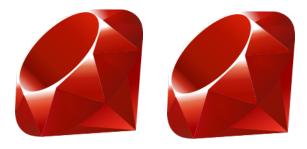
EXPERTISE APPLIED.



### **Access Control**

### **Access Control**

- When designing your class important to think about how much of it you will be exposing to the world
- Encapsulation try to hide the internal representation of the object. This way if you decide to change it later on – you can.
- 3 levels: public, protected and private

# **Access Control (Continued)**

- public methods no access control is enforced. Anybody can call these methods.
  - Default (except initialize which is private)
- protected methods can be invoked by the objects of the defining class or its subclasses
- private methods cannot be invoked with an explicit receiver
  - Cannot invoke another object's private methods

# Specifying access control

- 2 ways to specify access control:
  - 1. Specify public, protected or private
    - Everything until the next access control keyword will be of that access control level
  - 2. Define the methods regularly and then specify public, private, protected access levels and list the comma-separated methods under those levels using method symbols

# **Access Control example**

```
class MyAlgorithm
 private
    def test1
      "Private"
    end
 protected
    def test2
      "Protected"
    end
 public
    def public again
      "Public"
    end
end
class Another
  def test1
    "Private, as declared later on"
  end
 private :test1
end
```

(Unlike Java) private access control does NOT allow you to invoke a method from a different instance of the same class