

Show me the data 2013
TIMEMAPS

Arjan Scherpenisse

@acscherp



MiracleThings ★

Welcome! My name is Arjan Scherpenisse. I develop understandable interfaces for any interactive thing or idea that pops into your mind.



Projects



Blog



Technologies



Get in touch



About me



Android



Erlang/OTP



Zotonic



Python



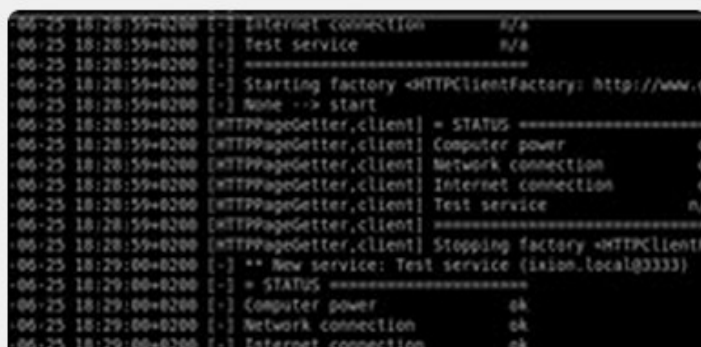
OpenCV



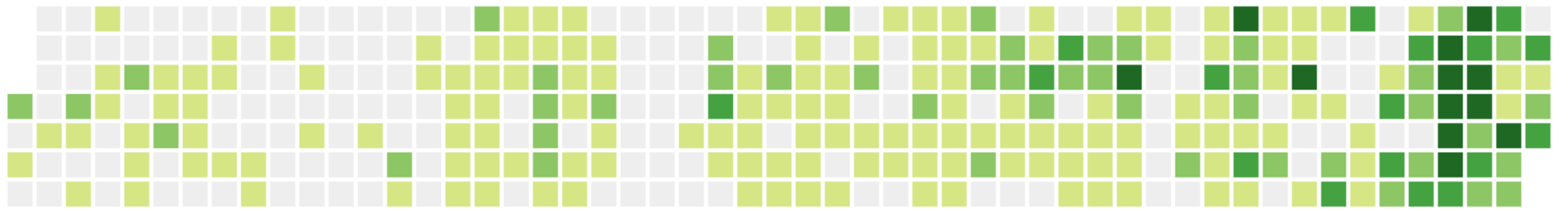
Electronics




PHP




Sparked



Python + Twisted protocol that provides ac...

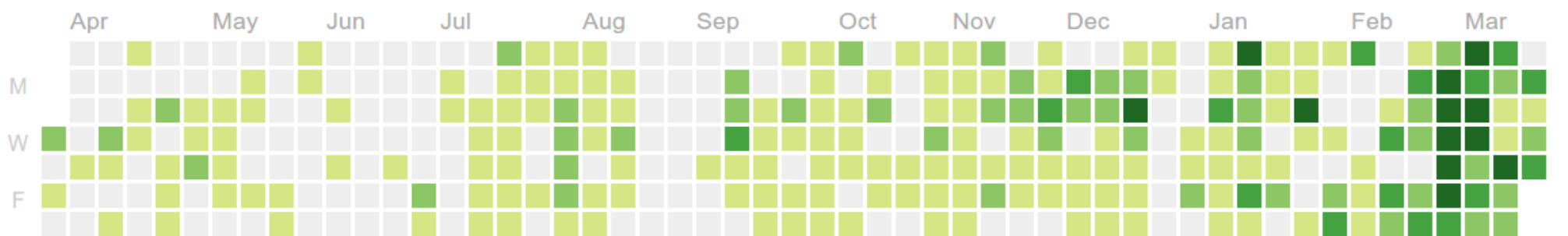
 **zclient** 4 ★
Zotonic API commandline access utility

 **zotonic** 3 ★
Zotonic, the Erlang CMS

 **bkp/get_a_room** 1 ★
Minimalist erlang chat server

 **zotonic/zotonicwww** 2 ★
The source code for http://zotonic.com

Your Contributions



 Summary of Pull Requests, issues opened and commits. [Learn more.](#)

Less  More

1,587 Total

Mar 28 2012 - Mar 28 2013

Year of Contributions

23 days

March 01 - March 23

Longest Streak

4 days

March 25 - March 28

Current Streak

Contribution Activity

Period: **1 Week** ▾

 **69** Commits

● master backup/master Add 3318	Arjan Scherpenisse	Wed 13 Mar 2013 10:48:5
● Another batch of invoices	Arjan Scherpenisse	Sun 03 Mar 2013 09:28:35
● 3310	Arjan Scherpenisse	Sun 03 Mar 2013 08:40:52
● Factuur 3309	Arjan Scherpenisse	Wed 06 Feb 2013 12:13:5
● 3308	Arjan Scherpenisse	Wed 06 Feb 2013 11:35:1
● Facturen Januari 2013	Arjan Scherpenisse	Thu 31 Jan 2013 08:41:04
● Makefile fixes	Arjan Scherpenisse	Thu 31 Jan 2013 08:40:50
● New year, 2013, plus factuur 3301	Arjan Scherpenisse	Wed 30 Jan 2013 06:15:0
● Final invoice of 2012	Arjan Scherpenisse	Tue 15 Jan 2013 04:27:28
● Factuur 3260	Arjan Scherpenisse	Mon 31 Dec 2012 05:10:4
● 3259	Arjan Scherpenisse	Fri 21 Dec 2012 11:44:51
● Mediafonds factuur	Arjan Scherpenisse	Wed 19 Dec 2012 06:36:2
● 3257	Arjan Scherpenisse	Fri 07 Dec 2012 02:23:21
● New database file	Arjan Scherpenisse	Wed 05 Dec 2012 12:35:4
● 3256 + new no-btw template	Arjan Scherpenisse	Wed 05 Dec 2012 12:35:3
● 3255	Arjan Scherpenisse	Wed 05 Dec 2012 12:35:2
● 3254	Arjan Scherpenisse	Wed 05 Dec 2012 12:35:1
● Factuur 3253	Arjan Scherpenisse	Fri 30 Nov 2012 08:23:28
● Factuur MM lab okt 2012	Arjan Scherpenisse	Mon 12 Nov 2012 12:35:0
● Factuur tweak	Arjan Scherpenisse	Mon 12 Nov 2012 12:34:5
● Factuur 3251	Arjan Scherpenisse	Fri 02 Nov 2012 04:11:48
● Factuur 3250	Arjan Scherpenisse	Fri 02 Nov 2012 04:00:39
● Update BTW calculation, 19% -> 21%	Arjan Scherpenisse	Fri 02 Nov 2012 03:58:44
● Factuur 3249	Arjan Scherpenisse	Tue 30 Oct 2012 03:43:39
● End-of-the-month invoices	Arjan Scherpenisse	Fri 28 Sep 2012 08:59:41
● Factuur 3244	Arjan Scherpenisse	Fri 21 Sep 2012 10:24:08
● Add 3243, factuur Redgage augustus	Arjan Scherpenisse	Fri 17 Aug 2012 05:57:30
● Factuur 3241, Mediamatic Lab	Arjan Scherpenisse	Fri 17 Aug 2012 03:51:31
● Factuur 3241, Studio March	Arjan Scherpenisse	Fri 17 Aug 2012 03:39:05
● Add Redgage factuur	Arjan Scherpenisse	Wed 01 Aug 2012 09:15:1
● Added factuur for Studio March (India)	Arjan Scherpenisse	Tue 31 Jul 2012 11:43:35



TIMEMAPS

TIMEMAPS

🔍 ZOEKEN

📍 HUIDIGE LOCATIE

FAVORIETEN

WIJZIG

AMSTERDAM CENTRAAL

UTRECHT CENTRAAL

EINDHOVEN

STAVOREN

EMMEN

VOEG FAVORIET TOE



🕒 AFGELOPEN 24U



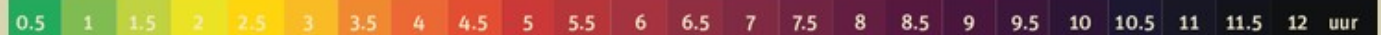
› MEER INFORMATIE

› HOUD MIJ OP DE HOOGTE

⤴ SLUIT MENU

UTRECHT CENTRAAL

VRIJDAG, 11:07



TIMEMAPS

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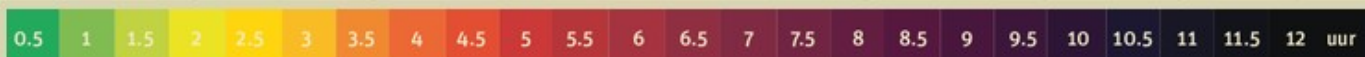
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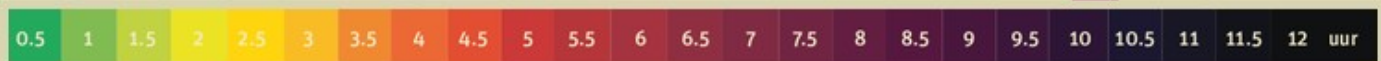
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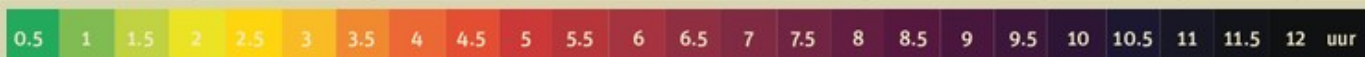
› MEER INFORMATIE

› HOUD MIJ OP DE HOOGTE

⏪ SLUIT MENU

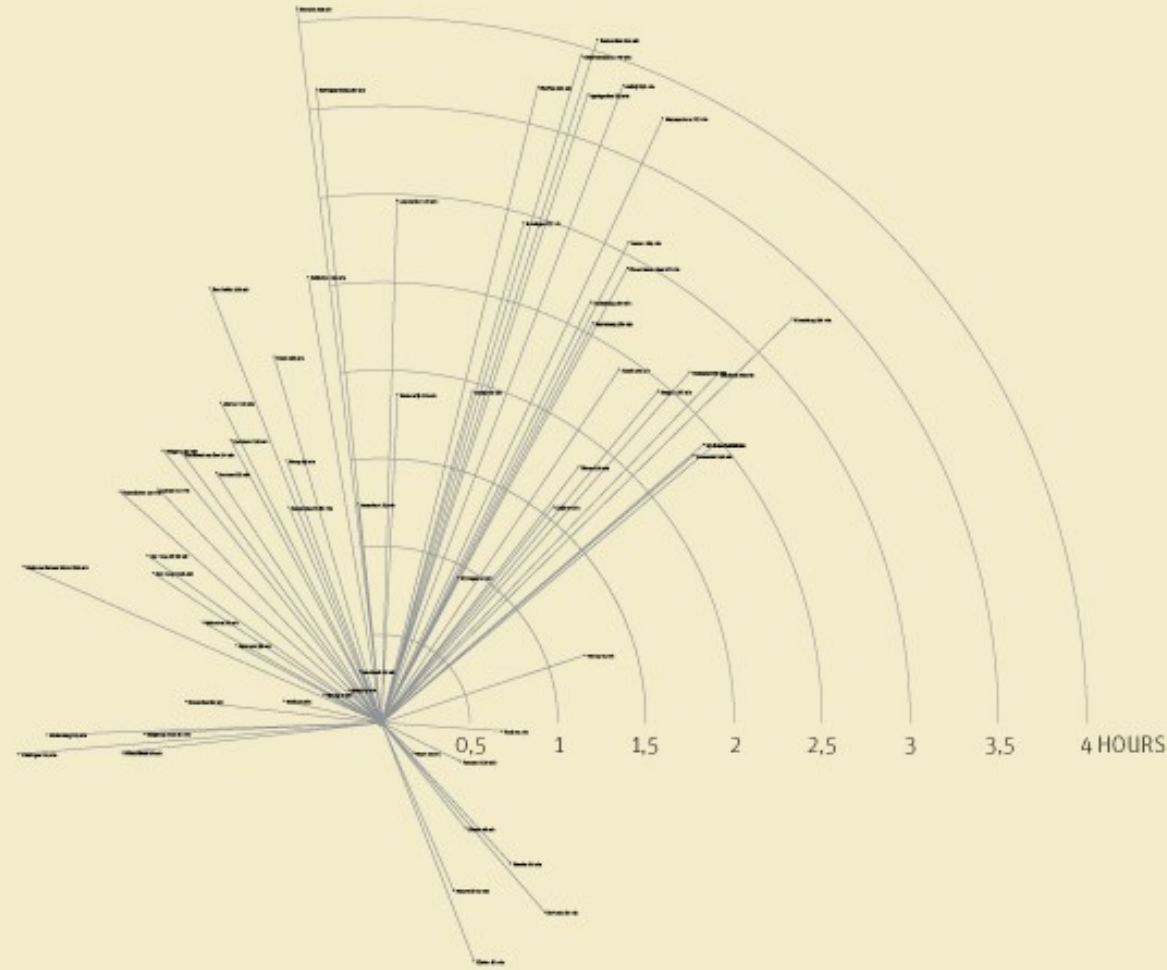
AMSTERDAM CENTRAAL

VRIJDAG, 11:07





NS MAP

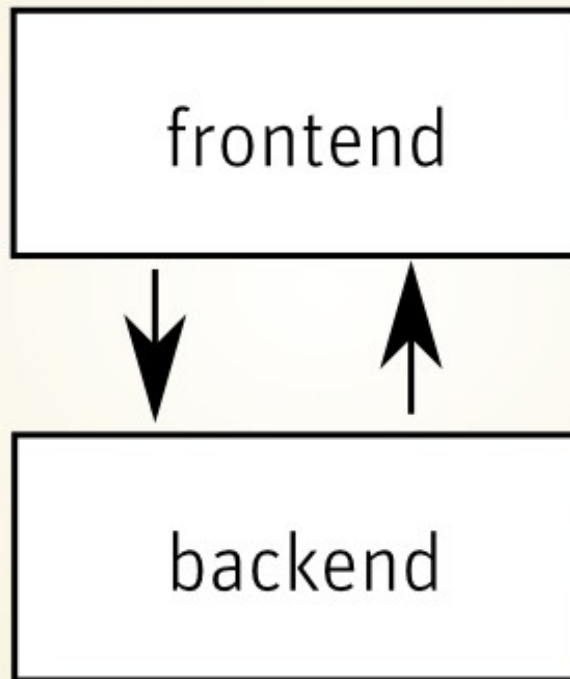


TIME DISTANCE

= travel time + downtime

TIMEMAPS
is powered by

HTML5 + Zotonic



TIMEMAPS
is powered by

HTML5 + Zotonic

frontend:
canvas + svg




```
/**
 * Islandweighted keeps the islands in a more sane shape.
 */
IslandWeighted: function()
{
    var _weighted = Algorithm.GridWeighted(2);
    return {

        prepareShapes: function(shapes, features)
        {
            _weighted.prepareShapes(shapes, features);
            $(shapes).each(function()
                {
                    this.island = this.points.length <= 20;
                    this.center = vec2d.center(this);
                });
        },

        correctPoints: function(shape, featuresByCode, which)
        {
            var prev = _weighted.correctPoints(shape, featuresByCode, which);
            if (!shape.island) {
                return prev;
            }

            var displacement = vec2d.diff(_weighted.correctSinglePoint(shape, 0,
nts[0]));

            var displaced = [];
            for (var i=0; i<shape.points.length; i++) {
```

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HTML5 + Zotonic



backend:

Erlang + NS API

```
%%=====
%% API
%%=====
%% @spec start_link() -> {ok,Pid} | ignore | {error,Error}
%% @doc Starts the server
start_link(Name, User, Password) ->
    gen_server:start_link({local, Name}, ?MODULE, {User, Password}, [])

%% @doc Do a API request to the NS API
request(Part, Args, Client) ->
    gen_server:call(Client, {request, nsname(Part), Args}).

%% @doc Maps a readable request name to the actual request name
nsname(vertrektijd) -> "ns-api-avt";
nsname(reisplanner) -> "ns-api-treinplanner";
nsname(C) -> throw({error, {unknown_api_call, C}}).

-define(NS_BASE, "http://webservices.ns.nl/").

%%=====
%% gen_server callbacks
%%=====

%% @spec init(Args) -> {ok, State} |
%%                  {ok, State, Timeout} |
%%                  ignore |
```

A big time matrix is built and kept up-to-date

Table "public.static_planning"

Column	Type	Modifiers
id	integer	not null
station_from	character varying(32)	not null
station_to	character varying(32)	not null
time	timestamp without time zone	not null
duration	integer	not null
ns	boolean	not null default true
fetchtime	timestamp without time zone	
spoor	character varying(32)	
aankomstvertraging	integer	
vertrekvertraging	integer	

The frontend gets "pairs" of travel time in JSON format

```
[ "std",  
  "amf",  
  "2011-10-30 13:13:00",  
  7440,  
  "2b" ]
```

<http://app.timemaps.nl/>

Thanks! :-)

Arjan Scherpenisse

@acscherp

<http://miraclethings.nl>

<http://github.com/arjan>