

# Location Search on World Wide Web

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## Chapter 1

# Piperpal Geolocation Search Engine

Piperpal (<https://www.piperpal.com/>) is a geolocation search engine where you can tag geolocation with a location on World Wide Web and your current geopoint with a mobile device such as the Google Pixel 7 smartphones with Android 13 using the Piperpal application <https://play.google.com/store/apps/details?id=com.piperpal.api.android> with full source code available under the MIT License on <https://www.github.com/piperpal/>



## Chapter 2

# Location-based Queries

The discussion of Location-based Queries began in 2005 at the International Conference on Web-Age Information Management (Searching the World Wide Web for Local Services and Facilities: A Review on the Patterns of Location-Based Queries, Asadi, 2005) with the newly introduction of GPS (Global Position Satellite) mobile support and new smartphones such as Apple iPhone, Blackberry and Google Android-based smart mobile devices with GPS support in 2008.



## Chapter 3

# Locationaware Content Tag: <location>,&location markup

I am introducing the new <location> tag and &<location> syntax for document markup of locationbased content in HTML by creating the Data Type Definition published on <http://github.com/location>

The new tag will make it easier for content providers to state that the HTML content they are publishing is geographically positioned and meant for indexing and displaying on services like Google Maps / Google Now. The motivation behind this work is new locationbased content retrieval, and would open a range of new ways to advertise geographically within a given radius and time interval.

### 3.1 Example: &concert

HTML Document with <location> tag with &concert example Daryl Hall & John Oates playing a concert at the Greek Theater at UC Berkeley. The location tag is &concert.





## Chapter 4

# Piperpal: Location-aware markup

My idea is that the content on a website is marked up according to a location tag and that this tag decides which content that is meant to be indexed and eligible for placing an ad on. The content producers would tag their content with a location tag, the advertisements mark up their catalog with location-aware radius ads, and the users can embed the ads in their posts with a new location tag syntax such as `&concert` that could be implemented by Google services such as Gmail and Google+.

### 4.1 Pseudo code for logic of search for nearby matches

```
if (notBefore < NOW() < notAfter || ((&UserLoc  
radius) < (geo) < (&UserLoc + radius)) → display
```

Piperpal is the first site that I am implementing for making a resource for location-based tags.

On <http://piperpal.com/> I added the form that lets the users insert the Name, Location, and Service parameter and pay by credit card (via Stripe) to add the entry. The mapping between the content produced by a content provider, the ad by the advertiser and the tagging by individual user is done on [www.piperpal.com/<location>](http://www.piperpal.com/<location>) where the location tag example for `<location>` would be `&concert` and the URI would be [www.piperpal.com/concert](http://www.piperpal.com/concert)



## Chapter 5

# MariaDB Database Structure

A MariaDB (<http://www.mariadb.org/>) database structure for our implementation of “Location Search on World Wide Web” is given as SQL instructions here:

**Listing 5.1:** Insert code directly in your document

---

```
1 CREATE TABLE piperpal (  
2     id MEDIUMINT(8) UNSIGNED NOT NULL AUTO_INCREMENT,  
3     name VARCHAR(100) NOT NULL DEFAULT '',  
4     service VARCHAR(1024) NOT NULL,  
5     location VARCHAR(1024) NOT NULL,  
6     modified TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE  
7         CURRENT_TIMESTAMP,  
8     created TIMESTAMP NULL DEFAULT NULL,  
9     glat DECIMAL(10, 8) NOT NULL,  
10    glon DECIMAL(11, 8) NOT NULL,  
11    paid MEDIUMINT(16) UNSIGNED NOT NULL,  
12    token VARCHAR(32) NOT NULL,  
13    type VARCHAR(32) NOT NULL,  
14    email VARCHAR(256) NOT NULL,  
15    PRIMARY KEY (id)  
);
```

---



## Chapter 6

# The Apache API mapping of “http://piperpal.com/concert”

```
RewriteEngine On  
RewriteRule ^([\s\AA09]+)$ /api/ [L]
```



## Chapter 7

# Piperpal API and jQuery representation of <http://piperpal.com/concert>

The API will query the user's link location and geolocation through the AJAX script and present a user with content in the nearest geographical proximity according to the Haversine formula.

Piperpal provides a jQuery function with a variable with a the list of all location entries for a given location tag nearby a geographical position for the device. This jQuery function can then be used by thirdparty developers who want to show all entries for a given locationbased tag entry accepted on piperpal.com





## Chapter 8

# Computing shortest Haversine distance

The distance along the surface of the (spherical) Earth between two arbitrary points, in degrees is determined by the Spherical Cosine Law, also known as the Haversine Formula. We use this law to compute the nearest entries on piperpal.com measured from the user's geolocation.



## Chapter 9

# The jQuery function on “http://piperpal.com/concert”

The jQuery function on “http://piperpal.com/concert”

```
$(function()
{ var locations = '{
  "locations" : [' + '
    {"id": "11884992",
      "name": "Løren",
      "service": "Food",
      "location": "https://www.loren.no/",
      "modified": "2023-07-04 12:00:00",
      "created": "2023-07-05 12:00:00",
      "glat": "59.92929197",
      "glon": "10.79022856",
      "paid": "0",
      "token": "tok_1NPYQRAGJ7jHvJPRPHRLaktB",
      "type": "card",
      "distance": "44.61835617894167",
      "email": "ole@aamot.software"},
    {"id": "11884996",
      "name": "@HappyJuly4th",
      "service": "Food",
      "location": "https://www.piperpal.com/Food/@HappyJuly4th",
      "modified": "2023-07-18 12:00:00",
      "created": "2023-07-25 12:00:00",
      "glat": "59.92929074",
      "glon": "10.79037934",
      "paid": "1",
      "token": "tok_1NQ1oDAGJ7jHvJPRGaiDmiKR",
      "type": "card",
```

```
"distance": "44.62663072803127",  
"email": "ole@aamotsoftware.no"]}]';
```

## Chapter 10

# Future Piperpal work

Convolutional Neural Net to group the nearby points. Plan to do lookups with a Convolution Neural Network [CNN] using a matrix with all of the entries within a radius away from the user's location for a given time as computed by a convolution matrix for the longitude and latitude.

Provide control panel that costs \$25 per year/usage.

Wizard to define service or offer.

Service Category

Example: Shoes or clothing. Sports clothing/shoes. Describe your service/offer:

Shoes

Example: Welcome to Oslo's largest flip flop offers.

Upload/Connect image, url, video, audio.

Decide amount of clicks and enter the email address for accessing statistics.

Payment: Stripe / Paypal / Google Wallet / Android Pay

Statistics



## Chapter 11

# Perl Module – Piperpal.pm

The software programming module for our implementation of “Location Search on World Wide Web” is given as dynamically loadable Perl5 (version 5.24.1) Module here:

**Listing 11.1:** Insert code directly in your document

---

```
1 package Piperpal;
2
3 # Copyright (C) 2015 Ole Aamot
4 #
5 # Author: oka@oka.no
6 #
7 # Date: 2015-08-22T16:45:00+01
8 #
9 # Field: Incremental, prime number, sql, perl
10 #
11 # URL: https://www.piperpal.com/Piperpal.pm
12
13 #####
14 # LOAD MODULES
15 #####
16 use strict;
17
18 use lib '/home/4/p/piperpal/share/perl/5.10.1/';
19 use warnings FATAL => 'all';
20
21 use 5.008001;
22 use Encode qw();
23
24 use HTTP::Request::Common;
25 use DBI;
26 use CGI;
27 # use LWP;
28 use WWW::Mechanize;
```

```

29 use JSON --support_by_pp;
30 use HTML::Entities;
31 use Math::Round;
32 use DateTime;
33
34 my @Piperpal;
35
36 BEGIN {
37     @Piperpal = qw{input_location input_publisher lns_item
38         lns_market_item is_valid is_paid initialize update_location
39         select_location}
40 }
41
42 sub get_locations {
43     my $c = CGI->new;
44     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
45         piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
46         , {'RaiseError' => 1});
47     $dbh->do ("SELECT DISTINCT name, glat, glon FROM yaylocation WHERE
48         paid >= '0' ORDER BY name;");
49     my $sth = $dbh->prepare ("SELECT DISTINCT name, glat, glon FROM
50         yaylocation ORDER BY name;");
51     $sth->execute();
52     while (my $ref = $sth->fetchrow_hashref()) {
53         if ('GET' eq $c->request_method && $c->param('locationservice'))
54             && $c->param('location')) {
55             if ($ref->{'name'} == $c->param('locationservice')) {
56                 print "<option_selected_value=" . $ref->{'glat'} . "," . $ref
57                     ->{'glon'} . ">" . $ref->{'name'} . "</option>";
58             } else {
59                 print "<option_value=" . $ref->{'glat'} . "," . $ref->{'glon'}
60                     . ">" . $ref->{'name'} . "</option>";
61             }
62         }
63     }
64     $sth->finish();
65     $dbh->disconnect();
66     return;
67 }
68
69 sub get_services {
70     my $c = CGI->new;
71     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
72         piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
73         , {'RaiseError' => 1});
74     $dbh->do ("SELECT DISTINCT service, name, glat, glon FROM piperpal_
75         ORDER BY service;");
76     my $sth = $dbh->prepare ("SELECT DISTINCT service, name, glat, glon_
77         FROM piperpal WHERE ORDER BY service;");
78     $sth->execute();
79     if ('GET' eq $c->request_method && $c->param('service')) {
80         while (my $ref = $sth->fetchrow_hashref()) {
81             if ($ref->{'service'} == $c->param('service')) {

```



```

70     print "<option_selected_value=" . $ref->{'glat'} . "," . $ref
71     ->{'glon'} . ">" . $ref->{'service'} . "</option>";
72   } else {
73     print "<option_value=" . $ref->{'glat'} . "," . $ref->{'glon'}
74     . ">" . $ref->{'service'} . "</option>";
75   }
76 }
77 $sth->finish();
78 $dbh->disconnect();
79 return;
80 }
81 sub input_searchers {
82   my @radiuses = (1,2,5,10,25,50,100,250,500,
83                 750,1000,1250,1500,2000,2500,
84                 3000,4000,5000, 6000,7000,8000,9000,10000,
85                 20000,
86                 40075);
87   my $r;
88   my $sth;
89   my $dbh;
90   my $c = CGI->new;
91   my $servicep;
92   print "<form_onsubmit='updateGeo()' _method='GET' _action='https://
93   www.piperpal.com/#results' _id='formID'>";
94   print '<table>';
95   if ('GET' eq $c->request_method && $c->param('query')) {
96     print '<tr><td><center><input_size="30" _type="text" _autofocus_class
97     ="input_form_custom" _id="query" _name="query" _placeholder="
98     Piperpal-search" _value="" . HTML::Entities::encode($c->param('
99     query')) . "' _autocomplete="query_webauthn" _/></center></td></
100    # $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
101    piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxxxx
102    ", {'RaiseError' => 1});
103    # $dbh->{'mysql_enable_utf8'} = 1;
104    # if ($c->param('query')) {
105    #     $sth = $dbh->prepare ("SELECT name,location ,service FROM
106    piperpal WHERE (name LIKE '%" . $c->param('query') . '%" OR
107    service LIKE '%" . $c->param('query') . "%') ORDER by modified
108    DESC;");
109    #     while (my $ref = $sth->fetchrow_hashref()) {
110    #         print '<tr><td></td><td>';
111    #         lns_item($ref->{'name'}, $ref->{'location'}, $ref->{'
112    service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'modified'},
113    $ref->{'created'}, $ref->{'distance_in_km'});
114    #         print '</td></tr>';
115    #     }
116    # }
117    # $sth->finish();
118    # $ref->{'name'}, $ref->{'location'}, $ref->{'service'}, $ref->{'
119    glat'}, $ref->{'glon'}, $ref->{'modified'}, $ref->{'created'},
120    $ref->{'distance_in_km'}

```

```

108     } else {
109     print '<tr><td><center><input_size="30" type="text" class="
        input_form_custom" id="query" name="query" placeholder="Where
        to think&quest;" /></center></td>';
110     print '<td><select_size="8" type="hidden" name="radius" id="radius"
        value="1000" class="input_form_custom">';
111     foreach $r (@radiuses) {
112         if ($c->param('radius')) {
113             if ($c->param('radius')==$r) {
114                 print "<option_value='" . $r . "' selected>In_ " . $r . "_km_
                    radius</option>";
115             } else {
116                 print "<option_value='" . $r . "'>In_ " . $r . "_km_radius</
                    option>";
117             }
118             } else {
119             if ($r == 5) {
120                 print "<option_value='" . $r . "' selected>In_ " . $r . "_km_
                    radius</optio>";
121             } else {
122                 print "<option_value='" . $r . "'>In_ " . $r . "_km_radius</
                    option>";
123             }
124             }
125         }
126     }
127     print '</select></td>';
128 }
129 print '<td>&nbsp;</td><td><input_type="submit" id="search" name="
        search" value="Go" /></td></tr></table>';
130 print "<span_id='status'><input_type='hidden' name='glat' /><input_
        type='hidden' name='glon' /></span>\n";
131 print "</form>";
132 print "<h3>Be_discovered_by_the_world_around_you</h3>";
133 print "<p><a_href='https://www.piperpal.com/google.html'>Submit_
        entries_in_Piperpal\'s_Location-aware_Search_Engine</a></p>";
134 #&Piperpal::input_publisher();
135 #&Piperpal::insert_publisher();
136 print "<p>Location_JavaScript_API:_<a_href='http://api.piperpal.com
        /location/'>Piperpal</p>";
137 print "<p>Mobile_Browsers:_<a_href='http://www.chromium.org/'>
        Chromium</a>,<a_href='http://www.mozilla.org/firefox'>Firefox
        </a>,<a_href='http://www.vivaldi.com/'>Vivaldi</a></p>";
138 print "<p><a_href='https://www.piperpal.com/?query=&radius=5&search
        =Go&service=Books&glat=55.6828273&glon=12.6082921#results'>
        Copenhagen</a>,<a_href='https://www.piperpal.com/?query=&
        radius=5&search=Go&service=Books&glat=37.419559&glon
        =-122.0897767#results'>Google_Visitor_Center</a>,<a_href='
        https://www.piperpal.com/?query=&radius=5&search=Go&service=
        Books&glat=51.5073219&glon=-0.1276474#results'>London</a>,<a_
        href='https://www.piperpal.com/?query=&radius=5&search=Go&
        service=Books&glat=40.6399278&glon=-73.7786925#results'>New_
        York</a>,<a_href='https://www.piperpal.com/?query=&radius=5&
        search=Go&service=Books&glat=48.8566969&glon=2.3514616#results

```

```

    ">Paris </a></p>';
139  print '<p>LLM: <a href="http://chat.openai.com/">ChatGPT</a>, <a href="https://ai.meta.com/llama2">Llama_2</a>, <a href="https://bard.google.com/">Bard</a>, <a href="http://ai.bing.com/">Bing</a></p>';
140  print '<p>Maps: <a href="http://maps.google.com/">Google_Maps</a>, <a href="http://www.openstreetmap.org/">Open_Street_Map</a>, <a href="http://www.bing.com/maps/">Bing_Maps</a>, <a href="http://maps.apple.com/">Apple_Maps</a></p>';
141  print '<p>Search: <a href="http://www.google.com/">Google</a>, <a href="http://www.duckduckgo.com/">DuckDuckGo</a>, <a href="http://www.bing.com/">Bing</a>, <a href="http://www.yahoo.com/">Yahoo!</a></p>';
142  }
143
144  sub input_publisher {
145
146      my $c = CGI->new;
147      print "<tr><td width='60'>&nbsp;</td><td><form onsubmit='updateGeo()&_id='welcomeForm&_name='welcomeForm&_action='https://api.piperpal.com/location/push.php&_method='POST'>";
148      print '<span class="input_form">';
149      print '';
150      if ($c->param('query')) {
151          print '<input type="text" id="name" class="input_form_custom" name="name" placeholder="Name" value=' . HTML::Entities::encode($c->param('query')) . '</>';
152      } else {
153          print '<input type="text" id="name" class="input_form_custom" name="name" placeholder="Name" />';
154      }
155      print '</span>';
156      print '</td></tr><tr><td width=60>&nbsp;</td><td>';
157      print '<span class="input_form">';
158      print '';
159      print '<input type="text" id="location" class="input_form_custom" name="location" placeholder="http://">';
160      print '</span>';
161      print '</td></tr><tr><td width=60>&nbsp;</td><td>';
162      print '<span class="input_form">';
163      print '';
164      print '</td></tr><tr><td width=60>';
165      print '<select id="simple-search-location" class="input-large_js-search-location" id="service" name="service" class="biginput">
option_value="Restaurant">Restaurant</option><option_value="Bar">Bar</option><option_value="Concert">Concert</option><option_value="Film">Film</option><option_value="Books">Books</option><option_value="Health">Health</option><option_value="Clothes">Clothes</option><option_value="Food">Food</option><option_value="Music">Music</option><option_value="Electronics">Electronics

```

```

        </option><option_value="Transport">Transport</option><option_
        value="Rental">Rental</option><option_value="Search">Search</
        option></select></td></tr>';
166     print '<input_type="text" _id="service" _name="service" _placeholder="
        Service">';
167     # print '<h3>News</h3>';
168     #print '<p><b>2021</b></p>';
169     #print '<p><i><a href="http://www.aamotsoftware.com/">Aamot
        Software</a>\`s second functional example of HTML with location
        tagging and fetching was stored on <a href="http://piperpal.
        com/cft/s/">http://piperpal.com/cft/s/</a></i></p>';
170     #print '<p><b>2020</b></p>';
171     #print '<p><i><a href="http://www.aamotsoftware.com/">Aamot
        Software</a>\`s Indexer for Piperpal written in the programming
        language Python can now recursively index location tags as
        specified on <a href="http://www.aamotsoftware.com/location.
        html">http://www.aamotsoftware.com/location.html</a> from web
        pages that are listed for such indexing on <a href="http://www.
        aamotsoftware.com/location-source.html">http://www.
        aamotsoftware.com/location-source.html</a></i></p>';
172     #print '<p><b>2015</b></p>';
173     #print '<p><i><a href="http://www.aamotsoftware.com/">Aamot
        Software</a>\`s first practical example of location tagging
        with Piperpal was stored on <a href="http://piperpal.com/Google
        ">http://piperpal.com/Google</a> at a lunch table with <a href
        ="http://www.norvig.com/">Peter Norvig</a> in the Google
        Visitor Center in Mountain View, California in 2015 where he
        mentioned crowd sourcing of location tags with a neural network
        filter as future work.</i></p>';
174     #print '<p><i><a href="http://www.aamotsoftware.com/">Aamot
        Software</a>\`s presentation for <a href="http://research.
        google.com/">Google Research</a>: <a href="http://www.piperpal.
        com/doc/3.0/Piperpal-Location-aware-ContentTag.pdf">Location-
        aware Content Tag: &lt;location&gt;,&location markup</a></p>';

175     print '<span_class="row_row-condensed_space-top-2_space-2">
176     <<span_class="col-sm-6">
177     <<<label_for="simple-search-tourin" _class="screen-reader-only">
178     <<<Tour_in
179     <<<</label>
180     <<<<input
181     <<<<id="simple-search-tourin "
182     <<<<type="text "
183     <<<<name="notBefore "
184     <<<<class="input-large_tourin_js-search-tourin "
185     <<<<placeholder="Not_Before">
186     <<<</span>
187     <<<<span_class="col-sm-6">
188     <<<<label_for="simple-search-tourout" _class="screen-reader-only">
189     <<<<Tour_out
190     <<<</label>
191     <<<<input
192     <<<<id="simple-search-tourout "
193     <<<<type="text "
194     <<<<type="text "

```

```

195 _____name="notAfter"
196 _____class="input-large_tourout_js-search-tourout"
197 _____placeholder="Not_After">
198 _____</span>
199 _____</span>';
200 # print '</span>';
201 print "<span_id='status_publisher'>\n";
202 # print "<span class='input_form_custom'>";
203 print "<input_id='glat' _class='input_form_custom' _type='text' _name
    ='glat' _placeholder='Latitude' _size=35_/>\n";
204 # print "<span class='input_form_custom'>
205 print "<input_id='glon' _class='input_form_custom' _type='text' _name
    ='glon' _placeholder='Longitude' _size=35_/>\n";
206 print "</span>\n";
207 print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
208 print '<span_class="send_form">';
209 print "<script_src='http://checkout.stripe.com/checkout.js' _class='
    stripe-button' _data-key='
    pk_live_9UbKhDJJWaAFnMjYQTBA8I9i00H8Z5eMmL' _data-amount='0' _
    data-name='Aamot_Software' _data-description='Piperpal_Entry_($0
    .01_USD)' _data-image='/img/Location_Icon.png'></script>";
210 # print '<input class="custom_send_button" type="submit" value="PAY
    WITH CARD">';
211 print '</span>';
212 print '</form>';
213 print '</td></tr>';
214
215 # print "<input type='hidden' name='c' value='INSERT' />\n";
216 # print "<table cellpadding=5><tr>";
217 # print "<td><a href='http://www.piperpal.com/Piperpal'><img
    border=0 width=16 height=16 src='js-icon.png' /></td>";
218 # print "<td><input size=16 type=text name=name class=biginput id=
    name placeholder='Name' /></td>\n";
219 # print "<td><input size=20 type=text name=location class=biginput
    id=location placeholder='http://' /></td>\n";
220 #print "<td><input size=16 type=text name=service class=biginput id
    =service placeholder='Service' /></td>\n";
221 #print "<span id='status'><input type='hidden' name='glat'
    placeholder='Latitude' size=16 /><input type='hidden' name='
    glon' placeholder='Longitude' size=16 /></span>\n";
222 # print "<td><form action='http://www.piperpal.com/checkout.php'
    method='POST'><script src='https://checkout.stripe.com/checkout
    .js' class='stripe-button' data-key='
    pk_live_odDlc1NMTUJdPN4WC2VTLvvu' data-amount='0' data-name='
    Aamot Software' data-description='1 Hour Programming/Support
    (10 cent)' data-image='/128x128.png'></script></td>";
223 # print "</tr>\n";
224 # print "</form>\n";
225
226
227 }
228
229 sub input_advertiser {
230

```

```

231 my $c = CGI->new;
232 print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
233 print "<table_cellpadding=5><tr>";
234 print "<td>Word</td><td><input_type=text_name=name_class=biginput_
      id=name_placeholder='Name'></textarea></td>\n";
235 print "<td><input_size=20_type=text_name=location_class=biginput_id
      =location_placeholder='http://' _/></td>\n";
236 print "<td><input_size=16_type=text_name=service_class=biginput_id=
      service_placeholder='Service' _/></td>\n";
237 # print '<td><span class="row row-condensed space-top-2 space-2">
238 # <span class="col-sm-6">
239 # <label for="simple-search-tourin" class="screen-reader-only">
240 # Tour in
241 # </label>
242 # <input
243 # id="simple-search-tourin "
244 # type="text "
245 # name="notBefore "
246 # class="input-large tourin js-search-tourin "
247 # placeholder="Not Before">
248 # </span>
249 # <span class="col-sm-6">
250 # <label for="simple-search-tourout" class="screen-reader-only">
251 # Tour out
252 # </label>
253 # <input
254 # id="simple-search-tourout "
255 # type="text "
256 # name="notAfter "
257 # class="input-large tourout js-search-tourout "
258 # placeholder="Not After">
259 # </span>
260 # </span>';
261 print "<span_id='status'><input_type='hidden' _name='glat' _
      placeholder='Latitude' _size=16_><input_type='hidden' _name='
      glon' _placeholder='Longitude' _size=16_></span>\n";
262 print "<td><form_action='https://api.piperpal.com/location/push.php
      _method='POST'><script_src='http://checkout.stripe.com/
      checkout.js' _class='stripe-button' _data-key='
      pk_test_EeI0KtKAXtAyW1ajpKukLZPm00ChuDtUP8' _data-amount='4500' _
      data-name='Aamot_Software' _data-description='1_Hour_Programming
      /Support_(45_USD)' _data-image='/img/Location_Icon.png'></script
      ></td>";
263 print "</tr>\n";
264 print "</form>\n";
265
266 }
267
268 sub Ins_item {
269 my $c = CGI->new;
270 # my $dbh = DBI->connect ("DBI:mysql:database=piperpalcom02;host=
      piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxxxx
      ", { 'RaiseError' => 1});
271

```

```

272     my $name = shift(@_);
273     my $location = shift(@_);
274     my $service = shift(@_);
275     my $glat = shift(@_);
276     my $glon = shift(@_);
277     my $modified = shift(@_);
278     my $created = shift(@_);
279     my $distance = shift(@_);
280
281     print "<tr><td_width=60>&nbsp;</td><td>";
282     print "<form_onsubmit='updateGeo()' '_id='lnsForm' '_name='lnsForm' '_
        action='https://api.piperpal.com/location/push.php' '_method='
        POST'>";
283 # print '<span class="name_form input_form">';
284 print "<location_name='\" . $name . \"' '_href='\" . $location . \"' '_
        service='\" . $service . \"' '_address='\" . $location . \"' '_lat='\" .
        $glat . \"' '_lon='\" . $glon . \"'><a_href='\" . $location . \"'><h2
        >\" . $name . \"</h2></a></location>";
285 # print "<h3>\" . nearest(0.1, $distance) . \" km away</h3>";
286 # print "<script type='text/javascript' lang='JavaScript'>";
287 # print "var latpoint = document.getElementById('glat');";
288 # print "var longpoint = document.getElementById('glon');";
289 # print "latpoint.value = position.coords.latitude;";
290 # print "longpoint.value = position.coords.longitude;";
291 # print "print latpoint.value;";
292 # print "print longpoint.value;";
293 # print "</script>";
294 # print "111.045*DEGREES(ACOS(COS(RADIANS(latpoint))*COS(RADIANS(
        glat))*COS(RADIANS(longpoint)-RADIANS(glon))+SIN(RADIANS(latpoint))
        *SIN(RADIANS(glat))))";
295 print "<table_valign='left'>";
296 print "<tr><td_width='60'>";
297 print '<a_href="/" . $name . "'><img_src="/img/Name_Icon.png" _title
        ="Name_of_Location-aware_Content_Tag" _height="70" _width="70"></
        a>';
298 print '</td><td><input_type="text" _id="\" . $name . \"' '_name="name" _
        placeholder="Name" _value="\" . $name . \"'></td></tr>';
299 # print '</span>';
300 # print '<br>';
301 # print '<span class="website_form input_form">';
302 print "<tr><td_width='60'>";
303 print '<a_href="\" . $location . "'><img_src="/img/Location_Icon.png
        " _title="URL_of_Location-aware_Content_Tag" _height="70" _width
        ="70"></a>';
304 print '</td><td><input_type="text" _id="\" . $name . \"' '_location' . \"'
        _name="location" _placeholder="http://" _value="\" . $location . \"'
        ">';
305 # print '</span>';
306 # print '<br>';
307 # print '<span class="service_form input_form">';
308 print "</td></tr><tr><td_width='60'>";
309 print '<a_href="/service/' . $service . "'><img_src="/img/
        Service_Icon.png" _title="Service_type_of_Location-aware_Content
        _Tag" _height="70" _width="70"></a></td><td>';

```

```

310     print '<input_type="text" _id="' . $name . '_service' . '" _name="
        service "_placeholder="Service "_value="' . $service . '">';
311     print "</td></tr><tr><td_width='60'>";
312     #     print '<span class="row row-condensed space-top-2 space-2">
313     #         <span class="col-sm-6">
314     #             <label for="simple-search-tourin" class="screen-reader-only">
315     #                 Tour in
316     #             </label>
317     #             <input
318     #                 id="datepicker"
319     #                 type="text"
320     #                 name="notBefore"
321     #                 class="input-large tourin js-search-tourin"
322     #                 placeholder="Not Before" value="' . $created . '">
323     #         </span>
324     #         <span class="col-sm-6">
325     #             <label for="simple-search-tourout" class="screen-reader-only">
326     #                 Tour out
327     #             </label>
328     #             <input
329     #                 id="datepicker"
330     #                 type="text"
331     #                 name="notAfter"
332     #                 class="input-large tourout js-search-tourout"
333     #                 placeholder="Not After" value="' . $modified . '">
334     #         </span>
335     #     </span>';
336     #     print '</span>';
337     print "</td></tr><tr><td_width='60'>";
338     print "<span_id='status_lns'>\n";
339     #     print "<span class='service_form input_form'>";
340     print "<img_src='/img/Latitude_Icon.png' _alt='Icon2' _height='70' _
        width='70'></td><td><input_id='" . $name . "_glat' _type='text' _
        name='glat' _placeholder='Latitude' _size=35 _value='" . $glat . "
        ' _/>\n";
341     print "</td></tr><tr><td_width='60'>";
342
343     #</span>\n";
344
345     #     print "<span class='input_form_custom'><img src='img/Latitude_Icon
        .png' alt='Icon2' class='icon_form' height='70' width='70'><input
        id='" . $name . "_glat' class='input_form_custom' type='text' name
        ='glat' placeholder='Latitude' size=32 value='" . $glat . "' /></
        span>\n";
346
347     #     print "<span class='service_form input_form'>
348     print "</td></tr><tr><td_width='60'>";
349     print "<img_src='/img/Longitude_Icon.png' _alt='Icon2' _height='70' _
        width='70'></td><td><input_id='" . $name . "_glon' _type='text' _
        name='glon' _placeholder='Longitude' _size=35 _value='" . $glon .
        "' _/>\n";
350     #</span>\n";
351
352     #     print "<span class='input_form_custom'><img src='img/

```



```

    Longitude_Icon.png' alt='Icon2' class='icon_form' height='70'
    width='70'><input id=''' . $name . "_glon" class='input_form_custom
    ' type='text' name='glon' placeholder='Longitude' size=32 value='''
    . $glon . "' /></span>\n";
353
354 print "</td></tr><tr><td width='60'>";
355 print "<input type='hidden' name='c' value='INSERT' />\n";
356 # print '<span class="send_form">';
357 # print "<script src='http://checkout.stripe.com/checkout.js' class
    ='stripe-button' data-key='pk_live_dg4Qj9EUNdnBicNW40nNoEJh' data-
    amount='0' data-name='Aamot Software' data-description='Piperpal
    Entry (1 dollar)' data-image='/img/Location_Icon.png'></script>";
358 # print '<input class="custom_send_button" type="submit" value="PAY
    WITH CARD">';
359 # print '</span>';
360 print "</td></tr>";
361 print "</table>";
362 # print "<form action='http://www.piperpal.com/checkout.php?name="
    . $name . "&service=" . $service . "' method='POST'>";
363 # print '<span class="name_form input_form">';
364 # print '';
365 # print '<input type="text" value="'' . $name . "' id="'' . $name .
    '" class="input_form_custom" name="name" placeholder="'' . $name
    . "'>';
366 # print '</span>';
367 # print '<br>';
368 # print '<span class="website_form input_form">';
369 # print '';
370 # print '<input type="text" value="'' . $location . "' id="location"
    class="input_form_custom" name="location" placeholder="'' .
    $location . "'>';
371 # print '</span>';
372 # print '<br>';
373 # print '<span class="service_form input_form">';
374 # print '';
375 # print '<input type="text" value="'' . $service . "' id="service"
    class="input_form_custom" name="service" placeholder="'' .
    $service . "'>';
376 # print '</span>';
377 # print "<span id='status_lns'>\n";
378 # print "<span class='service_form input_form'>";
379 # print '';
380 # print "<input id='glat' value=''' . $glat . "' class='
    input_form_custom' type='text' name='glat' placeholder=''' .
    $glat . "' size=16 /></span>\n";
381 # print "<span class='service_form input_form'>";
382 # print '';
383 # print "<input id='glon' value=''' . $glon . "' class='
    input_form_custom' type='text' name='glon' placeholder=''' .

```

```

    $glon . " ' size=16 /></span>\n";
384 # print "</span>\n";
385 # print "<input type='hidden' name='c' value='INSERT' />\n";
386 # print '<span class="send_form_item">';
387 # print "<script src='http://checkout.stripe.com/checkout.js' class
    ='stripe-button' data-key='pk_live_odDlc1NMTUJdPN4WC2VTLvvu'
    data-amount='500' data-name='Aamot Software' data-description
    =' ' . $service . " (5 USD)' data-image='/img/icon2.png'></
    script >";
388 # print '</span>';
389 # print '</form>';
390
391 }
392
393 sub lns_market_item {
394     my $c = CGI->new;
395     # my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxxxx
        ", { 'RaiseError' => 1});
396
397     my $name = shift(@_);
398     my $location = shift(@_);
399     my $service = shift(@_);
400     my $glat = shift(@_);
401     my $glon = shift(@_);
402     my $modified = shift(@_);
403     my $created = shift(@_);
404     my $distance = shift(@_);
405     print "<tr><td_width=60>&nbsp;&nbsp;&nbsp;</td><td>";
406     print "<form_onsubmit='updateGeo()' _id='lnsForm' _name='lnsForm' _
        action='https://api.piperpal.com/location/push.php' _method='
        POST'>";
407     # print '<span class="name_form input_form">';
408     print "<location_name=' " . $name . "' _href=' " . $location . "' _lat
        =' " . $glat . "' _lon=' " . $glon . "'><a_href=' " . $location . "
        '>";
409     print "<h4><a_href=' " . $location . "'> " . $name . "</a></h4></
        location>";
410     print "<h5_style='color: #aaaadd'> " . $service . "</h5>";
411     print "<h5> " . nearest(0.1, $distance) . " _km_away</h5>";
412     print "<h6><a_href=' " . $location . "'> " . $location . "</a></h6>";
413     # my $date = $created;
414     # my $long = $modified;
415     # my $dt = DateTime->now( time_zone => 'local' )->set_time_zone('
        floating');
416     # print "<p><b>Created: " . $dt->subtract_datetime($date) . " days
        ago<br />";
417     # print "Modified: "; print $dt->subtract_datetime($long) . " days
        ago</p>";
418     # print "<p><b>";
419     print "<table>";
420     print "<tr><td_width='60'>";
421     print '<a_href="/" . $name . "'><img_src="/img/Name_Icon.png" _title
        ="Name_of_Location-aware_Content_Tag" _height="70" _width="70"></

```

```

a>';
422     print '</td><td><input_type="text" id="' . $name . '" name="name"
placeholder="Name" value="' . $name . '"></td></tr>';
423 #   print '</span>';
424 #   print '<br>';
425 #   print '<span class="website_form input_form">';
426     print "<tr><td_width='60'>";
427     print '<a_href="' . $location . '"><img_src="/img/Location_Icon.png
_title="URL_of_Location-aware_Content_Tag" height="70" width
="70"></a>';
428     print '</td><td><input_type="text" id="' . $name . '_location' . '"
_name="location" placeholder="http://" value="' . $location . '"
">';
429 #   print '</span>';
430 #   print '<br>';
431 #   print '<span class="service_form input_form">';
432     print "</td></tr><tr><td_width='60'>";
433     print '<a_href="/service/' . $service . '"><img_src="/img/
Service_Icon.png" title="Service_type_of_Location-aware_Content
_Tag" height="70" width="70"></a></td><td>';
434     print '<select_id="simple-search-location" class="input-large js-
search-location" id="service" name="service" class="biginput">
option_selected_value="' . $name . ' . ' . $service . '">' .
$service . ' </option><option_value="Restaurant">Restaurant </
option><option_value="Bar">Bar </option><option_value="Concert">
Concert </option><option_value="Film">Film </option><option_value
="Books">Books </option><option_value="Health">Health </option><
option_value="Clothes">Clothes </option><option_value="Food">
Food </option><option_value="Music">Music </option><option_value
="Electronics">Electronics </option><option_value="Transport">
Transport </option><option_value="Rental">Rental </option></
select>';
435     print '<input_type="hidden" id="paid_' . $name . '_service' . '"
name="paid" placeholder="paid" value="0">';
436     print "</td></tr><tr><td_width='60'></td><td>";
437 #   print '<span class="row-condensed space-top-2 space-2">
438 #       <span class="col-sm-6">
439 #           <label for="simple-search-tourin" class="screen-reader-only">
440 #               Tour in
441 #           </label>
442 #           <input
443 #               id="datepicker"
444 #               type="text"
445 #               name="notBefore"
446 #               class="input-large tourin js-search-tourin"
447 #               placeholder="Not Before" value="' . $created . '">
448 #       </span>
449 #       <span class="col-sm-6">
450 #           <label for="simple-search-tourout" class="screen-reader-only">
451 #               Tour out
452 #           </label>
453 #           <input
454 #               id="datepicker"
455 #               type="text"

```

```

456 #         name="notAfter "
457 #         class="input-large tourout js-search-tourout"
458 #         placeholder="Not After" value="" . $modified . "">
459 #     </span>
460 # </span>';
461 #     print '</span>';
462 print "</td></tr><tr><td_width='60'>";
463 print "<span_id='status_lns'>\n";
464 #     print "<span class='service_form input_form'>";
465 print "<img_src='/img/Latitude_Icon.png' _alt='Icon2' _height='70' _
         width='70'></td><td><input_id='" . $name . "_glat' _type='text' _
         name='glat' _placeholder='Latitude' _size=35_value='" . $glat . "
         ' _/>\n";
466 #</span>\n";
467
468 #     print "<span class='input_form_custom'><img src='img/Latitude_Icon
         .png' alt='Icon2' class='icon_form' height='70' width='70'><input
         id='" . $name . "_glat' class='input_form_custom' type='text' name
         ='glat' placeholder='Latitude' size=32 value='" . $glat . "' /></
         span>\n";
469
470 #     print "<span class='service_form input_form'>
471 print "</td></tr><tr><td_width='60'>";
472 print "<img_src='/img/Longitude_Icon.png' _alt='Icon2' _height='70' _
         width='70'></td><td><input_id='" . $name . "_glon' _type='text' _
         name='glon' _placeholder='Longitude' _size=35_value='" . $glon .
         "' _/>\n";
473 #</span>\n";
474
475 #     print "<span class='input_form_custom'><img src='img/
         Longitude_Icon.png' alt='Icon2' class='icon_form' height='70'
         width='70'><input id='" . $name . "_glon' class='input_form_custom
         ' type='text' name='glon' placeholder='Longitude' size=32 value='"
         . $glon . "' /></span>\n";
476 print "</td></tr><tr><td_width='60'>";
477 print "<img_src='/img/Email_Icon.png' _alt='Icon2' _height='70' _width
         ='70'></td><td>";
478 print "<input_id='" . $name . "_expire' _type='text' _name='expire' _
         placeholder='' _size=35_value='" . $modified . "' _/>\n";
479 print "</td></tr><tr><td_width='60'>";
480 print "<img_src='/img/Phone_Icon.png' _alt='Icon2' _height='70' _width
         ='70'></td><td>";
481 print "<input_id='" . $name . "_expire' _type='text' _name='expire' _
         placeholder='' _size=35_value='" . $created . "' _/>\n";
         print "</td></tr><tr><td_width='60'>";
482 print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
483 #     print '<span class="send_form">';
484 #     print "<script src='http://checkout.stripe.com/checkout.js' class
         ='stripe-button' data-key='pk_live_dg4Qj9EUNdnBicNW40nNoEJh' data-
         amount='0' data-name='Aamot Software' data-description='Piperpal
         Entry (1 dollar)' data-image='/img/Location_Icon.png'></script>";
485 #     print '<input class="custom_send_button" type="submit" value="PAY
         WITH CARD">';

```

```

486 #   print '</span>';
487 print "</td></tr>";
488 print "</table>";
489 # print "<form action='http://www.piperpal.com/checkout.php?name="
      . $name . "&service=" . $service . "' method='POST'>";
490 # print '<span class="name_form input_form">';
491 # print '';
492 # print '<input type="text" value="" . $name . "' id="' . $name .
      '" class="input_form_custom" name="name" placeholder="" . $name
      . "'>';
493 # print '</span>';
494 # print '<br>';
495 # print '<span class="website_form input_form">';
496 # print '';
497 # print '<input type="text" value="" . $location . "' id="location"
      class="input_form_custom" name="location" placeholder="" .
      $location . "'>';
498 # print '</span>';
499 # print '<br>';
500 # print '<span class="service_form input_form">';
501 # print '';
502 # print '<input type="text" value="" . $service . "' id="service"
      class="input_form_custom" name="service" placeholder="" .
      $service . "'>';
503 # print '</span>';
504 # print "<span id='status_lns'>\n";
505 # print "<span class='service_form input_form'>";
506 # print '';
507 # print "<input id='glat' value="" . $glat . "' class='
      input_form_custom' type='text' name='glat' placeholder="" .
      $glat . "' size=16 /></span>\n";
508 # print "<span class='service_form input_form'>";
509 # print '';
510 # print "<input id='glon' value="" . $glon . "' class='
      input_form_custom' type='text' name='glon' placeholder="" .
      $glon . "' size=16 /></span>\n";
511 # print "</span>\n";
512 # print "<input type='hidden' name='c' value='INSERT' />\n";
513 # print '<span class="send_form_item">';
514 # print "<script src='http://checkout.stripe.com/checkout.js' class
      ='stripe-button' data-key='pk_live_odDlc1NMTUJdPN4WC2VTLvvu'
      data-amount='500' data-name='Aamot Software' data-description
      =' " . $service . " (5 USD)' data-image='/img/icon2.png'></
      script>";
515 # print '</span>';
516 # print '</form>';
517
518 }
519

```

```

520 sub is_valid {
521     my $location = shift;
522     my $ua = LWP::UserAgent->new;
523     my $result = $ua->request(GET $location);
524     print "is_valid.\n";
525     print_r($result);
526     return 0 if ($result==0);
527     return 1 if (($result==1)||($result==2));
528 }
529
530 sub is_paid {
531     my $c = CGI->new;
532     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , {'RaiseError' => 1});
533     if ('GET' eq $c->request_method && $c->param('paid') eq "1" && $c->
        param('query') && $c->param('location')) {
534     $dbh->do ("UPDATE_piperpal_SET_paid_=_paid_+_1,_modified_=_NOW()_
        WHERE_name_=_'" . HTML::Entities::encode($c->param('query')) .
        "'_and_location_=_'" . $c->param('location') . "'");
535     }
536     return;
537 }
538
539 sub delete_location {
540     my $c = CGI->new;
541     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , {'RaiseError' => 1});
542     if ('GET' eq $c->request_method && $c->param('c') eq "DELETE" && $c->
        param('query') && $c->param('location') && $c->param('service
        ')) {
543     $dbh->do ("DELETE_FROM_piperpal_WHERE_name_=_'" . $c->param('query'
        ) . "'_AND_location_=_'" . $c->param('location') . "'_AND_
        service_=_'" . $c->param('service') . "'");
544     }
545     return;
546 }
547
548 sub insert_location {
549     my $c = CGI->new;
550     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , {'RaiseError' => 1});
551     if ('GET' eq $c->request_method && $c->param('c') eq "INSERT" && $c->
        param('query') && $c->param('location') && $c->param('service
        ')) {
552     # $dbh->do ("INSERT IGNORE INTO piperpal (name, location, service,
        glat, glon, modified, created, paid, token, type, email) VALUES
        ('" . $c->param('query') . "', '" . $c->param('location') .
        "', '" . $c->param('service') . "', '" . $c->param('glat') .
        "', '" . $c->param('glon') . "', NOW(), NOW(), 1, '" . $c->param
        ('stripeToken') . "', '" . $c->param('stripeTokenType') . "', '"
        . $c->param('stripeEmail') . "') ON DUPLICATE KEY UPDATE

```

```

        modified = NOW() );
553     }
554     return;
555 }
556
557 sub insert_publisher {
558     my $c = CGI->new;
559     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , { 'RaiseError' => 1});
560     my $q;
561     if ($c->request_method == $c->param('c') == $c->param('query') ==
        $c->param('location') == $c->param('service')) {
562     my @tags = ($c->param('query') =~ m/(\w+)/g);
563     my $name = $c->param('query');
564
565     foreach my $tag (@tags)
566     {
567         next unless $tag =~ m/[a-zA-záâãä å æ é í
        óöø õ úü ũ ]/i;
568         $name =~ s/(&$tag){<a href="https://www.piperpal.com/register.
        cgi?name=$tag">&$tag</a>}g;
569     }
570     $q = "INSERT INTO piperpal (name, location, service, glat, glon,
        modified, created, paid, token, type, email) VALUES ('" . $name
        . "', '" . $c->param('location') . "', '" . $c->param('service')
        . "', '" . $c->param('glat') . "', '" . $c->param('glon') . "',
        NOW(), NOW(), 1, '" . $c->param('stripeToken') . "', '" . $c->
        param('stripeTokenType') . "', '" . $c->param('stripeEmail') . "
        ') ON DUPLICATE KEY UPDATE modified = NOW()";
571     print $q;
572     $dbh->do($q);
573     } else {
574     # print "Error in inserting data.";
575     }
576     return;
577 }
578
579 sub update_location {
580     my $c = CGI->new();
581     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , { 'RaiseError' => 1});
582     # $dbh->{'mysql_enable_utf8'} = 1;
583     if ($c->param('query')) {
584     my $sth = $dbh->prepare ("SELECT name, location, service FROM
        piperpal WHERE (name LIKE '%" . HTML::Entities::encode($c->
        param('query')) . "%' OR service LIKE '%" . HTML::Entities::
        encode($c->param('query')) . "%') ORDER BY modified DESC");
585     $sth->execute();
586     while (my $ref = $sth->fetchrow_hashref()) {
587         my @tags = ($ref->{'name'} =~ m/(\w+)/g);
588         foreach my $tag (@tags) {
589             next unless $tag =~ m/[a-zA-záâãä å æ é í

```

```

590         print "<form_method='POST' _action='adverts.cgi'>";
591         print "<td>Word:</td><td><input_type='name' _name='" . $tag
          . "'_value='" . $tag . "'_></td>";
592         print "</form>\n";
593     }
594 }
595 $sth->finish();
596 }
597 $dbh->disconnect();
598 return;
599 }
600
601 sub insert_advertiser {
602
603     my $c = CGI->new;
604     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , { 'RaiseError' => 1});
605     # $dbh->{'mysql_enable_utf8'} = 1;
606     if ('GET' eq $c->request_method && $c->param('c') eq "INSERT" && $c
        ->param('query') && $c->param('location') && $c->param('service
        ')) {
607
608         my $sth = $dbh->prepare ("UPDATE_piperpal_SET_location_=" . $c->
        param('location') . "' , _name_=" . HTML::Entities::encode($c->
        param('query')) . "' , _service_=" . $c->param('service') . "'_
        =" . $c->param('location') . "' , _service_=" . $c->param('
        service') . "_WHERE_name_=" . HTML::Entities::encode($c->
        param('query')) . "'");
609         $sth->execute();
610         while (my $ref = $sth->fetchrow_hashref()) {
611             if (is_paid($ref->{'location'})) {
612                 print "<pre>UPDATE:The_location_of_ " . $ref->{'name'} . "_ " .
                    $ref->{'location'} . "_is_a_paid_piperpal_location.</pre>\n
                    ";
613                 $dbh->do ("UPDATE_piperpal_SET_location_=" . https://www.piperpal
                    .com/index.cgi?name=" . $ref->{'name'} . "&service" . $ref
                    ->{'service'} . "&location=" . ($ref->{'location'}) . "&
                    paid=0' , _paid_=_paid_+1 , _modified_=_NOW()_WHERE_name_="
                    . $ref->{'name'} . "'");
614                 print "<pre>Paid_+1</pre>\n";
615             } else {
616                 print "<pre>UPDATE:The_location_of_ " . $ref->{'name'} . "_ " .
                    $ref->{'location'} . "_is_not_a_paid_piperpal_location.</
                    pre>\n";
617                 $dbh->do ("UPDATE_piperpal_SET_location_=" . https://www.piperpal
                    .com/index.cgi?name=" . $ref->{'name'} . "&service" . $ref
                    ->{'service'} . "&location=" . ($ref->{'location'}) . "&
                    paid=-1' , _paid_=_paid_-1 , _modified_=_NOW()_WHERE_name_="
                    . $ref->{'name'} . "'");
618                 print "<pre>Paid_-1</pre>\n";
619             }
620             $sth->finish();

```



```

621     }
622     }
623     $dbh->disconnect();
624     return;
625 }
626
627 sub select_publisher {
628     my $c = CGI->new;
629     my $q;
630     my $r;
631     my $s;
632     my $latitude;
633     my $longitude;
634     my $fp;
635     # my $fn = "/home/4/p/piperpal/pull.csv";
636     # my $string = "pull:" . $ENV{'REMOTE_ADDR'} . ":" . $q . "\n";
637     if ($c->param('query')) {
638         $q = HTML::Entities::encode($c->param('query'));
639         # open(FH, '>', $fn) or die $!;
640         # print FH $string;
641         # print $fp;
642         # close($fp);
643     } else {
644         $q = "GoogleVisitorCenter";
645     }
646     if ($c->param('service')) {
647         $s = $c->param('service');
648     } else {
649         $s = 'Search';
650     }
651     if ($c->param('radius')) {
652         $r = $c->param('radius');
653     } else {
654         $r = 10;
655     }
656     if ($c->param('glat')) {
657         $latitude = $c->param('glat');
658     } else {
659         # FIXME: READ LATITUDE FROM JAVASCRIPT
660         $latitude = $ENV{'position.coords.latitude'};
661         # 37.8790153;
662     }
663     if ($c->param('glon')) {
664         $longitude = $c->param('glon');
665     } else {
666         # FIXME: READ LONGITUDE FROM JAVASCRIPT
667         $longitude = $ENV{'position.coords.longitude'};
668         # -122.26242529999999;
669     }
670     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , {'RaiseError' => 1});
671     # $dbh->{'mysql_enable_utf8'} = 1;
672     my $query = "SELECT_name, location , glat , glon , modified , created , paid ,

```

```

        token , type , email_FROM_piperpal_WHERE_(name_LIKE_% " . HTML::
        Entities:: encode($c->param('query')) . "%')_ORDER_by_modified_
        DESC";
673 $query = "SELECT_DISTINCT_id , name , location , service , modified , created
        , glat , glon , paid , token , type , email , 3979*(ACOS(COS(RADIANS(
        latpoint))*COS(RADIANS(glat))*COS(RADIANS(longpoint)-RADIANS(
        glon))+SIN(RADIANS(latpoint))*SIN(RADIANS(glat))))_AS_
        distance_in_km_FROM_piperpal_JOIN_(SELECT_" . $latitude . "_
        AS_latpoint ,_" . $longitude . "_AS_longpoint)_AS_PON_1=1_WHERE
        (name_LIKE_% " . HTML:: Entities:: encode($c->param('query')) .
        "%')_HAVING_distance_in_km_<" . $r . "_ORDER_BY_distance_in_km
        _ASC ,_modified_DESC";
674 my $sth = $dbh->prepare ($query);
675 $sth->execute ();
676 print "<a_name='results'><a_href=\"https://www.piperpal.com/\"><img
        _src='/piperpal.png'_alt='piperpal.com_Logo'_width=\"320\"_
        align=center/></a><br/><h3><a_href=\"https://www.piperpal.com
        /\">Location_Search_Results</a></h3></a>";
677 print "<ol>";
678 print "<table>";
679 while (my $ref = $sth->fetchrow_hashref()) {
680     print "<tr><td_width='60'>&nbsp;&nbsp;&nbsp;</td><td>";
681     print "<form_onsubmit='updateGeo()'_method='GET'_action='https://
        www.piperpal.com/cft/s/'_id='formID'>";
682     lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{'service
        '}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'modified'}, $ref->{'
        'created'}, $ref->{'distance_in_km'});
683     print "<input_type='submit'_value='Submit_Location_for_" . $ref->{'
        name'} . "'>";
684     print "</form>";
685     print "</td></tr>";
686 }
687 print "</table>";
688 print "</ol>";
689 $sth->finish ();
690 $dbh->disconnect ();
691 return;
692 }
693
694 sub select_location {
695     my $c = CGI->new;
696     my $q;
697     my $r;
698     my $latitude;
699     my $longitude;
700     my $fp;
701     # my $fn = "/home/4/p/piperpal/pull.csv";
702     # my $string = "pull:" . $ENV{'REMOTE_ADDR'} . ":" . $q . "\n";
703     if ($c->param('query')) {
704         $q = HTML::Entities::encode($c->param('query'));
705         # open(FH, '>', $fn) or die $!;
706         # print FH $string;
707         # print $fp;
708         # close($fp);

```

```

709     } else {
710     $q = "GoogleVisitorCenter";
711     }
712     if ($c->param('radius')) {
713     $r = $c->param('radius');
714     } else {
715     $r = 1;
716     }
717     if ($c->param('glat')) {
718     $latitude = $c->param('glat');
719     } else {
720     $latitude = 37.8790153;
721     }
722     if ($c->param('glon')) {
723     $longitude = $c->param('glon');
724     } else {
725     $longitude = -122.26242529999999;
726     }
727     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , { 'RaiseError' => 1});
728 #     $dbh->{'mysql_enable_utf8'} = 1;
729
730 #     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx", {
        RaiseError' => 1});
731 #     $dbh->{'mysql_enable_utf8'} = 1;
732 #my $sth = $dbh->prepare ("SELECT DISTINCT id,name,service ,location
        , modified , created , glat , glon , paid , token , type , email,111.045*
        DEGREES(ACOS(COS(RADIANS(latpoint))*COS(RADIANS(glat))*COS(
        RADIANS(longpoint)-RADIANS(glon))+SIN(RADIANS(latpoint))*SIN(
        RADIANS(glat)))) AS distance_in_km FROM piperpal JOIN (SELECT
        " . $latitude . " AS latpoint , " . $longitude . " AS longpoint
        ) AS p ON 1=1 WHERE paid > '0' AND name LIKE '%" . $q . "%'
        HAVING distance_in_km < " . $r . " ORDER BY distance_in_km");
733 my $sth = $dbh->prepare ("SELECT DISTINCT name,location ,service ,
        glat , glon , modified , created , paid , token , type , email FROM piperpal_
        WHERE modified < NOW() and created > NOW() ORDER by modified_
        DESC, name ASC;");
734 $sth->execute();
735 while (my $ref = $sth->fetchrow_hashref()) {
736 #print "<h3><a href='https://www.piperpal.com/' . $ref->{'name'} .
        "'> . $ref->{'name'} . "</a></h3>";
737 print "<form_onsubmit='updateGeo()' _method='GET' _action='https://
        www.piperpal.com/cft/s/'_id='formID'>";
738 lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{'service'
        }, $ref->{'glat'}, $ref->{'glon'}, $ref->{'modified'}, $ref->{
        'created'});
739 print "<input_type='submit' _value='Submit_Location_for_' . $ref->{'
        name'} . "'>";
740 print "</form>\n";
741 }
742 $sth->finish();
743 $dbh->disconnect();

```

```

744     return;
745 }
746
747 sub select_market {
748     my $c = CGI->new;
749     my $q;
750     my $r;
751     my $latitude;
752     my $longitude;
753     if ($c->param('query')) {
754         $q = HTML::Entities::encode($c->param('query'));
755     } else {
756         $q = "GoogleVisitorCenter";
757     }
758     if ($c->param('radius')) {
759         $r = $c->param('radius');
760     } else {
761         $r = 25;
762     }
763     if ($c->param('glat')) {
764         $latitude = $c->param('glat');
765     } else {
766         $latitude = 37.8790153;
767     }
768     if ($c->param('glon')) {
769         $longitude = $c->param('glon');
770     } else {
771         $longitude = -122.26242529999999;
772     }
773     my $dbh = DBI->connect("DBI:mysql:database=piperpalcom02;host=
        piperpalcom02.mysql.domeneshop.no", "piperpalcom02", "xxxxxxx"
        , {'RaiseError' => 1});
774 #     $dbh->{'mysql_enable_utf8'} = 1;
775     my $query = "SELECT_name, location , service , glat , glon , modified ,
        created , paid , token , type , email_FROM_piperpal_WHERE_(name_LIKE_'%
        " . $q . "%'_OR_service_LIKE_'%" . $q . "%')_AND_paid_>'0'_
        ORDER_by_modified";
776     $query = "SELECT_DISTINCT_id , name , location , modified , created , glat ,
        glon , paid , token , type , email , 3979*(ACOS(COS(RADIANS(latpoint))*
        COS(RADIANS(glat))*COS(RADIANS(longpoint)-RADIANS(glon))+SIN(
        RADIANS(latpoint))*SIN(RADIANS(glat))))_AS_distance_in_km_FROM_
        piperpal_JOIN_(SELECT_ " . $latitude . "_AS_latpoint , " .
        $longitude . "_AS_longpoint)_AS_p_ON_1=1_WHERE_(name_LIKE_'%" .
        $q . "%')_HAVING_distance_in_km_<" . $r . "_ORDER_BY_
        distance_in_km , modified";
777     my $sth = $dbh->prepare ($query);
778     $sth->execute ();
779 #     print "</td></tr></table><table><tr><td>";
780     while (my $ref = $sth->fetchrow_hashref()) {
781         print "<form_onsubmit='updateGeo()' '_id='lnsForm '_name='lnsForm '_
            action='https://api.piperpal.com/location/push.php '_method='
            POST'>";
782 #     print "<table><tr><td width='60'>&nbsp;  </td><td>";
783     lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{'service

```

```
        }, $ref->{'glat'}, $ref->{'glon'}, $ref->{'modified'}, $ref->{
        'created'}, $ref->{'distance_in_km'}));
784  print "<input_type='submit'_value='Submit_Location_for_' . $ref->{'
        name'} . "'/>";
785  #  print "</td></tr></table>";
786  print "</form>";
787  }
788  print "</td></tr></table>";
789  $sth->finish();
790  $dbh->disconnect();
791  return;
792 }
```

---



## Chapter 12

# Query Interface on World Wide Web – [www.piperpal.com](http://www.piperpal.com)

Our working implementation of “Location Search on World Wide Web” is on <http://www.piperpal.com/>.

### 12.1 Source: <https://www.piperpal.com/index.cgi>

---

**Listing 12.1:** Insert code directly in your document

---

```
1 #!/usr/bin/perl
2
3 # Copyright (C) 2015, 2019 Aamot Software
4 #
5 # Author: ole@aamotsoftware.com
6 #
7 # Date: 2015-09-03T11:15:00+01
8 #
9 # Field: Incremental, location, sql, perl
10 #
11 # URL: https://www.piperpal.com/index.cgi
12
13 use strict;
14 use warnings;
15 use DBI;
16 use CGI qw/:standard/;
17 use CGI::Cookie;
18 use lib '..';
19 use Piperpal;
20
```

```

21 my $c = CGI->new;
22 print "Content-Type: _text/html\n\n";
23 print <<EOF;
24 <!DOCTYPE html>
25 <html lang="en">
26     <head>
27     <style>
28     #name label{
29     display: inline-block;
30     width: 100px;
31     text-align: right;
32     }
33     #name_submit{
34     padding-left: 100px;
35     }
36     #name_div{
37     margin-top: 1em;
38     }
39     textarea{
40     vertical-align: top;
41     height: 5em;
42     }
43
44     .error{
45     display: none;
46     margin-left: 10px;
47     }
48
49     .error_show{
50     color: red;
51     margin-left: 10px;
52     }
53
54     input.invalid , textarea.invalid{
55     border: 2px solid red;
56     }
57
58     input.valid , textarea.valid{
59     border: 2px solid green;
60     }
61 </style>
62 <meta property="al:android:app_name" content="Piperpal" />
63 <meta property="al:android:package" content="com.piperpal.api.
64     android" />
65 <meta property="al:android:url" content="https://www.piperpal.com/
66     Android" />
67
68 <!--[ if IE ]><![endif]-->
69 <meta charset="iso-8859-1">
70
71 <!--[ if IE 8 ]>
72     <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49
73     .css" media="all" rel="stylesheet" type="text/css" />
74 <![endif]-->
75 <!--[ if !(IE 8) ]><!-->

```



```

72     <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css
73         " media="all" rel="stylesheet" type="text/css" />
74     <!--<![endif]-->
75     <!--[if lt IE 9]>
76         <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c.
77             css" media="all" rel="stylesheet" type="text/css" />
78     <![endif]-->
79     <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
80         screen" rel="stylesheet" type="text/css" />
81     <!--[if IE 7]>
82     <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
83         media="screen" rel="stylesheet" type="text/css" />
84     <![endif]-->
85     <!--[if IE 6]>
86     <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
87         media="screen" rel="stylesheet" type="text/css" />
88     <![endif]-->
89     <!-- FIXME -->
90     <script type="text/javascript" src="https://www.piperpal.com/
91         piperpal-autocomplete-tours.php"></script>
92     <!-- FIXME -->
93     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
94         smoothness/jquery-ui.css">
95     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
96     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
97     <meta name="viewport" content="user-scalable=yes, _initial-scale
98         =1.0, _maximum-scale=3, _minimum-scale=0.5, _width=device-width">
99     <!--
100    <link rel="dns-prefetch" href="//maps.googleapis.com">
101    -->
102    <link rel="dns-prefetch" href="//maps.gstatic.com">
103    <link rel="dns-prefetch" href="//mts0.googleapis.com">
104    <link rel="dns-prefetch" href="//fonts.googleapis.com">
105    <link rel="dns-prefetch" href="//www.piperpal.com">
106    <title>piperpal.com – Location-based Search Engine</title>
107    <link href="my_style_form.css" type="text/css" rel="stylesheet" />
108    <link href='https://fonts.googleapis.com/css?family=Titillium+Web
109        :700' rel='stylesheet' type='text/css'>
110    <link href='https://fonts.googleapis.com/css?family=Titillium+Web'
111        rel='stylesheet' type='text/css'>
112    <meta charset="iso-8859-1" />
113    <script>
114    function price_changed() {
115        var priceWidget = document.getElementById('price');
116        var price = priceWidget.options[priceWidget.selectedIndex].
117            value;
118        var stripeSubmit = document.getElementsByClassName('stripe-
119            button-el')[0];
120        var regularSubmit = document.getElementById('regular-submit');
121        if (price > 0) {
122            stripeSubmit.style.display = 'inline-block';
123            regularSubmit.style.display = 'none';

```

```

114     } else {
115     stripeSubmit.style.display = 'none';
116     regularSubmit.style.display = 'inline-block';
117     }
118 }
119
120 function updateGeo() {
121     var glat = document.getElementById("glat");
122     var glon = document.getElementById("glon");
123
124     glat.value = position.coords.latitude;
125     glon.value = position.coords.longitude;
126
127     alert(glat+", "+glon);
128 }
129
130 function getWikipedia() {
131     jQuery(function($) {
132     $.getJSON('https://api.geonames.org/findNearbyWikipediaJSON?
        formatted=true&lat='+ position.coords.latitude +'&lng='+
        position.coords.longitude +'&username=username&style=full&lang=
        en&wikipediaUrl&thumbnailImg', function(json){
133
134         for(var i = 0; i < json.geonames.length; i++)
135         {
136         $("#wikipedia").prepend('<span_style="font-family:_geneva, _
            arial, _helvetica, _sans-serif;"><br><br><img_src="wikilogo.
            gif"><br>' + json.geonames[i].summary + '<br><a_href="https
            ://'+ json.geonames[i].wikipediaUrl +' "_target="_blank">' +
            json.geonames[i].wikipediaUrl + '</a><br></span>');
137         }
138     }); });
139 }
140
141 function submit() {
142     // Strip hijacks the form submit, so we need to un-hijack it.
143     var form = document.getElementById('form');
144     form.submit();
145 }
146 </script>
147 <meta http-equiv="Content-Type" content="text/html;_charset=iso
    -8859-1" >
148 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
149 <link href="//fonts.googleapis.com/css?family=Titillium+Web:300
    italic,400,700,400italic,600italic" rel="stylesheet" type="text
    /css">
150 <link href="//fonts.googleapis.com/css?family=Titillium+Web:300
    italic,400,700,400italic,600italic" rel="stylesheet" type="text
    /css">
151
152 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
    smoothness/jquery-ui.css">
153 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
154 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>

```

```

155
156 <script type="text/javascript" src="https://www.piperpal.com/jquery
      -1.9.1.min.js"></script>
157 <script type="text/javascript" src="https://www.piperpal.com/jquery
      .autocomplete.min.js"></script>
158 <!-- FIXME -->
159 <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete.php"></script>
160 <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-names.php"></script>
161 <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-services.php"></script>
162 <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-locations.php"></script>
163 <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-queries.php"></script>
164 <!-- FIXME -->
165 <meta name="viewport" content="user-scalable=yes,initial-scale
      =1.0,maximum-scale=3,minimum-scale=0.5,width=device-width">
166 <script>
167 \$(function() {
168 \$("#datepicker")\$.datepicker\(\)\;
169 \$("#simple-search-tourout")\$.datepicker\(\)\;
170 \}\)\;
171 </script>
172 <meta name="viewport" content="user-scalable=yes,initial-scale
      =1.0,maximum-scale=3,minimum-scale=0.5,width=device-width">

173 </head>
174 <body style="background:#ffffff;" onload="document.getElementById
      ('query').focus();">
175
176 <!--
177 <script type="text/javascript" src="https://maps.google.com/maps/
      api/js?sensor=true"></script>-->
178 <!--script type="text/javascript" src="https://maps.google.com/maps
      /api/js?sensor=false"--><!--/script-->
179 <script>
180 function success(position) {
181 var s = document.querySelector('#status');
182
183 if (s.className == 'success') {
184 // not sure why we're hitting this twice in FF, I think it's to
      do with a cached result coming back
185 return;
186 }
187
188 s.innerHTML = '<input_type=hidden_class="input_form_custom"
      name=glat_value=' + position.coords.latitude + '><input_
      type=hidden_class="input_form_custom"_name=glon_value=' +
      position.coords.longitude + '>';
189 s.className = 'success';
190
191 var q = document.querySelector('#status_publisher');

```

```

192
193   if (q.className == 'success') {
194       // not sure why we're_hitting_this_twice_in_FF,_I_think_it's to
195           do with a cached result coming back
196       return;
197   }
198   q.innerHTML = '<img_src="img/Latitude_Icon.png" _title="Latitude
        _of_Location-aware_Content_Tag" _class="icon_form" _height
        ="36" _width="36"><input_type=text_class="input_form_custom"
        _name=glat_size=16_value=' + position.coords.latitude + '
        /><br_/><img_src="img/Longitude_Icon.png" _title="Longitude_
        of_Location-aware_Content_Tag" _class="icon_form" _height
        ="36" _width="36"><input_type=text_class="input_form_custom"
        _name=glon_size=16_value=' + position.coords.longitude + '
        />';
199
200       // '<input_type=text_name=glat_size=16_value=' + position.
        coords.latitude + ' /><input_type=text_name=glon_size=16_
        value=' + position.coords.longitude + ' />';
201   q.className = 'success';
202
203   var r = document.querySelector('#status_lns');
204
205   if (r.className == 'success') {
206       // not sure why we're_hitting_this_twice_in_FF,_I_think_it's to
207           do with a cached result coming back
208       return;
209   }
210   r.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
        Latitude_of_Location-aware_Content_Tag" _class="icon_form" _
        height="36" _width="36"><input_type=text_class="
        input_form_custom" _name=glat_size=16_value=' + position.
        coords.latitude + ' /><br_/><img_src="img/Longitude_Icon.
        png" _title="Longitude_of_Location-aware_Content_Tag" _class
        ="icon_form" _height="36" _width="36"><input_type=text_class
        ="input_form_custom" _name=glon_size=16_value=' + position.
        coords.longitude + ' />';
211 // '<input_type=hidden_class="input_form_custom" _name=glat_value=' +
        position.coords.latitude + ' /><input_type=hidden_class="
        input_form_custom" _name=glon_value=' + position.coords.longitude +
        ' />';
212   r.className = 'success';
213
214   var mapcanvas = document.createElement('div');
215   mapcanvas.id = 'mapcanvas';
216   mapcanvas.style.height = '400px';
217   mapcanvas.style.width = '640px';
218
219   document.querySelector('article').appendChild(mapcanvas);
220
221   var latlng = new google.maps.LatLng(position.coords.latitude ,
        position.coords.longitude);

```

```

222     var myOptions = {
223     zoom: 15,
224     center: latlng ,
225     mapTypeControl: false ,
226     navigationControlOptions: {style: google.maps.
        NavigationControlStyle.SMALL},
227     mapTypeId: google.maps.MapTypeId.ROADMAP
228     };
229     var map = new google.maps.Map(document.getElementById("mapcanvas"),
        myOptions);

230
231     var marker = new google.maps.Marker({
232     position: latlng ,
233     map: map,
234     title: "You_are_here!_(at_least_within_a_" + position.
        coords.accuracy + "_meter_radius)"
235     });
236
237     var locations = [
238     [ 'Banja_Luka', 44.766666699999990000, 17.183333299999960000,
        4],
239     [ 'Tuzla', 44.532841000000000000, 18.670499999999947000, 5],
240     [ 'Zenica', 44.203439200000000000, 17.907743200000027000, 3],
241     [ 'Sarajevo', 43.850000000000000000, 18.250000000000000000, 2],
242     [ 'Mostar', 43.333333300000000000, 17.799999999999954000, 1]
243     ];
244
245     var infowindow = new google.maps.InfoWindow();
246
247     var marker, i;
248     for (i = 0; i < locations.length; i++) {
249     marker = new google.maps.Marker({
250     position: new google.maps.LatLng(locations[i][1], locations[i]
        ][2]),
251     map: map
252     });
253
254     google.maps.event.addListener(marker, 'click', (function (marker, i) {
255     return function () {
256     infowindow.setContent(locations[i][0]);
257     infowindow.open(map, marker);
258     }
259     })(marker, i));
260     }
261     }
262
263     function error(msg) {
264     // var s = document.querySelector('#status');
265     // s.innerHTML = typeof msg == 'string' ? msg : "failed";
266     // s.className = 'fail';
267
268     // console.log(arguments);
269     }
270

```

```

271 if (navigator.geolocation) {
272     navigator.geolocation.getCurrentPosition(success, error);
273 } else {
274     error('not_supported');
275 }
276
277 </script>
278
279 <center><table border='0'><tr><td valign='top' width='100%' align='
        center'><a href="https://www.piperpal.com/"><img src='/piperpal
        .png' alt='piperpal.com_Logo' width="320" align=center/></a></
        td></tr>
280
281 <div class="background_form">
282 EOF
283
284 print "<tr><td valign='top' width='100%' align='center'>";
285 #print "<h3>Discover the world around you in <span id='countdowntimer
        '></span> seconds</h3>";
286 print "<script type='text/javascript'>";
287 print "function increase(){";
288 print "    var counterElement=document.getElementById(\"
        countdowntimer\");";
289 print "    var counter=counterElement.textContent;";
290 print "    counter++;";
291 print "    counterElement.innerHTML=counter;";
292 print "    }";
293 print "    window.onload=increase;";
294 print "</script>";
295 #print "<h4>12 Million Locations at Your Fingertips</h4>";
296 #print "<label for='countdowntimer'>Location Search progress</label
        >";
297 #print "<progress id='countdowntimer' max='50'>10%</progress>";
298 #print "<script type='text/javascript' src='https://api.piperpal.com
        /location/json.php?service=Restaurant&glat=' + position.coords.
        longitude + '&glon=' + position.coords.longitude + '></script>\n
        ";
299 #print "<script language='JavaScript'>\n";
300 #print "var obj = JSON.parse(locations);\n";
301 #print "for (i=0; i < obj.locations.length; i++) {\n";
302 #print "document.write(\"<h1>\n" + obj.locations[i].name + "\n</h1><h2><a
        href='\" + obj.locations[i].location + \"'>\n" + obj.locations[i].
        location + "\n</a> (\n" + obj.locations[i].distance + "\n)</h2><h3>\n"
        + "\n" + obj.locations[i].service + "\n" + "\n</h3>\n");\n";
303 #print "<!--document.write(\"<p>\n" + obj.locations[i].distance + "\n</p>
        ><form method='GET' action='/search.php#results'><input type='text'
        name='name' placeholder='' value='\" + obj.locations[i].name +
        \"'/><input type='hidden' name='glat' value='\" + obj.locations[i].
        glat + \"' /><input type='hidden' name='glon' value='\" + obj.
        locations[i].glon + \"'/><span id='geopher'></span><select name='
        service'><option value='Food'>Food</option><option selected value='
        Search'>Search</option></select><input type='submit' value='Search'
        /><br />\n"); -->\n";
304 #print "}\n";

```

```

305 #print "</script>\n";
306 #print "<h3>It\'s not where you\'re from, it\'s where you\'re at</h3>";
307 #print "<p><a href=\'https://www.piperpal.com/tutorial/\>Piperpal 4.0
    Tutorial</a></p>";
308 # print "<p>The Piperpal implementation of Location Search for World
    Wide Web<br />is described in <a href=\'https://www.piperpal.com/
    thesis.pdf\>https://www.piperpal.com/thesis.pdf</a> ready for
    2026.</p>";
309 &Piperpal::input_searchers($c);
310 # print "<a name=\'results\'><a href=\'https://www.piperpal.com/\><img
    src=\'/piperpal.png\' alt=\'piperpal.com Logo\' width=\'320\' align=
    center/></a><br />
311 #<h3><a href=\'https://www.piperpal.com/\>Location Search Results</a
    ></h3></a>";
312 &Piperpal::select_publisher();
313 print "<br_>";
314 print "<br_>";
315 print "<br_>";
316 print "<br_>";
317 print "<br_>";
318 print "<p>You could markup with <location>_tag_in_<a href=\'https
    ://www.w3.org/wiki/HTML/next#.3Clocation.3E_element_.28like_.29
    _for_expressing_geo_information.2C_eg_with_attributes_lat.2C_long.2
    C_altitude\'>HTML</a><br_>";
319 print "<a href=\'https://www.aamotsoftware.com/location.html\>https://
    www.aamotsoftware.com/location.html</a></p>";
320 print "<p><a href=\'https://www.stripe.com/\><img alt=\'Powered by_
    stripe\'_src=\'/powered_by_stripe.png\'></a>&nbsp;<a href=\'https
    ://play.google.com/store/apps/details?id=com.piperpal.api.android&
    pcampaignid=MKT-Other-global-all-co-prtnr-py-PartBadge-Mar2515-1\'><
    img alt=\'Get it on Google Play\'_src=\'/google-piperpal.png\'></a
    ></p>";
321 print "<p>Copyright &copy; 2015–2023_<location_name=\'Aamot_Software\'_
    href=\'https://www.aamotsoftware.com/\>_lat=\'37.4219999\'_lon
    =\'-122.0862462\'_service=\'Electronics\'>Aamot_Software</location><br_
    /><location_name=\'Piperpal\'_href=\'https://www.piperpal.com/\>_lat
    =\'59.94215220\'_lon=\'10.71697530\'_service=\'Crawler\'>Oslo ,_Norway</
    location>_<location_name=\'Piperpal\'_href=\'https://www.piperpal.
    com/\>_lat=\'37.879015\'_lon=\'-122.262425\'_service=\'Crawler\'>Berkeley ,
    _California ,_USA</location></p>";
322 #print "<h2>Wikipedia Location-aware Content</h2>";
323 #&Piperpal::insert_wikipedia();
324 #print "</td></tr><tr><td valign=\'top\' width=512>";
325 #print "<h3>Be discovered by the world around you</h3>";
326 #print "<p>Submit entries in Piperpal\'s Location-aware Search Engine</
    p>";
327 #&Piperpal::input_publisher();
328 #&Piperpal::insert_publisher();
329 print '<h3>News</h3>';
330 print '<p><b>2023</b></p>';
331 print '<p><a href=\'https://piperpal.com/\>Piperpal</a>\'s_Where_do_you
    think?_feature_is_now_active_._You_need_a_VISA/MasterCard_to_add_
    new_locations_at_$0.01_USD_at_<a href=\'https://www.piperpal.com/
    google.html\>https://www.piperpal.com/google.html</a></p>';

```

```

332 print '<a_href="https://www.piperpal.com/"><img_src="/piperpal.png" _alt
      ="piperpal.com_Logo" _width="320" _align="center/"></a><form_id="form
      "_method="GET" _action="https://www.piperpal.com/cft/s/"><table><tr
      ><td>Text: <input_id="name" _type="text" _name="name" _placeholder="
      Example: &HappyJuly4th" _size="24" _/><span_class="error">This_field_
      is_required</span></td></tr><tr><td>Email: <input_id="email" _type="
      text" _name="email" _placeholder="your.name@gmail.com" _/><span_class
      ="error">This_field_is_required</span></td></tr><tr><td>Service: <
      select_id="service" _name="service"><option_value="Restaurant">
      Restaurant</option><option_value="Bar">Bar</option><option_value="
      Concert">Concert</option><option_value="Film">Film</option><option_
      value="Books">Books</option><option_value="Health">Health</option><
      option_value="Clothes">Clothes</option><option_value="Food">Food</
      option><option_value="Music">Music</option><option_value="
      Electronics">Electronics</option><option_value="Transport">
      Transport</option><option_value="Rental">Rental</option></select></
      td></tr><tr><td>Location: <input_type="text" _name="location" _
      placeholder="https://yourwebsite.com/" _/></td></tr><tr><td>
      Latitude: <input_type="text" _name="glat" _value="37.4375596"></td></
      tr><tr><td>Longitude: <input_type="text" _name="glon" _value
      ="-122.11922789999998"></td></tr><tr><td>Payment( ): <input_
      type="currency" _name="paid" _value="1" _placeholder="Type_a_price"></
      td></tr><tr><td><input_type="submit" _name="Submit" _value="Submit" _
      /></td></tr></table></form>';
333 print '<p><b>2022</b></p>';
334 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_Software</a>\'
      s_Location_Entries_can_be_ordered_for_$0.42_USD_per_location_at_<a_
      href="https://www.piperpal.com/cft/s/">https://www.piperpal.com/cft
      /s/</a>';
335 print '<p><b>2021</b></p>';
336 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_Software</a>\'
      s_second_functional_example_of_HTML_with_location_tagging_and_
      fetching_was_stored_on_<a_href="https://piperpal.com/google.html">
      https://piperpal.com/cft/s/</a></p>';
337 print '<p><b>2020</b></p>';
338 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_Software</a>\'
      s_Indexer_for_Piperpal_written_in_the_programming_language_Python_
      can_now_recursively_index_location_tags_as_specified_on_<a_href="
      https://www.aamotsoftware.com/location.html">https://www.
      aamotsoftware.com/location.html</a>_from_web_pages_that_are_listed_
      for_such_indexing_on_<a_href="https://www.aamotsoftware.com/
      location-source.html">https://www.aamotsoftware.com/location-source
      .html</a></p>';
339 print '<p><b>2015</b></p>';
340 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_Software</a>\'
      s_first_practical_example_of_location_tagging_with_Piperpal_was_
      stored_on_<a_href="https://piperpal.com/Googleplex">https://
      piperpal.com/Googleplex</a>_at_a_lunch_table_with_<a_href="https://
      www.norvig.com/">Peter_Norvig</a>_in_the_Googleplex_in_Mountain_
      View,_California_in_2015_where_he_mentioned_crowd_sourcing_of_
      location_tags_with_a_neural_network_filter_as_future_work.</p>';
341 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_Software</a>\'
      s_presentation_for_<a_href="https://research.google.com/">Google_
      Research</a>: <a_href="https://www.piperpal.com/doc/3.0/Piperpal-

```



```
        Location-aware-ContentTag.pdf">Location-aware_Content_Tag:_&lt;
        location&gt;,&location_markup</a></p>';
342 #<tr><td width=60>&nbsp;</td><td><p>Copyright &copy; 2015–2022 <a href
    ='https://www.aamotsoftware.com/'>Ole Aamot Software</a>";
343 print "</td></tr></table>\n";
344 #print "<p>Copyright &copy; 2018 <a href=\"https://www.aamotsoftware.
    com/\">Ole Aamot Software</a></p>";
345 print "</body>\n</html>\n";
```

---



## Chapter 13

# Query Interface API on World Wide Web – api.piperpal.com

### 13.1 Source: <https://api.piperpal.com/index.php>

Listing 13.1: Insert code directly in your document

---

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <script src="http://code.jquery.com/jquery-latest.min.js"></script>
5     <meta charset="utf-8">
6     <title>Piperpal</title>
7   </head>
8   <body>
9     <div id="log"></div>
10    <script>
11      $(document).ready(function () {
12
13        setInterval(function () {
14
15          if (navigator.geolocation) {
16            navigator.geolocation.getCurrentPosition(
17              ajaxCall);
18          } else {
19            $('#log').html("GPS_is_not_available");
20          }
21
22          function ajaxCall(position){
23
24            var latitude = position.coords.latitude;
25            var longitude = position.coords.longitude;
```

```

25     var location = window.location.pathname.substr
26         (1);
27     var queryString = window.location.search;
28     var urlParams = new URLSearchParams(
29         queryString);
30     // alert(queryString+":("+latitude+", "+
31         longitude+")");
32     $.ajax({
33         url: "https://api.piperpal.com/pull.php",
34         type: 'POST', //I want a type as
35             POST
36         data: { 'glat' : latitude, 'glon' :
37             longitude, 'location' : location,
38             'name' : urlParams.get('name'), '
39             service' : urlParams.get('service'
40             ), 'radius' : urlParams.get('
41             radius' ) },
42         success: function(response) {
43             $('#log').html(response);
44             // alert(response);
45         }
46     });
47     },15000);
48
49     });
50 </script>
51 <h2>Documentation</h2>
52 <h3>Location JavaScript API</h3>
53 <h4>Pull</h4>
54 <pre>
55     &lt;script type="text/javascript" src="https://api.piperpal.com
56         /location/json.php?service=Books&glat=37.4375596&glon
57         =-122.1192278999998"&gt;&lt;/script&gt;
58 </pre>
59 <h4>Push</h4>
60 <pre>
61     <span style="color: _#ff0000">Example</span>
62     https://api.piperpal.com/location/push.php?name=<span style="
63     color: _#ff0000">Google</span>&location=<span style="color: _#
64     ff0000">http://www.google.com/</span>&service=<span style=
65     "color: _#ff0000">Books</span>&glat=<span style="color: _#
66     ff0000">37.4375596</span>&glon=<span style="color: _#ff0000"
67     >-122.1192278999998</span>&paid=<span style="color: _#
68     ff0000">50</span>
69 </pre>
70 <p>&copy; 2022 Aamot Software</p>
71 </body>
72 </html>

```

---

## 13.2 Source: <https://api.piperpal.com/pull.php>

Listing 13.2: Insert code directly in your document

```

1
2 <?php
3 $db = mysqli_connect("piperpal.mysql.domeneshop.no","piperpal",
4     "xxxxxxx","piperpal");
5 $query = "SELECT DISTINCT id,name,service,location,modified,created,
6     glat,glon,paid,token,type,email,111.045*DEGREES(ACOS(COS(RADIANS(
7     latpoint))*COS(RADIANS(glat))*COS(RADIANS(longpoint)-RADIANS(glon))
8     +SIN(RADIANS(latpoint))*SIN(RADIANS(glat)))) AS distance_in_km FROM
9     piperpal JOIN (SELECT " . $_POST['glat'] . " AS latpoint," .
10    $_POST['glon'] . " AS longpoint) AS p ON 1=1 WHERE name = " .
11    $_POST['name'] . "% OR service LIKE " . $_POST['service'] . "%
12    HAVING distance_in_km < " . $_POST['radius'] . " ORDER BY
13    distance_in_km ASC, modified DESC";
14 $result = $db->query($query);
15 $num_coords = mysqli_num_rows($result);
16 if ($num_coords == 0) {
17     print "<form onSubmit='updateGeo()' id='lnsForm' name='lnsForm'
18         action='https://www.piperpal.com/checkout.php' method='POST'>";
19     print "<input type='hidden' name='c' value='INSERT' />\n";
20     print "<table cellpadding=5><tr>";
21     print "<td><a href='http://piperpal.com/' . $_POST['name'] . "'><
22         img border=0 width=16 height=16 src='/js/icon.png' /></td>";
23     print "<td><input size=16 type=text name=name class=biginput id=
24         name_placeholder='Name' value=' " . $_POST['name'] . "' /></td>\n";
25     print "<td><input size=20 type=text name=location class=biginput id=
26         location_placeholder='http://' value=' " . $_SERVER['
27         HTTP_REFERER'] . "' /></td>\n";
28     print "<td><input size=16 type=text name=service class=biginput id=
29         service_placeholder='Service' value=' " . $_POST['service'] . "'
30         /></td>\n";
31     print "<div id='status'><input type='hidden' name='glat'
32         placeholder='Latitude' size=16 value=' " . $_POST['glat'] . "'
33         /><input type='hidden' name='glon' placeholder='Longitude' size
34         =16 value=' " . $_POST['glon'] . "' /></div>\n";
35     print "<td><form action=' " . $_POST['service'] . "' method='POST'><script
36         src='https://checkout.stripe.com/checkout.js' class='stripe-button'
37         data-key='pk_live_9UbKhDJJWaAFnMjYQTBA8I9i00H8Z5eMmL' data-amount='43'
38         data-name='Aamot Software' data-description='Piperpal & " .
39         $_POST['name'] . "%' " . $_POST['service'] . "' data-image='
40         /128x128.png'></script></td>";
41     print "</tr>\n";
42     print "</form>\n";
43 } else {

```

```
20     print "var_locations={\`\"locations\`\":\`[\`+\`]";
21     while($object = mysqli_fetch_object($result)) {
22         print "===={\`id:\`" . $object->id . "\`,`name:\`" . $object->name .
           "\`,`service:\`" . $object->service . "\`,`location:\`" . $object
           ->location . "\`,`modified:\`" . $object->modified . "\`,`created
           :\`" . $object->created . "\`,`glat:\`" . $object->glat . "\`,`
           glon:\`" . $object->glon . "\`,`distance:\`" . $object->
           distance_in_km . "\`,`paid:\`" . $object->paid . "\`,`token:\`" .
           $object->token . "\`,`type:\`" . $object->type . "\`,`email:\`"
           . $object->email . "\`}\`\\n";
23     }
24     print "]]";
25 }
26 ?>
```

---

## Chapter 14

# Location Search on World Wide Web – www.piperpal.com/location

### 14.1 Source: <https://www.piperpal.com/location/index.html>

Listing 14.1: Insert code directly in your document

---

```
1 <html>
2 <body onload="updateGeo();">
3   <h1>Location</h1>
4   <script>
5     pt>
6     var x = document.getElementById("demo");
7     function getLocation() {
8       if (navigator.geolocation) {
9         navigator.geolocation.getCurrentPosition(showPosition);
10      f();
11     } else {
12       x.innerHTML = "Geolocation is not supported by this browser.";
13     }
14   }
15   function f() {
16     // Update every 1 ms seconds
17     var options = {enableHighAccuracy: true, timeout: 5000, maximumAge:
18       0, desiredAccuracy: 0, frequency: 1 };
19     watchID = navigator.geolocation.watchPosition(onSuccess, onError,
20       options);
21     getLocation();
22   }
```

```

21     function showPosition(position) {
22         x.innerHTML = "Latitude:_" + position.coords.latitude +
23             "<br>Longitude:_" + position.coords.longitude;
24         window.location.href="https://www.piperpal.com/location/?glat=" +
            position.coords.latitude + "&glon=" + position.coords.longitude
            ;
25     }
26 </script>
27 <script type="text/javascript" src="https://api.piperpal.com/location
    /json.php?service=Restaurant&glat='_'+_position.coords.longitude+_
    '&glon='_'+_position.coords.longitude+'_"></script>
28 <script language="JavaScript">
29     var obj = JSON.parse(locations);
30     for (i=0; i < obj.locations.length; i++) {
31         document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='
            " + obj.locations[i].location + ">" + obj.locations[i].
            location + "</a>_" + obj.locations[i].distance + ")</h2><h3>"
            + "_" + obj.locations[i].service + "_" + "</h3>\n");
32         <!--document.write("<p>" + obj.locations[i].distance + "</p><
            form_method='GET'_'_action='/search.php'><input_type='text'_'_
            name='name'_'_placeholder='''_'_value='_' + obj.locations[i].name
            + "'/><input_type='hidden'_'_name='glat'_'_value='_' + obj.
            locations[i].glat + "'/><input_type='hidden'_'_name='glon'_'_
            value='_' + obj.locations[i].glon + "'/><span_id='geopher
            '></span><select_name='service'><option_value='Food'>Food</
            option><option_selected_value='Search'>Search</option></
            select><input_type='submit'_'_value='Search'_'/><br_>"); -->
33     }
34 </script>
35 <location name="Berkeley" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
36 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/">
37     <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a
        href="http://piperpal.com/">Piperpal</a>.</p>
38 </location>
39 </body>
40 </html>

```

## 14.2 Source: <https://www.piperpal.com/location/location.html>

Listing 14.2: Insert code directly in your document

```

1 <script type="text/javascript" src="https://api.piperpal.com/location/
    json.php?service=Books&glat='_'+_position.coords.longitude+_&glon

```



```

    ='_+position.coords.longitude_+'></script>
2 <script language="JavaScript">
3 var obj = JSON.parse(locations);
4 for (i=0; i < obj.locations.length; i++) {
5     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='"
        + obj.locations[i].location + "'>" + obj.locations[i].location
        + "</a>(" + obj.locations[i].distance + ")</h2><h3>" + "_" +
        obj.locations[i].service + "_" + "</h3>\n");
6     <!--document.write("<p>" + obj.locations[i].distance + "</p><form_
        method='GET' _action='/search.php'><input_type='text' _name='name'
        _placeholder='' _value='" + obj.locations[i].name + "'><input_
        type='hidden' _name='glat' _value='" + obj.locations[i].glat + "'_
        /><input_type='hidden' _name='glon' _value='" + obj.locations[i].
        glon + "'><span_id='geopher'></span><select_name='service'><
        option_value='Food'>Food</option><option_selected_value='Search
        '>Search</option></select><input_type='submit' _value='Search'_
        /><br_>"); -->
7 }
8 </script>
9 <location name="Berkeley" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
10 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/">
11 <p>Check out <a href="https://www.geopher.com/paloalto.html">Palo Alto
    </a> and <a href="http://piperpal.com/">Piperpal</a>.</p>
12 </location>
13
14 <!DOCTYPE html>
15 <html lang="en">
16     <head>
17         <meta property="al:android:app_name" content="Piperpal" />
18         <meta property="al:android:package" content="com.piperpal.api.
            android" />
19         <meta property="al:android:url" content="https://www.piperpal.com/
            Android" />
20         <!--[if IE]><![endif]-->
21         <meta charset="utf-8">
22
23         <!--[if IE 8]>
24             <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49
                .css" media="all" rel="stylesheet" type="text/css" />
25         <![endif]-->
26         <!--[if !(IE 8)]><!-->
27             <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css
                " media="all" rel="stylesheet" type="text/css" />
28         <!--<![endif]-->
29
30         <!--[if lt IE 9]>
31             <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c.
                css" media="all" rel="stylesheet" type="text/css" />
32         <![endif]-->
33

```

```

34     <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
35         screen" rel="stylesheet" type="text/css" />
36     <!--[if IE 7]>
37     <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
38         media="screen" rel="stylesheet" type="text/css" />
39     <![endif]-->
40     <!--[if IE 6]>
41     <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
42         media="screen" rel="stylesheet" type="text/css" />
43     <![endif]-->
44     <script type="text/javascript" src="https://www.piperpal.com/
45         piperpal-autocomplete-tours.php"></script>
46     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
47         smoothness/jquery-ui.css">
48     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
49     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
50     <meta name="viewport" content="user-scalable=no, _initial-scale=1.0,
51         _maximum-scale=1.0, _width=device-width">
52     <link rel="dns-prefetch" href="//maps.googleapis.com">
53     <link rel="dns-prefetch" href="//maps.gstatic.com">
54     <link rel="dns-prefetch" href="//mts0.googleapis.com">
55     <link rel="dns-prefetch" href="//fonts.googleapis.com">
56     <link rel="dns-prefetch" href="//www.piperpal.com">
57     <title>piperpal.com - Location-based Search Engine</title>
58     <link href="my_style_form.css" type="text/css" rel="stylesheet" />
59     <link href='http://fonts.googleapis.com/css?family=Titillium+Web
60         :700' rel='stylesheet' type='text/css'>
61     <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
62         rel='stylesheet' type='text/css'>
63     <meta charset="utf-8" />
64     <script>
65     function price_changed() {
66         var priceWidget = document.getElementById('price');
67         var price = priceWidget.options[priceWidget.selectedIndex].
68             value;
69         var stripeSubmit = document.getElementsByClassName('stripe-
70             button-el')[0];
71         var regularSubmit = document.getElementById('regular-submit');
72         if (price > 0) {
73             stripeSubmit.style.display = 'inline-block';
74             regularSubmit.style.display = 'none';
75         } else {
76             stripeSubmit.style.display = 'none';
77             regularSubmit.style.display = 'inline-block';
78         }
79     }
80     function updateGeo() {
81         var glat = document.getElementById("glat");
82         var glon = document.getElementById("glon");
83
84         glat.value = position.coords.latitude;
85         glon.value = position.coords.longitude;
86     }

```

```

78     alert(glat+", "+glon);
79 }
80
81 function getWikipedia() {
82     jQuery(function(127416 127416 {
83         OgetJSON( 'http://api.geonames.org/findNearbyWikipediaJSON?formatted
            =true&lat='+ position.coords.latitude + '&lng='+ position.coords
            .longitude + '&username=username&style=full&lang=en&wikipediaUrl
            &thumbnailImg', function(json){
84
85             for(var i = 0; i < json.geonames.length; i++)
86             {
87                 127416 127416"#wikipedia").prepend( '<span_style="font-family:_
                    geneva,_arial,_helvetica,_sans-serif;"><br><br><img_src="
                    wikilogo.gif"><br>' + json.geonames[ i ].summary + '<br><a_
                    href="http://'+ json.geonames[ i ].wikipediaUrl + '"_target="
                    _blank">' + json.geonames[ i ].wikipediaUrl + '</a><br></span>'
                );
88             }
89         }); });
90 }
91
92 function submit() {
93     // Strip hijacks the form submit, so we need to un-hijack it.
94     var form = document.getElementById( 'form' );
95     form.submit();
96 }
97 </script>
98 <meta http-equiv="Content-Type" content="text/html;_charset=UTF-8"
    >
99 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
100 <link href='//fonts.googleapis.com/css?family=Titillium+Web:300
    italic,400,700,400italic,600italic' rel='stylesheet' type='text
    /css'>
101 <link href='//fonts.googleapis.com/css?family=Titillium+Web:300
    italic,400,700,400italic,600italic' rel='stylesheet' type='text
    /css'>
102
103 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
    smoothness/jquery-ui.css">
104 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
105 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
106
107 <script type="text/javascript" src="https://www.piperpal.com/jquery
    -1.9.1.min.js"></script>
108 <script type="text/javascript" src="https://www.piperpal.com/jquery
    .autocomplete.min.js"></script>
109 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete.php"></script>
110 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-names.php"></script>
111 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-services.php"></script>

```

```

112 <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-locations.php"></script>
113 <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-queries.php"></script>
114 <meta name="viewport" content="width=100%" />
115 <script>
116 $(function() {
117   $( "#datepicker" ).datepicker();
118   $( "#simple-search-tourout" ).datepicker();
119 });
120 </script>
121 <meta name="viewport" content="width=100%,_initial-scale=1.0">
122 </head>
123 <body style="background:#ffffff;" onload="document.getElementById
      ('query').focus();">
124 <script type="text/javascript" src="http://maps.google.com/maps/api
      /js?sensor=true"></script>
125 <!--script type="text/javascript" src="http://maps.google.com/maps/
      api/js?sensor=false"--></script-->
126 <script>
127 function success(position) {
128   var s = document.querySelector('#status');
129
130   if (s.className == 'success') {
131     // not sure why we're_hitting_this_twice_in_FF,_I_think_it's to
132     // do with a cached result coming back
133     return;
134   }
135   s.innerHTML = '<input_type=hidden_class="input_form_custom" _
      name=glat_value=' + position.coords.latitude + ' _/><input _
      type=hidden_class="input_form_custom" _name=glon_value=' +
      position.coords.longitude + ' _/>';
136   s.className = 'success';
137
138   var q = document.querySelector('#status_publisher');
139
140   if (q.className == 'success') {
141     // not sure why we're_hitting_this_twice_in_FF,_I_think_it's to
142     // do with a cached result coming back
143     return;
144   }
145   q.innerHTML = '<img_src="img/Latitude_Icon.png" _title="Latitude
      _of_Location-aware_Content_Tag" _class="icon_form" _height
      ="36" _width="36"><input_type=text_class="input_form_custom"
      _name=glat_size=16_value=' + position.coords.latitude + ' _
      /><br _/><img_src="img/Longitude_Icon.png" _title="Longitude_
      of_Location-aware_Content_Tag" _class="icon_form" _height
      ="36" _width="36"><input_type=text_class="input_form_custom"
      _name=glon_size=16_value=' + position.coords.longitude + ' _
      />';
146

```

```

147         // '<input_type=text_name=glat_size=16_value=' + position.
            coords.latitude + ' /><input_type=text_name=glon_size=16_
            value=' + position.coords.longitude + ' />';
148     q.className = 'success';
149
150     var r = document.querySelector( '#status_lns' );
151
152     if ( r.className == 'success' ) {
153         // not sure why we're_hitting_this_twice_in_FF, I think it's to
            do with a cached result coming back
154         return;
155     }
156
157     r.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
            Latitude_of_Location-aware_Content_Tag" _class="icon_form" _
            height="36" _width="36"><input_type=text_class="
            input_form_custom" _name=glat_size=16_value=' + position.
            coords.latitude + ' /><br /><img_src="img/Longitude_Icon.
            png" _title="Longitude_of_Location-aware_Content_Tag" _class
            ="icon_form" _height="36" _width="36"><input_type=text_class
            ="input_form_custom" _name=glon_size=16_value=' + position.
            coords.longitude + ' />';
158
159 // '<input_type=hidden_class="input_form_custom" _name=glat_value=' +
            position.coords.latitude + ' /><input_type=hidden_class="
            input_form_custom" _name=glon_value=' + position.coords.longitude +
            ' />';
160     r.className = 'success';
161
162     var mapcanvas = document.createElement( 'div' );
163     mapcanvas.id = 'mapcanvas';
164     mapcanvas.style.height = '400px';
165     mapcanvas.style.width = '640px';
166
167     document.querySelector( ' article ' ).appendChild( mapcanvas );
168
169     var latlng = new google.maps.LatLng( position.coords.latitude ,
            position.coords.longitude );
170     var myOptions = {
171     zoom: 15,
172     center: latlng ,
173     mapTypeControl: false ,
174     navigationControlOptions: { style: google.maps.
            NavigationControlStyle.SMALL },
175     mapTypeId: google.maps.MapTypeId.ROADMAP
176     };
177     var map = new google.maps.Map( document.getElementById( "mapcanvas" ),
            myOptions );
178
179     var marker = new google.maps.Marker( {
180     position: latlng ,
181     map: map,
182     title : "You_are_here!_(at_least_within_a_" + position.
            coords.accuracy + "_meter_radius)"

```

```

183         });
184
185     var locations = [
186         [ 'Banja_Luka', 44.76666669999990000, 17.183333299999960000,
187           4],
187     [ 'Tuzla', 44.5328410000000000000, 18.670499999999947000, 5],
188     [ 'Zenica', 44.2034392000000000000, 17.907743200000027000, 3],
189     [ 'Sarajevo', 43.8500000000000000000, 18.2500000000000000000, 2],
190     [ 'Mostar', 43.3333333000000000000, 17.799999999999954000, 1]
191 ];
192
193 var infowindow = new google.maps.InfoWindow();
194
195 var marker, i;
196 for (i = 0; i < locations.length; i++) {
197     marker = new google.maps.Marker({
198         position: new google.maps.LatLng(locations[i][1], locations[i]
199           ][2]),
200         map: map
201     });
202     google.maps.event.addListener(marker, 'click', (function (marker, i) {
203         return function () {
204             infowindow.setContent(locations[i][0]);
205             infowindow.open(map, marker);
206         }
207     })(marker, i));
208 }
209 }
210
211 function error(msg) {
212     // var s = document.querySelector('#status');
213     // s.innerHTML = typeof msg == 'string' ? msg : "failed";
214     // s.className = 'fail';
215
216     // console.log(arguments);
217 }
218
219 if (navigator.geolocation) {
220     navigator.geolocation.getCurrentPosition(success, error);
221 } else {
222     error('not_supported');
223 }
224
225 </script>
226
227 <center><table border='0'><tr><td valign='top' width='100%' align='
228     center'><a href="https://www.piperpal.com/"><img src='/piperpal
229     .png' alt='piperpal.com_Logo' width="320" align=center/></a></
230     td></tr>
231
232     <div class="background_form">
233 <tr><td valign='top' width='100%' align='center'><h3>Discover the world
234     around you</h3><form onsubmit='updateGeo()' method='GET' action='

```

```

https://www.piperpal.com/' id='formID '><table><tr><td><center><
input size="30" type="text" class="input_form_custom" id="query"
name="query" placeholder="Enter_keyword" /></center></td></tr><tr><
td><select size="12" id="service" name="service"><option value="
Restaurant">Restaurant</option><option value="Bar">Bar</option><
option value="Concert">Concert</option><option value="Film">Film</
option><option value="Books">Books</option><option value="Health">
Health</option><option value="Clothes">Clothes</option><option
value="Food">Food</option><option value="Music">Music</option><
option value="Electronics">Electronics</option><option value="
Transport">Transport</option><option value="Rental">Rental</option
></select></td><td><select size="12" name="radius" id="radius"
class="input_form_custom"><option value='40075' selected>40075 km</
option><option value='30000'>30000 km</option><option value='20000'
>20000 km</option><option value='10000'>10000 km</option><option
value='9000'>9000 km</option><option value='8000'>8000 km</option><
option value='7000'>7000 km</option><option value='6000'>6000 km</
option><option value='5000'>5000 km</option><option value='4000'
>4000 km</option><option value='3000'>3000 km</option><option value
='2500'>2500 km</option><option value='2000'>2000 km</option><
option value='1500'>1500 km</option><option value='1250'>1250 km</
option><option value='1000'>1000 km</option><option value='750'>750
km</option><option value='500'>500 km</option><option value='250'
>250 km</option><option value='100'>100 km</option><option value='
50'>50 km</option><option value='25'>25 km</option><option value='
10'>10 km</option><option value='5'>5 km</option><option value='2'
>2 km</option><option value='1'>1 km</option></select></td><td>&
nbsp;</td><td><input type="submit" id="search" name="search" value=
"Go" /></td></tr></table><span id='status'><input type='hidden'
name='glat' /><input type='hidden' name='glon' /></span>
231 </form><br>
232 <script language="javascript" type="text/javascript">
233 var glat_var = position.coords.latitude;
234 </script>
235 <a href="location.html" onclick="location.href=this.href+'?glat='+
glat_var; retur
236 n_false;">Link</a>
237 <script type="text/javascript" src="https://api.piperpal.com/location/
json.php?s
238 ervice=Books&glat='_'+position.coords.longitude+'_'&glon='_'+position.
coords.lon
239 gitude+'_"></script>
240 <script language="JavaScript">
241 var obj = JSON.parse(locations);
242 for (i=0; i < obj.locations.length; i++) {
243     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a_
href=' " + obj.lo
244 cations[i].location + ">" + obj.locations[i].location +
"</a>_" + obj.location
245 s[i].distance + ")</h2><h3>" + "_" + obj.locations[i].
service + "_" + "</h3>\n")
246     ;
247 <!--document.write("<p>" + obj.locations[i].distance + "</p><
form_method='GET

```

```

248 _____'_action='/search.php'><input_type='text'_name='name'
      _placeholder=''_value="" +
249         obj.locations[i].name + "'/><input_type='hidden'_name
          ='glat'_value="" + obj.loca
250         tions[i].glat + "'/><input_type='hidden'_name='glon'
          _value="" + obj.locations[i
251         ].glon + "'/><span_id='geopher'></span><select_name='
          service'><option_value='Foo
252 _____d'>Food</option><option_selected_value='Search'>
          Search</option></select><input_t
253 ______type='submit'_value='Search'_/><br_/>"); -->
254 }
255 </script>
256 <location name="Berkeley" location="http://berkeley.edu/" service="
      Books" glat="
257 59.9340451" glon="10.7481188" notbefore="2020-03-30_12:00:00" notafter="
      "2020-03-
258 31_12:00:00" paid="50" />
259 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
      href="http
260 ://berkeley.edu/">
261 <cript type="text/javascript" src="https://api.piperpal.com/location/
      json.php?se
262 rvce=Books&glat='_+_position.coords.longitude+_+'&glon='_+_position.
      coords.long
263 itude+_'"></script>
264 <script language="JavaScript">
265 var obj = JSON.parse(locations);
266 for (i=0; i < obj.locations.length; i++) {
267     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a_
          href='" + obj.lo
268         cations[i].location + "'>" + obj.locations[i].location +
          "</a_(" + obj.location
269         s[i].distance + ")</h2><h3>" + "_" + obj.locations[i].
          service + "_" + "</h3>\n")
270     ;
271     <!--document.write("<p>" + obj.locations[i].distance + "</p><
          form_method='GET
272 _____'_action='/search.php'><input_type='text'_name='name'
      _placeholder=''_value="" +
273         obj.locations[i].name + "'/><input_type='hidden'_name
          ='glat'_value="" + obj.loca
274         tions[i].glat + "'/><input_type='hidden'_name='glon'
          _value="" + obj.locations[i
275         ].glon + "'/><span_id='geopher'></span><select_name='
          service'><option_value='Foo
276 _____d'>Food</option><option_selected_value='Search'>
          Search</option></select><input_t
277 ______type='submit'_value='Search'_/><br_/>"); -->
278 }
279 </script>
280 <location name="Berkeley" location="http://berkeley.edu/" service="
      Books" glat="

```



```

281 59.9340451" glon="10.7481188" notbefore="2020-03-30_12:00:00" notafter=
      "2020-03-
282 31_12:00:00" paid="50" />
283 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
      href="http
284 ://berkeley.edu/">
285 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a href
      ="http://piperpal.com/">Piperpal</a>.</p>
286 </location>
287 </body>
288 </html>

```

---

### 14.3 Source: <https://www.piperpal.com/location/berkeley/index.html>

**Listing 14.3:** Insert code directly in your document

---

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.api.
      android" />
5     <meta property="al:android:url" content="https://www.piperpal.com/
      Android" />
6     <!--[if IE]><![endif]-->
7     <meta charset="utf-8">
8
9     <!--[if IE 8]>
10    <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
      css" media="all" rel="stylesheet" type="text/css" />
11    <![endif]-->
12    <!--[if !(IE 8)]><!-->
13    <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
      media="all" rel="stylesheet" type="text/css" />
14    <!--<![endif]-->
15
16    <!--[if lt IE 9]>
17    <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c
      .css" media="all" rel="stylesheet" type="text/css" />
18    <![endif]-->
19
20    <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
      screen" rel="stylesheet" type="text/css" />
21    <!--[if IE 7]>
22    <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
      media="screen" rel="stylesheet" type="text/css" />
23    <![endif]-->

```

```

24 <!--[if IE 6]>
25 <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
    media="screen" rel="stylesheet" type="text/css" />
26 <![endif]-->
27 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-tours.php"></script>
28 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
    smoothness/jquery-ui.css">
29 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
30 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
31 <meta name="viewport" content="user-scalable=no, _initial-scale=1.0,
    _maximum-scale=1.0, _width=device-width">
32 <link rel="dns-prefetch" href="//maps.googleapis.com">
33 <link rel="dns-prefetch" href="//maps.gstatic.com">
34 <link rel="dns-prefetch" href="//mts0.googleapis.com">
35 <link rel="dns-prefetch" href="//fonts.googleapis.com">
36 <link rel="dns-prefetch" href="//www.piperpal.com">
37 <title>Location Tags in Berkeley, CA</title>
38 <link href="my_style_form.css" type="text/css" rel="stylesheet" />
39 <link href='http://fonts.googleapis.com/css?family=Titillium+Web
    :700' rel='stylesheet' type='text/css'>
40 <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
    rel='stylesheet' type='text/css'>
41 </head>
42 <body>
43 <h1>Location Tags in Berkeley, CA</h1>
44 <script type="text/javascript" src="https://api.piperpal.com/location/
    json.php?service=Books&glat=37.4375596&glon=-122.11922789999998"></
    script>
45 <script language="JavaScript">
46 var obj = JSON.parse(locations);
47 for (i=0; i < obj.locations.length; i++) {
48     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='
        + obj.locations[i].location + "'>" + obj.locations[i].location
        + "</a> (" + obj.locations[i].distance + ")</h2><h3>" + "_" +
        obj.locations[i].service + "_" + "</h3>\n");
49 <!--document.write("<p>" + obj.locations[i].distance + "</p><form
        method='GET' _action='/search.php'><input type='text' _name='name'
        _placeholder='' _value='" + obj.locations[i].name + "'><input
        type='hidden' _name='glat' _value='" + obj.locations[i].glat + "'
        /><input type='hidden' _name='glon' _value='" + obj.locations[i].
        glon + "'><span id='geopher'></span><select _name='service'><
        option _value='Food'>Food</option><option _selected_value='Search'
        >Search</option></select><input type='submit' _value='Search'
        /><br_>"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/"
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a href
    ="http://piperpal.com/">Piperpal</a>.</p>

```

```
55 </location>
56 </body>
57 </html>
```

## 14.4 Source: <https://www.piperpal.com/location/copenhagen/index.html>

Listing 14.4: Insert code directly in your document

```
1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.api.
5       android" />
6     <meta property="al:android:url" content="https://www.piperpal.com/
7       Android" />
8     <!--[if IE]><![endif]-->
9     <meta charset="utf-8">
10
11    <!--[if IE 8]>
12    <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
13      css" media="all" rel="stylesheet" type="text/css" />
14    <![endif]-->
15    <!--[if !(IE 8)]><!-->
16    <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
17      media="all" rel="stylesheet" type="text/css" />
18    <!--<![endif]-->
19
20    <!--[if lt IE 9]>
21    <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c
22      .css" media="all" rel="stylesheet" type="text/css" />
23    <![endif]-->
24    <!--[if IE 7]>
25    <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
26      media="screen" rel="stylesheet" type="text/css" />
27    <![endif]-->
28    <!--[if IE 6]>
29    <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
30      media="screen" rel="stylesheet" type="text/css" />
31    <![endif]-->
32    <script type="text/javascript" src="https://www.piperpal.com/
33      piperpal-autocomplete-tours.php"></script>
34    <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
35      smoothness/jquery-ui.css">
```

```

29 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
30 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
31 <meta name="viewport" content="user-scalable=no,initial-scale=1.0,
    _maximum-scale=1.0,_width=device-width">
32 <link rel="dns-prefetch" href="//maps.googleapis.com">
33 <link rel="dns-prefetch" href="//maps.gstatic.com">
34 <link rel="dns-prefetch" href="//mts0.googleapis.com">
35 <link rel="dns-prefetch" href="//fonts.googleapis.com">
36 <link rel="dns-prefetch" href="//www.piperpal.com">
37 <title>Location Tags in Copenhagen, DK</title>
38 <link href="my_style_form.css" type="text/css" rel="stylesheet" />
39 <link href='http://fonts.googleapis.com/css?family=Titillium+Web
    :700' rel='stylesheet' type='text/css'>
40 <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
    rel='stylesheet' type='text/css'>
41 </head>
42 <body>
43 <h1>Location Tags in Copenhagen, DK</h1>
44 <script type="text/javascript" src="https://api.piperpal.com/location/
    json.php?service=Books&glat=55.6828273&glon=12.6082921"></script>
45 <script language="JavaScript">
46 var obj = JSON.parse(locations);
47 for (i=0; i < obj.locations.length; i++) {
48     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='
    + obj.locations[i].location + "'>" + obj.locations[i].location
    + "</a>_" + obj.locations[i].distance + ")</h2><h3>" + "_" +
    obj.locations[i].service + "_" + "</h3>\n");
49 <!--document.write("<p>" + obj.locations[i].distance + "</p><form_
    method='GET'_action='/search.php'><input type='text' _name='name'
    _placeholder=''_value='" + obj.locations[i].name + "'/><input_
    type='hidden' _name='glat' _value='" + obj.locations[i].glat + "'_
    /><input type='hidden' _name='glon' _value='" + obj.locations[i].
    glon + "'/><span id='geopher'></span><select _name='service'><
    option _value='Food'>Food</option><option _selected_value='Search
    '>Search</option></select><input type='submit' _value='Search'_
    /><br_>"); -->
50 }
51 </script>
52 <location name="Copenhagen" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/"
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a href
    ="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

---

## 14.5 Source: <https://www.piperpal.com/location/london/index.html>

**Listing 14.5:** Insert code directly in your document

---

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.api.
      android" />
5     <meta property="al:android:url" content="https://www.piperpal.com/
      Android" />
6     <!--[if IE]><![endif]-->
7     <meta charset="utf-8">
8
9     <!--[if IE 8]>
10    <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
      css" media="all" rel="stylesheet" type="text/css" />
11    <![endif]-->
12    <!--[if !(IE 8)]><!-->
13    <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
      media="all" rel="stylesheet" type="text/css" />
14    <!--<![endif]-->
15
16    <!--[if lt IE 9]>
17    <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c
      .css" media="all" rel="stylesheet" type="text/css" />
18    <![endif]-->
19
20    <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
      screen" rel="stylesheet" type="text/css" />
21    <!--[if IE 7]>
22    <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
      media="screen" rel="stylesheet" type="text/css" />
23    <![endif]-->
24    <!--[if IE 6]>
25    <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
      media="screen" rel="stylesheet" type="text/css" />
26    <![endif]-->
27    <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-tours.php"></script>
28    <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
      smoothness/jquery-ui.css">
29    <script src="//code.jquery.com/jquery-1.10.2.js"></script>
30    <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
31    <meta name="viewport" content="user-scalable=no, _initial-scale=1.0,
      _maximum-scale=1.0, _width=device-width">
32    <link rel="dns-prefetch" href="//maps.googleapis.com">
33    <link rel="dns-prefetch" href="//maps.gstatic.com">
34    <link rel="dns-prefetch" href="//mts0.googleapis.com">
35    <link rel="dns-prefetch" href="//fonts.googleapis.com">
36    <link rel="dns-prefetch" href="//www.piperpal.com">
37    <title>Location Tags in London, United Kingdom</title>

```

```

38 <link href="my_style_form.css" type="text/css" rel="stylesheet" />
39 <link href='http://fonts.googleapis.com/css?family=Titillium+Web
    :700' rel='stylesheet' type='text/css'>
40 <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
    rel='stylesheet' type='text/css'>
41 </head>
42 <body>
43 <h1>Location Tags in London, United Kingdom</h1>
44 <script type="text/javascript" src="https://api.piperpal.com/location/
    json.php?service=Books&glat=51.5073219&glon=-0.1276474"></script>
45 <script language="JavaScript">
46 var obj = JSON.parse(locations);
47 for (i=0; i < obj.locations.length; i++) {
48     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='"
        + obj.locations[i].location + "'>" + obj.locations[i].location
        + "</a>(" + obj.locations[i].distance + ")</h2><h3>" + " " +
        obj.locations[i].service + " " + "</h3>\n");
49 <!--document.write("<p>" + obj.locations[i].distance + "</p><form
    method='GET' _action='/search.php'><input type='text' _name='name'
    _placeholder='' _value='" + obj.locations[i].name + "'><input
    type='hidden' _name='glat' _value='" + obj.locations[i].glat + "'
    /><input type='hidden' _name='glon' _value='" + obj.locations[i].
    glon + "'><span id='geopher'></span><select name='service'><
    option value='Food'>Food</option><option selected value='Search'
    >Search</option></select><input type='submit' _value='Search'
    /><br />"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a href
    ="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

## 14.6 Source: <https://www.piperpal.com/location/nyc/index.html>

Listing 14.6: Insert code directly in your document

```

1 <html>
2 <head>
3 <meta property="al:android:app_name" content="Piperpal" />

```

```

4     <meta property="al:android:package" content="com.piperpal.api.
      android" />
5     <meta property="al:android:url" content="https://www.piperpal.com/
      Android" />
6     <!--[if IE]><![endif]-->
7     <meta charset="utf-8">
8
9     <!--[if IE 8]>
10    <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
      css" media="all" rel="stylesheet" type="text/css" />
11    <![endif]-->
12    <!--[if !(IE 8)]><!-->
13    <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
      media="all" rel="stylesheet" type="text/css" />
14    <!--<![endif]-->
15
16    <!--[if lt IE 9]>
17    <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c
      .css" media="all" rel="stylesheet" type="text/css" />
18    <![endif]-->
19
20    <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
      screen" rel="stylesheet" type="text/css" />
21    <!--[if IE 7]>
22    <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
      media="screen" rel="stylesheet" type="text/css" />
23    <![endif]-->
24    <!--[if IE 6]>
25    <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
      media="screen" rel="stylesheet" type="text/css" />
26    <![endif]-->
27    <script type="text/javascript" src="https://www.piperpal.com/
      piperpal-autocomplete-tours.php"></script>
28    <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
      smoothness/jquery-ui.css">
29    <script src="//code.jquery.com/jquery-1.10.2.js"></script>
30    <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
31    <meta name="viewport" content="user-scalable=no, _initial-scale=1.0,
      _maximum-scale=1.0, _width=device-width">
32    <link rel="dns-prefetch" href="//maps.googleapis.com">
33    <link rel="dns-prefetch" href="//maps.gstatic.com">
34    <link rel="dns-prefetch" href="//mts0.googleapis.com">
35    <link rel="dns-prefetch" href="//fonts.googleapis.com">
36    <link rel="dns-prefetch" href="//www.piperpal.com">
37    <title>Location Tags in New York City, NY</title>
38    <link href="my_style_form.css" type="text/css" rel="stylesheet" />
39    <link href='http://fonts.googleapis.com/css?family=Titillium+Web
      :700' rel='stylesheet' type='text/css'>
40    <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
      rel='stylesheet' type='text/css'>
41  </head>
42  <body>
43  <h1>Location Tags in New York City, NY</h1>

```

```

44 <script type="text/javascript" src="https://api.piperpal.com/location/
    json.php?service=Books&glat=40.6399278&glon=-73.7786925"></script>
45 <script language="JavaScript">
46 var obj = JSON.parse(locations);
47 for (i=0; i < obj.locations.length; i++) {
48     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='"
        + obj.locations[i].location + "'>" + obj.locations[i].location
        + "</a>(" + obj.locations[i].distance + ")</h2><h3>" + "_" +
        obj.locations[i].service + "_" + "</h3>\n");
49     <!--document.write("<p>" + obj.locations[i].distance + "</p><form
        method='GET' _action='/search.php'><input type='text' _name='name'
        _placeholder='' _value='" + obj.locations[i].name + "'/><input
        type='hidden' _name='glat' _value='" + obj.locations[i].glat + "'
        /><input type='hidden' _name='glon' _value='" + obj.locations[i].
        glon + "'/><span id='geopher'></span><select _name='service'><
        option _value='Food'>Food</option><option _selected _value='Search
        '>Search</option></select><input type='submit' _value='Search'
        /><br />"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a href
    ="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

## 14.7 Source: <https://www.piperpal.com/location/oslo/index.html>

Listing 14.7: Insert code directly in your document

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.api.
        android" />
5     <meta property="al:android:url" content="https://www.piperpal.com/
        Android" />
6     <!--[ if IE ]><![endif]-->
7     <meta charset="utf-8">
8
9     <!--[ if IE 8]>

```



```

10 <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
    css" media="all" rel="stylesheet" type="text/css" />
11 <![endif]-->
12 <!--[if !(IE 8)]><!-->
13 <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
    media="all" rel="stylesheet" type="text/css" />
14 <!--<![endif]-->
15
16 <!--[if lt IE 9]>
17 <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c
    .css" media="all" rel="stylesheet" type="text/css" />
18 <![endif]-->
19
20 <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
    screen" rel="stylesheet" type="text/css" />
21 <!--[if IE 7]>
22 <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
    media="screen" rel="stylesheet" type="text/css" />
23 <![endif]-->
24 <!--[if IE 6]>
25 <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
    media="screen" rel="stylesheet" type="text/css" />
26 <![endif]-->
27 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-tours.php"></script>
28 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
    smoothness/jquery-ui.css">
29 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
30 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
31 <meta name="viewport" content="user-scalable=no,initial-scale=1.0,
    maximum-scale=1.0,width=device-width">
32 <link rel="dns-prefetch" href="//maps.googleapis.com">
33 <link rel="dns-prefetch" href="//maps.gstatic.com">
34 <link rel="dns-prefetch" href="//mts0.googleapis.com">
35 <link rel="dns-prefetch" href="//fonts.googleapis.com">
36 <link rel="dns-prefetch" href="//www.piperpal.com">
37 <title>Location Tags in Oslo, Norway</title>
38 <link href="my_style_form.css" type="text/css" rel="stylesheet" />
39 <link href='http://fonts.googleapis.com/css?family=Titillium+Web
    :700' rel='stylesheet' type='text/css'>
40 <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
    rel='stylesheet' type='text/css'>
41 </head>
42 <body>
43 <h1>Location Tags in Oslo, Norway</h1>
44 <script type="text/javascript" src="https://api.piperpal.com/location/
    json.php?service=Books&glat=60&glon=10"></script>
45 <script language="JavaScript">
46 var obj = JSON.parse(locations);
47 for (i=0; i < obj.locations.length; i++) {
48     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='
        + obj.locations[i].location + '>" + obj.locations[i].location
        + "</a>(" + obj.locations[i].distance + ")</h2><h3>" + " " +
        obj.locations[i].service + " " + "</h3>\n");

```

```

49 <!--document.write("<p>" + obj.locations[i].distance + "</p><form_
    method='GET' _action='/search.php'><input_type='text' _name='name'
    _placeholder=''_value='" + obj.locations[i].name + "'/><input_
    type='hidden' _name='glat' _value='" + obj.locations[i].glat + "'_
    /><input_type='hidden' _name='glon' _value='" + obj.locations[i].
    glon + "'/><span_id='geopher'></span><select_name='service'><
    option_value='Food'>Food</option><option_selected_value='Search
    '>Search</option></select><input_type='submit' _value='Search' _
    /><br_/>"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a href
    ="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

## 14.8 Source: <https://www.piperpal.com/location/paris/index.html>

Listing 14.8: Insert code directly in your document

```

1 <html>
2 <head>
3 <meta property="al:android:app_name" content="Piperpal" />
4 <meta property="al:android:package" content="com.piperpal.api.
    android" />
5 <meta property="al:android:url" content="https://www.piperpal.com/
    Android" />
6 <!--[if IE]><![endif]-->
7 <meta charset="utf-8">
8
9 <!--[if IE 8]>
10 <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
    css" media="all" rel="stylesheet" type="text/css" />
11 <![endif]-->
12 <!--[if !(IE 8)]><!-->
13 <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
    media="all" rel="stylesheet" type="text/css" />
14 <!--<![endif]-->
15
16 <!--[if lt IE 9]>

```

```

17     <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c
18         .css" media="all" rel="stylesheet" type="text/css" />
19     <![endif]-->
20     <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
21         screen" rel="stylesheet" type="text/css" />
22     <!--[if IE 7]>
23     <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
24         media="screen" rel="stylesheet" type="text/css" />
25     <![endif]-->
26     <!--[if IE 6]>
27     <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
28         media="screen" rel="stylesheet" type="text/css" />
29     <![endif]-->
30     <script type="text/javascript" src="https://www.piperpal.com/
31         piperpal-autocomplete-tours.php"></script>
32     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
33         smoothness/jquery-ui.css">
34     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
35     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
36     <meta name="viewport" content="user-scalable=no, _initial-scale=1.0,
37         _maximum-scale=1.0, _width=device-width">
38     <link rel="dns-prefetch" href="//maps.googleapis.com">
39     <link rel="dns-prefetch" href="//maps.gstatic.com">
40     <link rel="dns-prefetch" href="//mts0.googleapis.com">
41     <link rel="dns-prefetch" href="//fonts.googleapis.com">
42     <link rel="dns-prefetch" href="//www.piperpal.com">
43     <title>Location Tags in Paris , France</title>
44     <link href="my_style_form.css" type="text/css" rel="stylesheet" />
45     <link href='http://fonts.googleapis.com/css?family=Titillium+Web
46         :700' rel='stylesheet' type='text/css'>
47     <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
48         rel='stylesheet' type='text/css'>
49     </head>
50     <body>
51     <h1>Location Tags in Paris , France</h1>
52     <script type="text/javascript" src="https://api.piperpal.com/location/
53         json.php?service=Books&glat=48.8566969&glon=2.3514616"></script>
54     <script language="JavaScript">
55     var obj = JSON.parse(locations);
56     for (i=0; i < obj.locations.length; i++) {
57     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a href='"
58         + obj.locations[i].location + "'>" + obj.locations[i].location
59         + "</a>(" + obj.locations[i].distance + ")</h2><h3>" + "_" +
60         obj.locations[i].service + "_" + "</h3>\n");
61     <!--document.write("<p>" + obj.locations[i].distance + "</p><form
62         _method='GET' _action='/search.php'><input type='text' _name='name'
63         _placeholder=''_value='" + obj.locations[i].name + "'/><input
64         type='hidden' _name='glat' _value='" + obj.locations[i].glat + "'
65         /><input type='hidden' _name='glon' _value='" + obj.locations[i].
66         glon + "'/><span _id='geopher'></span><select _name='service'><
67         option _value='Food'>Food</option><option _selected _value='Search
68         '>Search</option></select><input type='submit' _value='Search'
69         /><br />"); -->

```

```
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/" service="
    Books" glat="59.9340451" glon="10.7481188" notbefore="2020-03-30_
    12:00:00" notafter="2020-03-31_12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="-122.11922789999998"
    href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and <a href
    ="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>
```

---

## Chapter 15

# Location API on World Wide Web – [api.piperpal.com/location](https://api.piperpal.com/location)

### 15.1 Source: <https://api.piperpal.com/location/json.php>

Listing 15.1: Insert code directly in your document

---

```
1 <?php
2 $db = mysqli_connect("piperpal.mysql.domeneshop.no", "piperpal", "
    xxxxxxxx", "piperpal");
3 // mysqli_set_charset($db, "utf8");
4 if (isset($_GET['name'])) {
5     $query = "SELECT DISTINCT id, name, service, location, modified, created,
        glat, glon, paid, token, type, email, 111.045*DEGREES(ACOS(COS(RADIANS(
        latpoint))*COS(RADIANS(glat))*COS(RADIANS(longpoint)-RADIANS(glon)
        ))+SIN(RADIANS(latpoint))*SIN(RADIANS(glat)))) AS distance_in_km
        FROM piperpal JOIN (SELECT " . $_GET['glat'] . " AS latpoint, "
        . $_GET['glon'] . " AS longpoint) AS p ON 1=1 WHERE service = "
        . $_GET['service'] . " AND name = " . $_GET['name'] . " ORDER
        BY distance_in_km";
6 } else {
7     if (isset($_GET['service'])) {
8         $query = "SELECT DISTINCT id, name, service, location, modified,
            created, glat, glon, paid, token, type, email, 111.045*DEGREES(
            ACOS(COS(RADIANS(latpoint))*COS(RADIANS(glat))*COS(RADIANS(
            longpoint)-RADIANS(glon))+SIN(RADIANS(latpoint))*SIN(
            RADIANS(glat)))) AS distance_in_km FROM piperpal JOIN (
            SELECT " . $_GET['glat'] . " AS latpoint, " . $_GET['glon']
            . " AS longpoint) AS p ON 1=1 WHERE service = " . $_GET
            ['service'] . " ORDER BY distance_in_km";
9     } else {
```

```

10     $query = "SELECT DISTINCT id , name , service , location , modified ,
              created , glat , glon , paid , token , type , email , 111.045 * DEGREES (
              ACOS ( COS ( RADIANS ( latpoint ) ) * COS ( RADIANS ( glat ) ) * COS ( RADIANS (
              longpoint ) - RADIANS ( glon ) ) + SIN ( RADIANS ( latpoint ) ) * SIN (
              RADIANS ( glat ) ) ) ) AS distance_in_km FROM piperpal JOIN (
              SELECT " . $GET[ ' glat ' ] . " AS latpoint , " . $GET[ ' glon
              ' ] . " AS longpoint ) AS p ON 1=1 ORDER BY distance_in_km";
11     }
12 }
13 $result = $db->query($query);
14 // print $query;
15 $num_coords = mysqli_num_rows($result);
16 if ($num_coords == 0) {
17     print '<h3>' . $GET[ ' service ' ] . '</h3><ul><li><a href="http://
              piperpal.com/cft/?location=' . $GET[ ' service ' ] . '&service=' .
              basename($SERVER[ ' HTTP_REFERER ' ]) . ">New</a></li><li>Upvote</
              li><li>Comment</li><li>Stamp</li></ul></ul>';
18 // header("Location: http:// piperpal.com/");
19 } else {
20 // print "$(function() {\n    var locations = \n";
21 print "var locations = { \n    locations \n    : [ ' + \n";
22 $count = 0;
23 // print "<h1>" . $GET[ ' service ' ] . "</h1>";
24 while($object = mysqli_fetch_object($result)) {
25     $count++;
26     if ($count == $num_coords) {
27         print '{ "id": ' . $object->id . ', "name": ' . $object->name .
              ', "service": ' . $object->service . ', "location": ' .
              $object->location . ', "modified": ' . $object->modified .
              ', "created": ' . $object->created . ', "glat": ' .
              $object->glat . ', "glon": ' . $object->glon . ', "paid": ' .
              $object->paid . ', "token": ' . $object->token . ', "
              type": ' . $object->type . ', "distance": ' . $object->
              distance_in_km . ', "email": ' . $object->email . ' } , ' ;
28     } else {
29         print '{ "id": ' . $object->id . ', "name": ' . $object->name .
              ', "service": ' . $object->service . ', "location": ' .
              $object->location . ', "modified": ' . $object->modified .
              ', "created": ' . $object->created . ', "glat": ' .
              $object->glat . ', "glon": ' . $object->glon . ', "paid": ' .
              $object->paid . ', "token": ' . $object->token . ', "
              type": ' . $object->type . ', "distance": ' . $object->
              distance_in_km . ', "email": ' . $object->email . ' } , ' ;
30     }
31 }
32 print " ] }'; \n";
33 }
34 ?>

```

## 15.2 Source: <https://api.piperpal.com/location/pull.php>

Listing 15.2: Insert code directly in your document

---

```

1 <?php
2
3 $fp = fopen("/home/4/p/piperpal/data.csv", "a+");
4 fwrite($fp, "pull" . ";" . $_SERVER['REMOTE_ADDR'] . ";" . $_GET['name']
5     ] . "\n");
6 fclose($fp);
7
8 header("Location: https://piperpal.com/cft/s/?name=" . $_GET['name'] .
9     "&glat=" . $_GET['glat'] . "&location=" . $_GET['location'] . "&
10    glon=" . $_GET['glon'] . "&service=" . $_GET['service'] . "&paid="
11    . $_GET['paid']);
12
13 exit(0);
14
15 /* $db = mysqli_connect("piperpal.mysql.domeneshop.no", "piperpal", "
16    FiFLHHPxyR7PXUg", "piperpal"); */
17
18 /* $query = "INSERT INTO piperpal_(name, location, service, glat, glon)_
19    VALUES_(' " . $_GET['name'] . "',_ " . $_GET['location'] . "',_ " .
20    $_GET['service'] . "',_ " . $_GET['glat'] . "',_ " . $_GET['glon'] . "')
21    "; */
22
23 /* $result = $db->query($query); */
24 ?>

```

---

### 15.3 Source: <https://api.piperpal.com/location/robot.php>

Listing 15.3: Insert code directly in your document

---

```

1 <?php
2
3 $fp = fopen("/home/4/p/piperpal/data.csv", "a+");
4 fwrite($fp, "push;" . $_SERVER['REMOTE_ADDR'] . ";" . $_GET['name'] . "
5     \n");
6 fclose($fp);
7
8 #header("Location: https://piperpal.com/cft/s/?name=" . $_GET['name'] .
9     "&glat=" . $_GET['glat'] . "&location=" . $_GET['location'] . "&
10    glon=" . $_GET['glon'] . "&service=" . $_GET['service'] . "&paid="
11    . $_GET['paid']);
12
13

```

---

```

8 #exit(0);
9
10 # echo $_SERVER['REMOTE_ADDR'];
11
12 # if ($_SERVER['REMOTE_ADDR']=="178.255.144.178" || $_SERVER['
    REMOTE_ADDR']=="51.175.144.124") {
13 if ($_SERVER['REMOTE_ADDR']=="178.255.144.178") {
14     $db = mysqli_connect("piperpal.mysql.domeneshop.no", "piperpal", "
        xxxxxxxx", "piperpal");
15     $query = "INSERT INTO piperpal_(name, location, service, glat, glon,
        paid) VALUES(' . $_GET['name'] . "', ' . $_GET['location'] .
        " . $_GET['service'] . "', ' . $_GET['glat'] . " . " .
        $_GET['glon'] . " . " . $_GET['paid'] . ") WHERE NOT EXISTS(
        SELECT name FROM piperpal WHERE name=' . $_GET['name'] . "')
        ";
16     // print $query . "\n";
17     $result = $db->query($query);
18 }
19 ?>

```

---

## 15.4 Source: <https://api.piperpal.com/location/push.php>

Listing 15.4: Insert code directly in your document

---

```

1 <?php
2
3 // require_once('/home/4/p/piperpal/stripe-php/init.php');
4 // require_once('/home/4/p/piperpal/YayLocation.php');
5
6 // $yay = new YayLocation($_POST);
7
8 $token = $_POST['stripeToken'];
9
10 // print "INSERT IGNORE INTO piperpal_(name, location, service, glat,
    glon, modified, created, paid, token, type, email) VALUES(' .
    $_POST['name'] . "', ' . $_POST['location'] . " . " . $_POST['
    service'] . " . " . $_POST['glat'] . " . " . $_POST['glon'] . " . " .
    date("Y-m-d_h:i:s", strtotime($_POST['notBefore'])) . " . " . " .
    date("Y-m-d_h:i:s", strtotime($_POST['notAfter'])) . " . " . " . $_POST
    ['paid'] . " . " . " . $_POST['stripeToken'] . " . " . " . $_POST['
    stripeTokenType'] . " . " . " . $_POST['stripeEmail'] . "') ON
    DUPLICATE KEY UPDATE modified=NOW()";
11
12 // try {
13

```



```

14 //     if ($yay->get_freedeate($_POST['notBefore'], $_POST['notAfter']))
15 //         == TRUE) {
16 //         $yay->get_checkout("INSERT_IGNORE INTO piperpal_(name,
17 //             location, _service, _glat, _glon, _modified, _created, _paid, _token, _type
18 //             , _email) VALUES('" . $_POST['name'] . "','" . $_POST['location'] .
19 //             "','" . $_POST['service'] . "','" . $_POST['glat'] . "','" .
20 //             $_POST['glon'] . "','" . date("Y-m-d_h:i:s", strtotime($_POST['
21 //             notBefore'])) . "','" . date("Y-m-d_h:i:s", strtotime($_POST['
22 //             notAfter'])) . "','" . $_POST['paid'] . "','" . $_POST['stripeToken
23 //             '] . "','" . $_POST['stripeTokenType'] . "','" . $_POST['
24 //             stripeEmail'] . "') ON DUPLICATE KEY UPDATE _modified = _NOW()");
25 //         print_r($yay->result);
26 //
27 //         $stripe = array(
28 //             "secret_key" => "
29 //             sk_live_51MsrtFAGJ7jHvJPRhemuILSINCR\
30 //             M9BNoTPwV9GCNbnq8oWmq7xm5SWsGecQUL2xCaC\
31 //             mhjnorBF1byuSIaDU1hjrP300YpX28hR2",
32 //             "publishable_key" => "
33 //             pk_live_51MsrtFAGJ7jHvJPRzksQbNY4573\
34 //             e98c9MPwsnOXymtKYWFUVgh6BbmZV9tPhhTwpp\
35 //             FLDabbfm7Lkj9dEYaJBD9em00xNBVHJzf"
36 //         );
37 //
38 //         \Stripe\Stripe::setApiKey($stripe['secret_key']);
39 //
40 //         if ($_POST['paid'] > 0) {
41 //             $charge = \Stripe\Charge::create(array("amount" =>
42 //                 $_POST['paid'],
43 //                 "currency" => "
44 //                 usd",
45 //                 "source" =>
46 //                 $token,
47 //                 "description" => $_POST['name']));
48 //         }
49 //     }
50 // }
51 // catch(\Stripe\Error\Card $e) {
52 //     print "The card has been declined. Please try another card.";
53 // }
54 //
55 // if ($_POST['paid'] > 0) {
56 //     $fp = fopen("/home/4/p/piperpal/data.csv", "a+");
57 //     fwrite($fp, "push;" . time() . ";" . $_SERVER['REMOTE_ADDR'] . ";" .
58 //         $_POST['name'] . ";" . $token . "\n");
59 //     fclose($fp);
60 //     $db = mysqli_connect("piperpal.mysql.domeneshop.no", "piperpal", "
61 //         xxxxxxxx", "piperpal");
62 //     $query = "INSERT_IGNORE INTO piperpal_(name, _location, _service, _
63 //         glat, _glon, _modified, _created, _paid, _token, _type, _email) VALUES
64 //         ('" . $_POST['name'] . "','" . $_POST['location'] . "','" .

```

```

$_POST[ 'service' ] . "','" . $_POST[ 'glat' ] . "','" . $_POST[ '
glon' ] . "','" . date("Y-m-d_h:i:s", strtotime($_POST[ '
notBefore' ])) . "','" . date("Y-m-d_h:i:s", strtotime($_POST[ '
notAfter' ])) . "','" . $_POST[ 'paid' ] . "','" . $_POST[ '
stripeToken' ] . "','" . $_POST[ 'stripeTokenType' ] . "','" .
$_POST[ 'stripeEmail' ] . "')_ON_DUPLICATE_KEY_UPDATE_modified_=
NOW()";
49 $result = $db->query($query);
50 header("Location:_https://www.piperpal.com/?name=" . $_POST[ 'name' ]
. "&glat=" . $_POST[ 'glat' ] . "&location=" . $_POST[ 'location'
] . "&glon=" . $_POST[ 'glon' ] . "&service=" . $_POST[ 'service' ]
. "&paid=" . $_POST[ 'paid' ] );
51
52 print "<!DOCTYPE_html><html_lang='en'><head><meta_charset='utf-8'
/>";
53 print "<meta_http-equiv='refresh'_content='120;_url=https://www.
piperpal.com/?query=" . $_POST[ 'name' ] . "&radius=10000&search=
Go&glat=" . $_POST[ 'glat' ] . "&glon=" . $_POST[ 'glon' ] . ">";
54
55 print "</head>\n";
56 print "<body>\n";
57 print "<h1>piperpal.com</h1>\n";
58 print "&lt;location_name=\"" . $_POST[ 'name' ] . "\"_location=\"" .
$_POST[ 'location' ] . "\"_service=\"" . $_POST[ 'service' ] . "\"_
glat=\"" . $_POST[ 'glat' ] . "\"_glon=\"" . $_POST[ 'glon' ] . "\"
_notbefore=\"" . date("Y-m-d_h:i:s", strtotime($_POST[ 'notBefore
' ])) . "\"_notafter=\"" . date("Y-m-d_h:i:s", strtotime($_POST[ '
notAfter' ])) . "\"_paid=\"" . $_POST[ 'paid' ] . "\"_/&gt;";
59 // print "<p>We_will_process_the_payment... </p>\n";
60 print "<p>Redirecting_to_the_Location_search_engine.</p>\n";
61 }
62
63 exit(0);
64
65 ?>

```

---

## Chapter 16

# Resolver Interface on World Wide Web – api.piperpal.com/resolver/

### 16.1 Source: <https://api.piperpal.com/resolver/index.php>

Listing 16.1: Insert code directly in your document

---

```
1 <?php
2
3 $fp = fopen("/home/4/p/piperpal/rank.csv", "a+");
4 fwrite($fp, "rank:" . $_SERVER['REMOTE_ADDR'] . ";" . $_GET['name'] . "
   ;" . $_GET['location'] . ";" . $_GET['service'] . ";" . $_GET['paid
   ' ] . "\n");
5 fclose($fp);
6 #header("Location: https://piperpal.com/cft/s/?name=" . $_GET['name'] .
   "&glat=" . $_GET['glat'] . "&location=" . $_GET['location'] . "&
   glon=" . $_GET['glon'] . "&service=" . $_GET['service'] . "&paid="
   . $_GET['paid']);
7 #https://api.piperpal.com/resolver/?name=Wikipedia+%28Encyclop%C3%A6dia
   %29&service=Books&location=http://www.wikipedia.org/&glat
   =59.93405070&glon=10.74806250&paid=1
8 #exit(0);
9
10 # echo $_SERVER['REMOTE_ADDR'];
11
12 # if ($_SERVER['REMOTE_ADDR']=="178.255.144.178" || $_SERVER['
   REMOTE_ADDR']=="51.175.144.124") {
13 if ($_SERVER['REMOTE_ADDR']=="178.255.144.178") {
```

```
14 $db = mysqli_connect("piperpal.mysql.domeneshop.no", "piperpal", "
    xxxxxxxx", "piperpal");
15 $query = "INSERT INTO piperpal_(name, location, service, glat, glon,
    paid)_VALUES_(' . $_GET['name'] . "', '_ . $_GET['location'] .
    "', '_ . $_GET['service'] . "', '_ . $_GET['glat'] . "', " .
    $_GET['glon'] . "', " . $_GET['paid'] . ")_WHERE_NOT_EXISTS_(
    SELECT_name_FROM_piperpal_WHERE_name_=' . $_GET['name'] . "')
    ";
16 // print $query . "\n";
17 $result = $db->query($query);
18 }
19 ?>
```

---

## Chapter 17

# Market Interface – [www.piperpal.com/market/](https://www.piperpal.com/market/)

### 17.1 Source: <https://www.piperpal.com/market/index.cgi>

Listing 17.1: Insert code directly in your document

---

```
1 #!/usr/bin/perl
2
3 # Copyright (C) 2018 Ole Aamot Software
4 #
5 # Author: ole@aamotsoftware.com
6 #
7 # Date: 2018-04-06T06:40:00+01
8 #
9 # Field: Incremental, location, sql, perl
10 #
11 # URL: https://www.piperpal.com/market/index.cgi
12
13 use strict;
14 use warnings;
15 use DBI;
16 use CGI qw/:standard/;
17 use CGI::Cookie;
18 use lib '../..';
19 use Piperpal;
20
21 my $c = CGI->new;
22 print "Content-Type: \text/html\n\n";
23 print <<EOF;
24 <!DOCTYPE html>
25 <html lang="en">
```

```

26 <head>
27
28 <!--[if IE]><![endif]-->
29 <meta charset="utf-8">
30
31 <!--[if IE 8]>
32 <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49
    .css" media="all" rel="stylesheet" type="text/css" />
33 <![endif]-->
34 <!--[if !(IE 8)]><!-->
35 <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css
    " media="all" rel="stylesheet" type="text/css" />
36 <!--<![endif]-->
37
38 <!--[if lt IE 9]>
39 <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c.
    css" media="all" rel="stylesheet" type="text/css" />
40 <![endif]-->
41
42 <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
    screen" rel="stylesheet" type="text/css" />
43 <!--[if IE 7]>
44 <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
    media="screen" rel="stylesheet" type="text/css" />
45 <![endif]-->
46 <!--[if IE 6]>
47 <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
    media="screen" rel="stylesheet" type="text/css" />
48 <![endif]-->
49 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-tours.php"></script>
50 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
    smoothness/jquery-ui.css">
51 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
52 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
53
54 <link rel="dns-prefetch" href="//maps.googleapis.com">
55 <link rel="dns-prefetch" href="//maps.gstatic.com">
56 <link rel="dns-prefetch" href="//mts0.googleapis.com">
57 <link rel="dns-prefetch" href="//fonts.googleapis.com">
58 <link rel="dns-prefetch" href="//www.piperpal.com">
59 <title>piperpal.com - Location-based Search Engine</title>
60 <link href="my_style_form.css" type="text/css" rel="stylesheet" />
61 <link href='http://fonts.googleapis.com/css?family=Titillium+Web
    :700' rel='stylesheet' type='text/css'>
62 <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
    rel='stylesheet' type='text/css'>
63 <meta charset="utf-8" />
64 <script>
65 function price_changed() {
66     var priceWidget = document.getElementById('price');
67     var price = priceWidget.options[priceWidget.selectedIndex].
        value;

```

```

68     var stripeSubmit = document.getElementsByClassName( 'stripe-
        button-el')[0];
69     var regularSubmit = document.getElementById( 'regular-submit');
70     if ( price > 0 ) {
71         stripeSubmit.style.display = 'inline-block';
72         regularSubmit.style.display = 'none';
73     } else {
74         stripeSubmit.style.display = 'none';
75         regularSubmit.style.display = 'inline-block';
76     }
77 }
78
79 function updateGeo() {
80     var glat = document.getElementById("glat");
81     var glon = document.getElementById("glon");
82
83     glat.value = position.coords.latitude;
84     glon.value = position.coords.longitude;
85
86     alert(glat+", "+glon);
87 }
88
89 function getWikipedia() {
90     jQuery(function($) {
91         $.getJSON( 'http://api.geonames.org/findNearbyWikipediaJSON?
            formatted=true&lat='+ position.coords.latitude + '&lng='+
            position.coords.longitude + '&username=username&style=full&lang=
            en&wikipediaUrl&thumbnailimg', function(json){
92
93             for(var i = 0; i < json.geonames.length; i++)
94             {
95                 $("#wikipedia").prepend( '<span_style="font-family:_geneva,
                    _arial, _helvetica, _sans-serif;"><br><br><img_src="wikilogo.
                    gif"><br>' + json.geonames[i].summary + '<br><a_href="http
                    ://'+ json.geonames[i].wikipediaUrl + '&_target="_blank">' +
                    json.geonames[i].wikipediaUrl + '</a><br></span>');
96             }
97         }); });
98 }
99
100 function submit() {
101     // Strip hijacks the form submit, so we need to un-hijack it.
102     var form = document.getElementById( 'form' );
103     form.submit();
104 }
105 </script>
106 <meta http-equiv="Content-Type" content="text/html;_charset=UTF-8"
    >
107 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
108 <link href="//fonts.googleapis.com/css?family=Titillium+Web:300
    italic,400,700,400italic,600italic" rel='stylesheet' type='text
    /css' >
109 <link href="//fonts.googleapis.com/css?family=Titillium+Web:300
    italic,400,700,400italic,600italic" rel='stylesheet' type='text

```

```

    /css '>
110
111 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
    smoothness/jquery-ui.css">
112 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
113 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
114
115 <script type="text/javascript" src="https://www.piperpal.com/jquery
    -1.9.1.min.js"></script>
116 <script type="text/javascript" src="https://www.piperpal.com/jquery
    .autocomplete.min.js"></script>
117 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete.php"></script>
118 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-names.php"></script>
119 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-services.php"></script>
120 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-locations.php"></script>
121 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-queries.php"></script>
122 <meta name="viewport" content="width=620" />
123 <script>
124 \$(function() {
125 \$( "#datepicker" ).datepicker\(\)\;
126 \$( "#simple-search-tourout" ).datepicker\(\)\;
127 \}\)\;
128 </script>
129 </head>
130 <body style="background: #ffffff;" onload="document.getElementById
    ('query').focus();">
131 <script type="text/javascript" src="http://maps.google.com/maps/api
    /js?sensor=true"></script>
132 <!--script type="text/javascript" src="http://maps.google.com/maps/
    api/js?sensor=false"--></script-->
133 <script>
134 function success(position) {
135 var s = document.querySelector('#status');
136
137 if (s.className == 'success') {
138 // not sure why we're hitting this twice in FF, I think it's to
    do with a cached result coming back
139 return;
140 }
141
142 s.innerHTML = '<input type=hidden class="input_form_custom"
    name=glat_value=' + position.coords.latitude + '><input
    type=hidden class="input_form_custom" name=glon_value=' +
    position.coords.longitude + '>';
143 s.className = 'success';
144
145 var q = document.querySelector('#status_publisher');
146
147 if (q.className == 'success') {

```



```

148     // not sure why we're hitting this twice in FF, I think it's to
149     // do with a cached result coming back
150     return;
151 }
152 q.innerHTML = '<img_src="img/Latitude_Icon.png" _title="Latitude
    _of_Location-aware_Content_Tag" _class="icon_form" _height
    ="36" _width="36"><input_type=text_class="input_form_custom"
    _name=glat_size=16_value=' + position.coords.latitude + '
    /><br/><img_src="img/Longitude_Icon.png" _title="Longitude
    of_Location-aware_Content_Tag" _class="icon_form" _height
    ="36" _width="36"><input_type=text_class="input_form_custom"
    _name=glon_size=16_value=' + position.coords.longitude + '
    />';
153
154 // '<input_type=text_name=glat_size=16_value=' + position.
    coords.latitude + ' /><input_type=text_name=glon_size=16
    value=' + position.coords.longitude + ' />';
155 q.className = 'success';
156
157 var r = document.querySelector('#status_lns');
158
159 if (r.className == 'success') {
160     // not sure why we're hitting this twice in FF, I think it's to
161     // do with a cached result coming back
162     return;
163 }
164 r.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
    Latitude_of_Location-aware_Content_Tag" _class="icon_form"
    _height="36" _width="36"><input_type=text_class="
    input_form_custom" _name=glat_size=16_value=' + position.
    coords.latitude + ' /><br/><img_src="img/Longitude_Icon.
    png" _title="Longitude_of_Location-aware_Content_Tag" _class
    ="icon_form" _height="36" _width="36"><input_type=text_class
    ="input_form_custom" _name=glon_size=16_value=' + position.
    coords.longitude + ' />';
165
166 // '<input_type=hidden_class="input_form_custom" _name=glat_value=' +
    position.coords.latitude + ' /><input_type=hidden_class="
    input_form_custom" _name=glon_value=' + position.coords.longitude +
    ' />';
167 r.className = 'success';
168
169 var mapcanvas = document.createElement('div');
170 mapcanvas.id = 'mapcanvas';
171 mapcanvas.style.height = '400px';
172 mapcanvas.style.width = '640px';
173
174 document.querySelector('article').appendChild(mapcanvas);
175
176 var latlng = new google.maps.LatLng(position.coords.latitude ,
    position.coords.longitude);
177 var myOptions = {

```

```

178     zoom: 15,
179     center: latlng,
180     mapTypeControl: false,
181     navigationControlOptions: {style: google.maps.
      NavigationControlStyle.SMALL},
182     mapTypeId: google.maps.MapTypeId.ROADMAP
183   };
184   var map = new google.maps.Map(document.getElementById("mapcanvas"),
      myOptions);

185
186   var marker = new google.maps.Marker({
187     position: latlng,
188     map: map,
189     title: "You_are_here!_(at_least_within_a_" + position.
      coords.accuracy + "_meter_radius)"
190   });
191
192   var locations = [
193     [ 'Banja_Luka', 44.766666699999990000, 17.183333299999960000,
194       4],
195     [ 'Tuzla', 44.532841000000000000, 18.670499999999947000, 5],
196     [ 'Zenica', 44.203439200000000000, 17.907743200000027000, 3],
197     [ 'Sarajevo', 43.850000000000000000, 18.250000000000000000, 2],
198     [ 'Mostar', 43.333333300000000000, 17.799999999999954000, 1]
199   ];
200   var infowindow = new google.maps.InfoWindow();
201
202   var marker, i;
203   for (i = 0; i < locations.length; i++) {
204     marker = new google.maps.Marker({
205       position: new google.maps.LatLng(locations[i][1], locations[i]
206         ][2]),
207       map: map
208     });
209     google.maps.event.addListener(marker, 'click', (function (marker, i) {
210       return function () {
211         infowindow.setContent(locations[i][0]);
212         infowindow.open(map, marker);
213       }
214     })(marker, i));
215   }
216 }
217
218 function error(msg) {
219   // var s = document.querySelector('#status');
220   // s.innerHTML = typeof msg == 'string' ? msg : "failed";
221   // s.className = 'fail';
222
223   // console.log(arguments);
224 }
225
226 if (navigator.geolocation) {

```

```

227     navigator.geolocation.getCurrentPosition(success, error);
228 } else {
229     error('not_supported');
230 }
231
232 </script>
233
234     <center><table><tr><td valign='top' width=600><a href="https://www.
        piperpal.com/"><img src='/piperpal.png' alt='piperpal.com_Logo'
        width=600/></a></td></tr></table>
235
236     <div class="background_form">
237 EOF
238
239 print "<table>";
240 print "<tr><td valign='top' width=600>";
241 print "<center><h3>Discover_the_world_around_you</h3></center>";
242 print "</td></tr></table>";
243 &Piperpal::select_location();
244 print "<br_/>";
245 print "<p>Hint:_You_could_markup_with_&lt;location&gt;_tag_in_<a href='
        https://www.w3.org/wiki/HTML/next#.3Clocation.3E_element_.28like_
        .29_for_expressing_geo_information.2C_eg_with_attributes_lat.2
        C_long.2C_altitude'>HTML.next</a><br_/>";
246 print "Proposal:_<a href='\"https://www.aamotsoftware.com/location.html
        \">>https://www.aamotsoftware.com/location.html</a><br_/>";
247 print "JSON_in_HTML5:_<a href='\"https://www.piperpal.com/google.html\">
        https://www.piperpal.com/google.html</a></p>";
248 print "<p><a href='\"https://www.stripe.com/'><img alt='Powered_by_
        stripe \\'_src='\"/powered_by_stripe.png\"'/></a>&nbsp;<a href='\"https
        ://play.google.com/store/apps/details?id=com.piperpal.api.android&
        pcampaignid=MKT-Other-global-all-co-prtnr-py-PartBadge-Mar2515-1\"><
        img alt='Get_it_on_Google_Play \\'_src='\"/google-piperpal.png\"'/></a
        ></p>";
249 print "<p>Copyright_&copy;_2015-2020_<location_name='Aamot_Software' _
        href='https://www.aamotsoftware.com/'_lat='37.4219999'_lon
        ='-122.0862462'_service='Electronics'>Aamot_Software</location><br_
        /><location_name='Piperpal'_href='https://www.piperpal.com/'_lat
        ='59.94215220'_lon='10.71697530'_service='Crawler'>Oslo,_Norway</
        location><_<location_name='Piperpal'_href='https://www.piperpal.
        com/'_lat='37.879015'_lon='-122.262425'_service='Crawler'>Berkeley,
        _California,_USA</location></p>";
250 print "</td></tr></table>\n";
251 print "</body>\n</html>\n";

```

---



## Chapter 18

# Buying Interface – www.piperpal.com/google.html

### 18.1 Source: <https://www.piperpal.com/google.html>

Listing 18.1: Insert code directly in your document

---

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="user-scalable=no, _initial-scale=1.0,
6       _maximum-scale=1.0, _width=device-width">
7     <!--[if IE 8]>
8     <link href="/css/common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
9       css" media="all" rel="stylesheet" type="text/css" />
10    <![endif]-->
11    <!--[if !(IE 8)]><!-->
12    <link href="/css/common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
13      media="all" rel="stylesheet" type="text/css" />
14    <!--<![endif]-->
15
16    <!--[if lt IE 9]>
17    <link href="/css/airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c
18      .css" media="all" rel="stylesheet" type="text/css" />
19    <![endif]-->
20
21    <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
22      screen" rel="stylesheet" type="text/css" />
23
24    <!--[if IE 7]>
25    <link href="/css/p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
26      media="screen" rel="stylesheet" type="text/css" />
```

```

20     <![endif]—>
21 <!--[if IE 6]>
22     <link href="/css/p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
23         media="screen" rel="stylesheet" type="text/css" />
24     <![endif]—>
25 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
26     smoothness/jquery-ui.css">
27 <link rel="dns-prefetch" href="//maps.googleapis.com">
28 <link rel="dns-prefetch" href="//maps.gstatic.com">
29 <link rel="dns-prefetch" href="//mts0.googleapis.com">
30 <link rel="dns-prefetch" href="//fonts.googleapis.com">
31 <link rel="dns-prefetch" href="//www.piperpal.com">
32 <title>piperpal.com – Location-based Search Engine</title>
33 <link href="my_style_form.css" type="text/css" rel="stylesheet" />
34 <link href='http://fonts.googleapis.com/css?family=Titillium+Web
35     :700' rel='stylesheet' type='text/css'>
36 <link href='http://fonts.googleapis.com/css?family=Titillium+Web'
37     rel='stylesheet' type='text/css'>
38 <script type='text/javascript' src='https://cdnjs.cloudflare.com/
39     ajax/libs/jquery/3.3.1/jquery.min.js'></script>
40 </head>
41 <!-- Styles -->
42 <style>
43     #name_label{
44     display: inline-block;
45     width: 100px;
46     text-align: right;
47     }
48     #name_submit{
49     padding-left: 100px;
50     }
51     #name_div{
52     margin-top: 1em;
53     }
54     textarea{
55     vertical-align: top;
56     height: 5em;
57     }
58
59     .error{
60     display: none;
61     margin-left: 10px;
62     }
63
64     .error_show{
65     color: red;
66     margin-left: 10px;
67     }
68
69     input.invalid, textarea.invalid{
70     border: 2px solid red;
71     }
72
73     input.valid, textarea.valid{

```

```

69     border: 2px solid green;
70     }
71     input {
72     padding: 10px;
73     font: 20px Arial;
74     width: 70%;
75     }
76     </style>
77     <body>
78     <!-- JavaScript Code -->
79     <script>
80         var currencyInput = document.querySelector('input[ type="currency
81             " ]');
82         var currency = 'USD' // https://www.currency-iso.org/dam/
83             downloads/lists/list_one.xml
84         // format initial value
85         onBlur({ target: currencyInput })
86         // bind event listeners
87         currencyInput.addEventListener('focus', onFocus)
88         currencyInput.addEventListener('blur', onBlur)
89
90         function localStringToNumber( s ){
91             return Number(String(s).replace(/^[^0-9.-]+/g, ""))
92         }
93
94         function onFocus(e){
95             var value = e.target.value;
96             e.target.value = value ? localStringToNumber(value) : ''
97         }
98
99         function onBlur(e){
100             var value = e.target.value
101
102             var options = {
103                 maximumFractionDigits : 2,
104                 currency                : 'currency',
105                 style                  : "currency",
106                 currencyDisplay        : "symbol"
107             }
108
109             e.target.value = (value || value === 0)
110                 ? localStringToNumber(value).toLocaleString( undefined ,
111                     options)
112                 : ''
113         }
114
115         $(document).ready(function() {
116             <!-- Real-time Validation -->
117             <!-- Name can't be blank -->
118             <u>$( '#name' ).on( 'input', function() {
119                 var input=$(this);

```

```

120     var is_name=input.val();
121     if(is_name){input.removeClass("invalid").addClass("valid");}
122     else{input.removeClass("valid").addClass("invalid");}
123     });
124
125     <!--Email must be an email -->
126     $('#email').on('input', function() {
127     var input=$(this);
128     var re = /^[a-zA-Z0-9.!#$%&*+/?^_{'|}~-]+@[a-zA-Z0-9-]+(?:\.[a-
129     zA-Z0-9-]+)*$/;
130     var is_email=re.test(input.val());
131     if(is_email){input.removeClass("invalid").addClass("valid");}
132     else{input.removeClass("valid").addClass("invalid");}
133     });
134
135     <!--Website must be a website -->
136     $('#location').on('input', function() {
137     var input=$(this);
138     if (input.val().substring(0,4)=='www.'){input.val('http://www.'+
139     input.val().substring(4));}
140     var re = /(http|ftp|https):\/\/[\w-]+(\.[\w-]+)+([\w.,@^=%%&
141     ;\/~+#-]*[\w@^=%%&;\/~+#-])?/;
142     var is_url=re.test(input.val());
143     if(is_url){input.removeClass("invalid").addClass("valid");}
144     else{input.removeClass("valid").addClass("invalid");}
145     });
146
147     <!--Message can't be blank-->
148     $('#service').keyup(function(event) {
149     var input=$(this);
150     var message=$(this).val();
151     console.log(message);
152     if(message){input.removeClass("invalid").addClass("valid");}
153     else{input.removeClass("valid").addClass("invalid");}
154     });
155
156     <!-- After Form Submitted Validation-->
157     $("#submit_button").click(function(event){
158     var form_data=$("#name").serializeArray();
159     var error_free=true;
160     for (var input in form_data){
161     var element=$("#name_"+form_data[input]['name']);
162     var valid=element.hasClass("valid");
163     var error_element=$("#span", element.parent());
164     if (!valid){error_element.removeClass("error").addClass("
165     error_show"); error_free=false;}
166     else{error_element.removeClass("error_show").addClass("error");}
167     }
168     if (!error_free){
169     event.preventDefault();
170     }
171     else{
172     alert('No_errors:_Form_will_be_submitted');
173     }

```



```

170     });
171     });
172 </script>
173 <h1><a href="https://www.piperpal.com/">Piperpal</a></h1>
174 <form id="form" method="GET" action="https://api.piperpal.com/
      location/push.php">
175     <table>
176     <tr>
177         <td>Text: <input id="name" type="text" name="name" placeholder="
              Example:_FriendliestCoffeeShop" size="24" /><span class="
              error">This field is required</span></td>
178     </tr>
179     <tr>
180         <td>Email: <input id="email" type="text" name="email" placeholder
              ="your.name@gmail.com" /><span class="error">This field is
              required</span></td>
181     </tr>
182     <tr>
183         <td>Service: <select id="service" name="service"><option value="
              Restaurant">Restaurant</option><option value="Bar">Bar</
              option><option value="Concert">Concert</option><option value=
              "Film">Film</option><option value="Books">Books</option><
              option value="Health">Health</option><option value="Clothes">
              Clothes</option><option value="Food">Food</option><option
              value="Music">Music</option><option value="Electronics">
              Electronics</option><option value="Transport">Transport</
              option><option value="Rental">Rental</option></select></td>
184     </tr>
185     <tr>
186         <td>Location: <input type="text" name="location" placeholder="
              https://yourwebsite.com/" /></td>
187     </tr>
188     <!--
189     <tr>
190         <td>Latitude: <input type="text" name="glat" value="37.4375596"
              ></td>
191     </tr>
192     <tr>
193         <td>Longitude: <input type="text" name="glon" value="
              -122.11922789999998"></td>
194     </tr>
195     <tr>
196         <td>Payment ( ): <input type="currency" name="paid" value="42"
              placeholder="Type_a_price"></td>
197     </tr>
198     <tr>
199         <td><input type="submit" name="Submit" value="Submit" /></td>
200     </tr>
201 </table>
202 </form>
203 <h2>Piperpal / Were / Here / After</h2>
204 <p>Peter Norvig came up with <a href="https://api.piperpal.com/
      location/push.php?name=FriendliestCoffeeShop&service=Search&

```

- location=<https://research.google.com/&glat=37.4375596&glon=-122.11922789999998&paid=43>& FriendliestCoffeeShop at <https://api.piperpal.com/location/push.php?name=GoogleVisitorCenter&service=Search&location=https://www.google.com/&glat=37.4375596&glon=-122.11922789999998&paid=42>& GoogleVisitorCenter</a>:<a href="https://piperpal.com/service/0/service.php">%Search</a> in Palo Alto, California in 2015.</p>
- 205 <p>Ole thought that the <a href="https://api.piperpal.com/location/push.php?name=FriendliestCoffeeShop&service=Search&location=https://www.kaffebrenneriet.no/butikkene/1%C3%B8renveien-43-1%C3%B8ren&glat=59.930553&glon=10.7919344&paid=42">& FriendliestCoffeeShop</a> is at <a href="https://api.piperpal.com/location/push.php?name=Kaffebrenneriet&service=Search&location=https://www.kaffebrenneriet.no/butikkene/1%C3%B8renveien-43-1%C3%B8ren&glat=59.930553&glon=10.7919344&paid=42">& Kaffebrenneriet</a>:<a href="https://piperpal.com/service/8/service.php">%Food</a> in Oslo, Norway in 2019.</p>
- 206 <p>Moddi played a solo concert at the <a href="https://api.piperpal.com/location/push.php?name=CoziestVinylShop&service=Music&location=http://www.bigdipper.no/&glat=59.9137584&glon=10.7433188&paid=42">&CoziestVinylShop</a> and signed his brand new record on our request at <a href="https://api.piperpal.com/location/push.php?name=BigDipper&service=Music&location=http://www.bigdipper.no/&glat=59.9137584&glon=10.7433188&paid=42">& PlatebutikkenBigDipper</a>:<a href="https://piperpal.com/service/9/service.php">%Music</a> on September 11, 2019.
- 207 <p>We thought that the <a href="https://api.piperpal.com/location/push.php?name=ClassyItalianRestaurant&service=Restaurant&glat=59.9181062&glon=10.7405857&location=http://www.tekehtopa.no/&paid=42">& ClassyItalianRestaurant</a> is <a href="https://api.piperpal.com/location/push.php?name=Tekehtopa&service=Restaurant&glat=59.9181062&glon=10.7405857&location=http://www.tekehtopa.no/&paid=42">& Tekehtopa</a>:<a href="https://piperpal.com/service/1/service.php">%Restaurant</a> in Oslo, Norway on September 11, 2019.</p>
- 208 <p>We ate at <a href="https://api.piperpal.com/location/push.php?name=TheBestLunchPlace&service=Restaurant&location=http://www.cafediroma.no/&glat=59.9224999&glon=10.7549504&paid=42">& TheBestLunchPlace</a> on July 4th, 2020 which we thought was as good as <a href="https://api.piperpal.com/location/push.php?name=CafediRoma&service=Restaurant&location=http://www.cafediroma.no/&glat=59.9224999&glon=10.7549504&paid=42">& CafediRoma</a>:<a href="https://piperpal.com/service/1/service.php">%Restaurant</a> in Sofienberggata 6, Oslo at 12:00.</p>
- 209 <p>We got similar <a href="https://api.piperpal.com/location/push.php?name=WarmNordicJackets&service=Clothes&location=http://www.stormberg.com/&glat=59.9292125&glon=10.7898633&paid=42">& WarmNordicJackets</a> from <a href="https://api.piperpal.com/location/push.php?name=StormbergOslo&service=Clothes&location=http://www.stormberg.com/&glat=59.9292125&glon=10.7898633&paid=42">& StormbergOslo</a>:<a href="https://piperpal.com/service/7/service.php">%Clothes</a> which we thought was better than <a href="https://api.piperpal.com/location/push.php?name=

```

HellyHansen&service=Clothes&location=http://www.hellyhansen.com
/&paid=42">&HellyHansen</a>:<a href="https://piperpal.com/
service/7/service.php">%Clothes</a> for shorter tours in <a
href="https://piperpal.com/Frognerparken">&Frognerparken</a>:<a
href="https://piperpal.com/service/4/service.php">%Film</a> at
20:00 on January, 4th 2022.</p>
210 <script type="text/javascript" src="https://api.piperpal.com/
location/?service=Search">
211 </script>
212 <script
213 src="https://code.jquery.com/jquery-3.3.1.js"
214 integrity="sha256-2Kok7MbOyxpUVvAk/HJ2jigOSYS2auK4Pfbm7uH60="
215 crossorigin="anonymous">
216 var newLink = "https://api.piperpal.com/location/?service=Search"
;
217 $('script').each(function() {
218 var link = $(this).attr('src');
219 })
220 </script>
221 <script language="JavaScript">
222 var obj = JSON.parse(locations);
223 for (i=0; i < obj.locations.length; i++) {
224 document.write("<p><h2><a href='https://piperpal.com/' +
obj.locations[i].name + '>'> + obj.locations[i].name +
"</a></h2><p>" + obj.locations[i].distance + "_km_away
</p><p><b><a href=' " + obj.locations[i].location + "'> "
+ obj.locations[i].location + "</a></b></p><p><i>" +
obj.locations[i].service + "_ " + "</i></p>\n");
225 }
226 </script>
227 </td>
228 </tr>
229 </table>
230 </body>
231 </html>

```

## 18.2 Source: <https://www.piperpal.com/cft/index.php>

Listing 18.2: Insert code directly in your document

```

1 <html>
2 <head>
3 <title>Piperpal</title>
4 <!--[if IE]><![endif]-->
5 <meta charset="iso-8859-1">

```

```

6     <meta name="viewport" content="user-scalable=no,initial-scale=1.0,
7         _maximum-scale=1.0,_width=device-width">
8     <!--[if IE 8]>
9         <link href="common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.css"
10            media="all" rel="stylesheet" type="text/css" />
11     <![endif]-->
12 <!--[if !(IE 8)]><!-->
13     <link href="common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
14        media="all" rel="stylesheet" type="text/css" />
15 <!--<![endif]-->
16 <!--[if lt IE 9]>
17     <link href="airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c.css"
18        media="all" rel="stylesheet" type="text/css" />
19 <![endif]-->
20 <!--[if IE 7]>
21     <link href="main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
22        screen" rel="stylesheet" type="text/css" />
23 <!--[if IE 6]>
24     <link href="p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css" media="
25        screen" rel="stylesheet" type="text/css" />
26 <!--[endif]-->
27 <!-- FIXME
28 <script type="text/javascript" src="http://www.piperpal.com/piperpal-
29     autocomplete-tours.php"></script>
30 -->
31 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
32     smoothness/jquery-ui.css">
33 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
34 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
35 <link rel="stylesheet" href="/resources/demos/style.css">
36 <script>
37     $(function() {
38         $( "#simple-search-tourin" ).datepicker();
39         $( "#simple-search-tourout" ).datepicker();
40     });
41 </script>
42 </head>
43 <body>
44     
45     <form id="searchbar-form" action="s">
46     <label for="simple-search-location" class="screen-reader-only">
47         What do you describe?
48     </label>
49     <input type="text"
50         placeholder="Location_Tag?"
51         autocomplete="on"
52         name="location"
53         id="simple-search-location"
54         class="input-large_js-search-location"
55         value="<?php_echo_$_GET['location'];_?>"
56     </label for="simple-search-location" class="screen-reader-only">

```

```

51     What do you provide?
52 </label>
53 <input type="text"
54     placeholder="Location_Service?"
55     autocomplete="on"
56     name="service"
57     id="simple-search-service"
58     class="input-large_js-search-service"
59     value="<?php_echo_$_GET['service'];_?>"
60 <div class="row_row-condensed_space-top-2_space-2">
61     <div class="col-sm-6">
62         <label for="simple-search-tourin" class="screen-reader-only">
63             Tour in
64         </label>
65         <input
66             id="simple-search-tourin"
67             type="text"
68             name="notBefore"
69             class="input-large_tourin_js-search-tourin"
70             placeholder="Not_Before">
71     </div>
72     <div class="col-sm-6">
73         <label for="simple-search-tourout" class="screen-reader-only">
74             Tour out
75         </label>
76         <input
77             id="simple-search-tourout"
78             type="text"
79             name="notAfter"
80             class="input-large_tourout_js-search-tourout"
81             placeholder="Not_After">
82     </div>
83 </div>
84
85 <div class="select_select-block_space-2">
86     <label for="simple-search-price" class="screen-reader-only">
87         Price
88     </label>
89     <select id="simple-search-price" name="paid" class="js-search-
90         price">
91         <option value="1">1</option>
92     <option value="2">2</option>
93     <option value="3">3</option>
94     <option value="4">4</option>
95     <option value="5">5</option>
96     <option value="6">6</option>
97     <option value="7">7</option>
98     <option value="8">8</option>
99     <option value="9">9</option>
100    <option value="10">10</option>
101    </select>
102 </div>
103 <button type="submit" class="btn_btn-primary_btn-large_btn-block">
    Search

```

```

104     </button>
105 </form>
106 </body>
107 </html>

```

---

## 18.3 Source: <https://www.piperpal.com/cft/s/index.php>

Listing 18.3: Insert code directly in your document

---

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <meta name="viewport" content="user-scalable=no,initial-scale=1.0,
6   _maximum-scale=1.0,_width=device-width">
7 <title>piperpal.com - Location-based Search Engine</title>
8 <!--[if IE]><![endif-->
9 <!--[if IE 8]>
10 <link href=" ../common_o2.1_ie8-91981ea8f3932c01fab677a25d869e49.
11   css" media="all" rel="stylesheet" type="text/css" />
12 <![endif-->
13 <!--[if !(IE 8)]><!-->
14 <link href=" ../common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.css"
15   media="all" rel="stylesheet" type="text/css" />
16 <!--<![endif-->
17 <!--[if lt IE 9]>
18 <link href=" ../airglyphs-ie8-9f053f042e0a4f621cbc0cd75a0a520c.css
19   " media="all" rel="stylesheet" type="text/css" />
20 <![endif-->
21 <link href=" ../main-f3fcc4027aaa2c83f08a1d51ae189e3b.css" media="
22   screen" rel="stylesheet" type="text/css" />
23 <!--[if IE 7]>
24 <link href=" ../p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css" media=
25   "screen" rel="stylesheet" type="text/css" />
26 <![endif-->
27 <!--[if IE 6]>
28 <link href=" ../p1_ie_6-7d6a1fd8fe9dfd1ce357f6b864c83979.css" media=
29   "screen" rel="stylesheet" type="text/css" />
30 <![endif-->
31 <meta http-equiv="Content-Type" content="text/html;_charset=utf-8"
32   >
33 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
34 <link href='//fonts.googleapis.com/css?family=Titillium+Web:300
35   italic,400,700,400italic,600italic' rel='stylesheet' type='text

```

```

    /css '>
29 <link href='//fonts.googleapis.com/css?family=Titillium+Web:300
    italic,400,700,400italic,600italic' rel='stylesheet' type='text
    /css '>
30 <script type="text/javascript" src="https://www.piperpal.com/jquery
    -1.9.1.min.js"></script>
31 <script type="text/javascript" src="https://www.piperpal.com/jquery
    .autocomplete.min.js"></script>
32 <!-- FIXME
33 <script type="text/javascript" src="https://www.piperpal.com/
    yaylocation-autocomplete.php"></script>
34 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-names.php"></script>
35 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-services.php"></script>
36 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-locations.php"></script>
37 <script type="text/javascript" src="https://www.piperpal.com/
    piperpal-autocomplete-queries.php"></script>
38 —>
39 <meta name="viewport" content="width=620" />
40 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/
    smoothness/jquery-ui.css">
41 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
42 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></script>
43 <link rel="stylesheet" href="/resources/demos/style.css">
44 <script>
45 $(function() {
46     $("#simple-search-tourin").datepicker();
47     $("#simple-search-tourout").datepicker();
48 });
49
50 function success(position) {
51     var s = document.querySelector('#status');
52
53     if (s.className == 'success') {
54         // not sure why we're_hitting_this_twice_in_FF,_I_think_it's to
55         // do with a cached result coming back
56         return;
57     }
58     s.innerHTML = '<input_type=hidden_class="input_form_custom" _
59         name=glat_value=' + position.coords.latitude + ' _/><input _
60         type=hidden_class="input_form_custom" _name=glon_value=' +
61         position.coords.longitude + ' _/>';
62     s.className = 'success';
63
64     var q = document.querySelector('#status_publisher');
65
66     if (q.className == 'success') {
67         // not sure why we're_hitting_this_twice_in_FF,_I_think_it's to
68         // do with a cached result coming back
69         return;
70     }

```

```

67
68     q.innerHTML = '<img_src="img/Latitude_Icon.png" _title="Latitude
        _of_Location-aware_Content_Tag" _class="icon_form" _height
        ="36" _width="36"><input_type=text_class="input_form_custom"
        _name=glat_size=16_value=' + position.coords.latitude + '
        /><br_/><img_src="img/Longitude_Icon.png" _title="Longitude_
        of_Location-aware_Content_Tag" _class="icon_form" _height
        ="36" _width="36"><input_type=text_class="input_form_custom"
        _name=glon_size=16_value=' + position.coords.longitude + '
        />';
69
70     // '<input_type=text_name=glat_size=16_value=' + position.
        coords.latitude + ' /><input_type=text_name=glon_size=16_
        value=' + position.coords.longitude + ' />';
71     q.className = 'success';
72
73     var r = document.querySelector( '#status_lns' );
74
75     if ( r.className == 'success' ) {
76         // not sure why we're_hitting_this_twice_in_FF, _I_think_it's to
        do with a cached result coming back
77         return;
78     }
79
80     r.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
        Latitude_of_Location-aware_Content_Tag" _class="icon_form"
        height="36" _width="36"><input_type=text_class="
        input_form_custom" _name=glat_size=16_value=' + position.
        coords.latitude + ' /><br_/><img_src="img/Longitude_Icon.
        png" _title="Longitude_of_Location-aware_Content_Tag" _class
        ="icon_form" _height="36" _width="36"><input_type=text_class
        ="input_form_custom" _name=glon_size=16_value=' + position.
        coords.longitude + ' />';
81
82     // '<input_type=hidden_class="input_form_custom" _name=glat_value=' +
        position.coords.latitude + ' /><input_type=hidden_class="
        input_form_custom" _name=glon_value=' + position.coords.longitude +
        ' />';
83     r.className = 'success';
84
85     var mapcanvas = document.createElement( 'div' );
86     mapcanvas.id = 'mapcanvas';
87     mapcanvas.style.height = '400px';
88     mapcanvas.style.width = '640px';
89
90     document.querySelector( ' article ' ).appendChild( mapcanvas );
91
92     var latlng = new google.maps.LatLng( position.coords.latitude ,
        position.coords.longitude );
93     var myOptions = {
94     zoom: 15,
95     center: latlng ,
96     mapTypeControl: false ,

```



```
97     navigationControlOptions: {style: google.maps.  
98         NavigationControlStyle.SMALL},  
99     mapTypeId: google.maps.MapTypeId.ROADMAP  
100 };  
101 var map = new google.maps.Map(document.getElementById("mapcanvas"),  
102     myOptions);  
103  
104 var marker = new google.maps.Marker({  
105     position: latlng,  
106     map: map,  
107     title: "You_are_here!(at_least_within_a_"+position.  
108         coords.accuracy+"_meter_radius)"  
109 });  
110  
111 var locations = [  
112     ['Banja_Luka', 44.76666669999990000, 17.183333299999960000,  
113         4],  
114     ['Tuzla', 44.5328410000000000000, 18.670499999999947000, 5],  
115     ['Zenica', 44.2034392000000000000, 17.907743200000027000, 3],  
116     ['Sarajevo', 43.8500000000000000000, 18.2500000000000000000, 2],  
117     ['Mostar', 43.3333333000000000000, 17.799999999999954000, 1]  
118 ];  
119  
120 var infowindow = new google.maps.InfoWindow();  
121  
122 var marker, i;  
123 for (i = 0; i < locations.length; i++) {  
124     marker = new google.maps.Marker({  
125         position: new google.maps.LatLng(locations[i][1], locations[i]  
126             ][2]),  
127         map: map  
128     });  
129  
130     google.maps.event.addListener(marker, 'click', (function (marker, i) {  
131         return function () {  
132             infowindow.setContent(locations[i][0]);  
133             infowindow.open(map, marker);  
134         }  
135     })(marker, i));  
136 }  
137  
138 function error(msg) {  
139     // var s = document.querySelector('#status');  
140     // s.innerHTML = typeof msg == 'string' ? msg : "failed";  
141     // s.className = 'fail';  
142  
143     // console.log(arguments);  
144 }  
145  
146 if (navigator.geolocation) {  
147     navigator.geolocation.getCurrentPosition(success, error);  
148 } else {  
149     error('not_supported');  
150 }
```

```

146 }
147
148 function updateGeo() {
149     var glat = document.getElementById("glat");
150     var glon = document.getElementById("glon");
151
152     glat.value = position.coords.latitude;
153     glon.value = position.coords.longitude;
154
155     alert(glat+", "+glon);
156 }
157 </script>
158
159 </head>
160 <body style="background: #ffffff">
161 <center>
162 <a href="https://www.piperpal.com/"></a>
164 <script type="text/javascript" src="http://maps.google.com/maps/api
165     /js?sensor=true"></script>
166 <script>
167 function success(position) {
168     var s = document.querySelector('#status');
169
170     if (s.className == 'success') {
171         // not sure why we're hitting this twice in FF, I think it's to
172         // do with a cached result coming back
173         return;
174     }
175
176     s.innerHTML = '<input type=hidden class="input_form_custom"
177         name=glat_value=' + position.coords.latitude + ' /><input
178         type=hidden class="input_form_custom" name=glon_value=' +
179         position.coords.longitude + ' />';
180     s.className = 'success';
181
182     var q = document.querySelector('#status_publisher');
183
184     if (q.className == 'success') {
185         // not sure why we're hitting this twice in FF, I think it's to
186         // do with a cached result coming back
187         return;
188     }
189
190     q.innerHTML = '<div class="service_form_input_form"><input type=text class="input_form_custom" name=
193         glat_size=16 value=' + position.coords.latitude + ' /></div
194     ><div class="service_form_input_form"><
196     input type=text class="input_form_custom" name=glon_size=16
197     value=' + position.coords.longitude + ' /></div>';

```

```
185         // '<input_type=text_name=glat_size=16_value=' + position.
            coords.latitude + ' /><input_type=text_name=glon_size=16_
            value=' + position.coords.longitude + ' />';
186     q.className = 'success';
187
188     var mapcanvas = document.createElement( 'div' );
189     mapcanvas.id = 'mapcanvas';
190     mapcanvas.style.height = '400px';
191     mapcanvas.style.width = '640px';
192
193     document.querySelector( 'article' ).appendChild( mapcanvas );
194
195     var latlng = new google.maps.LatLng( position.coords.latitude ,
            position.coords.longitude );
196     var myOptions = {
197     zoom: 15,
198     center: latlng ,
199     mapTypeControl: false ,
200     navigationControlOptions: { style: google.maps.
            NavigationControlStyle.SMALL },
201     mapTypeId: google.maps.MapTypeId.ROADMAP
202     };
203     var map = new google.maps.Map( document.getElementById( "mapcanvas" ),
            myOptions );
204
205     var marker = new google.maps.Marker( {
206     position: latlng ,
207     map: map,
208     title: "You_are_here!_(at_least_within_a_
            coords.accuracy+"_meter_radius)"
209     } );
210
211     var locations = [
212     [ 'Banja_Luka', 44.766666699999990000, 17.183333299999960000,
            4 ],
213     [ 'Tuzla', 44.532841000000000000, 18.670499999999947000, 5 ],
214     [ 'Zenica', 44.203439200000000000, 17.907743200000027000, 3 ],
215     [ 'Sarajevo', 43.850000000000000000, 18.250000000000000000, 2 ],
216     [ 'Mostar', 43.333333300000000000, 17.799999999999954000, 1 ]
217 ];
218
219 var infowindow = new google.maps.InfoWindow();
220
221 var marker, i;
222 for ( i = 0; i < locations.length; i++) {
223     marker = new google.maps.Marker( {
224     position: new google.maps.LatLng( locations[ i ][ 1 ], locations[ i
            ][ 2 ] ),
225     map: map
226     } );
227
228     google.maps.event.addListener( marker, 'click', ( function ( marker, i ) {
229     return function () {
230     infowindow.setContent( locations[ i ][ 0 ] );
```

```

231     infowindow.open(map, marker);
232     }
233         })(marker, i));
234     }
235 }
236
237 function error(msg) {
238     var s = document.querySelector('#status');
239     s.innerHTML = typeof msg == 'string' ? msg : "failed";
240     s.className = 'fail';
241
242     // console.log(arguments);
243 }
244
245 if (navigator.geolocation) {
246     navigator.geolocation.getCurrentPosition(success, error);
247 } else {
248     error('not_supported');
249 }
250
251 </script>
252 <form onsubmit='updateGeo()' id="searchbar-form" method='POST'
253     action='https://api.piperpal.com/location/push.php'>
254 <input type='hidden' name='c' value='INSERT' />
255 <table cellpadding=5>
256 <tr><td>Text:<input id="simple-search-location" class="input-large_
257     js-search-location" size=24 type=text name=name class=biginput
258     id=name value='<?php_echo_$GET['name'];_?>' placeholder='
259     Example:_FriendliestCoffeeShop' /></td></tr>
260 <tr><td>Location:<input id="simple-search-location" class="input-
261     large_js-search-location" size=60 type=text name=location class
262     =biginput id=location value='<?php_if_(!isset($_GET['location'
263     ]))_{_echo_$GET['location'];_}_else_{_echo_'https://www.
264     piperpal.com/';_echo_$GET['service'];_echo_'/';_echo_$GET['
265     name'];_}_?>' /></td></tr>
266 <tr><td>Service:<input id="simple-search-location" class="input-
267     large_js-search-location" size=24 type=text name=service class=
268     biginput id=service value='<?php_echo_$GET['service'];_?>'
269     placeholder='Service' /></td></tr>
270 <tr><td>Not Before:<input id="simple-search-tourin" class="input-
271     large_js-search-location" size=24 type=text name=notBefore class
272     =biginput id=notBefore value='<?php_echo_$GET['notBefore'];_?>'
273     placeholder='Not_Before' /></td></tr>
274 <tr><td>Not After:<input id="simple-search-tourout" class="input-
275     large_js-search-location" size=24 type=text name=notAfter class=
276     biginput id=notAfter value='<?php_echo_$GET['notAfter'];_?>'
277     placeholder='Not_After' /></td></tr>
278 <input id="simple-search-location" class="input-large_js-search-
279     location" size=24 type=hidden name=paid class=biginput id=paid
280     value='<?php_echo_$GET['paid'];_?>' placeholder='Price' />
281 <div id='status'>
282 <input id='glat' type='hidden' name='glat' placeholder='Latitude'
283     size=32 value='37.42242580' />

```

```
263     <input id='glon' type='hidden' name='glon' placeholder='Longitude'
264           size=32 value='-122.08755550' />
265   </div>
266   <tr><td><form onsubmit='updateGeo()' action='https://api.piperpal.
267     com/location/push.php' method='POST'>
268     <script src='https://checkout.stripe.com/checkout.js' class='stripe-
269       button' data-key='
270         pk_live_51MsrtFagJ7jHvJPRzksQbNY4573e98c9MPwsnOXymtKYWFUVgh6Bbm\
271         ZV9tPhhTwppFLDabbfm7Lkj9dEYaJBD9em00xNBVHJzf' data-amount='<?php_echo_
272           $_GET['paid'];_?>' data-name='Aamot_Software' data-description='<?
273             php_echo_$_GET['location'];_?>_/_<?php_echo_$_GET['service'];_?>_
274             (<?php_echo_$_GET['paid'];_?>)' data-image='/img/Location_Icon.png'
275           ></script></td></tr>
276   </table>
277 </form>
278 </body>
279 </html>
```

---



## Chapter 19

# Python Resolver Scripts

### 19.1 bin/gensource

---

**Listing 19.1:** Insert code directly in your document

---

```
1 #!/usr/bin/python
```

---

### 19.2 bin/indexer

---

**Listing 19.2:** Insert code directly in your document

---

```
1 # Written by Ole Aamot, 20211017
2
3 from cgi import parse_qs, escape
4 from urllib import quote_plus
5 import cgi
6 import urllib3
7
8 import hashlib
9 from math import radians, cos, sin, asin, sqrt
10 import textwrap
11 from cgi import parse_qs, escape
12 from bs4 import BeautifulSoup
13 import cgi
14 import time
15
16 def recursive_fetch(l, lat, lon):
```

```

17     p = http.request('GET', l)
18     o = p.data
19     y = BeautifulSoup(o, "lxml")
20     m = hashlib.sha256(p.data).hexdigest()
21     locationtags = y.find_all("location")
22     i = 0
23     print locationtags
24     while (i < len(locationtags)):
25         name = y.findAll("location")[i]["name"]
26         glat = y.findAll("location")[i]["lat"]
27         glon = y.findAll("location")[i]["lon"]
28         service = y.findAll("location")[i]["service"]
29         data = y.findAll("location")[i]
30         href = y.findAll("location")[i]["href"]
31         r = haversine(float(glat), float(glon), float(lat), float(lon))
32         print(gindex(r, name, m, href, data, glat, glon, lat, lon))
33         linker = 'https://api.piperpal.com/location/robot.php?name=' +
34             quote_plus(name.encode('utf-8'), safe=':/') + '&service=' +
35             quote_plus(service.encode('utf-8'), safe=':/') + '&location=' +
36             quote_plus(href.encode('utf-8'), safe=':/') + '&glat=' + glat
37             + '&glon=' + glon + '&paid=1'
38         insert = http.request('GET', linker)
39         print linker
40         print insert
41         object = insert.data
42         # tester = BeautifulSoup(object, "lxml")
43         # macron = hashlib.sha256(insert.data).hexdigest(
44             recursive_fetch(href, lat, lon)
45             i = i + 1
46
47     def haversine(lat1, lon1, lon2, lat2):
48         """
49         Calculate the great circle distance between two points
50         on the earth (specified in decimal degrees)
51         """
52         # convert decimal degrees to radians
53         lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2, lat2])
54
55         # haversine formula
56         dlon = lon2 - lon1
57         dlat = lat2 - lat1
58         a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
59         c = 2 * asin(sqrt(a))
60         r = 6371 # Radius of earth in kilometers. Use 3956 for miles
61         return c * r
62
63     def gindex(radius, n, d, l, query, my_lat, my_lon, lat, lon):
64         return radius, n, d, l, query, my_lat, my_lon, lat, lon
65
66     http = urllib3.PoolManager()
67     q = 'Google'
68     l = 'http://aamot.software/piperpal.xml'
69     lat = '37.42242500'
70     lon = '-122.08755550'

```



```
67 service = 'Books'
68 recursive_fetch(l, lat, lon)
```

---

## 19.3 bin/piperpal

Listing 19.3: Insert code directly in your document

---

```
1 # Written by Ole Aamot, 20211017
2
3 from cgi import parse_qs, escape
4 from urllib import quote_plus
5 import cgi
6 import urllib3
7
8 import hashlib
9 from math import radians, cos, sin, asin, sqrt
10 import textwrap
11 from cgi import parse_qs, escape
12 from bs4 import BeautifulSoup
13 import cgi
14 import time
15
16 def recursive_fetch(l, lat, lon):
17     p = http.request('GET', l)
18     o = p.data
19     y = BeautifulSoup(o, "lxml")
20     m = hashlib.sha256(p.data).hexdigest()
21     locationtags = y.find_all("location")
22     i = 0
23     # print locationtags
24     while (i < len(locationtags)):
25         name = y.findAll("location")[i]["name"]
26         glat = y.findAll("location")[i]["lat"]
27         glon = y.findAll("location")[i]["lon"]
28         service = y.findAll("location")[i]["service"]
29         data = y.findAll("location")[i]
30         href = y.findAll("location")[i]["href"]
31         recursive_fetch(href, glat, glon)
32         r = haversine(float(glat), float(glon), float(lat), float(lon))
33         print(gindex(r, name, m, href, data, glat, glon, lat, lon))
34         linker = 'https://api.piperpal.com/location/robot.php?name=' +
35             quote_plus(name.encode('utf-8'), safe=':/') + '&service=' +
36             quote_plus(service.encode('utf-8'), safe=':/') + '&location=' +
37             quote_plus(href.encode('utf-8'), safe=':/') + '&glat=' + glat
38             + '&glon=' + glon + '&paid=1'
39         insert = http.request('GET', linker)
40         print linker
41         print insert
```

```

38     object = insert.data
39     # tester = BeautifulSoup(object, "lxml")
40     # macron = hashlib.sha256(insert.data).hexdigest()
41     i = i + 1
42     recursive_fetch(href, lat, lon)
43
44 def haversine(lat1, lon1, lon2, lat2):
45     """
46     Calculate the great circle distance between two points
47     on the earth (specified in decimal degrees)
48     """
49     # convert decimal degrees to radians
50     lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2, lat2])
51
52     # haversine formula
53     dlon = lon2 - lon1
54     dlat = lat2 - lat1
55     a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
56     c = 2 * asin(sqrt(a))
57     r = 6371 # Radius of earth in kilometers. Use 3956 for miles
58     return c * r
59
60 def gindex(radius, n, d, l, query, my_lat, my_lon, lat, lon):
61     return radius, n, d, l, query, my_lat, my_lon, lat, lon
62
63 http = urllib3.PoolManager()
64 q = 'Google'
65 l = 'https://www.aamotsoftware.com/piperpal.xml'
66 lat = '37.42242500'
67 lon = '-122.08755550'
68 service = 'Books'
69 recursive_fetch(l, lat, lon)

```

---

## 19.4 bin/genpiperpalsource

**Listing 19.4:** Insert code directly in your document

---

```

1  #!/usr/bin/perl
2
3  use CGI;
4  use DBI;
5
6  sub get_locations {
7      my $c = CGI->new;
8      my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=piperpal.
          mysql.domeneshop.no", "piperpal", "xxxxxxx", { 'RaiseError' =>
          1});
9      print "<?xml_version='1.0'?>\n";

```

```

10     print "<piperpal_version='2.0'>\n";
11     $dbh->do ("SELECT_DISTINCT_email,name,glat,glon,location,modified,
             created,service,paid_FROM_piperpal_WHERE_modified<_NOW()_and_
             created>_NOW()");
12     my $sth = $dbh->prepare ("SELECT_DISTINCT_email,name,glat,glon,
             location,modified,created,service,paid_FROM_piperpal_WHERE_
             modified<_NOW()_and_created>_NOW()_ORDER_by_name");
13     $sth->execute();
14     while (my $ref = $sth->fetchrow_hashref()) {
15         print "<location_src='http://api.piperpal.com/location'
             _service='" . $ref->{'service'} . ":'" . $ref->{'
             email'} . "'_name='" . $ref->{'name'} . "'_lat='" .
             $ref->{'glat'} . "'_lon='" . $ref->{'glon'} . "'_
             href='" . $ref->{'location'} . "'_notbefore='" .
             $ref->{'modified'} . "'_notafter='" . $ref->{'
             created'} . "'_paid='" . $ref->{'paid'} . "'>" .
             $ref->{'name'} . "</location>\n";
16     }
17     $sth->finish();
18     $dbh->disconnect();
19     print "</piperpal>\n";
20     return;
21 }
22 &get_locations;

```

---

## 19.5 bin/resolver

Listing 19.5: Insert code directly in your document

---

```

1 # Written by Ole Aamot, 20200409
2
3 from cgi import parse_qs, escape
4 from urllib import quote_plus
5 import cgi
6 import urllib3
7 import mysql.connector
8 from mysql.connector import Error
9 import hashlib
10 from math import radians, cos, sin, asin, sqrt
11 import textwrap
12 from cgi import parse_qs, escape
13 from bs4 import BeautifulSoup
14 import cgi
15 import time
16
17 def piperpal_resolver(l,n,s,lat,lon):
18     p = http.request('GET', l)
19     o = p.data

```

```

20     y = BeautifulSoup(o, "lxml")
21     m = hashlib.sha256(p.data).hexdigest()
22     locationtags = y.find_all("location")
23     i = 0
24     print locationtags
25     while (i < len(locationtags)):
26         name = y.findAll("location")[i]["name"]
27         glat = y.findAll("location")[i]["lat"]
28         glon = y.findAll("location")[i]["lon"]
29         service = y.findAll("location")[i]["service"]
30         data = y.findAll("location")[i]
31         href = y.findAll("location")[i]["href"]
32         r = haversine(float(glat), float(glon), float(lat), float(lon))
33     #         print map
34         print(gindex(r,name,m,href,data,glat,glon,lat,lon))
35     linker = 'https://api.piperpal.com/resolver/?name=' + quote_plus(
        name.encode('utf-8'), safe=':/') + '&service=' + quote_plus(
        service.encode('utf-8'), safe=':/') + '&location=' + quote_plus(
        href.encode('utf-8'), safe=':/') + '&glat=' + glat + '&glon='
        + glon + '&paid=1'
36     insert = http.request('GET', linker)
37     print linker
38     print insert
39     object = insert.data
40     # tester = BeautifulSoup(object, "lxml")
41     # macron = hashlib.sha256(insert.data).hexdigest()
42     i = i + 1
43     piperpal_resolver(href,s,n,lat,lon)
44     return (y,i)
45
46 def haversine(lat1, lon1, lon2, lat2):
47     """
48     Calculate the great circle distance between two points
49     on the earth (specified in decimal degrees)
50     """
51     # convert decimal degrees to radians
52     lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2, lat2])
53
54     # haversine formula
55     dlon = lon2 - lon1
56     dlat = lat2 - lat1
57     a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
58     c = 2 * asin(sqrt(a))
59     r = 6371 # Radius of earth in kilometers. Use 3956 for miles
60     return c * r
61
62 def gindex(radius,n,d,l,query,my_lat,my_lon,lat,lon):
63     return radius,n,d,l,query,my_lat,my_lon,lat,lon
64 services = dict()
65 services = ('Restaurant', 'Bar', 'Concert', 'Film', 'Books', 'Health',
        'Clothes', 'Food', 'Music', 'Electronics', 'Transport', 'Rental')
66 http = urllib3.PoolManager()
67 q = 'Wikipedia'
68 p = 1

```

```
69 l = 'http://www.piperpal.com/piperpal.xml';
70 lat = '37.42242500'
71 lon = '-122.08755550'
72 service = 'Books'
73 for x in range(-90, 91):
74     for y in range(-180, 181):
75         print x,y,lat,lon,q,l,0
76         print x,y,lat,lon,q,l,1
77         for z in services:
78             #         if (z=="Restaurant"):
79                 print z,x,y,lat,lon,q,l,1
80             #         print "Restaurant"
81         piperpal_resolver(l,1,z,lat,lon)
```

---



## Chapter 20

# Cron Jobs

### 20.1 0 \* \* \* \* /bin/piperpal

The “piperpal” cron job runs every hour and executes the Python script `bin/piperpal` which runs recursive fetch of the XML file `https://www.aamotsoftware.com/piperpal.xml` for processing into the database.

### 20.2 0 \* \* \* \* python /bin/indexer

The “indexer” cron job runs every hour and executes the Python script `indexer` which runs recursive fetch of the XML file `https://aamot.software/piperpal.xml` for processing into the index via `https://api.piperpal.com/location/robot.php?name=&service&location&glat&glon&paid=1`

### 20.3 0 \* \* \* \* /bin/genpiperpalsource > piperpal/piperpal.xml

The “genpiperpalsource” cron job runs every hour and write the file `https://www.aamotsoftware.com/piperpal.xml` from the SQL database from the Perl script “genpiperpalsource”.





## Chapter 21

# Mobile App

**21.1 Android – <https://www.github.com/piperpal/android>**

<https://www.piperpal.com/apk/piperpal.apk>

**21.2 iOS – <https://www.github.com/piperpal/ios>**



## Chapter 22

# Web App

**22.1 World Wide Web – <https://www.geopher.com/>**

`\url{https://www.geopher.com/}`



## Chapter 23

# Node/Express Module

### 23.1 Location Data Server – <https://www.npmjs.com/package/location-server>

Node/Express is a open source framework for building web sites in the NodeJS language.

“Location Data Server” is a module for accessing the Location API (<https://api.piperpal.com/location/json.php>) from Node/Express.

So far you can download the “Location Data Server” NodeJS source code from <https://gitlab.com/ole.aamot/location-server> and the NPMJS package from <https://www.npmjs.com/package/location-server>

You install it with Node Package Manager (NPM) in Terminal with

```
npm i location-server
```

You can view the implementation of location-server for the Piperpal Location API at [https://gitlab.com/ole.aamot/location-server/-/blob/main/location-server.cjs?ref\\_type=heads](https://gitlab.com/ole.aamot/location-server/-/blob/main/location-server.cjs?ref_type=heads):

---

**Listing 23.1:** Insert code directly in your document

---

```
1 const express = require('express');
2 const bodyParser = require('body-parser');
3 const axios = require('axios');
4
5 const app = express();
6 const port = 3000;
7
8 app.use(express.static('public'));
9 app.use(bodyParser.urlencoded({ extended: true }));
10 app.use(bodyParser.json());
```

```
11
12 app.get('/location-server-time', async (req, res) => {
13   const { timeOut, timeBegin, timeEnd } = req.query;
14   try {
15     const response = new Date().getTime();
16     res.json(response);
17   } catch (error) {
18     res.status(500).json({ error: 'Error_fetching_time' });
19   }
20 });
21
22 app.get('/location-server-data', async (req, res) => {
23   const { service, glat, glon, radius } = req.query;
24   try {
25     const response = await axios.get('https://api.piperpal.com/
      location/json.php?service=${service}&glat=${glat}&glon=${
      glon}&radius=${radius}');
26     res.json(response.data);
27     const locations = response.data.locations;
28   } catch (error) {
29     res.status(500).json({ error: 'Error_fetching_data' });
30   }
31 });
32
33 app.listen(port, () => {
34   console.log('Location Data Server listening on port ${port}');
35 });
```

---

## Chapter 24

# Location Mobile – <https://www.piperpal.com/mobile/>

<https://www.piperpal.com/mobile/>

SQL Queries

**Listing 1:** Insert code directly in your document

---

```
1 CREATE TABLE piperpal (  
2     id MEDIUMINT(8) UNSIGNED NOT NULL AUTO_INCREMENT,  
3     name VARCHAR(100) NOT NULL DEFAULT '',  
4     service VARCHAR(1024) NOT NULL,  
5     location VARCHAR(1024) NOT NULL,  
6     modified TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE  
7         CURRENT_TIMESTAMP,  
8     created TIMESTAMP NULL DEFAULT NULL,  
9     glat DECIMAL(10, 8) NOT NULL,  
10    glon DECIMAL(11, 8) NOT NULL,  
11    paid MEDIUMINT(16) UNSIGNED NOT NULL,  
12    token VARCHAR(32) NOT NULL,  
13    type VARCHAR(32) NOT NULL,  
14    email VARCHAR(256) NOT NULL,  
15    PRIMARY KEY (id)  
);
```

---





## Appendix A

# Haversine Computation of Piperpal Geolocations

```
SELECT DISTINCT
id,name,service,location,modified,created,glat,glon,pa
id,token,type,email,111.045*DEGREES(ACOS(COS(RADIANS(l
atpoint))*COS(RADIANS(glat))*COS(RADIANS(longpoint)-
RA
DIANS(glon))+SIN(RADIANS(latpoint))*SIN(RADIANS(glat
)))) AS distance_in_km FROM piperpal JOIN (SELECT " .
$_POST['latitude'] . " AS latpoint, " .
$_POST['longitude'] . " AS longpoint) AS p ON 1=1
WHERE name = ' " . $_POST['location'] . "' ORDER BY
distance_in_km
```