(4, 5, 6)
mc.inspect # => "#<MyClass:0x0a34f8 @a=4, @b=5, @c=6>"
```

new

 $cls.new(\langle args \rangle^*) \rightarrow obj$

Calls allocate to create a new object of *cls*'s class and then invokes the newly created object's initialize method, passing it *args*.

superclass

 $cls.superclass \rightarrow super_class$ or nil

Returns the superclass of *cls* or returns nil.

Class.superclass # => Module Object.superclass # => BasicObject