

STOP FLYING BLIND

PROFILING YOUR APP'S INTERNALS

innoQ







A Vocabulary Management System for the Semantic Web.

[About](#) [Features](#) [Customization](#) [Technology](#) [Team](#) [Source Code](#)

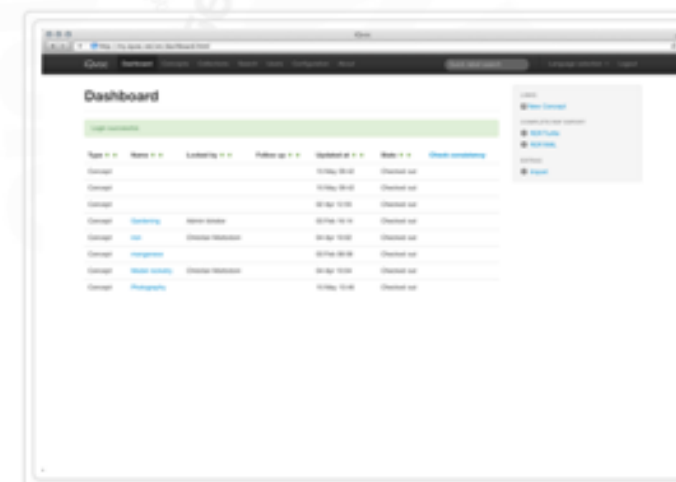
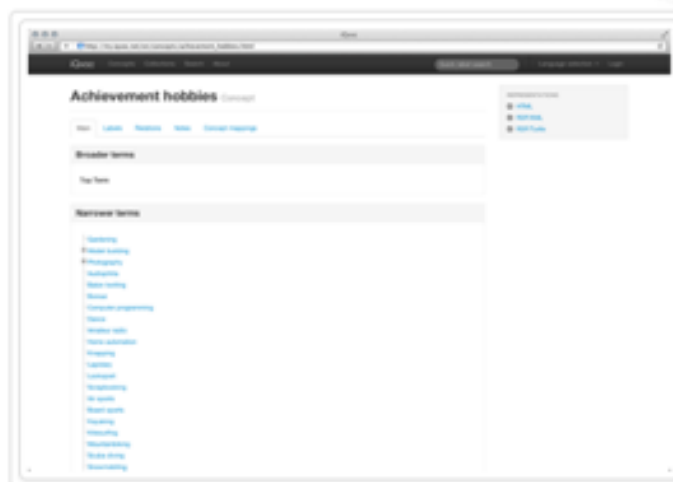
About What is it?

iQvoc supports vocabularies that are common to many knowledge organisation systems, such as:

- Thesauri
- Taxonomies
- Classification schemes
- Subject heading systems

You can try out iQvoc right now! In our sandbox you can play around with the public views. If you like to test the collaborative functions simply [request](#) your personal demo account.

[» Try it now!](#)



Features What iQvoc can do for you.

OPEN SOURCE

ay

orted, any vocabulary is ready to be displayed and in an intuitive Web interface. iQvoc supports various ble skins to align with any kind of user-specific style iQvoc Web interface provides unrestricted lism and conforms to the guidelines of the Web ty Initiative (WAI).

Editorial Workflow

The general vocabulary administrator may authorize registered users as vocabulary editors. Editing is performed in an extension of the original Web interface, so the editorial staff can be globally distributed and there is no need for any kind of additional tooling. More sophisticated editorial features are planned for version 2, including a fine grained work flow and



Mahlzeit, robertg

Mitarbeiter 3 €, Externe 5 €

Aktuelle Termine

Speise	Datum	Anmeldungen	Status
Pesto-Nudeln auf Kräuterhähnchenfilet	2012-06-14 (Donnerstag)	5	Buchen
Nudeln mit Pesto und Kräuter-Hähnchenfilets aus dem Backofen			
Eis-Dessert			
Hirtentopf mit Schafskäse	2012-06-13 (Mittwoch)	3	Buchen
Mais, rote Bohnen, Paprika, Schafskäse, Kartoffeln und Hackfleisch			
Rote Grütze mit Vanillesauce			
Bandnudeln mit Gamelen	2012-06-12 (Dienstag)	7	Buchen
Bandnudeln, Möhren und Zucchini in einer leichten Currysahne-Sauce, dazu Gamelen			
Muffins			
Thai-Curry	2012-06-11 (Montag)	5	Buchen
Hähnchenbrust, Gemüse, Reis			
Pfirsich-Lassi			
Salatteller mit Hähnchenspieß	2012-06-06 (Mittwoch)	9	Buchen
Bunter Salatteller, Hähnchenspieß			
Muffins			
Spargel-Schinken-Rosmarinkartoffel	2012-06-05 (Dienstag)	8	Buchen

Neuer Termin

Speise

Details

Datum

Slots

[Speichern](#)

HACK DAYS

WHAT DID MY APP DO

WHEN

HOW MANY TIMES

AT WHICH RATE

CPU USAGE

IO

NETWORK TRAFFIC

LOAD AVERAGE

MEMORY

500s

EXTERNAL API CALLS

DATABASE QUERIES

PAGE VIEWS

DEPLOYMENTS

NOTIFICATIONS

EMAILS

SEARCH QUERIES

REGISTRATIONS

HOW DO I FIND OUT ?

ENTER

METRICS

Completed 302 Found in 1ms (ActiveRecord: 0.1ms)

Started GET "/en/hierarchical_concepts.html" for 76.69.113.145 at 2012-02-01 02:05:45 +0100

Processing by Concepts::HierarchicalController#index as HTML

Parameters: {"lang"=>"en"}

Rendered concepts/hierarchical/_treeview.html.erb (0.5ms)

Rendered concepts/hierarchical/index.html.erb within layouts/application (1.6ms)

Rendered layouts/_controls.html.erb (1.5ms)

Rendered layouts/_header.html.erb (0.2ms)

Rendered layouts/_navigation.html.erb (1.4ms)

Completed 200 OK in 42ms (Views: 35.6ms | ActiveRecord: 0.4ms)

Started GET "/en/alphabetical_concepts/a.html" for 76.69.113.145 at 2012-02-01 02:05:55 +0100

Processing by Concepts::AlphabeticalController#index as HTML

Parameters: {"lang"=>"en", "letter"=>"a"}

Rendered concepts/alphabetical/_pref_labeling.html.erb (0.0ms)

Rendered concepts/alphabetical/index.html.erb within layouts/application (10.4ms)

Rendered layouts/_controls.html.erb (1.6ms)

Rendered layouts/_header.html.erb (0.1ms)

Rendered layouts/_navigation.html.erb (1.0ms)

Completed 200 OK in 23ms (Views: 16.3ms | ActiveRecord: 0.5ms)

Started GET "/" for 213.26.184.250 at 2012-02-01 02:16:27 +0100
Processing by Concepts::HierarchicalController#index as */*
Redirected to http://iqvoc.innoq.com/en/hierarchical_concepts.html
Filter chain halted as :ensure_extension rendered or redirected
Completed 302 Found in 1ms (ActiveRecord: 0.1ms)

Started GET "/" for 213.26.184.250 at 2012-02-01 02:40:05 +0100

Processing by Concepts::HierarchicalController#index as */*

Redirected to http://iqvoc.innoq.com/en/hierarchical_concepts.html

Filter chain halted as :ensure_extension rendered or redirected

Completed 302 Found in 1ms (ActiveRecord: 0.1ms)

Started GET "/de/alphabetical_concepts/l.html" for 208.115.113.88 at 2012-02-01 02:48:31 +0100

Processing by Concepts::AlphabeticalController#index as HTML

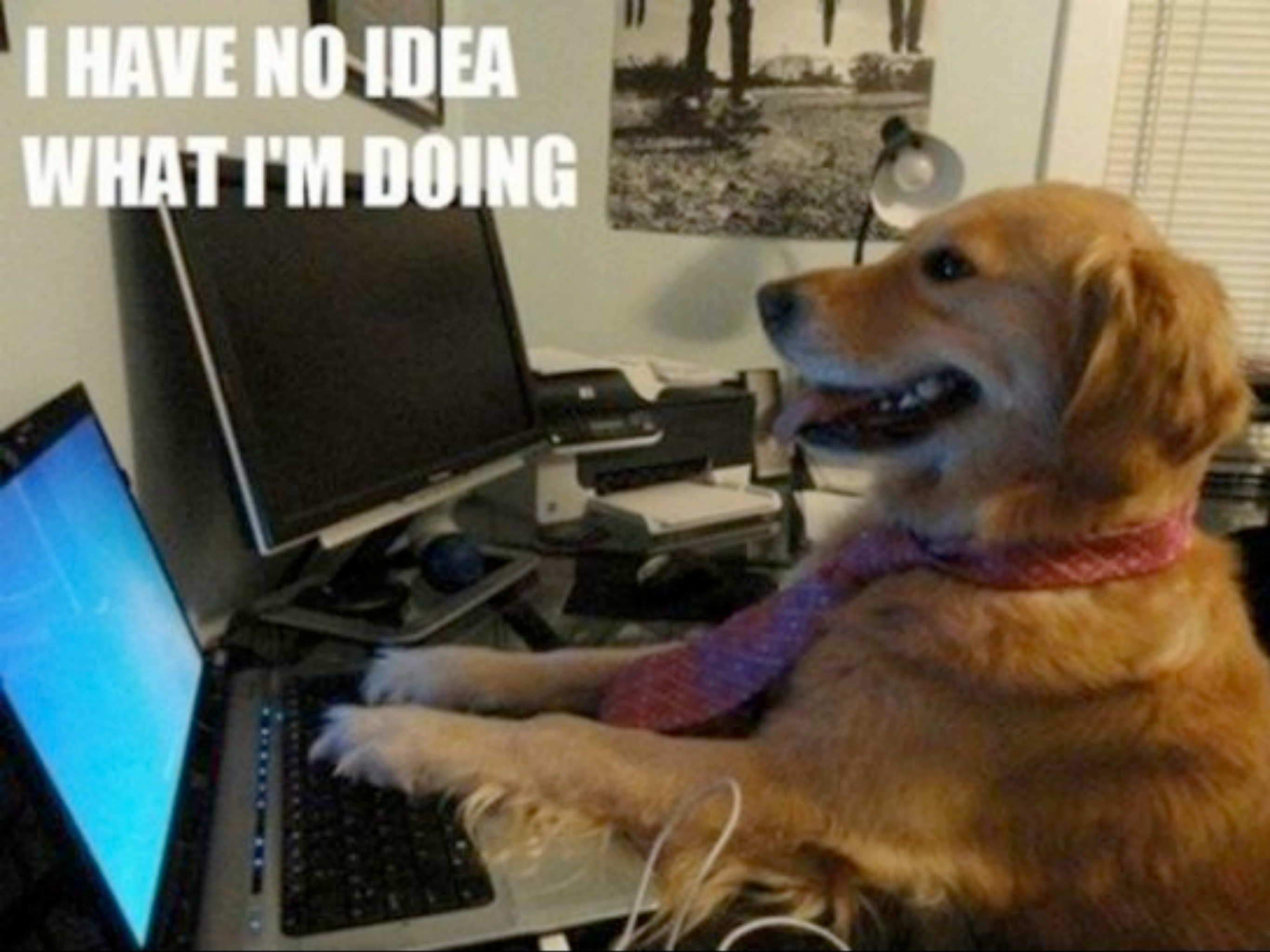
Parameters: {"lang"=>"de", "letter"=>"l"}

Rendered concepts/alphabetical/_pref_labeling.html.erb (0.0ms)

--More-- (0%)

```
sql_metrics = []  
  
File.foreach('log/production.log') do |line|  
  if line =~ /Completed.*ActiveRecord:\s(.+)ms/  
    sql_metrics << $1  
  end  
end
```

**I HAVE NO IDEA
WHAT I'M DOING**



ENTER

ACTIVESUPPORT NOTIFICATIONS

SIMPLE

MESSAGING SYSTEM FOR INSTRUMENTING

```
ActiveSupport::Notifications.subscribe do |*args|  
  event = ActiveSupport::Notifications::Event.new(*args)  
  Rails.logger.debug(event.name)  
end
```

```
ActiveSupport::Notifications.subscribe do |name, start, finish, id, payload|  
  ...  
end
```

Connecting to database specified by database.yml

Started HEAD "/" for 127.0.0.1 at 2001 18:43:46 +0200

Processing by Concepts::HierarchicalController#index as HTML

start_processing.action_controller

sql.active_record

sql.active_record

sql.active_record

ConfigurationSetting Load (0.2ms) SELECT `configuration\_settings`.* FROM `configuration\_settings`

sql.active_record

CACHE (0.0ms) SELECT `configuration\_settings`.* FROM `configuration\_settings`

sql.active_record

Redirected to http://0.0.0.0/en/hierarchical_concepts.html

redirect_to.action_controller

Filter chain halted as :ensure_extension rendered or redirected

halted_callback.action_controller

Completed 302 Found in 18ms (ActiveRecord: 3.0ms)

process_action.action_controller

CONSUMING

BUILTIN RAILS METRICS

EXAMPLE

PAGE VIEWS

```
class PageViewMetric < ActiveRecordBase  
  attr_accessible :path, :page_duration, :view_duration, :db_duration  
end
```

Connecting to database specified by database.yml

Started HEAD "/" for 127.0.0.1 at 2012-06-01 18:43:46 +0200

Processing by Concepts::HierarchicalController#index as HTML

start_processing.action_controller

sql.active_record

sql.active_record

sql.active_record

ConfigurationSetting Load (0.2ms) SELECT `configuration\_settings`.* FROM `configuration\_settings`

sql.active_record

CACHE (0.0ms) SELECT `configuration\_settings`.* FROM `configuration\_settings`

sql.active_record

Redirected to http://0.0.0.0/en/hierarchical_concepts.html

redirect_to.action_controller

Filter chain halted as :ensure_extension rendered or redirected

halted_callback.action_controller

Completed 302 Found in 18ms (ActiveRecord: 3.0ms)

process_action.action_controller

█



```
ActiveSupport::Notifications.subscribe "process_action.action_controller" do |*args|
  event = ActiveSupport::Notifications::Event.new(*args)
  PageViewMetric.create! do |metric|
    metric.path = event.payload[:path]
    metric.page_duration = event.payload[:page_duration]
    metric.view_duration = event.payload[:view_duration]
    metric.db_duration = event.payload[:db_runtime]
  end
end
```

id	path	page_duration	view_duration	db_duration	created_at	updated_at
1	/	17.689	NULL	3.487	2012-06-01 09:55:20	2012-06-01 09:55:20
2	/	2.852	NULL	0.274	2012-06-01 09:55:30	2012-06-01 09:55:30
3	/en/hierarchical_concepts.html	901.981	648.594	8.607	2012-06-01 09:55:31	2012-06-01 09:55:31
4	/en/collections.html	522.853	147.794	14.457	2012-06-01 09:55:36	2012-06-01 09:55:36
5	/en/search.html	181.6	68.017	0.84	2012-06-01 09:55:37	2012-06-01 09:55:37
6	/en/users.html	465.688	172.532	2.935	2012-06-01 09:55:39	2012-06-01 09:55:39
7	/en/config.html	406.425	140.396	2.886	2012-06-01 09:55:40	2012-06-01 09:55:40
8	/en/dashboard.html	240.884	69.877	6.983	2012-06-01 09:55:45	2012-06-01 09:55:45
9	/en/concepts/_00000068.html?published=0	451.798	212.078	23.765	2012-06-01 09:55:47	2012-06-01 09:55:47
10	/en/concepts/_00000068/edit.html?published=0	805.192	603.11	29.261	2012-06-01 09:55:52	2012-06-01 09:55:52
11	/en/concepts/_00000068.html?published=0	584.493	NULL	26.997	2012-06-01 09:55:57	2012-06-01 09:55:57
12	/en/concepts/_00000068.html?published=0	342.154	268.435	10.791	2012-06-01 09:55:57	2012-06-01 09:55:57
13	/en/hierarchical_concepts.html	420.296	144.257	8.59	2012-06-01 09:55:59	2012-06-01 09:55:59
14	/en/alphabetical_concepts/a.html	114.062	73.981	6.832	2012-06-01 09:56:01	2012-06-01 09:56:01
15	/en/alphabetical_concepts/b.html	97.729	75.332	6.502	2012-06-01 09:56:03	2012-06-01 09:56:03
16	/en/alphabetical_concepts/c.html	175.195	47.314	6.46	2012-06-01 09:56:04	2012-06-01 09:56:04
17	/en/concepts/chess.html	275.962	153.533	14.234	2012-06-01 09:56:05	2012-06-01 09:56:05
18	/en/concepts/competition_hobbies.html	234.429	104.964	6.835	2012-06-01 09:56:08	2012-06-01 09:56:08
19	/en/dashboard.html	86.969	75.122	1.536	2012-06-01 09:56:09	2012-06-01 09:56:09
20	/en/search.html?utf8=%E2%9C%93&t=labeling-skos-base&qt=ex...	320.434	200.112	10.999	2012-06-01 09:56:16	2012-06-01 09:56:16
21	/	19.008	NULL	2.102	2012-06-01 10:00:29	2012-06-01 10:00:29
22	/de/concepts/_00000068.html?published=0	858.521	334.605	27.58	2012-06-01 10:00:29	2012-06-01 10:00:29
23	/de/concepts/_00000068.html?published=0	843.719	327.987	28.724	2012-06-01 10:00:31	2012-06-01 10:00:31
24	/de/concepts/_00000068.html?published=0	867.374	362.444	27.159	2012-06-01 10:00:33	2012-06-01 10:00:33
25	/de/hierarchical_concepts.html	424.029	146.423	7.775	2012-06-01 10:00:34	2012-06-01 10:00:34
26	/de/alphabetical_concepts/a.html	489.569	188.706	14.105	2012-06-01 10:00:37	2012-06-01 10:00:37
27	/de/alphabetical_concepts/a.html	490.581	188.497	13.493	2012-06-01 10:00:38	2012-06-01 10:00:38
28	/de/untranslated_concepts/a.html	117.041	68.918	6.738	2012-06-01 10:00:38	2012-06-01 10:00:38
29	/de/hierarchical_concepts.html	71.527	63.069	0.735	2012-06-01 10:00:40	2012-06-01 10:00:40
30	/de/hierarchical_concepts.html	41.157	34.146	0.662	2012-06-01 10:00:40	2012-06-01 10:00:40
31	/de/hierarchical_concepts.html	40.905	33.89	0.697	2012-06-01 10:00:41	2012-06-01 10:00:41
32	/de/untranslated_concepts/a.html	236.402	215.042	11.642	2012-06-01 10:00:43	2012-06-01 10:00:43
33	/de/untranslated_concepts/a.html	67.65	56.432	5.712	2012-06-01 10:00:43	2012-06-01 10:00:43
34	/de/untranslated_concepts/a.html	82.842	70.597	5.169	2012-06-01 10:00:44	2012-06-01 10:00:44

BUILTIN RAILS INSTRUMENTATION

ACTIONCONTROLLER

★ start_processing.action_controller
process_action.action_controller
send_file.action_controller
redirect_to.action_controller
halted_callback.action_controller

CACHE

cache_read.active_support
cache_generate.active_support
cache_fetch_hit.active_support
cache_write.active_support
cache_delete.active_support

ACTIONMAILER

deliver.action_mailer
receive.action_mailer

ACTIONVIEW

render_template.action_view
render_partial.action_view

ACTIVERECORD

sql.active_record

EXAMPLE

SQL QUERIES

```
class QueryMetric < ActiveRecord::Base
  attr_accessible :name, :duration
end
```

```
ActiveSupport::Notifications.subscribe(/^sql\./) do |*args|
  event = ActiveSupport::Notifications::Event.new(*args)
  blacklist = ['CACHE', 'SCHEMA', nil] # nil goes for inserts and updates
  unless blacklist.include?(event.payload[:name])
    QueryMetric.create!(name: event.payload[:name], duration: event.duration)
  end
end
```

BUILTIN RAILS INSTRUMENTATION

ACTIONCONTROLLER

start_processing.action_controller
process_action.action_controller
send_file.action_controller
redirect_to.action_controller
halted_callback.action_controller

CACHE

cache_read.active_support
cache_generate.active_support
cache_fetch_hit.active_support
cache_write.active_support
cache_delete.active_support

ACTIONMAILER

deliver.action_mailer
receive.action_mailer

ACTIONVIEW

render_template.action_view
render_partial.action_view

ACTIVERECORD

★ sql.active_record

CREATING

CUSTOM NOTIFICATIONS

1. INSTRUMENTATION

```
ActiveSupport::Notifications.instrument 'iqvoc.concepts.published'
```

2. SUBSCRIPTION

```
ActiveSupport::Notifications.subscribe 'iqvoc.concepts.published' do |*args|  
  event = ActiveSupport::Notifications.new(*args)  
  
  event.name # => 'iqvoc.concepts.published'  
  event.time # => start time object  
  event.end   # => finished time object  
  event.duration # => convenience method  
  event.payload # => optional hash  
end
```

REGEXP SUBSCRIPTION

```
ActiveSupport::Notifications.subscribe(/^iqvoc/) do |*args|  
  event = ActiveSupport::Notifications.new(*args)  
  puts event.name  
end
```

```
# => iqvoc.concepts.created  
# => iqvoc.concepts.published  
# => iqvoc.concepts.branched  
# ...
```

UNSUBSCRIBING

AVOID POLLUTION OF YOUR METRICS SYSTEM

```
subscriber = ActiveSupport::Notifications.subscribe(/noisy_instrument/) do |*args|  
end
```

```
ActiveSupport::Notifications.unsubscribe(subscriber)
```

TEMPORARY SUBSCRIPTIONS

```
callback = lambda { |*args| ... }  
ActiveSupport::Notifications.subscribed(callback, "verbose_instrument") do  
  ...  
end
```

GOT DATA?

DO SOMETHING WITH IT

FEED IT TO

FREE TOOLS

GRAPHITE + DASHBOARD SOLUTIONS

COMMERCIAL TOOLS

LIBRATO METRICS

NEWRELIC

SCOUT

KISS METRICS

FEED IT TO

BOTS

HUBOT

CAMPFIRE

IRC

HIPCHAT

HOW TO FEED



PUBLIC



eric / metriks

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[metriks](#) / README.md

eric 3 months ago Add Graphite and Librato Metrics reporters

1 contributor



100644 | 358 lines (232 sloc) | 7.305 kb

[Edit this file](#)[Raw](#)[Blame](#)[History](#)

Metriks Client

This is an experiment in making a threadsafe, low impact library to measure aspects of your ruby.

The library is very much a work-in-progress. It is being developed as I find needs while developing [Papertrail](#).

Installing

The API is still in flux, but you can add this to your project by installing the gem.

To install, add this to your `Gemfile` :

```
gem 'metriks'
```

and re-run `bundle` .

Metric API Overview

Counters

Basic atomic counter. Used as an underlying metric for many of the other more advanced metrics.

METRIKS

METRICS LIBRARY FOR RUBY

THREADSAFE

NICE API

SUPPORT FOR MULTIPLE BACKENDS

METRIKS REPORTERS

GRAPHITE REPORTER

```
reporter = Metriks::Reporter::Graphite.new 'localhost', 3004  
reporter.start
```

METRIKS REPORTERS

LOGGER REPORTER

```
reporter = Metriks::Reporter::Logger.new(logger: Logger.new('log/metrics.log'))  
reporter.start
```

METRIKS REPORTERS

LIBRATO METRICS REPORTER

```
reporter = Metriks::Reporter::LibratoMetrics.new('email', 'token')  
reporter.start
```

METRIKS API

COUNTERS

```
Metriks.counter('iqvoc.page_views').increment
```

METRIKS API

METERS

```
meter = Metriks.meter('my_app.github_api_requests')  
meter.mark  
  
puts "rate: #{meter.mean_rate}/sec"
```

METRIKS API

TIMERS

```
timer = Metriks.timer('paypal_api_requests')
timer.time do
  damn_slow_paypal_api_request
end
```

METRIKS EXAMPLE

```
reporter = Metriks::Reporter::LibratoMetrics.new('foo@bar.local', '314c7284f190')
reporter.start
```

```
ActiveSupport::Notifications.subscribe 'iqvoc.concepts.published' do |*args|
  Metriks.meter('iqvoc.concepts.published').mark
end
```

```
ActiveSupport::Notifications.subscribe 'costly_operation' do |*args|
  event = ActiveSupport::Notifications::Event.new(*args)
  Metriks.timer('costly_operation').update(event.duration)
end
```

LIBRATO METRICS



Metric | info@innoq.com

METRICS

CORRELATE

INSTRUMENTS

DASHBOARDS



Metric Attributes

Configure aspects of your metric's display.

Y-Axis Label

Tooltip Label

Period

Display Min

Display Max

Simple Display Transform

Color



How should we aggregate your data over time?

☒ Average

☐ Sum

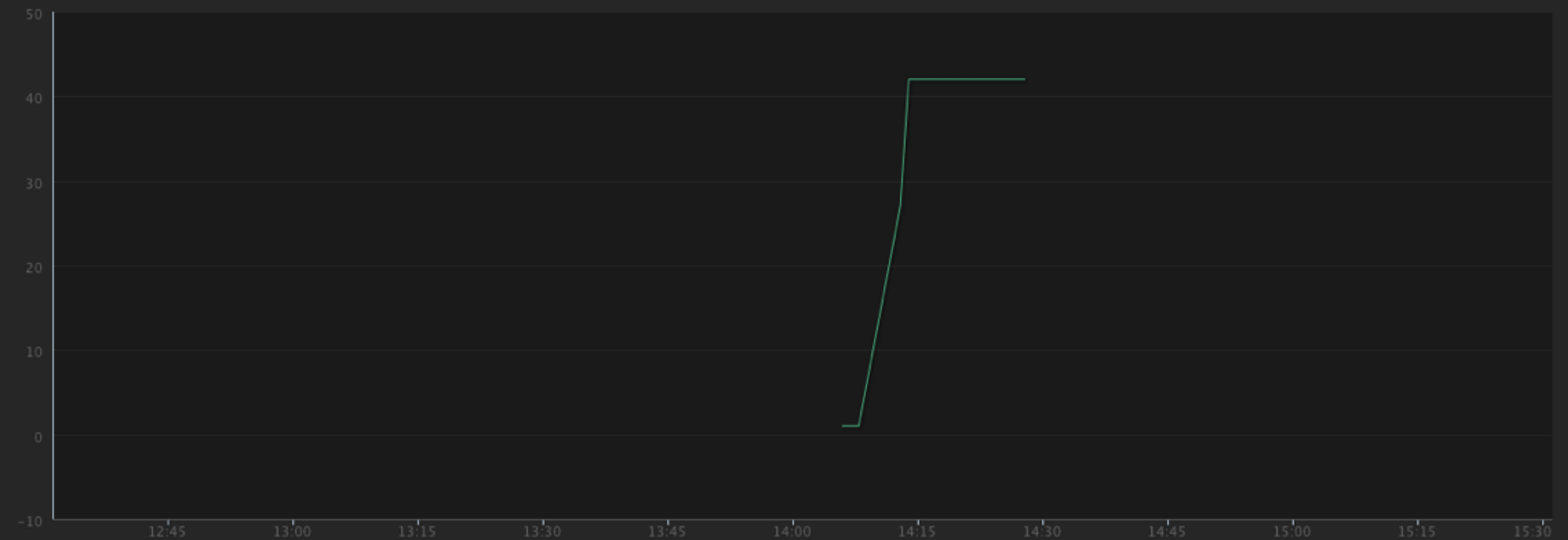
☐ Stack Metric Sources

☒ Show Gaps

save attributes

iqvoc.concepts.published.count

JUN 04, 12 - 12:31 PM - JUN 04, 12 - 03:31 PM



unassigned

Stream Filter

WRITE YOUR OWN REPORTER



Explore Gist Blog Help

 mrreynolds

 230  

PUBLIC  eric / metriks

 Watch 174  Fork 12

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Network

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metriks / lib / metriks / reporter

name	age	message	history
..			
 graphite.rb	a month ago	Metriks::Reporter::Graphite requires socket [timurbatyrshin]	
 librato_metrics.rb	a month ago	Provide some accessors for reporters that make sense [eric]	
 logger.rb	a month ago	Provide some accessors for reporters that make sense [eric]	
 proc_title.rb	3 months ago	Fix on_error handlers so they actually work. [myronmarston]	
 riemann.rb	3 months ago	Riemann reporter. [aphyr]	

LAST BUT NOT LEAST

System Metrics



Rails 3 Engine for monitoring app performance via ActiveSupport::Notifications

Screenshots

Documentation

Code

System Metrics is a Rails 3 Engine providing a clean web interface to performance metrics instrumented with ActiveSupport::Notifications. It will collect and display the notifications baked into Rails and any additional custom ones you add using ActiveSupport::Notification#instrument.

System Metrics

DashboardAction ControllerAction ViewActive RecordRackAdministration

process_action.action_controller:3228
[request.rack](#) > process_action.action_controller

554.291 ms

When
1 minute ago
Path
/blur_queries
Method
GET
Params
{ "action" => "index", "controller" => "blur_queries" }
Db Runtime
14.816
View Runtime
215.33603744506837
End Point
BlurQueriesController#index

Child Metrics

ID	Name	Identifier	Duration (ms)
3235	render_template.action_view	layouts/application	209.412
3236	→ sql.active_record	BlurTable Load	0.554
3237	→ render_partial.action_view	RAILS_ROOT/app/views/blur_queries/_query_table.html.haml	32.281
3238	→ → sql.active_record	BlurQuery Load	2.014
3239	→ → render_collection.action_view	collection	0.007
3240	→ sql.active_record	Zookeeper Load	0.382
3231	sql.active_record	Zookeeper Load	1.513

BEST PRACTICES

DEVELOPMENT != PRODUCTION

```
Started GET "/en/dashboard.html" for 127.0.0.1 at 2012-06-04 15:44:26 +0200
  ConfigurationSetting Load (0.3ms) SELECT `configuration_settings`.* FROM `configuration_settings`
Processing by DashboardController#index as HTML
Parameters: {"lang"=>"en"}
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  User Load (0.3ms) SELECT `users`.* FROM `users` WHERE `users`.`id` = 1 LIMIT 1
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  Concept::SK0S::Base Load (0.6ms) SELECT `concepts`.* FROM `concepts` WHERE `concepts`.`published_at` IS NULL OR `concepts`.`follow_up` IS NOT NULL))
----- Started view rendering -----
  Rendered partials/concept/_new_link_base.html.erb (2.2ms)
  Rendered dashboard/_sidebar.html.erb (5.7ms)
  Rendered dashboard/index.html.erb within layouts/application (17.5ms)
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  CACHE (0.0ms) SELECT `configuration_settings`.* FROM `configuration_settings`
  Rendered layouts/_controls.html.erb (3.5ms)
  Rendered layouts/_navigation.html.erb (8.8ms)
Completed 200 OK in 462ms (Views: 180.2ms | ActiveRecord: 8.2ms)
```

```
Started GET "/en/dashboard.html" for 127.0.0.1 at 2012-06-04 15:47:03 +0200
Processing by DashboardController#index as HTML
Parameters: {"lang"=>"en"}
  Rendered partials/concept/_new_link_base.html.erb (0.7ms)
  Rendered dashboard/_sidebar.html.erb (2.7ms)
  Rendered dashboard/index.html.erb within layouts/application (8.9ms)
  Rendered layouts/_controls.html.erb (1.9ms)
  Rendered layouts/_navigation.html.erb (5.0ms)
Completed 200 OK in 46ms (Views: 40.9ms | ActiveRecord: 0.6ms)
```

ASYNC NOTIFICATIONS

SYNC QUEUE IS DEFAULT (FANOUT)
DECOUPLE SLOW SUBSCRIPTIONS OF REQ/RESP-CYCLE
USE THREADS/REAL QUEUE

```
ActiveSupport::Notifications.notifier  
# => ActiveSupport::Notifications::Fanout
```

```
ActiveSupport::Notifications.notifier = MyQueue
```

STORE SUBSCRIPTIONS IN A SINGLE PLACE

DON'T REBUILD LIBRATO/NEWRELIC

DON'T OVERPROFILE THINGS

TRACK WHAT MATTERS

TALK TO YOUR ADMIN

DERIVE BUSINESS VALUE

SCALE UP IN CROWDED TIMES

IDENTIFY SLOW VIEWS/QUERIES

CORRELATE BOTTLENECKS AND CONVERSIONS



USE DASHBOARDS



THANK YOU!
QUESTIONS?

@mrreynolds