



Cucumbered

collaboration

discussion

customers

language

value

acceptance

Why are you here?

Why are you here?

In order ...

Why are you here?

In order ...

As a FutureRuby attendee

Why are you here?

In order ...

As a FutureRuby attendee

I want ...

Why are you here?

In order ...

As a FutureRuby attendee

I want ...

I'll show you a
good time



**What's your acceptance
criteria?**

Scenario: Ecstatic FutureRuby attendees

Given people turned up

When Joseph talks

Then everyone should *learn* something new

And no-one should fall asleep

And no cucumbers should be thrown

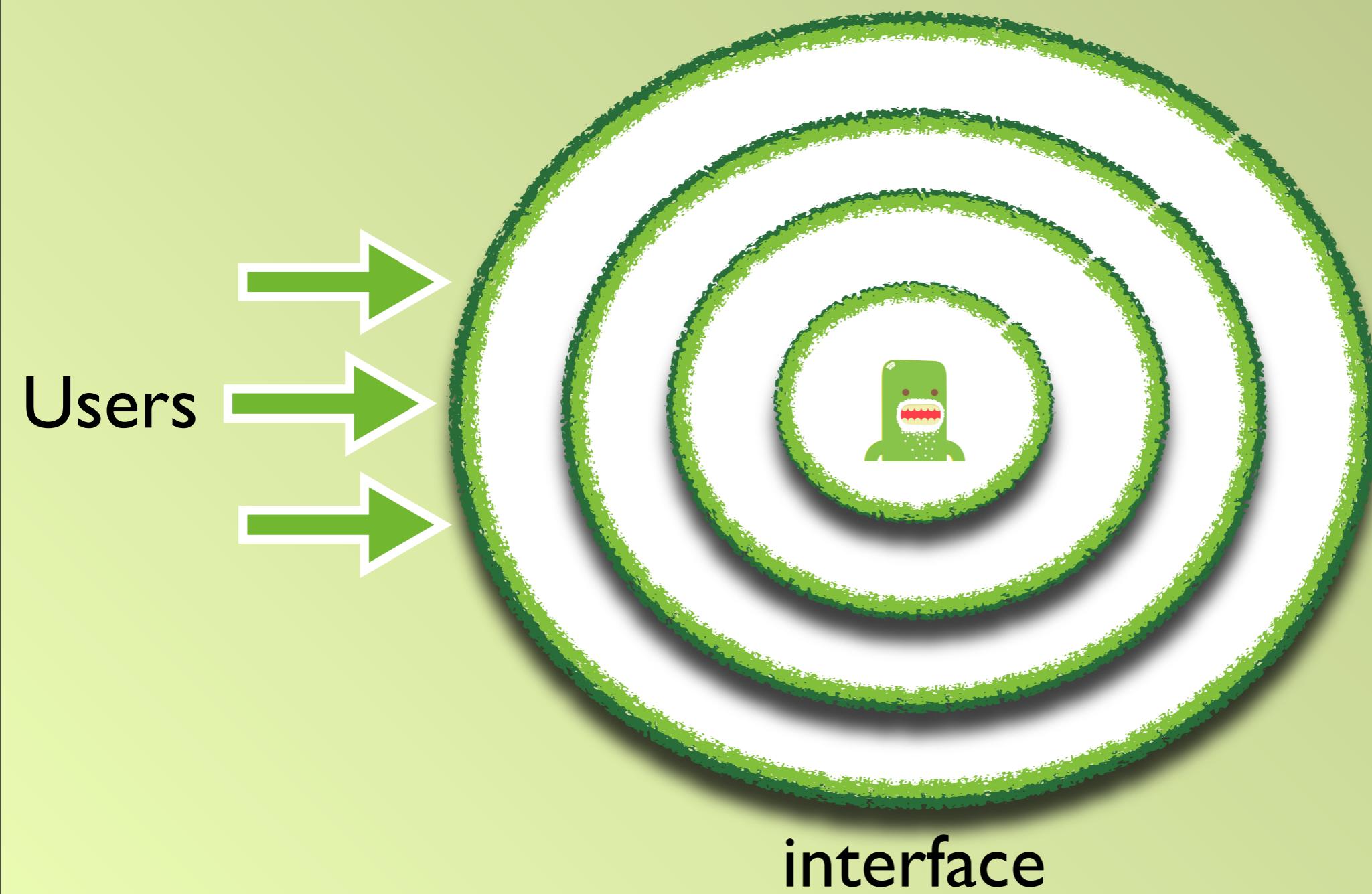
Pass

Fail

Pass

Fail

Outside-in



*“I believe that the hardest part of software projects, the most common source of **project failure**, is **communication** with the customers and users of that software.*

*By providing a **clear** yet **precise** language to deal with domains, a **DSL** can help **improve** this **communication**. ”*

Martin Fowler

```
def given_ruby_provides_a_great_dsl(*arg)
  developers.should be_happy
end
```

```
given_ruby_provides_a_great_dsl 'run away!'
```

```
def given_ruby_provides_a_great_dsl(*arg)
  developers.should be_happy
end
```

```
given_ruby_provides_a_great_dsl 'run away!'
```



Developer



わかりません

Underscores!

Why do I
quote things?

Why can
I not use ' \$

yo...



Customer



Developer



Tester



Customer



Developer



Cucumber



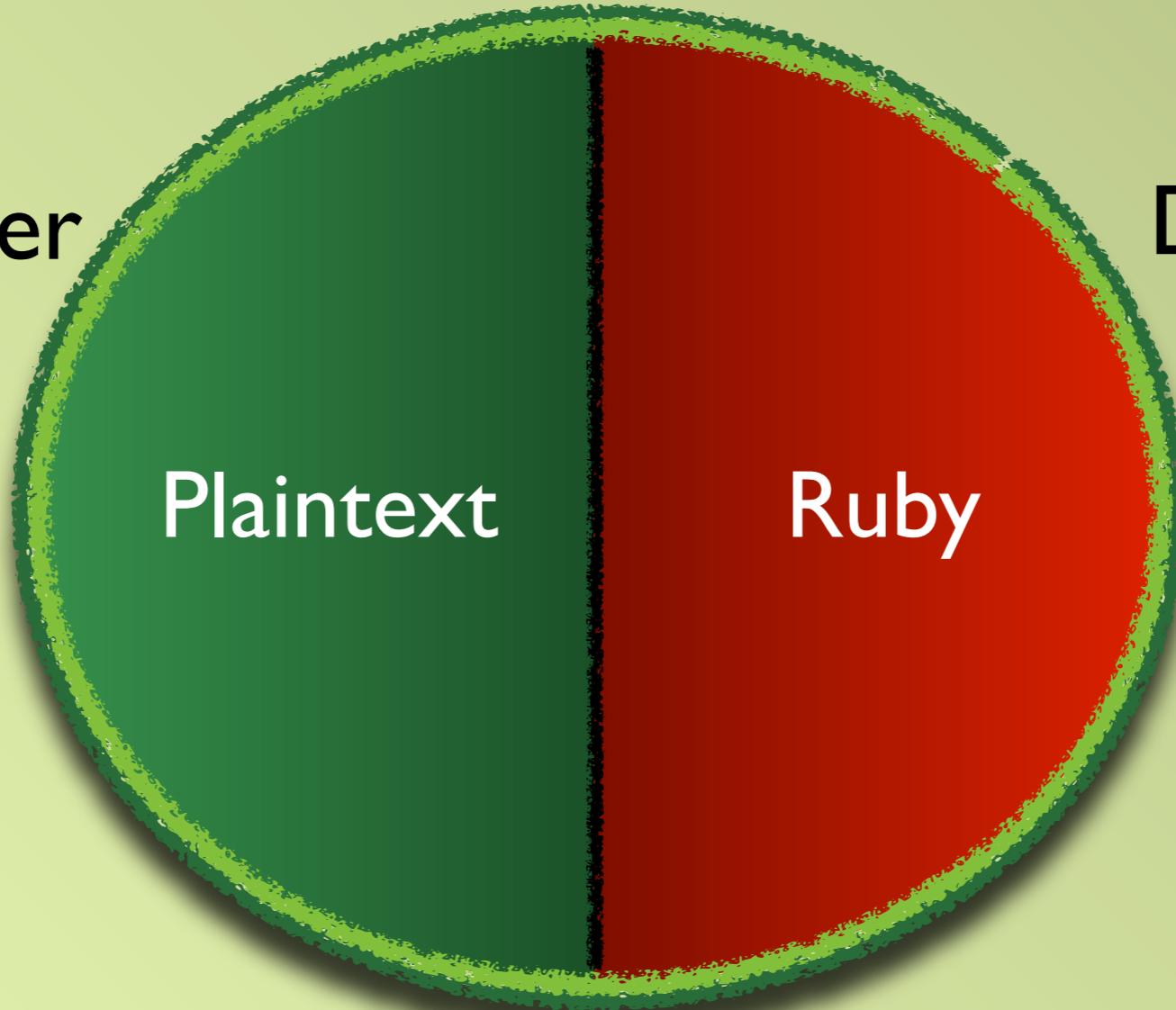
Tester



Customer



Developer



Tester

For Cuke Sake Why?

- Token Conversation
- Acceptance Criteria
- Design
- Documentation
- Functional test
- Integration test



Cucumber Feature

Example of behaviour

Steps

Feature: Be awesome
Narrative
Scenario: title
which rocks

Given <some context>
And <yet more context>
When <some action>
And <more actions>
Then <some outcome>
And <more outcomes>

Not
executed



Plaintext



Ruby



Plaintext

Step

Given we like cukes



Ruby



Plaintext

Step

Given we like cukes

Step definition

```
Given /we like (.*)$/i do |fruit|
  fruit.should == 'cukes'
  #assert_equal(fruit, 'cukes')
end
```

Ruby

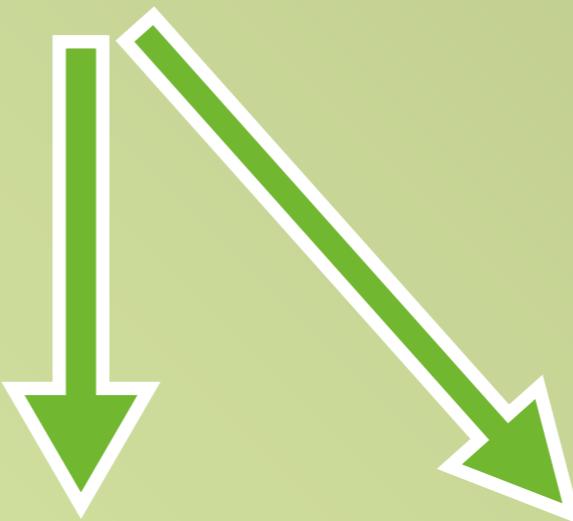




Plaintext

Step

Given we like cukes



regexp match

Step
definition

```
Given /we like (.*)$/i do |fruit|
  fruit.should == 'cukes'
  #assert_equal(fruit, 'cukes')
end
```

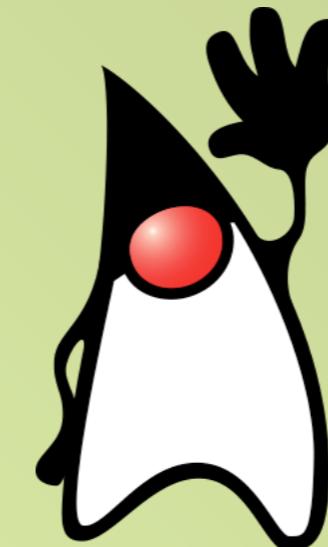
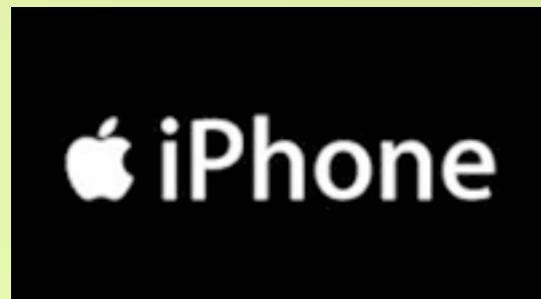
Ruby



Cucumber provides the venue



Sinatra



Cuke4Duke



Rails

Cucumber Gateway?



World
domination?



Cucumber

Java Virtual Machine



Clojure

Cucumber English

Cucumber English

огурец	Russian
concombre	French
キュウリ	Japanese
Okurkový	Czech
Gurke	German
Cucumber	English
pepino	Spanish
cetriolo	Italian
agurk	Danish
الخيار	Arabic
ketimun	Indonesian
מלפפון	Hebrew
Cogombre	Catalan
CUCUMBR	LOLCats
Agurk	Norwegian

огурец	Russian	오이	Korean
concombre	French	gurka	Swedish
キュウリ	Japanese	castravete	Romanian
Okurkový	Czech	ogórek	Polish
Gurke	German	Kurk	Estonian
Cucumber	English	dưa chuột	Vietnamese
pepino	Spanish	uhorka	Slovak
cetriolo	Italian	gurķis	Latvian
agurk	Danish	Agurkas	Lithuanian
الخيار	Arabic	Salátauborka	Hungarian
ketimun	Indonesian	Kurkku	Finnish
ملففون	Hebrew	Краставица	Bulgarian
Cogombre	Catalan	Pepino	Portuguese
CUCUMBR	LOLCats		
Agurk	Norwegian		

```
# language: en-lol
```

```
OH HAI: STUFFING
```

```
MISHUN: CUCUMBR
```

```
I CAN HAZ IN TEH BEGINNIN 3 CUCUMBRZ
```

```
WEN I EAT 2 CUCUMBRZ
```

```
DEN I HAS 2 CUCUMBERZ IN MAH BELLY
```

```
AN IN TEH END 1 CUCUMBRZ KTHXBAI
```

```
ICANHAZ /^IN TEH BEGINNIN (\d+) CUCUMBRZ$/ do |n|
```

```
  @basket = Basket.new(n.to_i)
```

```
end
```

```
WEN /^I EAT (\d+) CUCUMBRZ$/ do |n|
```

```
  @belly = Belly.new
```

```
  @belly.eat(@basket.take(n.to_i))
```

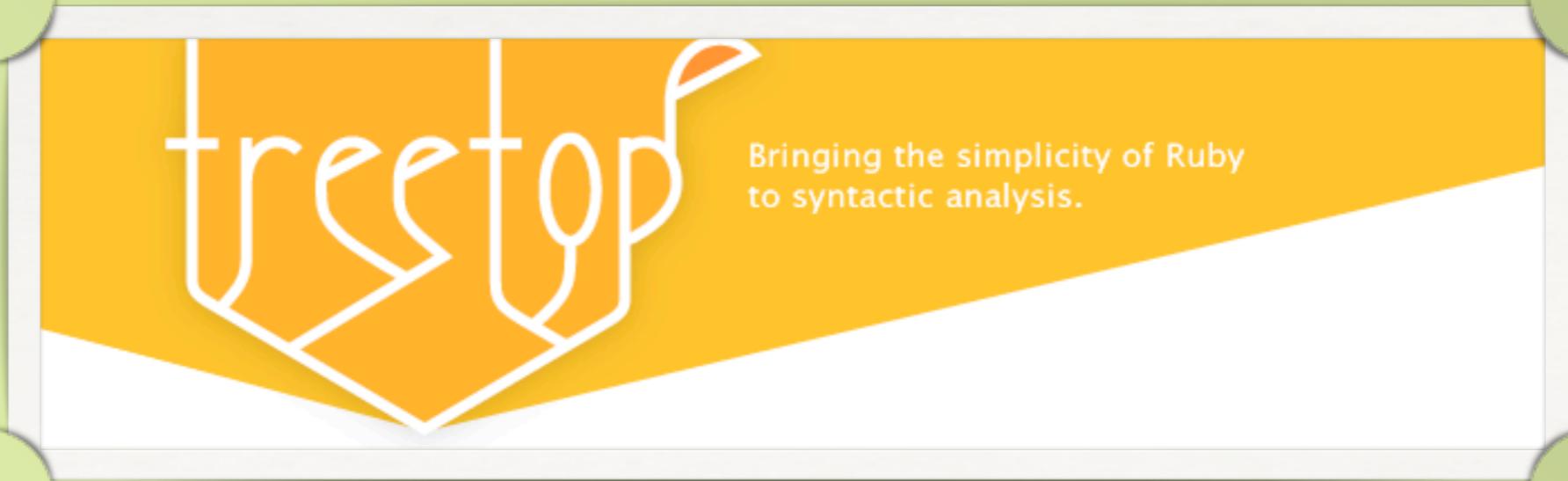
```
end
```

```
DEN /^I HAS (\d+) CUCUMBERZ IN MAH BELLY$/ do |n|
```

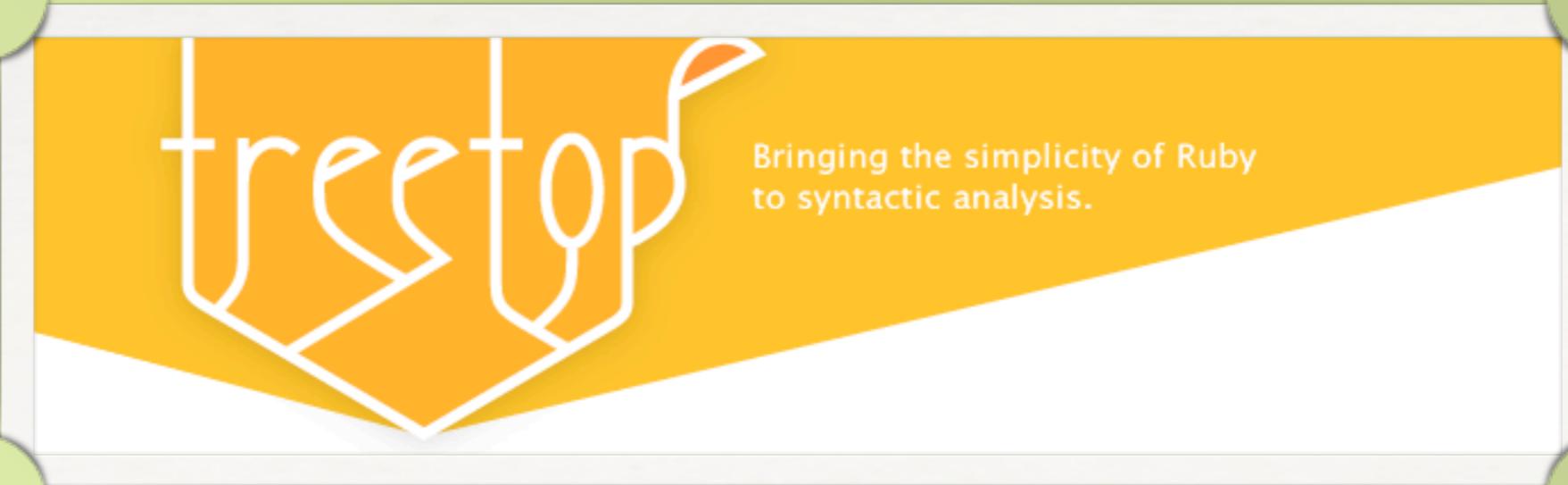
```
  @belly.cukes.should == n.to_i
```

```
end
```

How Cucumber supports 28+ languages



How Cucumber supports 28+ languages

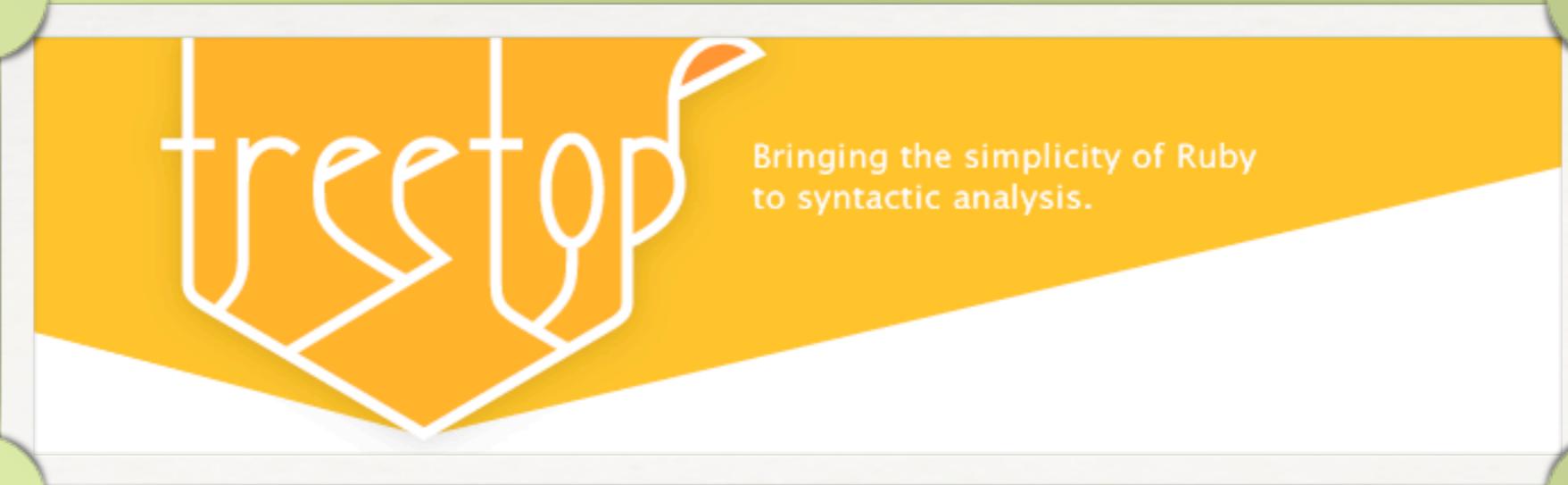


grammar Feature

...

end

How Cucumber supports 28+ languages



grammar Feature

...

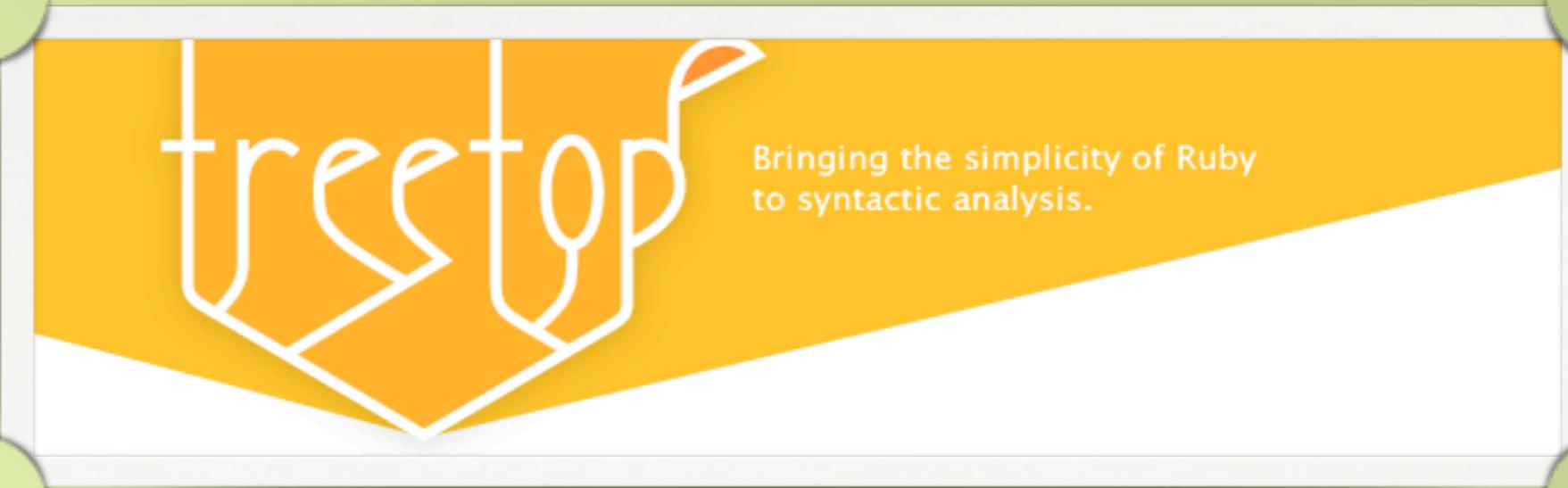
end

compiled



Ruby

How Cucumber supports 28+ languages



```
grammar Feature  
...  
end
```

compiled



Ruby

```
grammar <%= keywords('grammar_name', true) %>  
rule step_keyword  
(<%= keywords('given') %>) /  
(<%= keywords('when') %>) /  
(<%= keywords('then') %>) /  
(<%= keywords('and') %>) /  
(<%= keywords('but') %>) /  
end  
...  
end
```

```
"en-lol":  
  name: LOLCAT  
  native: LOLCAT  
  encoding: UTF-8  
  feature: OH HAI  
  background: B4  
  scenario: MISHUN  
  scenario_outline: MISHUN SRSLY  
  examples: EXAMPLZ  
  given: I CAN HAZ  
  when: WEN  
  then: DEN  
  and: AN  
  but: BUT  
  space_after_keyword: true
```

```
"en-au":  
  name: Australian  
  native: Australian  
  encoding: UTF-8  
  feature: Crikey  
  background: Background  
  scenario: Mate  
  scenario_outline: Blokes  
  examples: Cobber  
  given: Ya know how  
  when: When  
  then: Ya gotta  
  and: N  
  but: Cept  
  space_after_keyword: true
```

Once more
unto the breach,
dear friends



Welcome Joseph Wilk. You have **37 unique titles** queued. Add titles to: [Joseph's list](#)

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SHARE YOUR SECRET MOVIE CRUSH...

Please enjoy
Bacardi Breezer responsibly.
D.RINKaware.co.uk



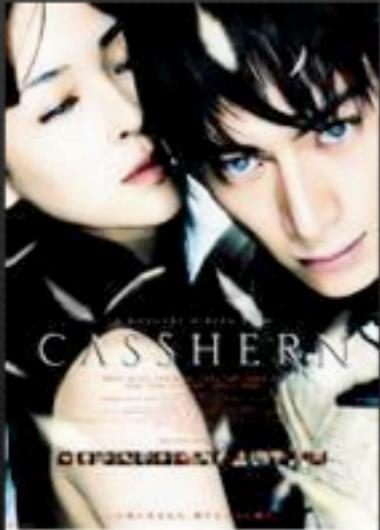
[Home](#) [Film & TV](#) [Games](#) [My rental list](#) [Magazine](#) [Gifts](#) [Shop](#)

Actor/Title/Director

Search

Casshern 2004 (15)

Your rating: from 5824 members



Set in a bleak futuristic world, Doctor Azuma applies his knowledge of genetics to attempt to regenerate mankind. When his experiments go drastically wrong, only his dead son can save humanity from a plague of mutant androids.

[Read more](#)

Starring [Yusuke Iseya](#), [Kumiko Aso](#), [Akira Terao](#), [Kanako Higuchi](#)

Director [Kazuaki Kiriya](#)

Run time 142 mins

Genres [Sci-Fi/Fantasy](#), [World Cinema](#)

RENT
DVD

BUY
From: £5.23

[At a glance](#)

[Reviews \(119\)](#)

[Film details](#)

[More like this](#)

Critics' reviews (5)

[View all](#)

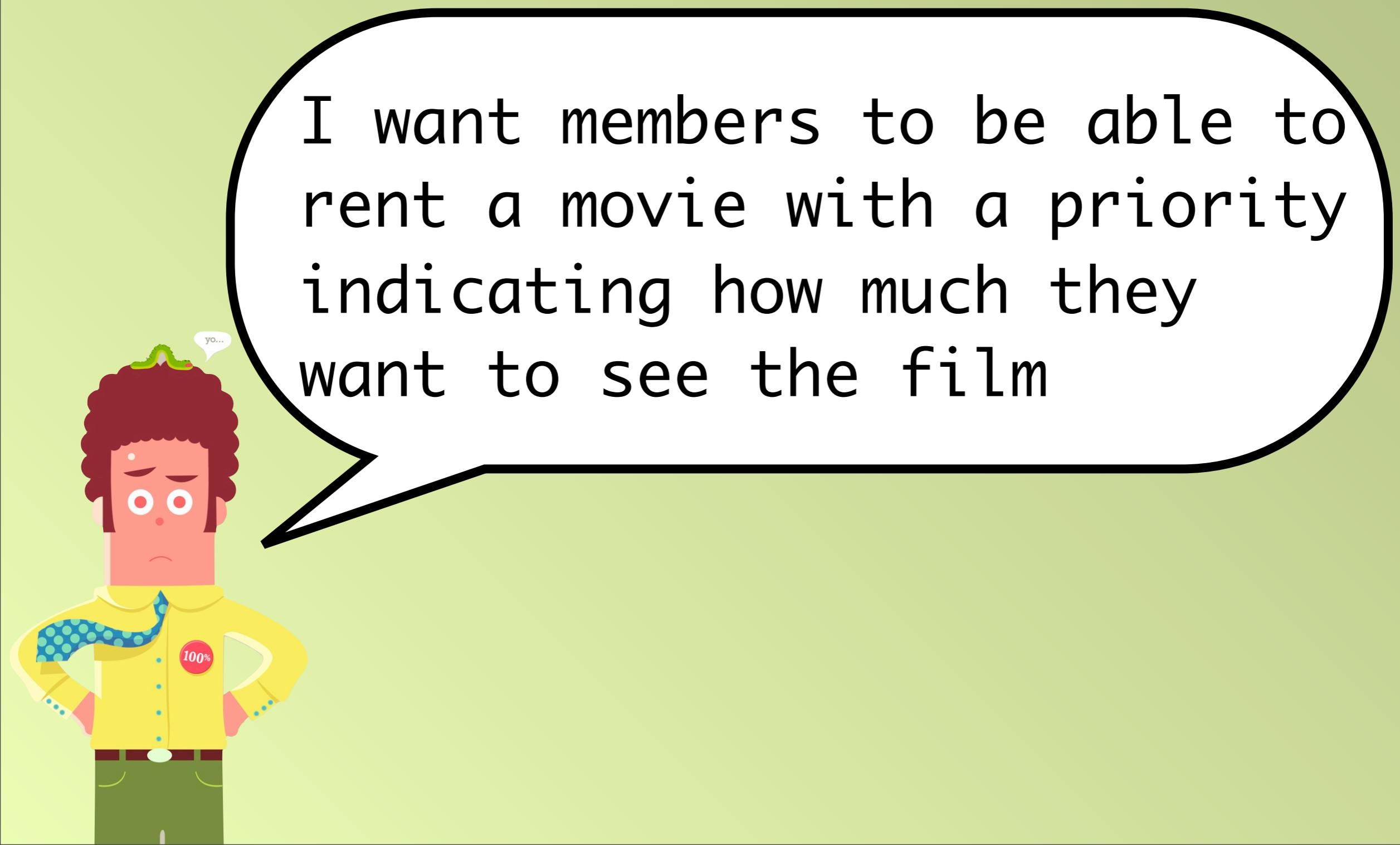
[Write a review](#)

Adapted from a 25-part anime TV series made in the early 70s, this Japanese computer-generated science-fiction... [read more on Time Out](#)



DO MORE

Feature Request



I want members to be able to rent a movie with a priority indicating how much they want to see the film

Token for Conversation



Talk
to me

Feature Injection

Feature: Film Member selects a movie to rent with priority
In order to maximise allocation of films
The Film member
Needs to add movies to their rental list with a priority

Feature Injection

Value



Feature: Film Member selects a movie to rent with priority
In order to maximise allocation of films
The Film member
Needs to add movies to their rental list with a priority

Feature Injection

Value



Feature: Film Member selects a movie to rent with priority
In order to maximise allocation of films
The Film member
Needs to add movies to their rental list with a priority

Role

Feature Injection

Value



Feature: Film Member selects a movie to rent with priority
In order to maximise allocation of films
The Film member
Needs to add movies to their rental list with a priority

Role



Feature

Acceptance Definition of Done.



Scenarios

Feature: Film Member selects a movie to rent with priority
In order to maximise allocation of films
The Film member
Needs to add movies to their rental list with a priority

Scenario: High priority

Scenarios

Feature: Film Member selects a movie to rent with priority
In order to maximise allocation of films
The Film member
Needs to add movies to their rental list with a priority

Scenario: High priority

Given I'm logged in

When I touch the movie "Casshern"

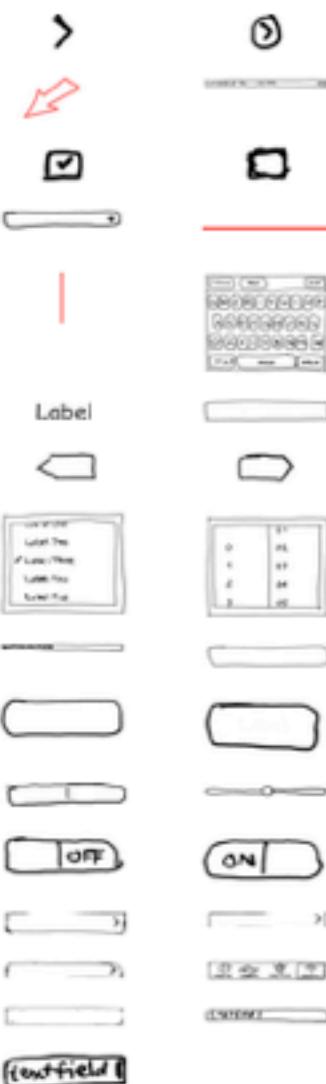
And I touch the "Rent High priority" button

Then I should see "Movie added to rental list"

And I should see "Casshern" in my rental list

And "Casshern" should be marked as "High priority"

Drag & Drop

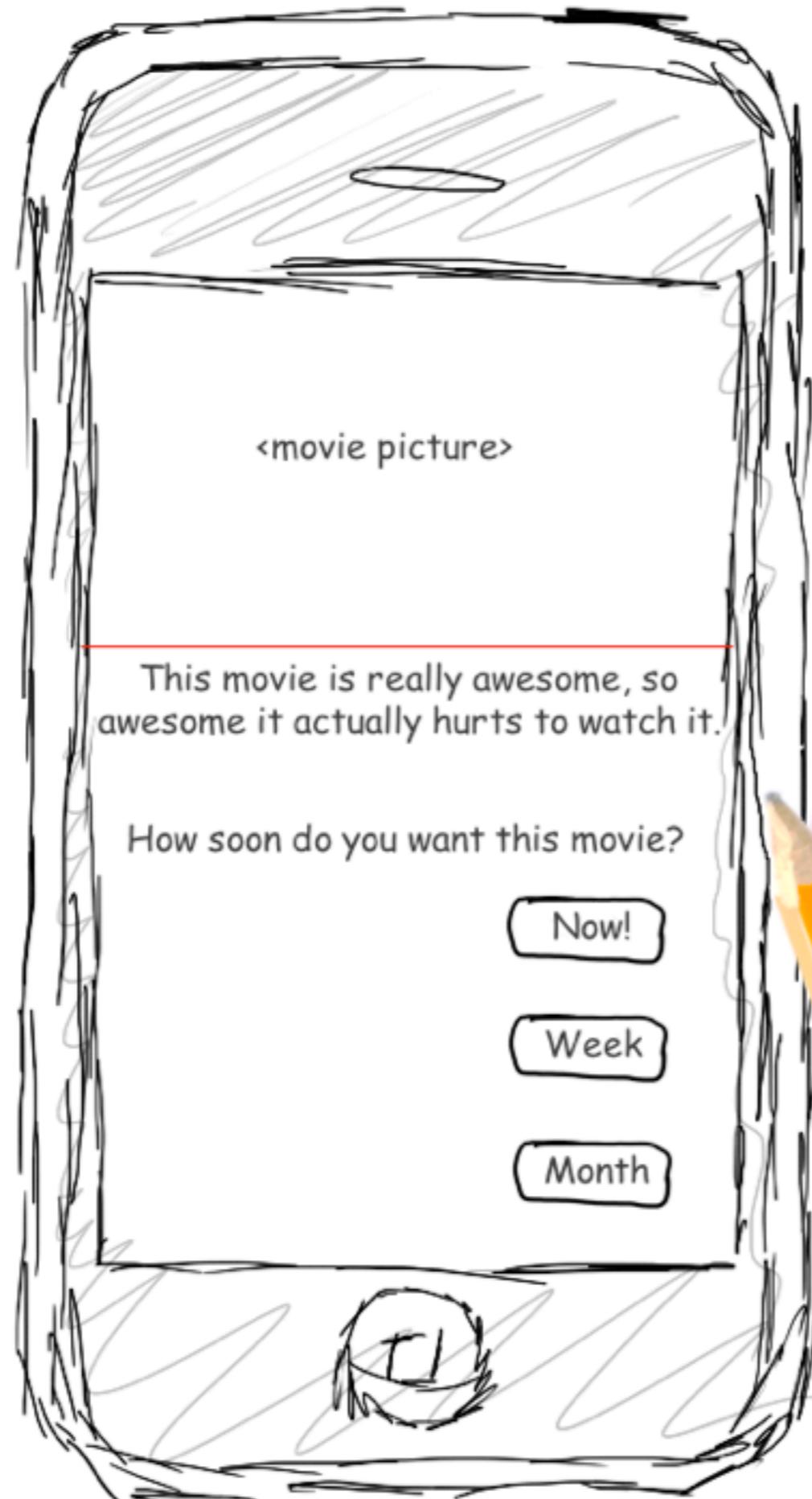


Upload

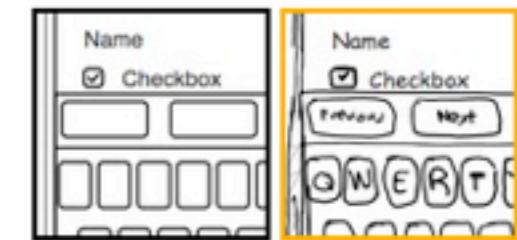
No File Uploaded

Select PNG

Upload



Style

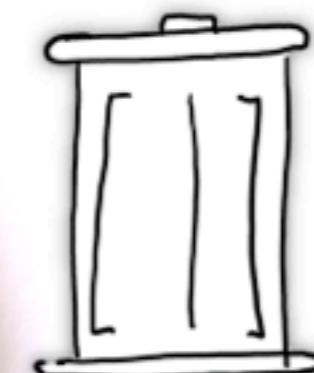


Tips & Tricks

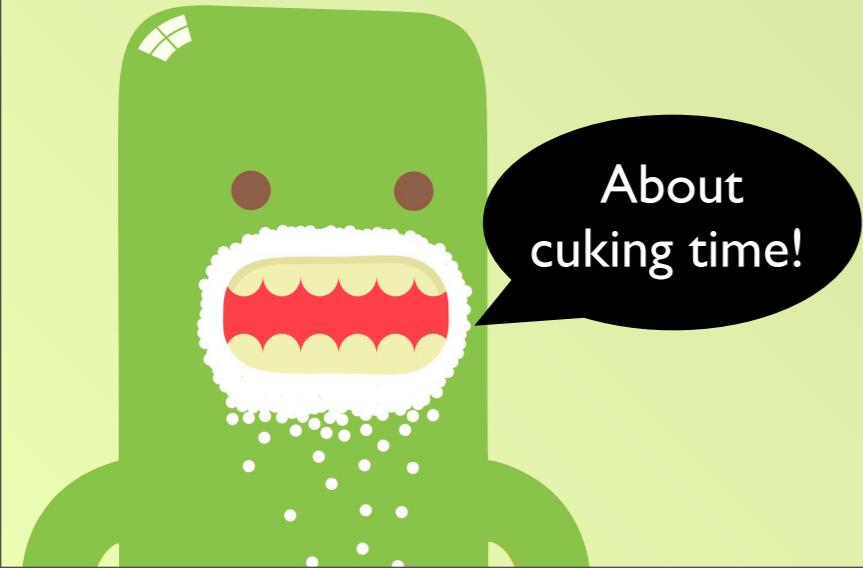
Share this Mockup with others by sharing the URL.

Everyone who knows the URL can make changes. Changes will be synchronized live. To test this, open the URL in two different browser windows.

Double-click widgets to add or change text labels.



Cuking time



ruby

bash

bash-3.2\$ sudo gem install cucumber

Low Res: <http://www.vimeo.com/5642761>

High Res: <http://www.screencast.com/t/cZZ2cofHupn>

Here's one I Cuked earlier



Low Res: <http://www.vimeo.com/5642687>

High Res: <http://www.screencast.com/t/4JV2VQGMj2G>

Getting Customers using Cucumber



Getting Customers using Cucumber



The Art of ~~War~~ Plaintext

A magnum, By calendron

Don't force structure

Feature: Title
In order to <value>
As a <role>
I want <feature>

Avoid Noise!

Given I am able to login
Given I ~~am able to~~ login

Avoid Inconsistency

```
Given I login  
Given I authenticate  
Given I gain access
```

Balance Abstraction

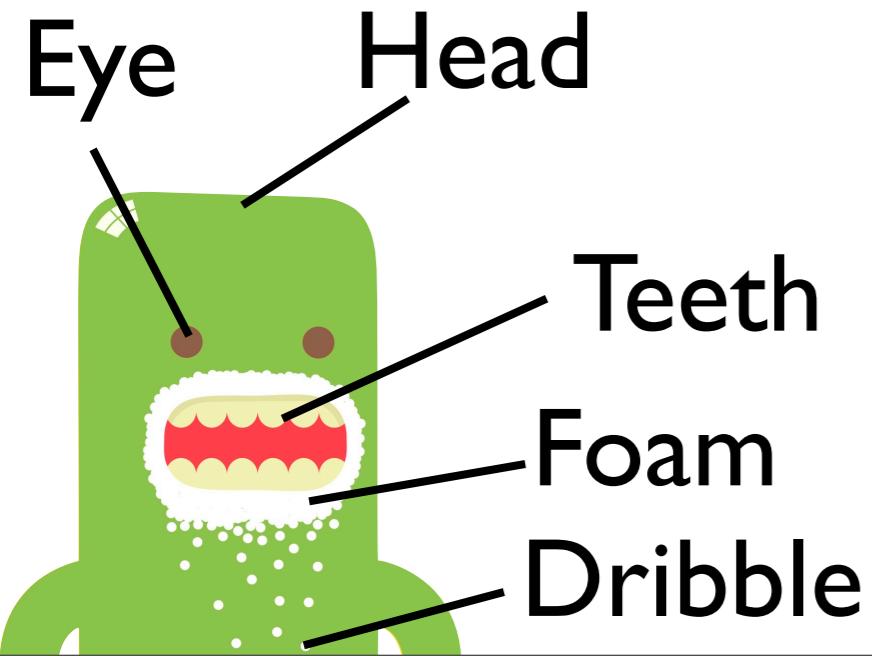
```
Given I go to the login page
And I fill in "username" with "cuke"
And I fill in "password" with "cuker"
And I click "login"
```

```
Given I'm logged in
```

Use Language Building blocks

```
Given /I'm logged in/ do
  User.create!(:user => 'josephwilk', :password => "pass")
  Given 'I fill in "password" with "josephwilk"'
  Given 'I fill in "password" with "pass"'
  Given 'I click "login"'
end
```

Tagging



Tagging

Feature: Verify billing

@done

Scenario: Missing product description

@in-progress

Scenario: Several products

```
$ cucumber --tags ~@in-progress
```

```
$ cucumber --tags @done
```

Focused Testing

Run just enough tests

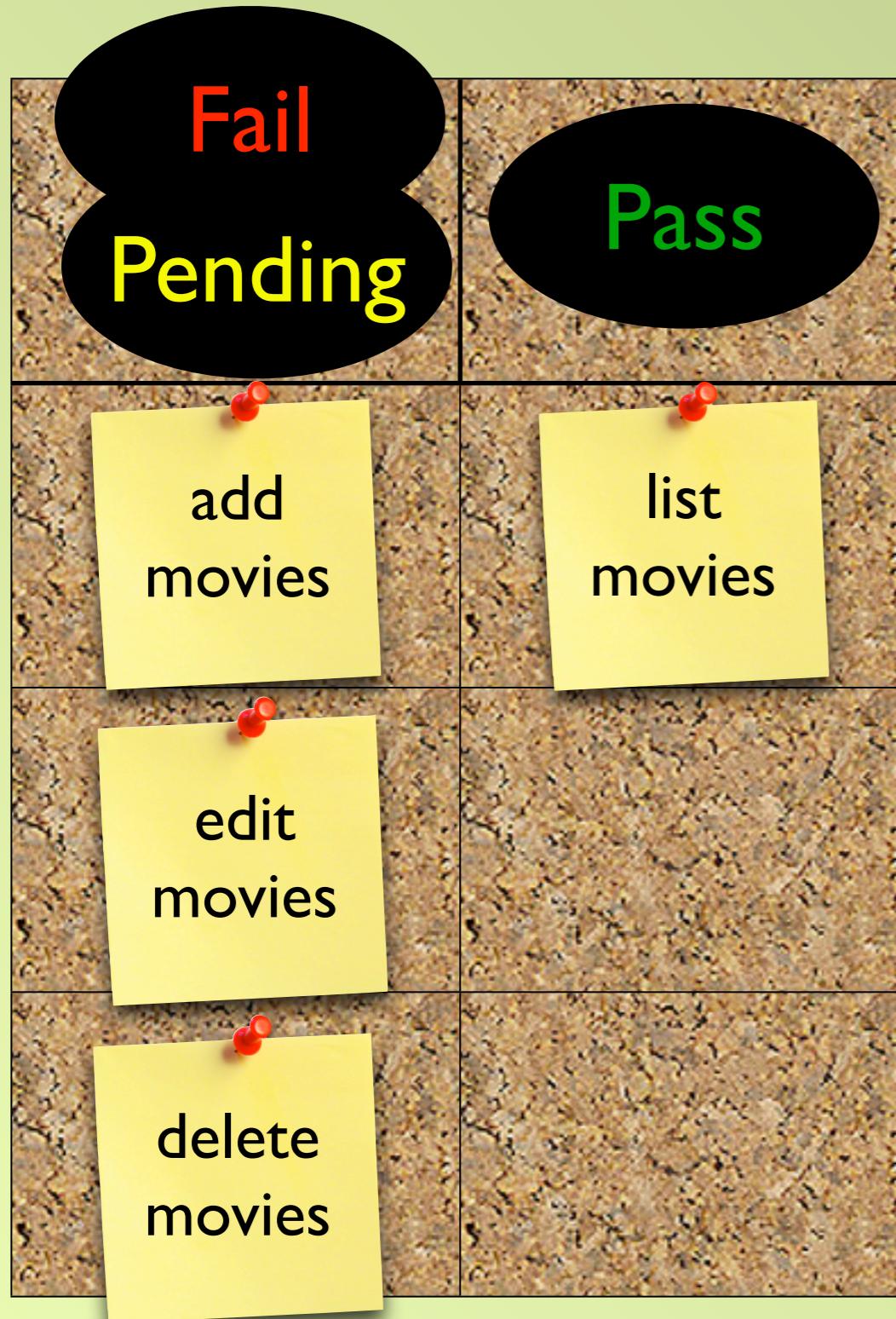
@teleport

Feature: Invent teleportation

@money

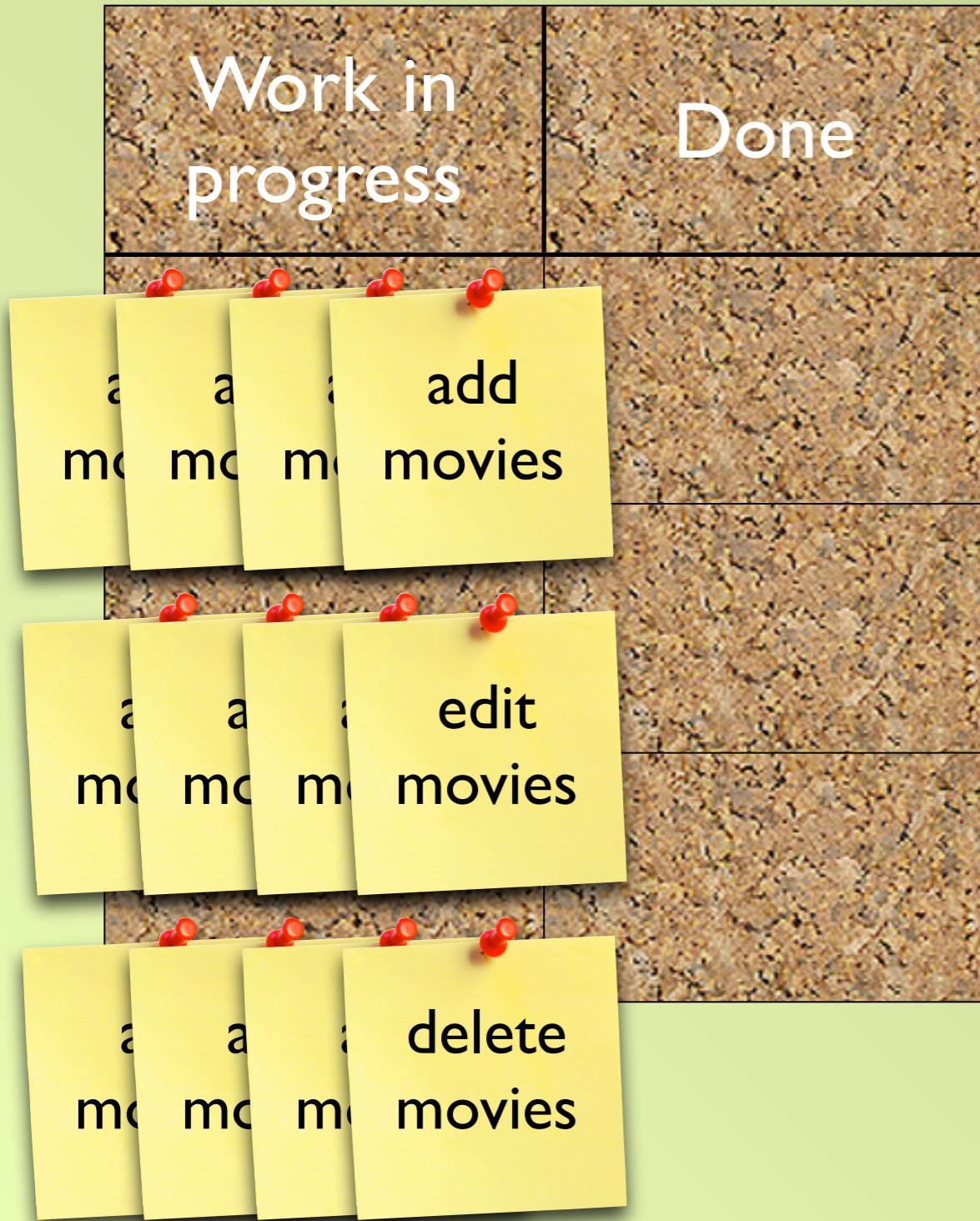
Feature: Make lots of money

Continuous Integration(WIP)



```
$ cucumber --wip  
--tags @WIP  
features/
```

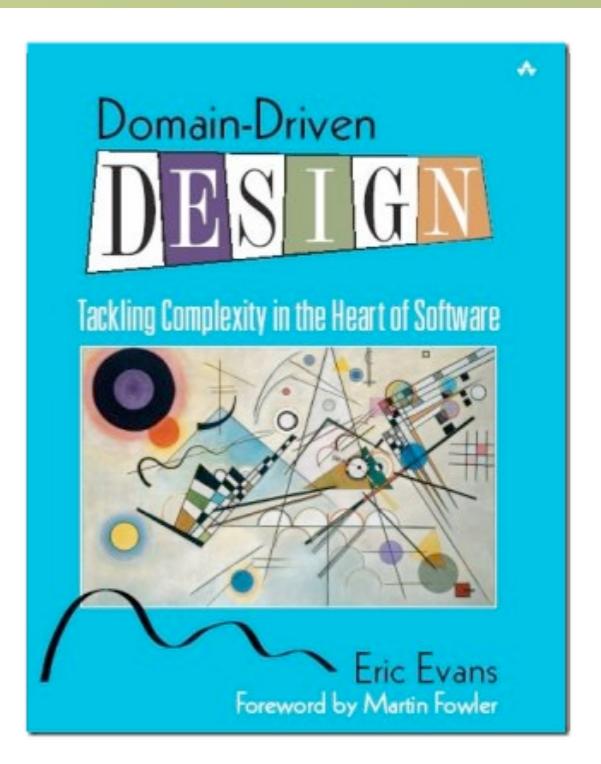
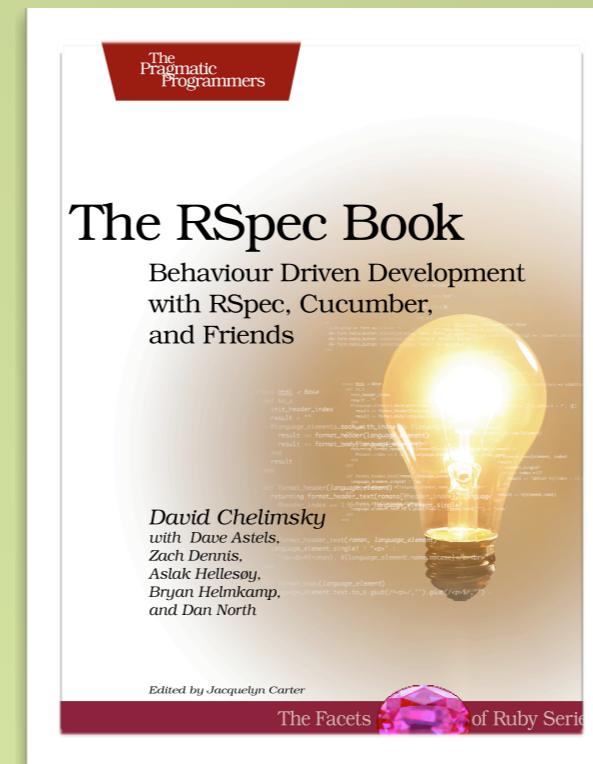
Limiting Tags in Flow



```
$ cucumber --tags @WIP:3  
features/
```

Further reading

- <http://cukes.info>
- <http://wiki.github.com/aslakhellesoy/cucumber>
- <http://blog.josephwilk.net>





Thanks,
Call me
sometime

joe@josephwilk.net

<http://github.com/josephwilk>

<http://github.com/aslakhellesoy/cucumber>