

Proximity search with Search API and Leaflet in Drupal 7

Alex Bukach



THIS LITTLE DUCK



THIS LITTLE DUCK

The picture



1 2 3 4 5 next › last »

Location

10 km ▼

Apply

Reset

Leninskiye

📍 Leninskiye Gory Moscow, Le...

📍 Leninskiye Gorki Ulyanovsk, ...

📍 ulitsa Leninskiye Gory Mosc...

powered by Google

Lenis

Submitted by Anonymous (not verified)
on Thu, 11/20/2014 - 03:24

Coordinates:
POINT (73.77051 -23.84891)

Dolore

Submitted by Anonymous (not verified) on Sun, 11/23/2014 - 03:23

Coordinates:
POINT (-177.29576 -0.22778)

Tego

Submitted by admin on Tue, 11/18/2014 - 09:50

Coordinates:
POINT (-56.88545 39.50041)



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The picture

Popup

Distance

Place

Suggestions

Results

Map



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Contrib modules: Search

Search API



Search API Solr Geofield



Search API Location



Search API Location Views



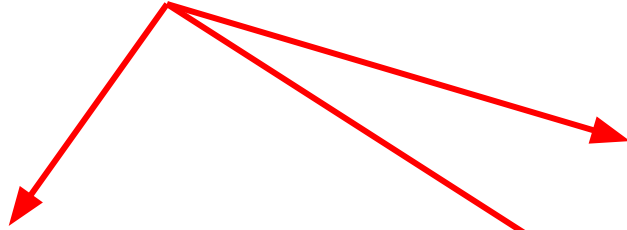
Geocomplete



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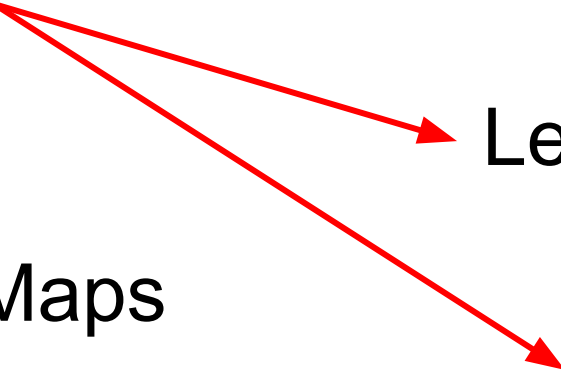
Contrib modules: Map

Leaflet



Leaflet MarkerCluster

Leaflet More Maps



Leaflet Views



Leaflet Views AJAX Popups



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Setup: Field

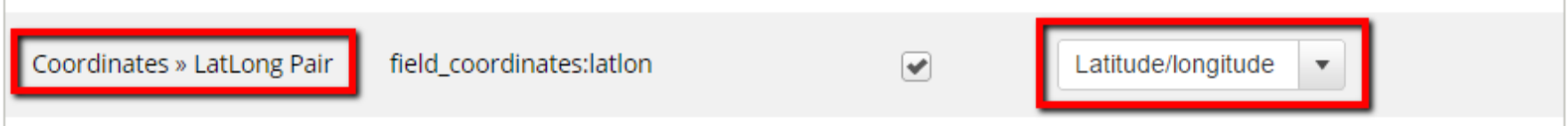
+ Coordinates	field_coordinates	Geofield	Latitude / Longitude	edit	delete
---------------	-------------------	-----------------	----------------------	------	--------

1. Create a content type
2. Create a field storing coordinates



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Setup: Index



3. Create a Search API index

4. Add `Field >> LatLon Pair` to index

5. Select `Latitude/longitude` as field type



Setup: View

6. Create a view with exposed coordinates filter

Coordinates: LatLong Pair (indexed)

Configure filter criterion **Coordinates: LatLong Pair (indexed)**

For: All displays

Input method *
Geocomplete

INPUT METHOD SETTINGS
Provides input with client-side autocomplete geocoding.

▶ FALLBACK
▶ ADDITIONAL INFO

Type of distance input
Select

Distance options
10 10 km
50 50 km
100 100 km
500 500 km
1000 1000 km

Apply (all displays) Cancel Remove

Input method *

Geocomplete ▼

Distance options

10 10 km
50 50 km
100 100 km
500 500 km
1000 1000 km

The End?



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The End? No!

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Leaflet | Map data © Google

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10 km ▾

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Coordinates:

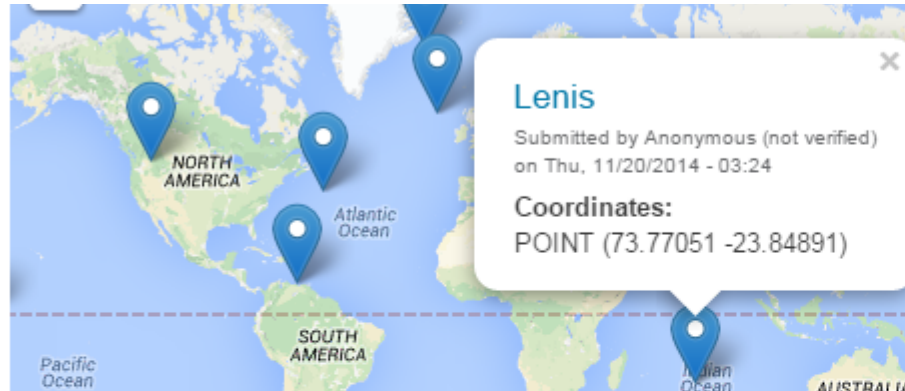
POINT (-56.88545 39.50041)



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Setup: Map

7. Add new display to the view



8. Select Leaflet Map **style**

...or Leaflet Map (AJAX Popups) **style**



Setup: Put list and map together

- Content pane displays *(views content panes)*
- Exposed form in block
- Page manager page *(panels + page manager)*

Left side

View: Search: Map

▶ No title

Right side

Exposed form: search-panel_pane_1

▶ No title

View: Search: List

▶ No title



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Live example

The screenshot shows the search results page for 'Garage Sale Trail' on October 25th. The page is annotated with three red boxes and arrows:

- View display: Leaflet Map:** A blue-bordered box highlights the map view of the search results, showing various locations in Bondi and Bronte marked with red pins.
- Exposed filter: Search API Location Views:** A green-bordered box highlights the 'REFINE YOUR SEARCH' section, which includes filters for 'Where' (Bondi), 'What' (Bondi Beach NSW 2026, Australia), 'Sale types' (- Any -), and 'Distance' (80km). A red arrow points from this box to the 'SEARCH' button.
- Views Display: Unformatted list:** A purple-bordered box highlights the list view of search results, showing two items: 'RISK OF Awesome TODAY' and 'MOVING FAMILY OF FIVE'. A red arrow points from this box to the 'SEARCH' button.

<http://garagesaletrail.com.au/search>

Try It!



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<http://bit.ly/proximity-search-kickstart>



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Contributions

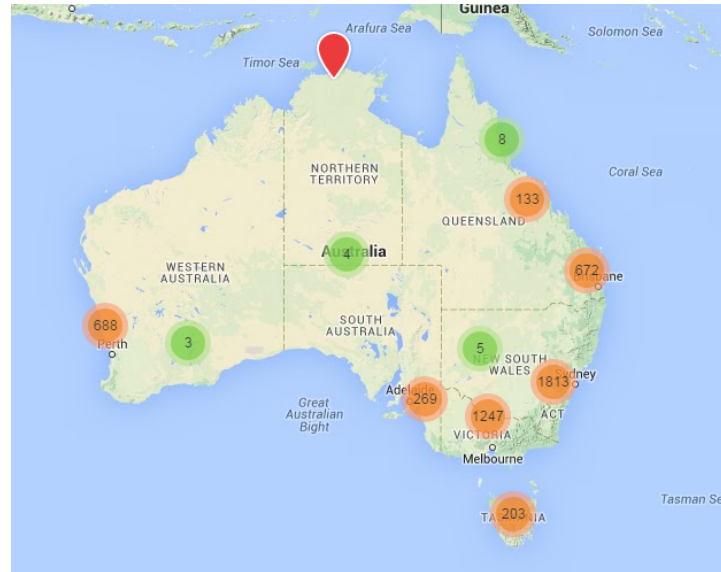
- Geocomplete (geocomplete)
- Leaflet Views AJAX Popups
(leaflet_views_ajax_popup)

Bonus



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5,000+ results



Views loads each node => custom page

Thank you!

<http://thislittleduck.com>