Ruby Unit Tests CSCI400

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Color Key

- Clickable URL link
- Write down an answer to this for class participation
- Just a comment don't confuse with yellow

Process

- Create your class with failing mathods
- 2 Create a test class. Must:
 - require 'minitest/autorun
 - Extend MiniTest::Test
- 3 Create one or more test methods
 - Start name with test (e.g. test_conversion)
- 4 If separate file, must require the class being tested
 - require_relative "Converter"
 - require "./Converter"
- 5 Run test program from the terminal
 - All methods beginning with test will be executed

Create a Class – Failing Test

```
class Converter
  def feetToMeters(feet)
     return 1
  end
end
```

Unit Test

```
requre 'minitest/autorun'
class ConverterTest < MiniTest::Test</pre>
    @@EPSILON = 0.0001
    def test feetToMeters
        converter = Converter.new
        assert in delta(3.048,
            converter.feetToMeters(10), @@EPSILON)
        assert in delta(0.3048,
            converter.feetToMeters(1), @@EPSILON)
        assert in delta(0.4572,
            converter.feetToMeters(1.5), @@EPSILON)
    end
end
```

Ruby Unit Tests

Can use assert_equal for int

Create a Class – Passing Test

```
class Converter
    @@FEET_TO_METERS = 0.3048
    def feetToMeters(feet)
        return feet * @@FEET_TO_METERS
    end
end
```

Prior Versions of Ruby

- Prior to Ruby 2
 - require 'test/unit'
 - class <ClassName> < Test::Unit::TestCase</pre>

In case you ever run into old examples