

Tim Wingfield



Central OH Wendy Boys Kona Hockey

local/regional speaker

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Thursday, July 22, 2010
expressive
focus on testing
rails





expressive focus on testing rails





expressive focus on testing rails





expressive focus on testing rails







Why IronRuby?



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Why IronRuby?



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What is?





1.8.6



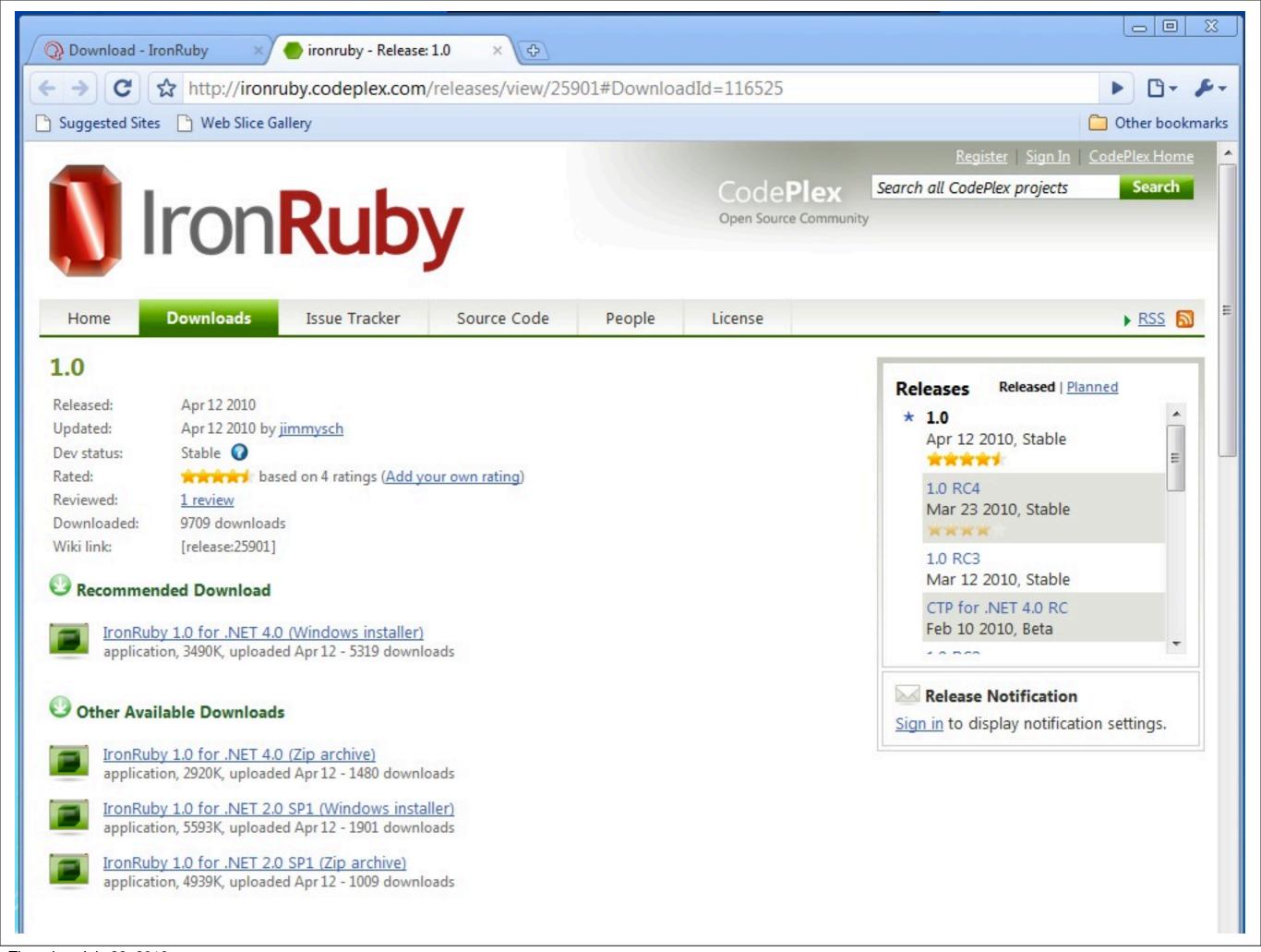
Dynamic Language Runtime



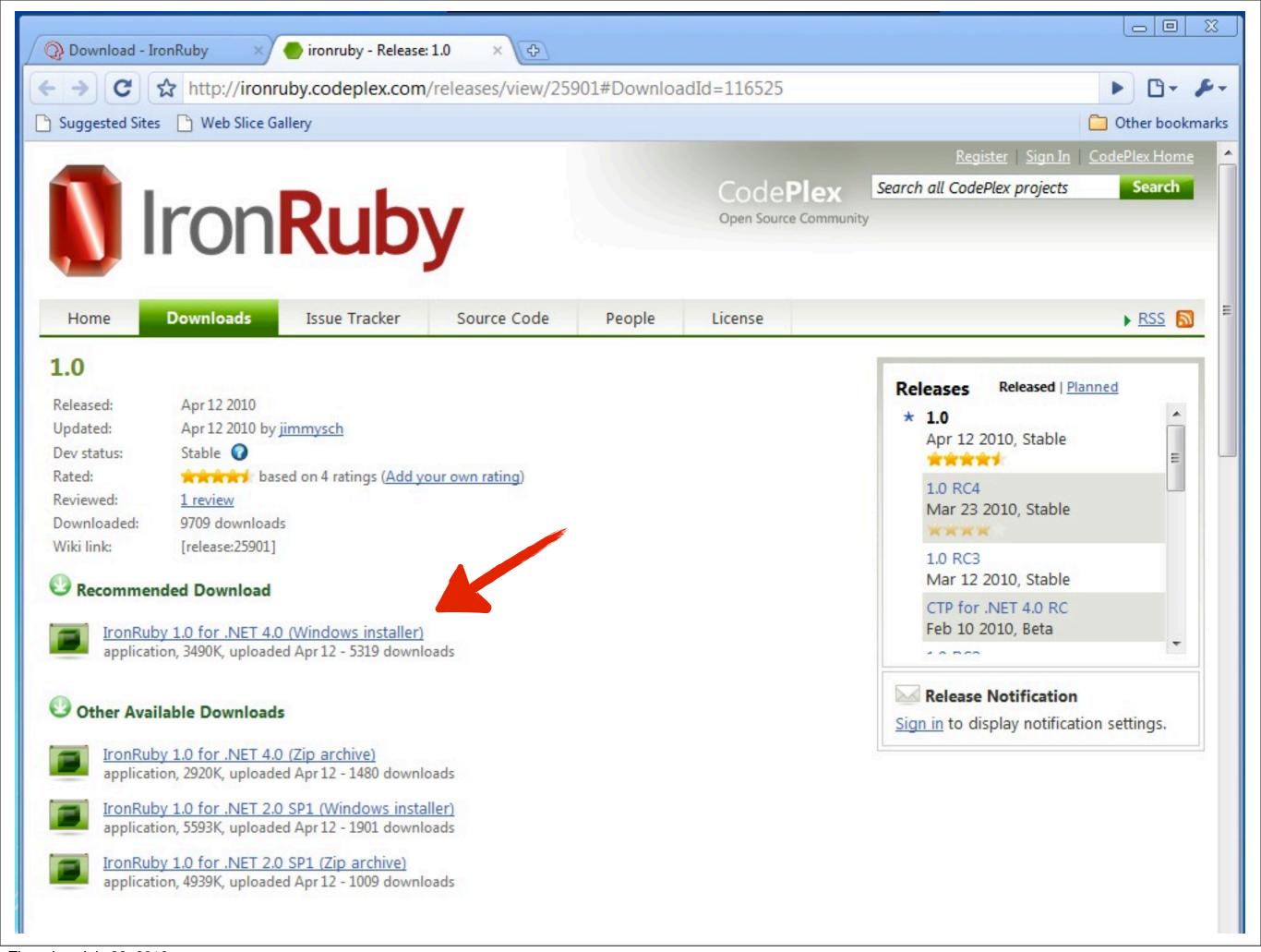
Common Language Runtime

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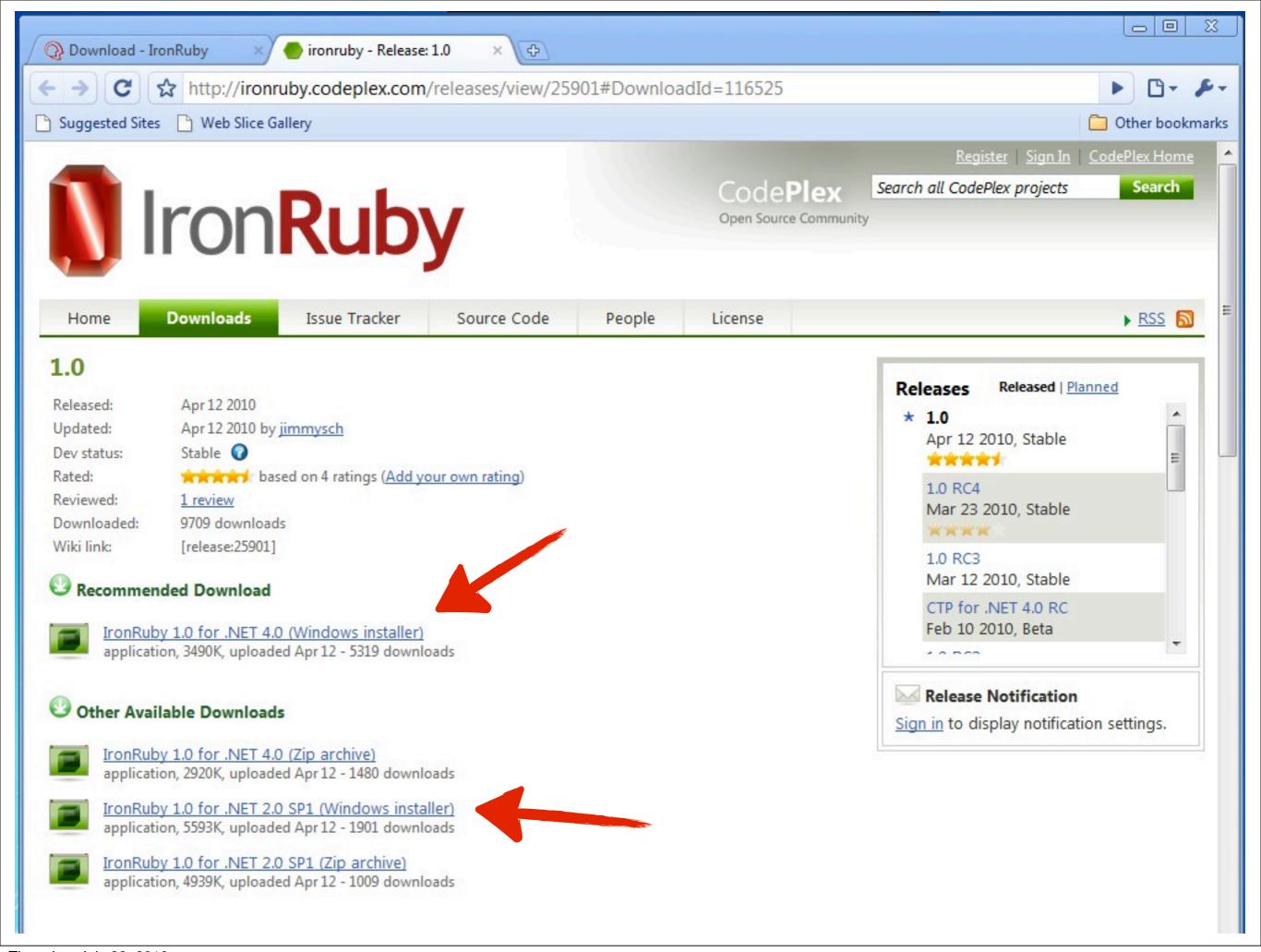
other DLR languages IronPython F#



start: IronRuby.net



start: IronRuby.net



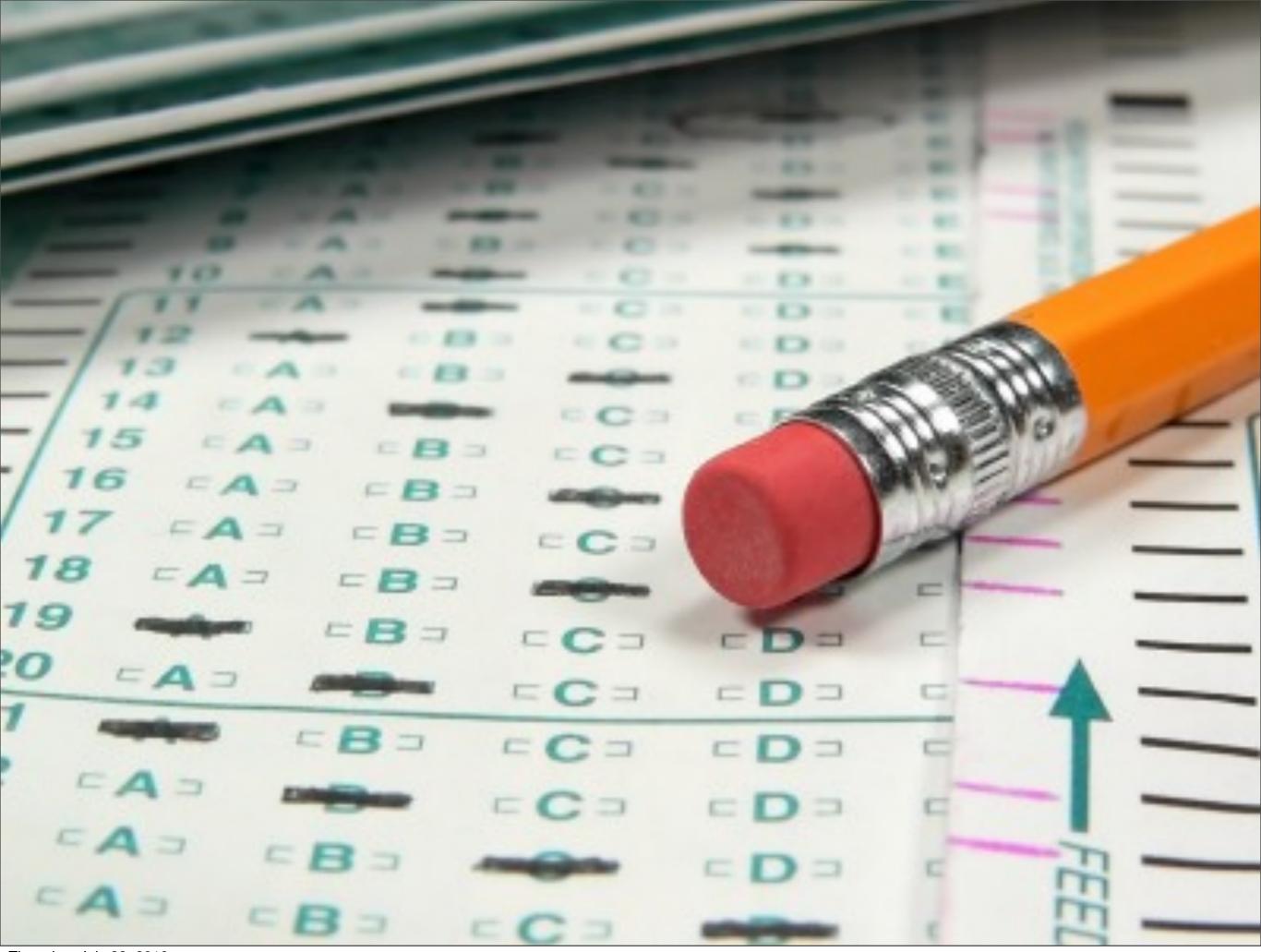
start: IronRuby.net



prepend an i => igem, iirb, ir instead of ruby
performance not awesome
rails/sinatra need rack for IIS
C extensions (bson in mongo)
no need to get to the CLR, don't use it



first bit of code loading datetime loading monopoly object monkey patch something



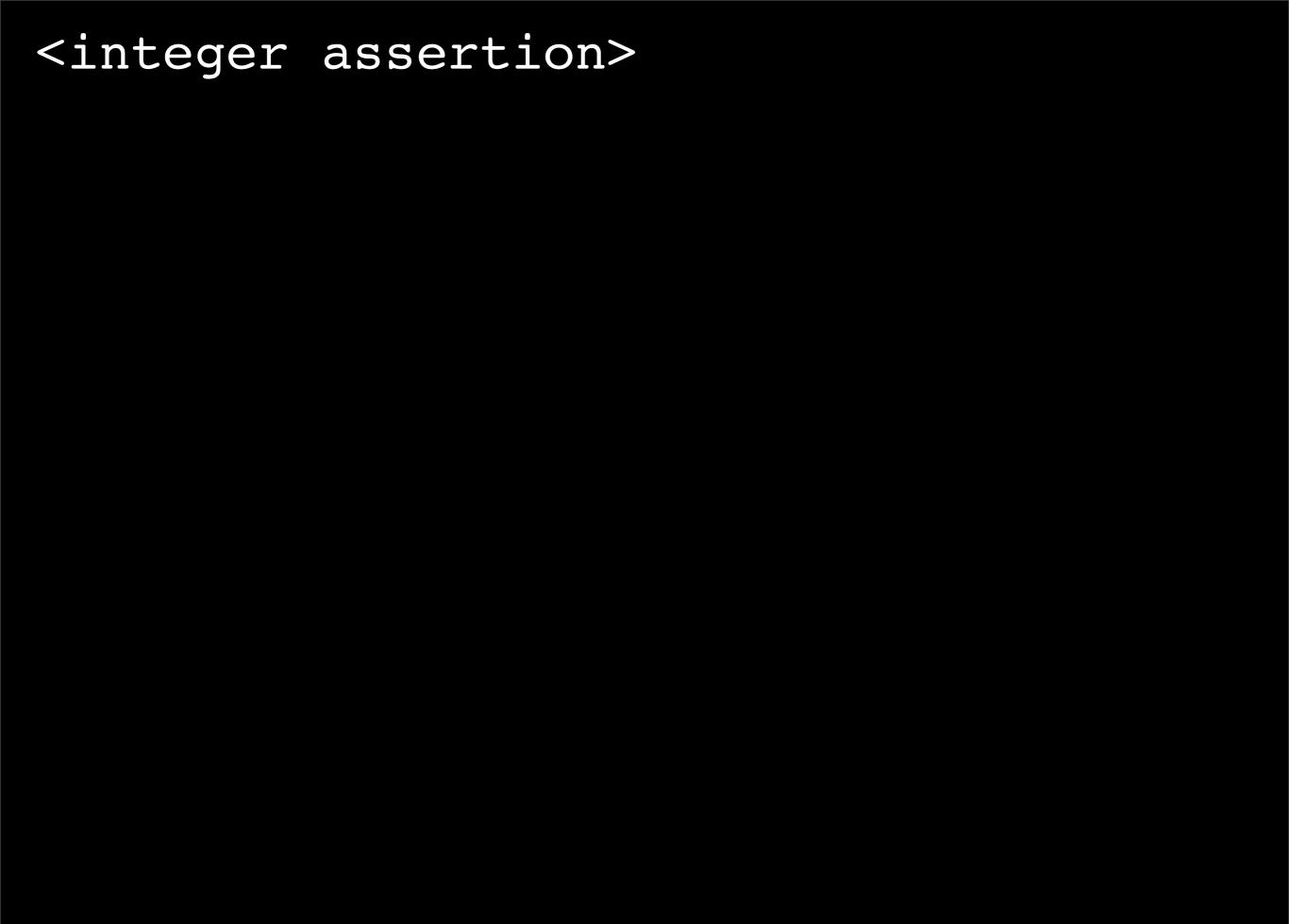
essence v. ceremony (neal ford)
Raiders of the Lost Ark
zero based arrays?
c#/kpl example w/Brendan



```
public class When_verifying_the_nunit_environment
  Player p;
  [SetUp]
  public void Because()
    p = new Player();
  [Test]
  public void then_the_player_should_not_be_null()
    Assert.That(p, Is.Not.Null);
```

```
describe 'when verifying the environment' do
before :each do
@p = Player.new
end
```

```
it 'should create a CLR object from the Monopoly project' do @p.should_not be_nil end end
```



<integer assertion>

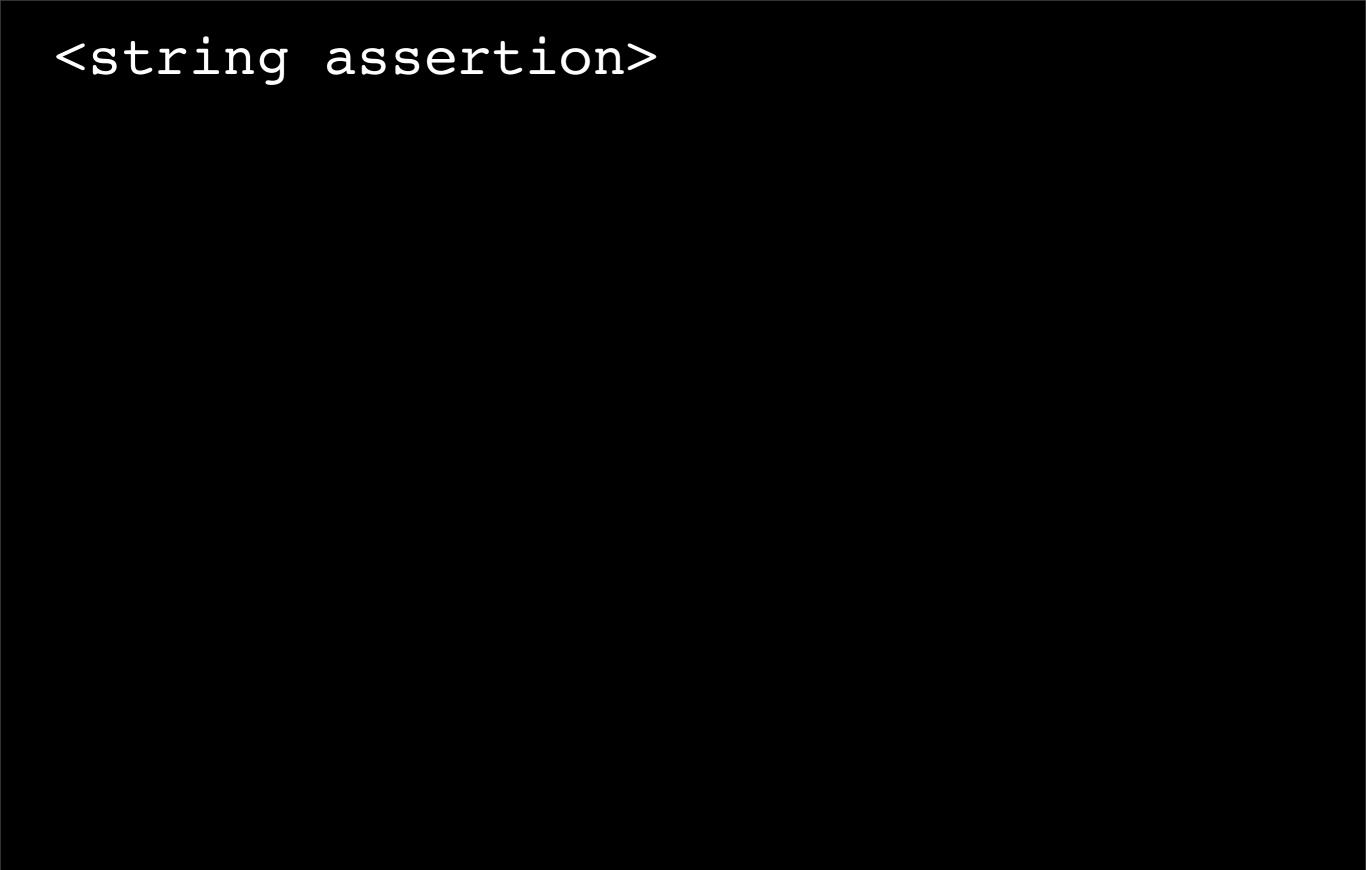
Assert.That(_player.AccountBalance, ls.EqualTo(125));

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<integer assertion>

Assert.That(_player.AccountBalance, ls.EqualTo(125));

@player.account_balance.should be(125)





Assert.That(_message, Is.EqualTo("Payment successful"));

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<string assertion>

Assert.That(_message, Is.EqualTo("Payment successful"));

@message.should == "Payment successful"



```
public class MockRepository: IBankRepository
  public bool PutMoneyInTheBankWasCalled { get; set; }
  public void PutMoneyInTheBank(int amount)
    this.PutMoneyInTheBankWasCalled = true;
  public bool TakeMoneyFromTheBank(int amount)
    return amount < 500;
  public int CheckFundsAvailable()
    throw new NotImplementedException();
```

class MockRepository include Monopoly::IBankRepository attr_accessor :put_money_in_the_bank_was_called def take_money_from_the_bank(amount) amount < 500</pre>

```
def put_money_in_the_bank(amount)
    @put_money_in_the_bank_was_called = true
end
end
```

end

```
private Player _player;
private BankerService _service;
private MockRepository _repo;

[SetUp]
public void before_each()
{
    __player = new Player { AccountBalance = 875 };
    _repo = new MockRepository();
    __service = new BankerService(_repo);
}
```

before :each do

- @player = Player.new
- @player.account_balance = 875
- @repo = MockRepository.new
- @service = BankerService.new @repoend

<mocks v2>

```
private Player _player;
private BankerService _service;
private Mock<IBankRepository> _mock;
[SetUp]
public void before_each()
   _player = new Player { AccountBalance = 875 };
   mock = new Mock<IBankRepository>();
   _mock.Setup(m => m.TakeMoneyFromTheBank(550)).Returns(<mark>false</mark>);
   _mock.Setup(m => m.TakeMoneyFromTheBank(<mark>lt</mark>.IsAny<<mark>int</mark>>()))
           .Returns(true);
   _service = new BankerService(_mock.Object);
```

```
before :each do

@player = Player.new
@player.account_balance = 875

@isolation = Isolation.for IBankRepository
@isolation.when_receiving(:take_money_from_the_bank).return(true)
@isolation.when_receiving(:take_money_from_the_bank)
.with(550).return(false)

@service = BankerService.new @isolation
end
```



<mock verification>

_mock.Verify(m => m.PutMoneyInTheBank(It.IsAny<int>()), Times.AtLeastOnce());

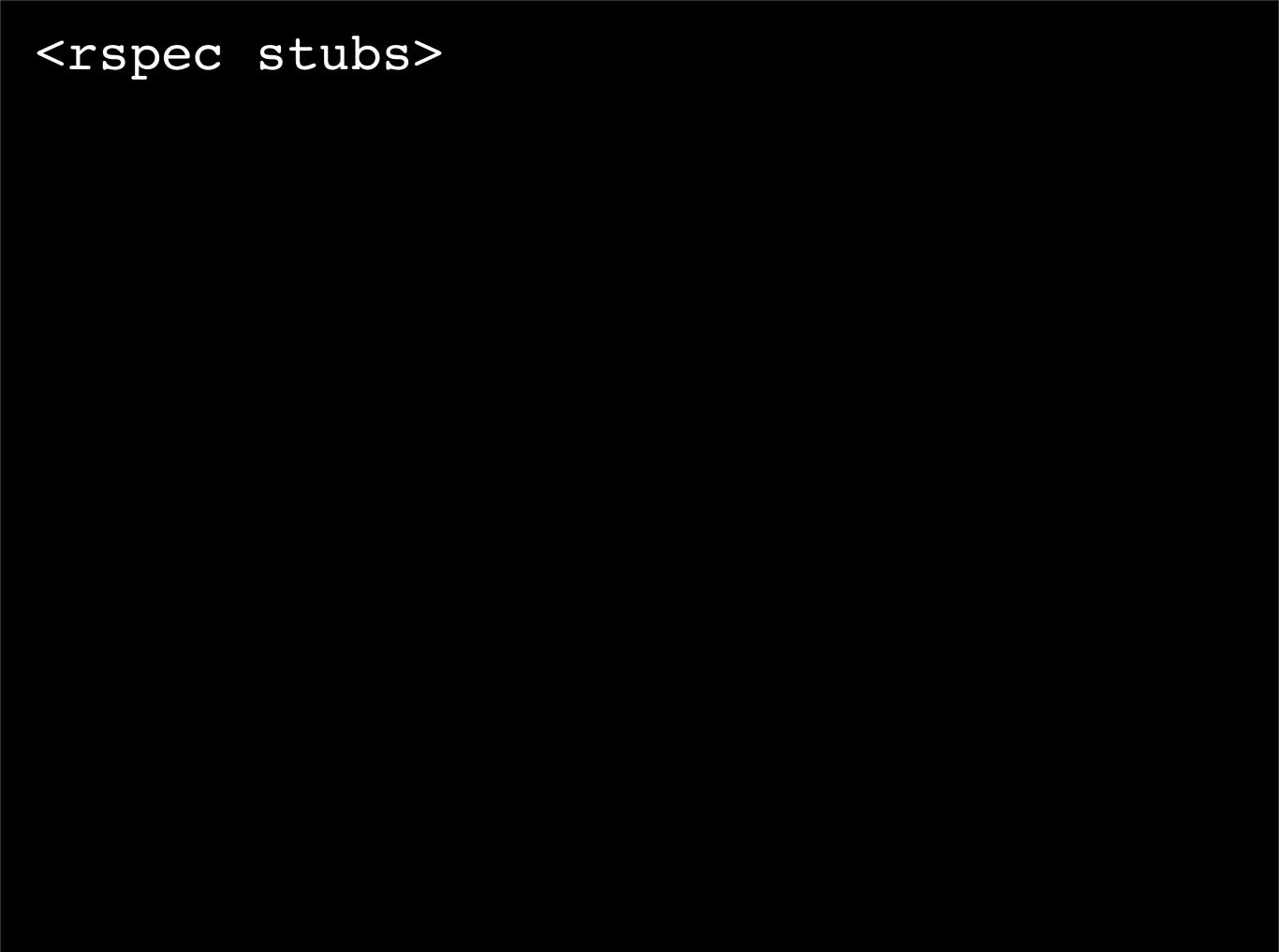
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<mock verification>

_mock.Verify(m => m.PutMoneyInTheBank(It.IsAny<int>()),
Times.AtLeastOnce());

@isolation.did_receive?(:put_money_in_the_bank).with(50)

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rspec stub

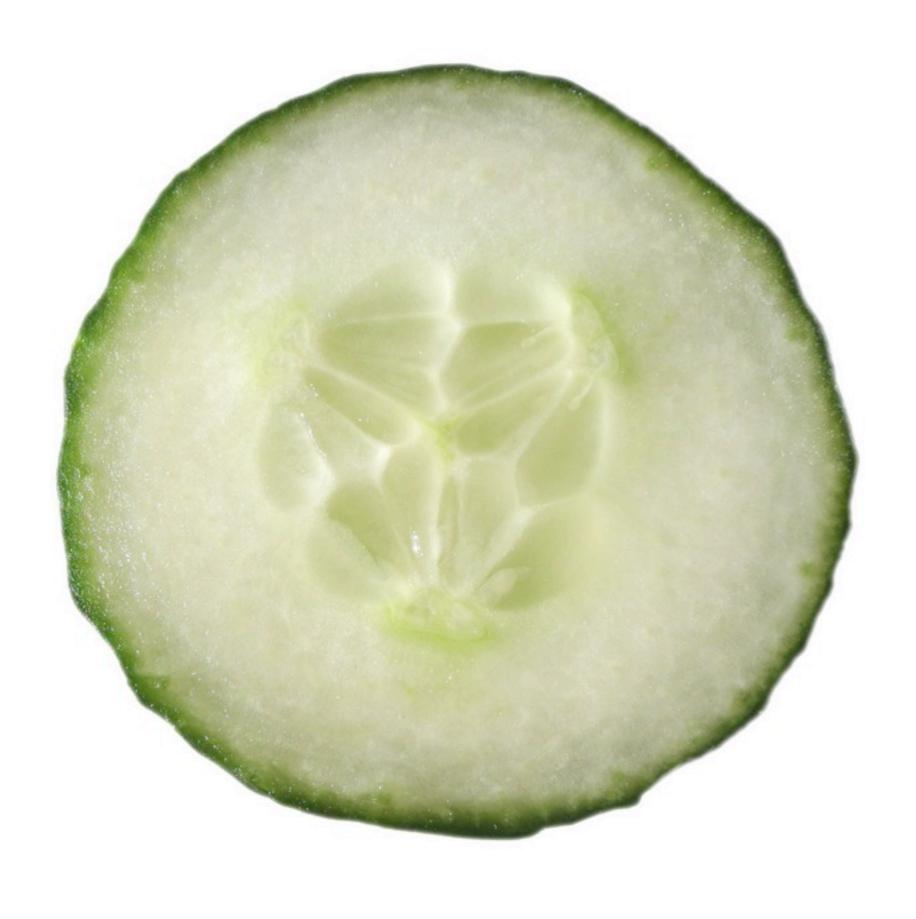
<rspec stubs>

class StubbedRepo include Monopoly::IPropertyRepository end

```
<rspec stubs>
```

class StubbedRepo include Monopoly::IPropertyRepository end

@repo = StubbedRepo.new
@repo.stub!(:get_all_properties).and_return(@all_properties)



use older version of Cucumber (0.6.4) not cuke for nuke







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github.com/timwingfield/TestingSeaPound