

How to fail at test automation?

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100 000+



- Main page
- Get MediaWiki
- Get extensions
- Communication
- Tech blog
- Support
 - User help
 - FAQ
 - Technical manual
 - Support desk
- Development
- MediaWiki.org
- Print/export
- Tools

Welcome to MediaWiki.org

MediaWiki is a [free software](#) [open source](#) [wiki](#) package written in [PHP](#), originally for use on [Wikipedia](#). It is now also used by several other projects of the non-profit [Wikimedia Foundation](#) and by many other wikis, including this website, the home of MediaWiki.

Use the links below to explore the site contents. You'll find some content translated into other languages, but the primary documentation language is English.

For general questions about MediaWiki see the [communication page](#) or ask at the [support desk](#).

[About this site](#) | [About MediaWiki](#) | [Download](#) | [Help and support](#) | [Contribute](#)


Using MediaWiki



What is a wiki?

- Learn [how to navigate](#)
- Learn [how to edit a page](#)
- Get [more help](#)

System Administration



Install & configure MediaWiki

- [Upgrade](#) an existing MediaWiki installation
- Add features with [third-party extensions](#)
- Get [more sysadmin help](#)

Developing & Extending




Become a MediaWiki hacker

- Learn to use the [API](#) and [write extensions](#)
- Browse the [developer docs](#) and [class reference](#)
- Already a hacker? Visit the [developer hub](#)

Current version

- [1.21.2](#) – 2013-09-03
- [1.20.7](#) – 2013-09-03
- [1.19.8](#) – 2013-09-03



News

2013-09-12

- [VipsScaler](#) implementation by volunteer developer improves image handling on Wikimedia sites

2013-09-03

- [MediaWiki 1.21.2, 1.20.7 and 1.19.8 security releases](#) are now available.

2013-05-29

- [MediaWiki 1.21.1 bug fix release](#) is now available

New opportunities

2013-11-06

- [Requests for Comments review Architecture meeting](#)

2013-11-07

- [WMF Metrics and Activities meeting](#)

2013-11-12

- [Engineering Community Team Office Hour](#)

Communication

1/9

Cucumber

cukes.info

Cucumber

behaviour driven development
with elegance and joy

1: Describe behaviour in plain text

```
Feature: Addition
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers

Scenario: Add two numbers
  Given I have entered 50 into the calculator
  And I have entered 70 into the calculator
  When I press add
  Then the result should be 120 on the screen
```

2: Write a step definition in Ruby

```
Given /I have entered (.*) into the calculator/ do |n|
  calculator = Calculator.new
  calculator.push(n.to_i)
end
```

3: Run and watch it fail

```
$ cucumber features/addition.feature
Feature: Addition # features/addition.feature
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers
  Scenario: Add two numbers # features/addition.feature
    Given I have entered 50 into the calculator # features/step_definitions/calculator.rb:2:in `Given /
      uninitialized constant Calculator (NameError)
      ./features/step_definitions/calculator_steps.rb:2:in `Given /
    Features/addition.feature:7:in `Given I have entered 50 into
    And I have entered 70 into the calculator # features/step_definitions/calculator_steps.rb:3:in `And I have entered 70 into the calculator
    When I press add # features/step_definitions/calculator_steps.rb:4:in `When I press add
    Then the result should be 120 on the screen # features/step_definitions/calculator_steps.rb:5:in `Then the result should be 120 on the screen'
```

4. Write code to make the step pass

```
class Calculator
  def push(n)
    @args ||= []
    @args << n
  end
end
```

5. Run again and see the step pass

```
$ cucumber features/addition.feature
Feature: Addition # features/addition.feature
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers
  Scenario: Add two numbers # features/addition.feature
    Given I have entered 50 into the calculator # features/step_definitions/calculator_steps.rb:2:in `Given /
    And I have entered 70 into the calculator # features/step_definitions/calculator_steps.rb:3:in `And I have entered 70 into the calculator
    When I press add # features/step_definitions/calculator_steps.rb:4:in `When I press add
    Then the result should be 120 on the screen # features/step_definitions/calculator_steps.rb:5:in `Then the result should be 120 on the screen'
```

6. Repeat 2-5 until green like a cucumber

```
$ cucumber features/addition.feature
Feature: Addition # features/addition.feature
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers
  Scenario: Add two numbers # features/addition.feature
    Given I have entered 50 into the calculator # features/step_definitions/calculator_steps.rb:2:in `Given /
    And I have entered 70 into the calculator # features/step_definitions/calculator_steps.rb:3:in `And I have entered 70 into the calculator
    When I press add # features/step_definitions/calculator_steps.rb:4:in `When I press add
    Then the result should be 120 on the screen # features/step_definitions/calculator_steps.rb:5:in `Then the result should be 120 on the screen'
```

7. Repeat 1-6 until the money runs out

Cucumber into software development teams



Download

You need Ruby installed. Then just run

13
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Feature: Log in

Background:

Given I am at Log in page

Scenario: Go to Log in page

Then Log in page should open

And Username element should be there

And Password element should be there

And Log in element should be there

Scenario: Log in without entering credentials

When I log in without entering credentials

Maintainability

2/9

Page object pattern

code.google.com/p/selenium/wiki/PageObjects
github.com/cheezy/page-object

```
12 class LoginPage
13   include PageObject
14
15   include URL
16   page_url URL.url('Special:UserLogin')
17
18   div(:feedback, class: 'errorbox')
19   button(:login, id: 'wpLoginAttempt')
20   text_field(:password, id: 'wpPassword1')
21   a(:password_strength, text: 'password strength')
22   a(:phishing, text: 'phishing')
23   text_field(:username, id: 'wpName1')
24   a(:username_displayed, title: '/Your user page/')
```

```
12 class LoginPage
13   include PageObject
14
15   include URL
16   page_url URL.url('Special:UserLogin')
17
18   div(:feedback, class: 'errorbox')
19   button(:login, id: 'wpLoginAttempt')
20   text_field(:password, id: 'wpPassword1')
21   a(:password_strength, text: 'password strength')
22   a(:phishing, text: 'phishing')
23   text_field(:username, id: 'wpName1')
24   a(:username_displayed, text: 'Your user name')
```

```
qa-browserstests/feature x  
← → ↻ GitHub, Inc. [US] https://github.com/wikimedia/qa-browserstests/blob/master/features/support/pages/login_page.rb#L23  
14  
15 include URL  
16 page_url URL.url('Special:UserLogin')  
17  
18 div(:feedback, class: 'errorbox')  
19 button(:login, id: 'wpLoginAttempt')  
20 text_field(:password, id: 'wpPassword1')  
21 a(:password_strength, text: 'password strength')  
22 a(:phishing, text: 'phishing')  
23 text_field(:username, id: 'wpName1')  
24 a(:username_displayed, title: /Your user page/)  
25  
26 def logged_in_as_element
```

```
12 class LoginPage
13   include PageObject
14
15   include URL
16   page_url URL.url('Special:UserLogin')
17
18   div(:feedback, class: 'errorbox')
19   button(:login, id: 'wpLoginAttempt')
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24   a(:username_displayed, text: 'Your user name')
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12 class LoginPage
13   include PageObject
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16   page_url URL.url('Special:UserLogin')
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18   div(:feedback, class: 'errorbox')
19   button(:login, id: 'wpLoginAttempt')
20   text_field(:password, id: 'wpPassword1')
21   a(:password_strength, text: 'password strength')
22   a(:phishing, text: 'phishing')
23   text_field(:username, id: 'wpName1')
24   a(:username_displayed, title: 'Your user page')
```

```
23 text_field(:username, id: 'wpName1')
24 a(:username_displayed, title: /Your user page/)
25
26 def logged_in_as_element
27   @browser.div(id: 'mw-content-text').p.b
28 end
29 def login_with(username, password)
30   self.username = username
31   self.password = password
32   login
33 end
34 end
```

```
22 When(/^I log in without entering credentials$/) do
23   on(LoginPage).login_with('', '')
24 end
25 When(/^I log in without entering password$/) do
26   on(LoginPage).login_with(ENV['MEDIAWIKI_USER'], '')
27 end
28 When(/^Log in as (.+)$/) do |username|
29   on(LoginPage).login_with(username, ENV['MEDIAWIKI_PASSWORD'])
30 end
31
32 Then(/^feedback should be (.+)$/) do |feedback|
33   on(LoginPage) do |page|
34     page.feedback_element.when_present.click
35     page.feedback.should match Regexp.escape(feedback)
36   end
37
```


Browser automation

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Selenium

seleniumhq.org

rubygems.org/gems/selenium-webdriver

What is Selenium?

Selenium automates browsers. That's it. What you do with that power is entirely up to you. Primarily it is for automating web applications for testing purposes, but is certainly not limited to just that. Boring web-based administration tasks can (and should!) also be automated as well.

Selenium has the support of some of the largest browser vendors who have taken (or are taking) steps to make Selenium a native part of their browser. It is also the core technology in countless other browser automation tools, APIs and frameworks.

Which part of Selenium is appropriate for me?



If you want to

- create quick bug reproduction scripts
- create scripts to aid in automation-aided exploratory testing

Then you want to use [Selenium IDE](#); a Firefox add-on that will do simple record-and-playback of interactions with the browser.



If you want to

- create robust, browser-based regression automation
- scale and distribute scripts across many environments

Then you want to use [Selenium WebDriver](#); a collection of language specific bindings to drive a browser -- the way it is meant to be driven.

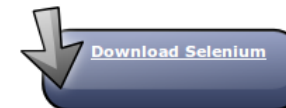
Selenium WebDriver is the successor of [Selenium Remote Control](#) which has been officially deprecated. The Selenium Server (used by both WebDriver and Remote Control) now also includes built-in grid capabilities.



Selenium is a suite of tools to automate web browsers across many platforms.

Selenium...

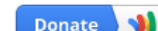
- runs in [many browsers](#) and [operating systems](#)
- can be controlled by many [programming languages](#) and [testing frameworks](#).



Donate to Selenium

with Google Checkout

\$



Combinatorial explosion

browser / operating system / version
4/9

Sauce Labs

saucelabs.com

187 Device/OS/Browser Platforms

iOS



6.0	6.0
6.1	6.1
5.1	5.1
5.0	5.0
4	4

Automate your test!

- 1) Define the browser
- 2) Enter a platform and version.

Can't find your browser?
Change 'webdriver' to 'selenium'

WebDriver ▾

ruby ▾





25	15	5	31	10
24	14	4	30	
23	13	3.0	29	
22	12	3.5	28	
21	11	3.6	27	
20	10		26	
19	9			
18	8			
17	7			
16	6			



25	15	5	31	10	12	5
24	14	4	30	9	11	
23	13	3.0	29	8		
22	12	3.5	28			
21	11	3.6	27			
20	10		26			
19	9					

Automate your test!

- 1) Define the browser
- 2) Enter a platform and version.

Can't find your browser?
Change 'webdriver' to 'selenium'

WebDriver ▾ ruby ▾



- 3) [Copy](#) Code.

```
caps = Selenium::WebDriver::Remote::Capabili
caps.platform = 'Windows XP'
caps.version = '3.6'
```

OR

[Start manual session](#)

Visibility / transparency

5/9

Code: Git, Gerrit, GitHub

git-scm.com

gerrit.wikimedia.org

github.com/wikimedia


git --fast-version-control

Search entire site...

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.



 **Learn Git in your browser for free with Try Git.**



About

The advantages of Git compared to other source control systems.



Documentation

Command reference pages, Pro Git book content, videos and other material.



Downloads

GUI clients and binary releases for all major platforms.



Community

Get involved! Mailing list, chat, development and more.



Pro Git by Scott Chacon is available to read online for free. Dead tree versions

 Linux GUIs  Tarballs

My Reviews

Subject	Status	Owner	Project	Branch	Updated	CR	V
Outgoing reviews							
★ WIP Test central-domain login, cross-domain login and central login for anons		Zfilipin	qa/browsertests	master (uls)	Aug 6		✓ jenkins-bot
★ WIP Feature: Cache		Zfilipin	qa/browsertests	master (cache)	Sep 10		✓ jenkins-bot
★ WIP \$session_id requires that @browser is initialized	Draft	Zfilipin	qa/browsertests	master (session_id)	Oct 24		✗ jenkins-bot
★ WIP Moved config files to mediawiki/selenium repository		Zfilipin	qa/browsertests	master (config)	Oct 24		✓ jenkins-bot
★ WIP Moved config files from qa/browsertests repository		Zfilipin	mediawiki/selenium	master (config)	Oct 24		✓ jenkins-bot
★ WIP Move UploadWizard tests to UploadWizard repository		Zfilipin	qa/browsertests	master (bug/56419)	Oct 31		✓ jenkins-bot
★ WIP Moved Selenium tests from browsertests repository		Zfilipin	mediawiki/extensions/UploadWizard	master (bug/56419)	Oct 31		✓ jenkins-bot
★ WIP moving code to the gem		Zfilipin	mediawiki/selenium	master (bug/56088)	Nov 4		✓ jenkins-bot
★ WIP moving code to the gem		Zfilipin	qa/browsertests	master (56088)	Nov 4		✓ jenkins-bot
Incoming reviews							
★ new test for editing existing title, also alphabetize and cleanup		Cmcmahon	mediawiki/extensions/Flow	master (edit_title_cleanup)	8:29 AM		✓ jenkins-bot
★ fix notification overlay automation test		Mgrover	mediawiki/extensions/MobileFrontend	master (nofiticationFix)	4:50 AM		✗ jenkins-bot
★ [browser test] add a test to edit with utf8 strings		Cmcmahon	mediawiki/extensions/VisualEditor	master (edit_with_utf8)	Nov 5		✓ jenkins-bot
★ WIP: Refactoring of the textarea font tests		Amire80	mediawiki/extensions/UniversalLanguageSelector	master (refactor-monospace-tests)	Oct 31	+1 KartikMistry	✓ jenkins-bot
★ WIP [browser test] see comment, send_keys working better for Chrome than FF		Cmcmahon	mediawiki/extensions/VisualEditor	master (chrome_vs_firefox)	Oct 23		✓ jenkins-bot
★ WIP: The first test for typing in the VisualEditor		Amire80	mediawiki/extensions/VisualEditor	master (nonlatin_typing)	Oct 2		✓ jenkins-bot
★ tie to ruby 1.9.3		Hashar	qa/browsertests	master	Sep 24	-1 Zfilipin	✓ jenkins-bot
Recently closed							
★ Test the entire feature with @login test	Merged	Zfilipin	mediawiki/extensions/Flow	master (login)	Nov 5		✓ jenkins-bot



Wikimedia Foundation

wikimedia

San Francisco
<http://wikimediafoundation.org>
Joined on Feb 21, 2009

946 public repos
8 members

Repositories Members

Find a repository...

All Sources Forks Mirrors

operations-dumps Python ★ 1 🍴 0

Github mirror of operations/dumps - our actual code is hosted with Gerrit (please see https://www.mediawiki.org/wiki/Developer_access for contributing)

Last updated 21 minutes ago

operations-puppet Puppet ★ 10 🍴 5

Github mirror of our puppet config - our actual code is hosted with Gerrit (please see https://www.mediawiki.org/wiki/Developer_access for contributing)

Last updated 40 minutes ago

integration-jenkins-job-builder-config ★ 0 🍴 0

Github mirror of integration/jenkins/job/builder/config - our actual code is hosted with Gerrit (please see https://www.mediawiki.org/wiki/Developer_access for contributing)

Last updated 40 minutes ago

mediawiki-extensions-Foxway PHP ★ 0 🍴 0

Github mirror of mediawiki/extensions/Foxway - our actual code is hosted with Gerrit (please see https://www.mediawiki.org/wiki/Developer_access for contributing)

Last updated an hour ago

Communication: mailing lists

lists.wikimedia.org

lists.wikimedia.org/mailman/listinfo/qa

lists.wikimedia.org Mailing Lists

Welcome!

Below is a listing of all the public mailing lists on lists.wikimedia.org. Click on a list name to get more information about the list, or to subscribe, unsubscribe, and change the preferences on your subscription. To visit the general information page for an unadvertised list, open a URL similar to this one, but with a '/' and the list name appended.

List administrators, you can visit [the list admin overview page](#) to find the management interface for your list.

If you are having trouble using the lists, please contact mailman@lists.wikimedia.org.

List	Description
Accounts-enwiki-l	Internal discussion between the English Wikipedia's account creation team
Advocacy_Advisors	Advocacy Advisory Group for Wikimedia
Ambassador-announce-l	Announcements for the Wikipedia Ambassador Program of English Wikipedia
Analytics	A mailing list for the Analytics Team at WMF and everybody who has an interest in Wikipedia and analytics.
Arbcom-ko	Korean Wikipedia ArbCom
Best-practices	Best practices documentation team
Bilderberg-l	Working group on Bilderberg projects
Bureaucrats-nl-wikipedia	NL Wikipedia Bureaucrat list
Car-fr-l	Comité d'arbitrage de la Wikipédia francophone / French Wikipedia ArbCom
Chapters-reports	[OBSOLETE] Reports on Wikimedia Chapters activity
CheckUser-l	Private communication for users with the Checkuser permission.
Chip-l	Chapters work on Intellectual Property (CHIP)
Commons-l	Wikimedia Commons Discussion List
Commons-POTY	Commons Picture of the Year Committee (private list)
Contact-nl	Interne overleglijst voor de Nederlandstalige OTRS vrijwilligers
Crc-es-l	Lista de correo para el CRC de eswiki / Spanish Wikipedia ArbCom
CVN	Countervandalism Network
CVN-private	Countervandalism Network Staff



MAILING LISTS

ABOUT WIKIMEDIA

QA

QA (software quality assurance) for Wikimedia projects.

An umbrella to host people and discussions focusing on software quality assurance in all its aspects: exploratory testing, browser automation testing, unit testing, continuous integration, the beta cluster, bug management and community QA activities. Learn more at [Quality assurance](#).

- Visit the [QA Archives](#).
- Send email to qa@lists.wikimedia.org.



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If you leave the field blank, you will be prompted for your email address

Bug tracker: Bugzilla

bugzilla.wikimedia.org



Bugzilla

Welcome to MediaWiki Bugzilla

This is the bug tracker for [MediaWiki](#) and its extensions and site-specific problems on [Wikimedia](#) wikis.

If you would like to file a bug report, please read [How to report a bug](#) for some pointers.



[Report a Bug](#)



[Search Bugs](#)



[Help on Bugzilla](#)



[Reports / Charts](#)



[User Preferences](#)

Navigation

- [Search bugs](#)
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- [Enter a new bug](#)
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Saved Searches

- [My Bugs](#)
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- [qa-verified](#)
- [zfilipin](#)

Links

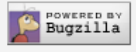
- [Reports](#)
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Enter a bug # or some search terms:

[\[Help\]](#)

Bugzilla version 4.2.7

[Privacy policy](#) [About MediaWiki.org](#) [Disclaimers](#)



Continuous integration: Jenkins

integration.wikimedia.org
wmf.ci.cloudbees.com

This is the [continuous integration](#) server for [Wikimedia Foundation](#) projects.

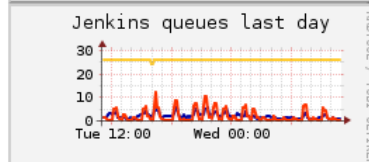
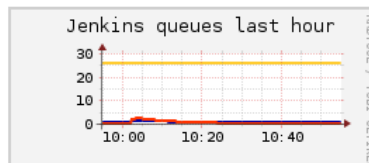
Applications

- Gerrit (code review)
- Jenkins
- TestSwarm (JUnit/Javascript), disabled
- Zuul status (Gerrit/Jenkins gateway)

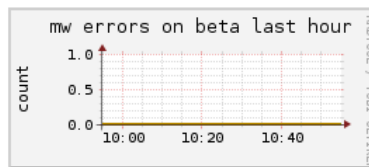
Nightly builds

- MediaWiki core (latest)
- Commons Android application (github: [android-commons](#))
- Wikipedia Android application (github: [WikipediaMobile](#))
- Wiktionary Android application (github: [WiktionaryMobile](#))
- Wikimedia Loves Monument Android application (github: [WLMMobile](#))

Monitoring



Beta cluster



Build status Passing MW conf

- Build status Passing DB update
- Build status Passing texvc (math)

[Jenkins view for Beta](#)
[More on Dashboard.](#)

[People](#)
[Build History](#)

Build Queue
 No builds in the queue.

Build Executor Status

#	Status

All	b-ch	b-ff	b-ie	os-li	os-wi	r-bt	r-fl	r-mf	r-tr	r-tw	r-uls	r-ve	s-cl	s-el	s-em	s-eml	s-l	s-m	s-p	s-st	s-t2	s-t2m
S	W	Name	Last Success	Last Failure	Last Duration	Sauce Status	Deployed On															
		browsertests-commons.wikimedia.beta.wmflabs.org-linux-chrome	1 day 7 hr (#440)	7 hr 53 min (#443)	5 min 27 sec	N/A																
		browsertests-commons.wikimedia.beta.wmflabs.org-linux-firefox	7 hr 53 min (#406)	10 hr (#405)	5 min 11 sec	N/A																
		browsertests-commons.wikimedia.beta.wmflabs.org-windows-internet_explorer_10	7 hr 48 min (#273)	1 day 16 hr (#270)	5 min 8 sec	N/A																
		browsertests-commons.wikimedia.beta.wmflabs.org-windows-internet_explorer_9	7 hr 48 min (#385)	16 hr (#384)	5 min 49 sec	N/A																
		browsertests-en.wikipedia.beta.wmflabs.org-linux-chrome	16 hr (#455)	7 hr 43 min (#456)	19 min	N/A																
		browsertests-en.wikipedia.beta.wmflabs.org-linux-firefox	7 hr 42 min (#432)	4 days 16 hr (#427)	16 min	N/A																
		browsertests-en.wikipedia.beta.wmflabs.org-windows-internet_explorer_10	4 mo 11 days (#21)	7 hr 26 min (#271)	30 min	N/A																
		browsertests-en.wikipedia.beta.wmflabs.org-windows-internet_explorer_6	1 mo 5 days (#274)	7 hr 25 min (#341)	22 min	N/A																
		browsertests-en.wikipedia.beta.wmflabs.org-windows-internet_explorer_7	4 mo 22 days (#60)	7 hr 7 min (#339)	17 min	N/A																
		browsertests-en.wikipedia.beta.wmflabs.org-windows-internet_explorer_8	11 days (#324)	7 hr 6 min (#341)	20 min	N/A																
		browsertests-en.wikipedia.beta.wmflabs.org-windows-internet_explorer_9	7 days 6 hr (#349)	6 hr 43 min (#365)	20 min	N/A																
		browsertests-test2.wikipedia.org-linux-chrome	5 days 6 hr (#693)	6 hr 43 min (#704)	21 min	N/A																
		browsertests-test2.wikipedia.org-linux-firefox	1 day 6 hr (#673)	6 hr 21 min (#676)	20 min	N/A																
		browsertests-test2.wikipedia.org-windows-internet_explorer_10	1 day 6 hr (#261)	6 hr 14 min (#263)	23 min	N/A																
		browsertests-test2.wikipedia.org-windows-internet_explorer_6	5 hr 51 min (#520)	1 day 15 hr (#517)	34 min	N/A																

Test results: Sauce Labs

saucelabs.com

- [Back to Project](#)
- [Status](#)
- [Changes](#)
- [Console Output](#)
- [View Build Information](#)
- [History](#)
- [Git Build Data](#)
- [Test Result](#)
- [Previous Build](#)

Regression

UploadWizard.Navigate to Describe page

Failing for the past 1 build (Since ● #443)
[Took 1 min 9 sec.](#)

Error Message

failed Navigate to Describe page

Stacktrace

Scenario: Navigate to Describe page

Given I am logged in
When I navigate to Upload Wizard
When I click Next button at Learn page
And upload file image.png
And click button Continue
And I click This file is my own work
And I click Next button at Release rights page
Then Describe page should open
And title text field should be there

Message:

Sauce Labs job URL: <http://saucelabs.com/jobs/411cda56e20b4be6b1a26626468a8b20>

timed out after 15 seconds, waiting for `{:text=>"Next", :tag_name=>"span"}` to become present (Watir::Wait::TimeoutError)
./features/step_definitions/upload_wizard_steps.rb:27:in ``/^I click Next button at Learn page$/`
features/upload_wizard.feature:37:in `When I click Next button at Learn page``

Commands

Screencast

Selenium log

Metadata

POST url

url: "http://commons.wikimedia.beta.wmflabs.org/wiki/Special:UserLogin"

=> {}

2.54s (+4.91s)

[click to view 31 console messages](#)

GET url

=> "http://commons.wikimedia.beta.wmflabs.org/wiki/Spe..."

8.06s (+0.21s)

[click to view 4 console messages](#)

POST frame

id: null

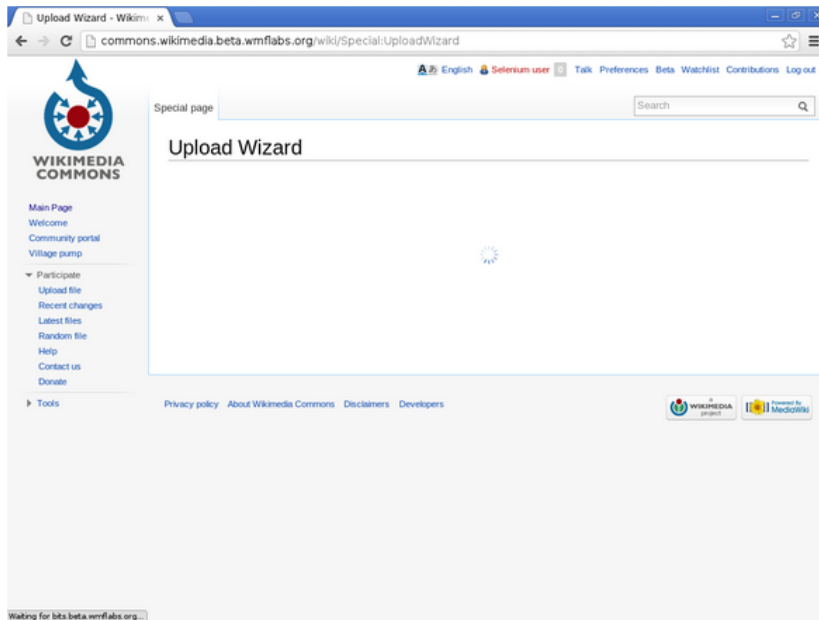
=> {}

8.44s (+0.17s)

[click to view 12 console messages](#)

POST element

using: "id"



Screencast »

Commands

Screencast

Selenium log

Metadata



WIKIMEDIA COMMONS

- Main Page
- Welcome
- Community portal
- Village pump
- Participate
 - Upload file
 - Recent changes
 - Latest files
 - Random file
 - Help
 - Contact us
 - Donate
- Tools

Gallery Discussion View View source View history Search

Main Page

This is a wiki for testing the code used by the original Wikimedia Commons. Please see [the Labs wiki](#) to find out more about the beta cluster.

Welcome to Wikimedia Commons, a database of 1,391 freely usable media files to which anyone can contribute.

[24px Images](#) [24px Sounds](#) [24px Videos](#)

Picture of the day

[[File:Template:Potd/2013-11-06|600px]]

[RSS feed](#) · [By email](#) · [Previous Pictures of the day](#)

Media of the day

No media of the day today.

[Problems playing the file?](#)

[RSS feed](#) · [Previous Media of the day](#)

Today in images

[Images from November 6](#)

Wikimedia Commons App

Donate your photos to Wikimedia projects wherever you go:

Download the new Wikimedia Commons mobile app.

File:Download on iTunes.svgFile:Get it on Google play.svg

Highlights

Commands

Screencast

Selenium log

Metadata

```
1 [3.330][FINE]: Initializing session with capabilities {
2   "browserName": "chrome",
3   "chrome.switches": [ "--ignore-certificate-errors", "--start-maximized", "--disable-webgl", "--blacklist-webgl", "--blacklist-accelerated-compositing", "--disable-accelerated-2d-canvas", "--disable-accelerated-compositing", "--disable-accelerated-layers", "--disable-accelerated-plugins", "--disable-accelerated-video", "--disable-accelerated-video-decode", "--disable-threaded-compositing", "--disable-gpu", "--disable-sync", "--remote-debugging-port=9222" ],
4   "cssSelectorsEnabled": true,
5   "javascriptEnabled": true,
6   "nativeEvents": false,
7   "rotatable": false,
8   "takesScreenshot": false,
9   "webdriver.remote.quietExceptions": true
10  }
11
12 [3.331][INFO]: Launching chrome: /opt/google/chrome/google-chrome --disable-hang-monitor --disable-prompt-on-repost --dom-automation --full-memory-crash-report --no-default-browser-check --no-first-run --disable-background-networking --disable-sync --disable-translate --disable-web-resources --safebrowsing-disable-auto-update --safebrowsing-disable-download-protection --disable-client-side-phishing-detection --disable-component-update --disable-default-apps --enable-logging --log-level=1 --password-store=basic --ignore-certificate-errors --ignore-certificate-errors --start-maximized --disable-webgl --blacklist-webgl --blacklist-accelerated-compositing --disable-accelerated-2d-canvas --disable-accelerated-compositing --disable-accelerated-layers --disable-accelerated-plugins --disable-accelerated-video --disable-accelerated-video-decode --disable-threaded-compositing --disable-gpu --disable-sync --remote-debugging-port=9222 about:blank
13 [4.770][INFO]: Connected to Chrome successfully. Version: 28.0.1500.95
14 [4.913][FINE]: Command received (/session/507903a2b052a3eb81605c061cbfac14/execute) with params {
15   "args": [ ],
16   "script": "window.moveTo(0,0);window.resizeTo(screen.width,screen.height);"
17 }
18
19 [4.913][FINER]: Waiting for all views to stop loading...
20 [4.914][FINER]: Done waiting for all views to stop loading
21 [4.924][FINER]: Waiting for all views to stop loading...
22 [4.924][FINER]: Done waiting for all views to stop loading
23 [4.924][FINE]: Command finished (/session/507903a2b052a3eb81605c061cbfac14/execute) with response {
24   "sessionId": "507903a2b052a3eb81605c061cbfac14",
```

Commands	Screenshot	Selenium log	Metadata
browser short version	28		
creation time	1383707042		
custom data	null		
browser version	28.0.1500.95		
owner	cloudbees_wmf		
id	411cda56e20b4be6b1a26626468a8b20		
build	443		
pass/fail	false		
public	share		
status	complete		
tags	[]		
start time	1383707062		
proxied	false		
selenium version	null		
commands not successful	38		

Code reuse

6/9

mediawiki-selenium

Ruby gem

github.com/wikimedia/mediawiki-selenium

Links

mediawiki-selenium gem: [Gerrit](#), [GitHub](#), [RubyGems](#), [Code Climate](#)

Repositories that use the gem:

- CirrusSearch: [Gerrit](#), [GitHub](#), [Code Climate](#), `/tests/browser` folder
- Flow: [Gerrit](#), [GitHub](#), [Code Climate](#), `/tests/browser` folder
- MobileFrontend: [Gerrit](#), [GitHub](#), [Code Climate](#), `/tests/browser` folder
- Translate: [Gerrit](#), [GitHub](#), [Code Climate](#), `/tests/browser` folder
- TwnMainPage: [Gerrit](#), [GitHub](#), [Code Climate](#), `/tests/browser` folder
- UniversalLanguageSelector: [Gerrit](#), [GitHub](#), [Code Climate](#), `/tests/browser` folder
- VisualEditor: [Gerrit](#), [GitHub](#), [Code Climate](#), `/modules/ve-mw/test/browser` folder
- Wikibase: [Gerrit](#), [GitHub](#), [Code Climate](#), `/selenium_cuc` folder
- browsertests: [Gerrit](#), [GitHub](#), [Code Climate](#), `/` folder

Speed

7/9

Not there yet :(

github.com/grosser/parallel_tests

Setup for non-rails

```
gem install parallel_tests
# go to your project dir
parallel_test test/
parallel_rspec spec/
parallel_cucumber features/
parallel_spinach features/
```

- use ENV['TEST_ENV_NUMBER'] inside your tests to select separate db/memcache/etc.
- Only run selected files & folders:

```
parallel_test test/bar test/baz/foo_text.rb
```

Options are:

```
-n [PROCESSES]          How many processes to use, default: available CPUs
-p, --pattern [PATTERN] run tests matching this pattern
  --group-by [TYPE]     group tests by:
                        found - order of finding files
                        steps - number of cucumber steps
                        default - runtime or filesize
-m, --multiply-processes [FLOAT] use given number as a multiplier of processes to run
-s, --single [PATTERN]   Run all matching files in the same process
-i, --isolate           Do not run any other tests in the group used by --single(-s)
-e, --exec [COMMAND]    execute this code parallel and with ENV['TEST_ENV_NUM']
-o, --test-options '[OPTIONS]' execute test commands with those options
-t, --type [TYPE]       test(default) / rspec / cucumber / spinach
  --serialize-stdout     Serialize stdout output, nothing will be written until everything is
  --non-parallel        execute same commands but do not in parallel, needs --exec
  --no-symlinks         Do not traverse symbolic links to find test files
```


Help wanted!

8/9

volunteering internship

lists.wikimedia.org/mailman/listinfo/qa

Works at my machine!

9/9

Jenkins

wmf.ci.cloudbees.com

MediaWiki-Vagrant

Git, VirtualBox, Vagrant

mediawiki.org/wiki/Mediawiki-Vagrant



- Main page
- Get MediaWiki
- Get extensions
- Communication
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- Print/export
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MediaWiki-Vagrant

MediaWiki-Vagrant is a portable MediaWiki development environment. It consists of a set of configuration scripts for *Vagrant* and *VirtualBox* that automate the creation of a virtual machine that runs MediaWiki.

The virtual machine that MediaWiki-Vagrant creates makes it easy to learn about, modify, and improve MediaWiki's code: useful debugging information is displayed by default, and various developer tools are set up specifically for inspecting and interacting with MediaWiki code, including a powerful debugger and an interactive interpreter. Best of all, because the configuration is automated and contained in a virtual environment, mistakes are easy to undo.



Quick start [\[edit | edit source \]](#)

1. [Get VirtualBox](#)
2. [Get Vagrant](#) (version 1.2.2 or higher is required!)
3. Get the code and create your machine:

```
$ git clone https://gerrit.wikimedia.org/r/mediawiki/vagrant
$ cd vagrant
$ vagrant up
```

Running Windows? Get [Git](#) and run these commands in a *Git Bash* shell.

When Vagrant is done configuring your machine, browse to <http://127.0.0.1:8080/> to find your MediaWiki instance. The admin password is `vagrant`.

Troubleshooting startup [\[edit | edit source \]](#)

Be sure to use the most recent versions of VirtualBox and Vagrant if you get errors with `vagrant up`. Linux repositories may provide older versions that are not compatible with MediaWiki-Vagrant. You might want to compare the output of the initial run of `vagrant up` in your terminal with this [sample](#).

Basic usage [\[edit | edit source \]](#)

The `vagrant` command-line tool on the host machine provides several subcommands for controlling your virtual machine. You've already used one: `vagrant up`, which turns on the virtual machine. Like most `vagrant` subcommands, you need to run it from the MediaWiki-Vagrant directory or `grant` will fetch a system image and the requisite software for running MediaWiki. This takes around 10-15





VirtualBox

search...

[Login](#) [Preferences](#)

Welcome to VirtualBox.org!

VirtualBox is a powerful x86 and AMD64/Intel64 [virtualization](#) product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, high performance product for enterprise customers, it is also the only professional solution that is freely available as Open Source Software under the terms of the GNU General Public License (GPL) version 2. See "[About VirtualBox](#)" for an introduction.

Presently, VirtualBox runs on Windows, Linux, Macintosh, and Solaris hosts and supports a large number of [guest operating systems](#) including but not limited to Windows (NT 4.0, 2000, XP, Server 2003, Vista, Windows 7), DOS/Windows 3.x, Linux (2.4 and 2.6), Solaris and OpenSolaris, OS/2, and OpenBSD.

VirtualBox is being actively developed with frequent releases and has an ever growing list of features, supported guest operating systems and platforms it runs on. VirtualBox is a community effort backed by a dedicated company: everyone is encouraged to contribute while Oracle ensures the product always meets professional quality criteria.

Hot picks:

- Pre-built virtual machines for developers over at [Oracle Tech Network](#)
- **phpVirtualBox** AJAX web interface [⇒ project site](#)
- **IQEmu** automated Windows VM creation, application integration [⇒ project site](#)

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News Flash

- **New November 1st, 2013**
VirtualBox 4.3.2 released!
Oracle today released VirtualBox 4.3.2, a maintenance release of VirtualBox 4.3 which improves stability and fixes regressions. See the [ChangeLog](#) for details.
- **New October 15th, 2013**
VirtualBox 4.3 released!
Read the official [press release](#) for more details.
- **New September 6th, 2013**
VirtualBox 4.2.18 released!
Oracle today released VirtualBox 4.2.18, a maintenance release of VirtualBox 4.2 which improves stability and fixes regressions. See the [ChangeLog](#) for details.
- **Attention January 20th, 2012**
This site has switched to Oracle single-sign-on authentication.
Get your account at [myprofile.oracle.com](#) and on first login on this site associate it with a new or existing nick name.

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GET STARTED

Ruby Version Manager (RVM)

Ruby versions and gemsets
rvm.io



DONATION

Love RVM? Help us to convert 20,000 lines of shell script into Ruby, a donation can help with it.

[Pledge Now](#)

Valid only till 14th November.

RECOMMEND

If you like our work with RVM, please send us a Tweet about how much you like it or recommend us on Coderwall. With love: wayneeseguin, mpapis, envygeeks, richo, rmichael, rys, dkahoe, cwgem, ddd, lemoinem

IRC

You can find the RVM team (wayneeseguin, mpapis, envygeeks, richo, rmichael, rys, dkahoe, cwgem, ddd, lemoinem) on IRC, usually in #rvm on irc.freenode.net
 If we do not respond right away, leave a message and we'll respond or leave you a memo when we are around.

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ENGINE YARD



Ruby Version Manager (RVM)

RVM is a command-line tool which allows you to easily install, manage, and work with multiple ruby environments from interpreters to sets of gems.

URGENT: RVM needs your support. For the past two years, RVM has been sponsored by EngineYard, this sponsorship is coming to an end on November 4th.



RVM 2.0

by mpapis
 Convert 20,000 lines of shell script into Ruby.

[Pledge Now](#)

\$13,256.60 pledged of \$50,000
 26% funded

RVM Documentation Index

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- Rubinius (rbx)
- MagLev (maglev)
- MacRuby (macruby)

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- benchmark

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- rvmsrc
- Project Workflow

Rubies

- Installing Rubies

```
Terminal - (precise)z@localhost: ~
File Edit View Terminal Go Help

(precise)z@localhost:~$ rvm list
known
# MRI Rubies
[ruby-]1.8.6[-p420]
[ruby-]1.8.7[-p374]
[ruby-]1.9.1[-p431]
[ruby-]1.9.2[-p320]
[ruby-]1.9.3[-p448]
[ruby-]2.0.0-p195
[ruby-]2.0.0[-p247]
[ruby-]2.1.0-preview1
[ruby-]2.1.0-head
ruby-head

# GoRuby
goruby

# Topaz
topaz

# TheCodeShop - MRI experimental
patches
tcs

# jamesgolick - All around gangst
er
jamesgolick
```

```
Terminal - (precise)z@localhost: ~
File Edit View Terminal Go Help

# Minimalistic ruby implementation
- ISO 30170:2012
mruby[-head]

# JRuby
jruby-1.2.0
jruby-1.3.1
jruby-1.4.0
jruby-1.6.5.1
jruby-1.6.6
jruby-1.6.7.2
jruby-1.6.8
jruby-1.7.4
jruby-1.7.5
jruby[-1.7.6]
jruby-head

# Rubinius
rbx-1.0.1
rbx-1.1.1
rbx-1.2.3
rbx-1.2.4
rbx-2.0.0
rbx[-2.1.1]
rbx-head

# Ruby Enterprise Edition
```

```
Terminal - (precise)z@localhost: ~
File Edit View Terminal Go Help

rbx[-2.1.1]
rbx-head

# Ruby Enterprise Edition
ree-1.8.6
ree[-1.8.7][-2012.02]

# Kiji
kiji

# MagLev
maglev[-head]
maglev-1.0.0

# Mac OS X Snow Leopard Or Newer
macruby-0.10
macruby-0.11
macruby[-0.12]
macruby-nightly
macruby-head

# Opal
opal

# IronRuby
ironruby[-1.1.3]
ironruby-head
(precise)z@localhost:~$
```

1 contributor



executable file | 7 lines (4 sloc) | 0.102 kb

```
1 #ruby=ruby-2.0.0-p247
2 #ruby-gemset=Translate
3
4 source 'https://rubygems.org'
5
6 gem 'mediawiki-selenium'
```

```
(precise)z@localhost:~$ ruby -v
```

```
ruby 1.8.7 (2011-06-30 patchlevel 352) [arm-linux-eabihf]
```

```
(precise)z@localhost:~$
```

```
(precise)z@localhost:~$ ruby -v  
ruby 1.8.7 (2011-06-30 patchlevel 352) [arm-linux-eabihf]
```

```
(precise)z@localhost:~$ rvm gemset list
```

```
gemsets for system (found in /home/z/.rvm/gems/system)
```

```
=> (default)  
  *
```

```
(precise)z@localhost:~$
```

```
Terminal - (precise)z@localhost: ~/project/Translate/tests/browser
File Edit View Terminal Go Help
(precise)z@localhost:~$ ruby -v
ruby 1.8.7 (2011-06-30 patchlevel 352) [arm-linux-eabi]
(precise)z@localhost:~$ rvm gemset list

gemsets for system (found in /home/z/.rvm/gems/system)
=> (default)
    *

(precise)z@localhost:~$ cd project/Translate/tests/browser/
RVM used your Gemfile for selecting Ruby, it is all fine - Heroku does that too,
you can ignore these warnings with 'rvm rvmrc warning ignore /home/z/project/Translate/tests/browser/Gemfile'.
To ignore the warning for all files run 'rvm rvmrc warning ignore allGemfiles'.

(precise)z@localhost:~/project/Translate/tests/browser$ █
```

```
Terminal - (precise)z@localhost: ~/project/Translate/tests/browser
File Edit View Terminal Go Help
ruby 1.8.7 (2011-06-30 patchlevel 352) [arm-linux-eabi]
(precise)z@localhost:~$ rvm gemset list

gemsets for system (found in /home/z/.rvm/gems/system)
=> (default)
*
```

(precise)z@localhost:~\$ cd project/Translate/tests/browser/
RVM used your Gemfile for selecting Ruby, it is all fine - Heroku does that too,
you can ignore these warnings with 'rvm rvmrc warning ignore /home/z/project/Translate/tests/browser/Gemfile'.
To ignore the warning for all files run 'rvm rvmrc warning ignore allGemfiles'.

```
(precise)z@localhost:~/project/Translate/tests/browser$ ruby -v
ruby 2.0.0p247 (2013-06-27 revision 41674) [armv7l-linux-eabi]
(precise)z@localhost:~/project/Translate/tests/browser$
```



```
(precise)z@localhost:~/project/Translate/tests/browser$ rvm gemset list
```

```
gemsets for ruby-2.0.0-p247 (found in /home/z/.rvm/gems/ruby-2.0.0-p247)
```

- (default)
- browsertests
- CirrusSearch
- Flow
- global
- MobileFrontend
- => Translate
- TwnMainPage
- UniversalLanguageSelector
- VisualEditor
- Wikibase-selenium_cuc

```
(precise)z@localhost:~/project/Translate/tests/browser$
```

Bundler

bundler.io

Fork me on GitHub



What is Bundler?

Bundler maintains a consistent environment for ruby applications. It tracks an application's code and the rubygems it needs to run, so that an application will always have the exact gems (and versions) that it needs to run.

We designed bundler to make it easy to share your code across a number of development, staging and production machines. Of course, you know how to share your own application or gem: stick it on GitHub and clone it where you need it. Bundler makes it easy to make sure that your application has the dependencies it needs to start up and run without errors.

[Learn More: Why Bundler exists](#)

Would you like to

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Bundler Commands

- [bundle install](#)
- [bundle update](#)

[View all commands](#)

1 contributor



executable file | 7 lines (4 sloc) | 0.102 kb

```
1 #ruby=ruby-2.0.0-p247
2 #ruby-gemset=Translate
3
4 source 'https://rubygems.org'
5
6 gem 'mediawiki-selenium'
```

```
(precise)z@localhost:~/project/Translate/tests/browser$ bundle install
```

```
Fetching gem metadata from https://rubygems.org/.....  
Fetching gem metadata from https://rubygems.org/..  
Installing builder (3.2.2)  
Installing ffi (1.9.0)  
Installing childprocess (0.3.9)  
Installing diff-lcs (1.2.4)  
Installing multi_json (1.8.2)  
Installing gherkin (2.12.2)  
Installing multi_test (0.0.2)  
Installing cucumber (1.3.8)  
Installing i18n (0.6.5)  
Installing faker (1.2.0)  
Installing yaml_reader (0.2)  
Installing data_magic (0.16.1)  
Installing json (1.8.1)  
Installing net-http-persistent (2.9)
```

```
20 gherkin (2.12.2)
21   multi_json (~> 1.3)
22   i18n (0.6.5)
23   json (1.8.1)
24   mediawiki-selenium (0.1.12)
25     cucumber
26     json
27     net-http-persistent
28     page-object
29     rest-client
30     rspec-expectations
31     syntax
32   mime-types (2.0)
```

```
16  
17   spec.files          = `git ls-files`.split($/)  
18   spec.require_paths = ["lib"]  
19  
20   spec.add_runtime_dependency "cucumber"  
21   spec.add_runtime_dependency "json"  
22   spec.add_runtime_dependency "net-http-persistent"  
23   spec.add_runtime_dependency "page-object"  
24   spec.add_runtime_dependency "rest-client"  
25   spec.add_runtime_dependency "rspec-expectations"  
26   spec.add_runtime_dependency "syntax"  
27   end
```

Why Ruby!?

ruby-lang.org

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Ruby

A Programmer's Best Friend

Google™ Custom Search

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Ruby is...

A dynamic, open source programming language with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to write.

[Read More...](#)

```
# Output "I love Ruby"
say = "I love Ruby"
puts say

# Output "I *LOVE* RUBY"
say['love'] = "**love*"
puts say.upcase

# Output "I *love* Ruby"
# five times
5.times { puts say }
```

[Download Ruby](#)

Get Started, it's easy!

- [Try Ruby! \(in your browser\)](#)
- [Ruby in Twenty Minutes](#)
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Participate in a friendly and growing community.

- [Mailing Lists](#): Talk about Ruby with programmers from all around the world.
- [User Groups](#): Get in contact with Rubyists in your area.
- [Weblogs](#): Read about what's happening right now in the Ruby community.

RubyConf Australia 2014 Call For Proposals and Tickets Now Open!

[RubyConf Australia 2014](#) will be held in Sydney on February 19 to 21. It will be the second Ruby conference held in Australia.

[Continue Reading...](#)

Posted by Andrew Grimm on 4 Oct 2013

Design Contest for www.ruby-lang.org

The Ruby Association will be hosting a design contest for the new

Communication: Cucumber

Maintainability: page-object gem

Browser automation: selenium-webdriver gem

Combinatorial explosion: Sauce Labs

Code reuse: mediawiki-selenium gem

(Speed: parallel_tests gem)

Help wanted: Ruby

Works at my machine: RVM, Bundler gem

How to fail at test automation?

11/9

Contact

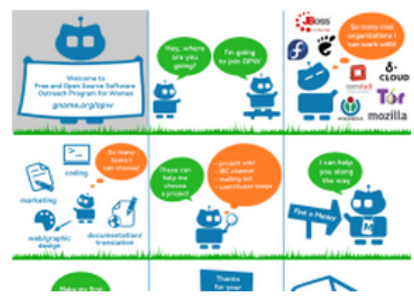
lists.wikimedia.org/mailman/listinfo/qa

qa@wikimedia.org

business cards

Outreach Program for Women

Outreach Program for Women cartoon, CC-BY-SA In the last year we have...



Browser Automation Workshop

Last week I was leading an online browser automation workshop. More information...



viaqa 2013

A few days ago I was at viaqa 2013 conference organised by...



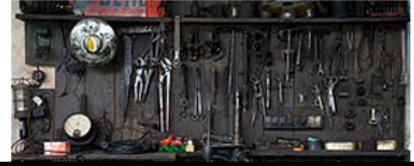
Selenium Conference 2013

Last month I was at Selenium Conference 2013 where I talked how...



Browser Automation Workshops

Chris McMahon, Quim Gil and I have started to organize browser automation...



Wikimedia Hackathon Amsterdam 2013

Last week I was in Amsterdam. I have spent a few days...

