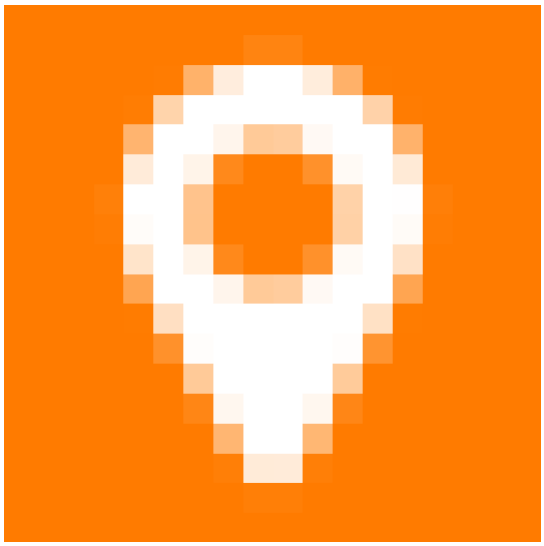
Route

TYPO3 with GoogleMaps and OpenStreetMap

Publish your routes with Google Maps or OpenStreetMap. Routes have points of interest (POI). You can categorise and filter both: routes and POI. Address data can geocoded automatically.



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Extension Key: route

Language: en

Keywords: forDevelopers, forIntegrators, route, Google Maps, OpenStreetMap

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The content of this document is related to TYPO3 - a GNU/GPL CMS/Framework available from www.typo3.org

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Screenshots

Frontend

Routes with GoogleMaps

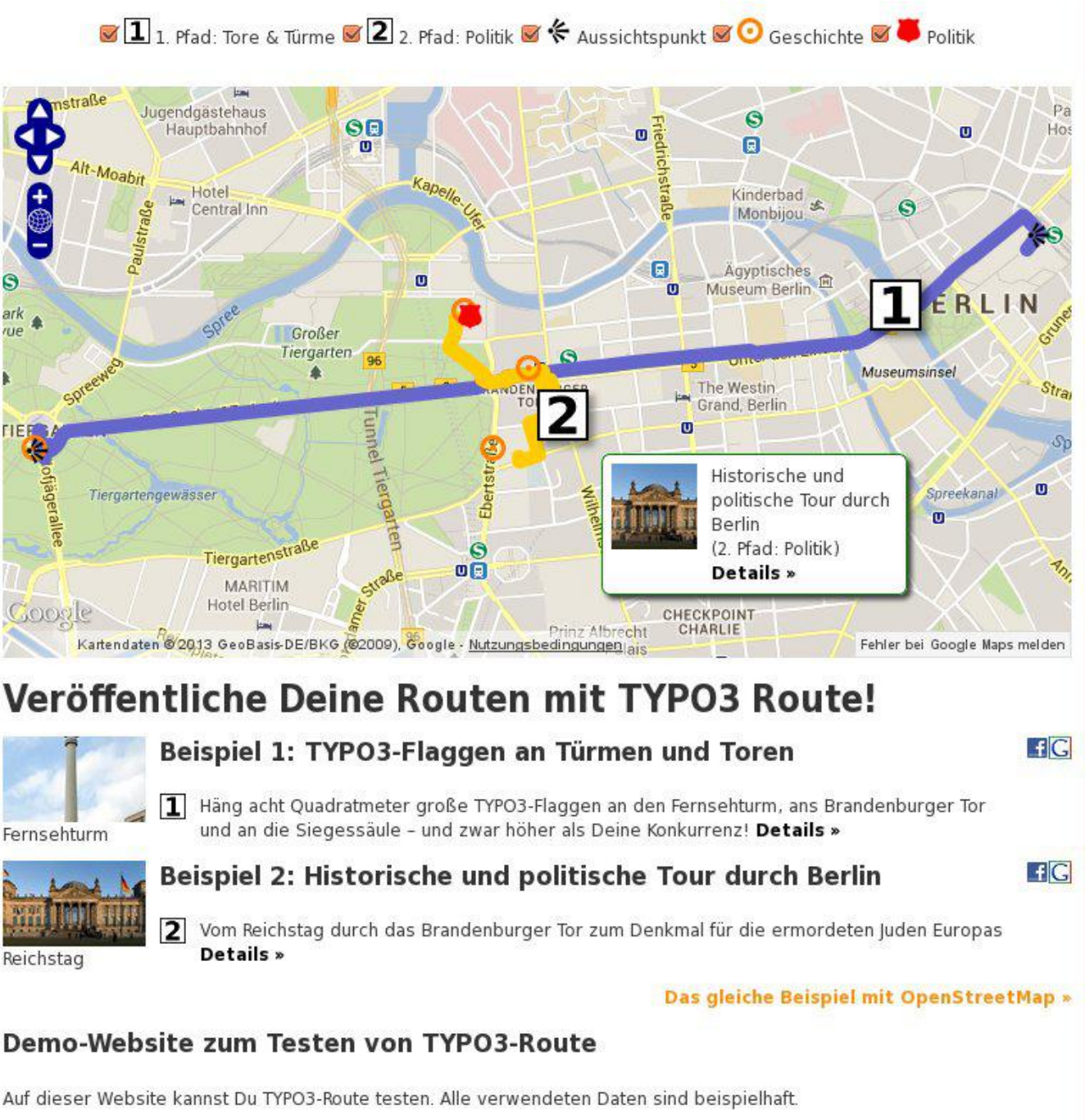


Illustration 1: Route list view with google maps

See: http://typo3-route.de/

A single Route with Google Maps

Historische und politische Tour durch Berlin

Reichstag

Zu Fuß mit Vertretern des Bundestags vom Reichstagsgebäude zum Brandenburger Tor und zum Holocaust Mahnmal. Dauer etwa 2 Stunden.

Holocaust Denkmal

Reichstagsgebäude

Das Reichstagsgebäude (kurz Reichstag; offiziell Plenarbereich Reichstagsgebäude, Platz der Republik in Berlin ist seit 1999 Sitz des Deutschen Bundestages. Die Bundesversammlung tritt hier seit 1994 zusammen.

Holocaust-Mahnmal für die ermordeten Juden Europas

Das Holocaust-Mahnmal für die ermordeten Juden Europas, kurz Holocaust-Mahnmal genannt, ist ein Mahnmal für die unter der Herrschaft der Nationalsozialisten im Holocaust ermordeten Juden. Ein unterirdisches Museum (Ort der Information) ergänzt den Komplex. Es enthält unter anderem eine Liste aller Namen der bekannten jüdischen Holocaustopfer.

Startpunkt

Illustration 2: Route single view with google maps

See: http://typo3-route.de/pfad/historische-und-politische-tour-durch-berlin/

A single route with Open Street Map

Illustration 3: Route single view with open street maps

See: http://typo3-route.de/openstreetmap/pfad/typo3-fahnen-an-tuerme-und-tore-haengen/

Backend

Records

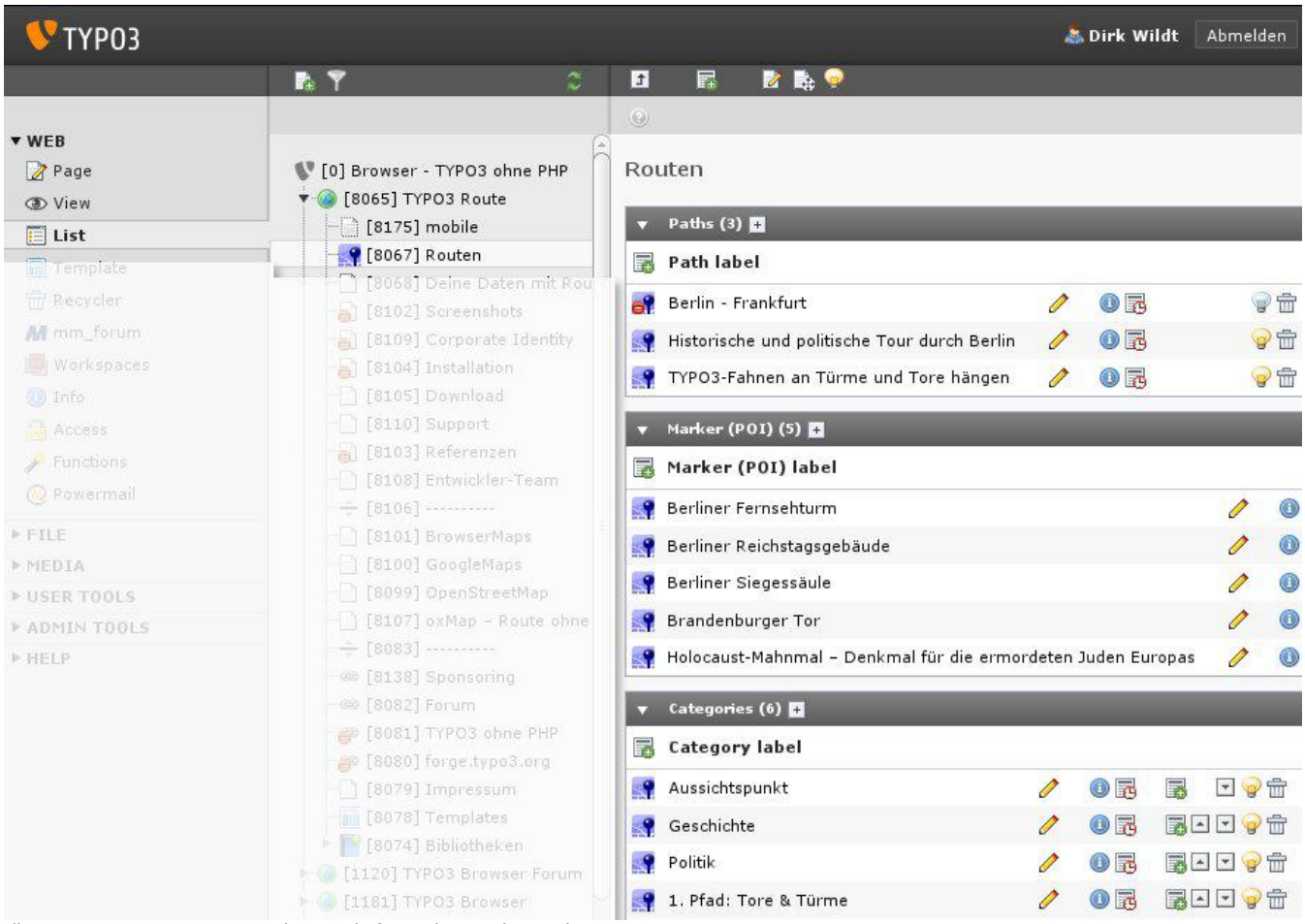


Illustration 4: TYPO3 Route with records for paths, marker and categories

Route record

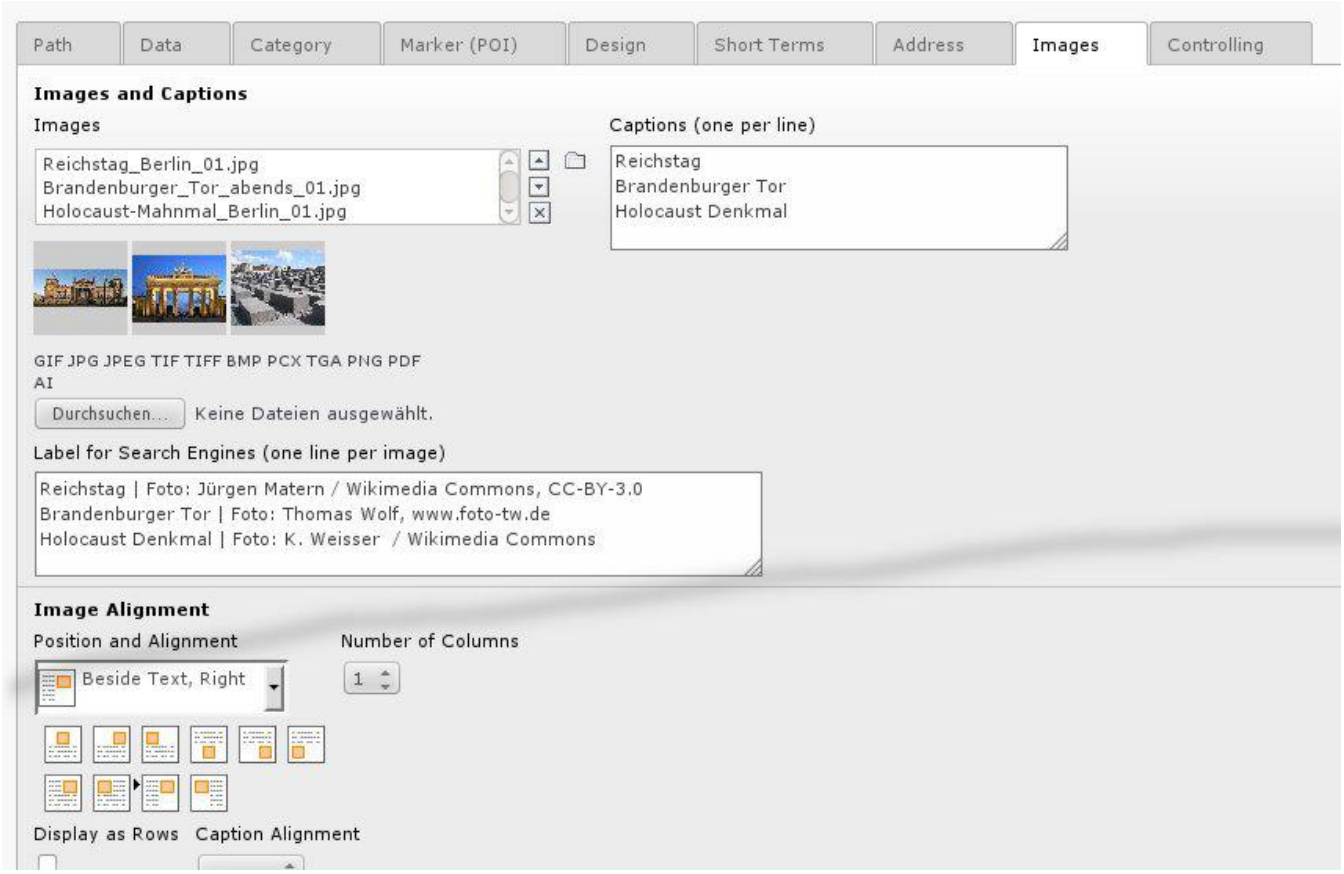


Illustration 5: TYPO3 Route record with the images tab

Update GPX data

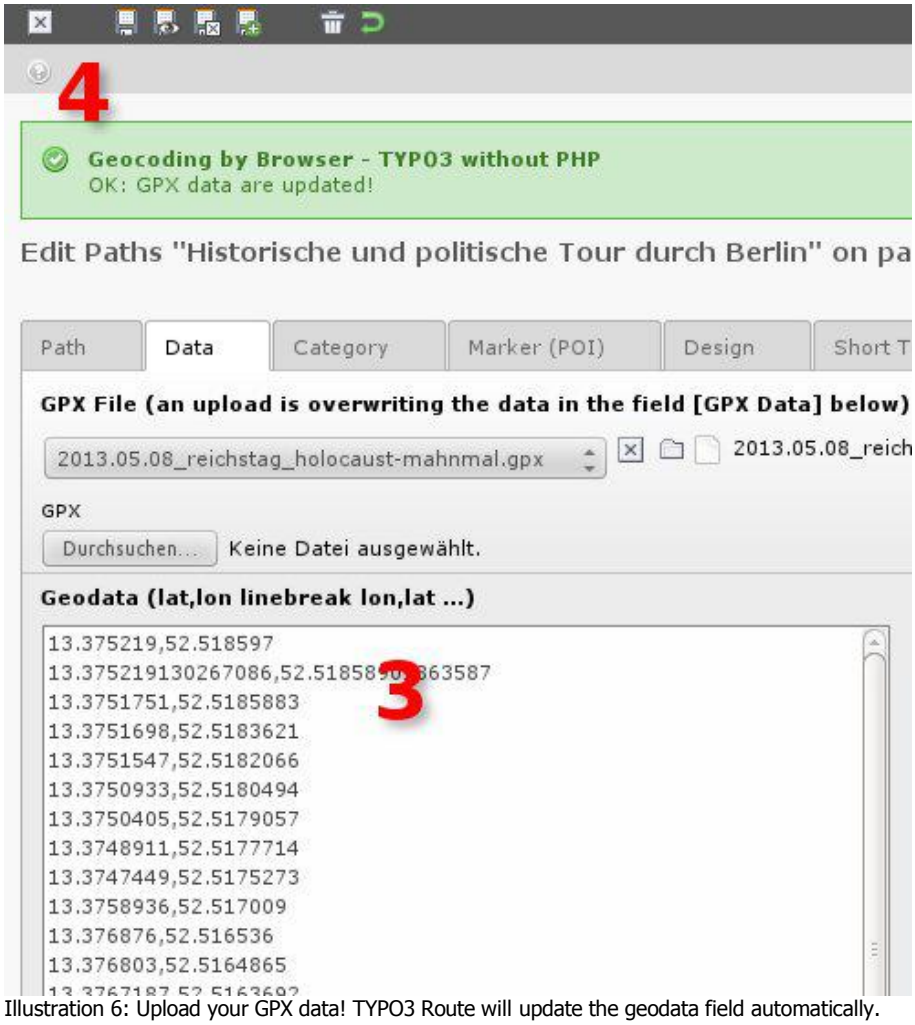


Illustration 6: Upload your GPX data! TYPO3 Route will update the geodata field automatically.

Automatic geocoding

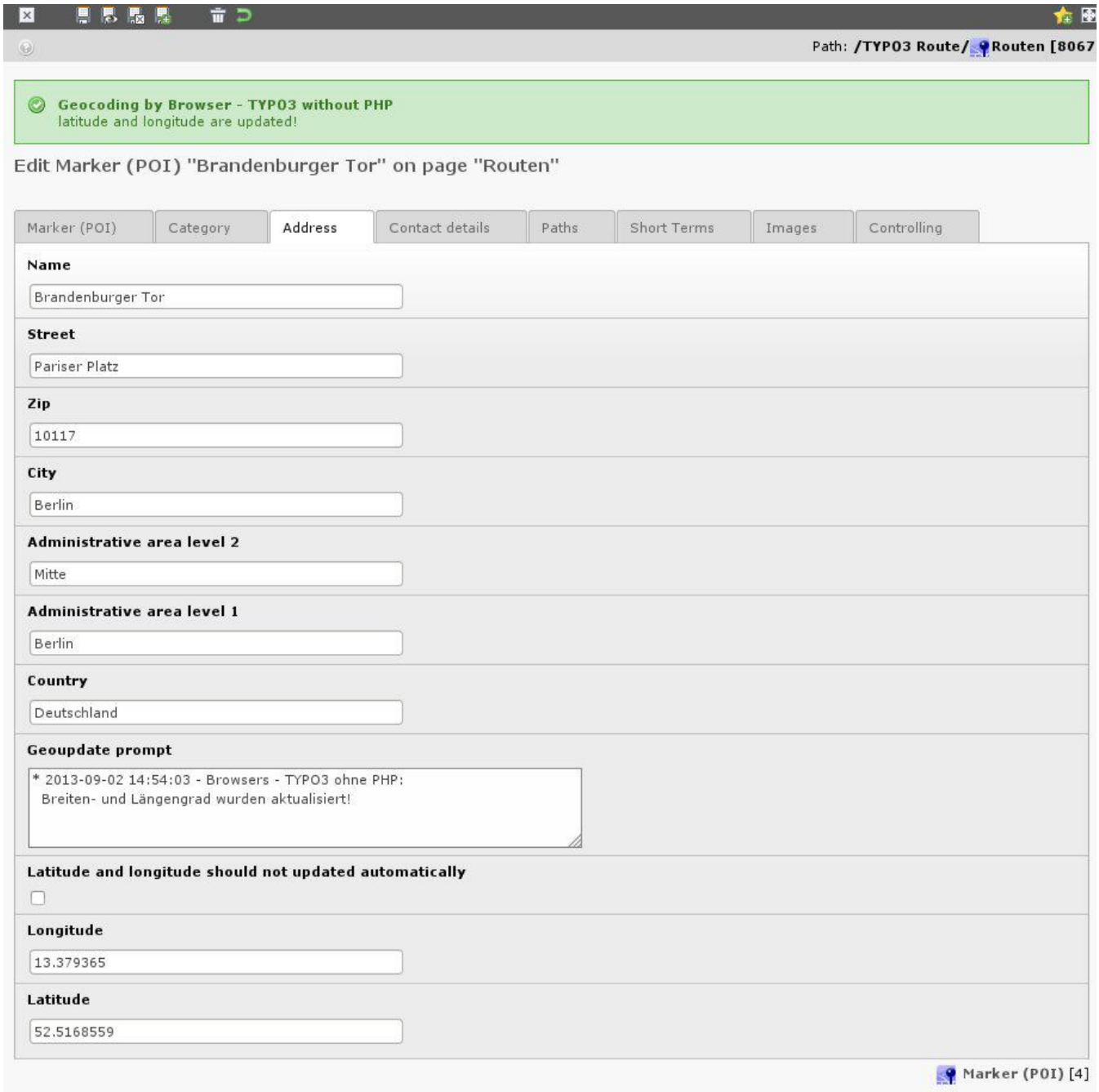


Illustration 7: TYPO3 Route calculate the geocoding of your address automatically.

Live

See more screenshots and live examples at

- "Live" on page 23 below.

Introduction

What does Route do?

- Route displays routes – paths with marker (POI) – in both interactive maps:
  - Google Maps and
  - OpenStreetMap.
- You can categorise and filter both:
  - paths and
  - marker.
- Route supports
  - list views,
  - map views and
  - single views.
- Route supports a GPX format:
  - You can generate the geodata of your route with GPX devices or online with GPX services.
  - You can upload a GPX file, Route will convert the data into the needed geocodes.
- Route is calculating the geocoding of any address automatically (by the Google Geocoding API)
- Route is based on BrowserMaps: the map module of the Browser – TYPO3 without PHP.
- Route is improved for the responsive framework Foundation. You can use the framework ready-to-use.
- You can import the official Route sample – ready-to-use.

What do you need?

- The TYPO3 extensions
  - Route
  - Browser – TYPO3 without PHP – from version 6.0
  - If you are like to install Route stand-alone, you need too:
    - Organiser Template
- Experience with TYPO3

TYPO3 Versions

Route should run in

- TYPO3 4.5, 4.6, 4.7
- TYPO3 6.0, 6.1, 6.2

Non supported features

Some properties of images aren't supported by the base exension Browser – TYPO3 without PHP from version 6.0.0. This is a matter of TypoScript. If you are familiar with TypoScript you can change the behaviour of each property.

- "In text, left" is handled as "Beside Text, Left"
- "In text, right" is handled as "Beside Text, Right"
- This properties aren't handled:
  - "Display as Rows"
  - "Caption Alignment"
  - "Enlarge on click", "Links (one per line, one link per image)"
  - "Border", "Quality and Type", "Effect", "Graphical Frames"

Quick Installation

- Create a page for publishing your routes
  - Add the TypoScript template of this extension
- Create a folder for the route data
- Add the official Route sample by a SQL import and by copying files (recommended)
- Or add Browser plugins, route data and files manually.

Manual Installation

Extensions

Install and enable the extensions

- Browser – TYPO3 without PHP (browser)[1].
- Organiser - Template (baseorg)[2] – if you like Route stand-alone.
- Route (route)[3]
- SEO Dynamic Tag 2 (seo_dynamic_tag)[4] - if you like Search Engine Optimisation (SEO).

Page and Folder

Page Route

Add a page "Route".

Folder Route data

Please add a folder "data".

Your page tree should look like in the illustration below.

Illustration 8: Route pages

By the way: Page tree ids and icons

Route icon

If you like the Route icon in the page tree, please configure your page route

1. Modul Web > List
2. Page tree Select the page route
3. Edit area Edit the page properties
4. tab [Appearance]
5. area "Use as Container", field "Contains Plugin": [Route]

Ids and other icons

If you like the page ids within the page tree and some other individual icons, please refer to and install

- TSconfig Pages and Users by extManager (tsconf)
  http://typo3.org/extensions/repository/view/tsconf

1 See: http://typo3.org/extensions/repository/view/browser from version 6.0. Browser Manual is required.
2 See: http://typo3.org/extensions/repository/view/baseorg from version 6.0. Automaketemplate is required.
3 See: http://typo3.org/extensions/repository/view/route from version 6.0
4 See: http://typo3.org/extensions/repository/view/seo_dynamic_tag

TypoScript Template

Add a TypoScript template to your page "Route".

Configure:

- [General]
  - Template Title: "page_route_001" (if the id of the template is 1)
  - Constants
    (copy and paste the TypoScript snippet below, move the page id 37 to the page id of your Route page)[1]

```
  // Enable Seo Dynamic Tag 2 for the page route and route records
plugin.tx_seodynamictag.condition.single.begin = globalVar = GP:tx_browser_pi1|routeUid > 0] && [globalVar = TSFE:id = 37

  // Enable Seo Dynamic Tag 2 for the page route and marker records
[globalVar = GP:tx_browser_pi1|markerUid > 0]
  plugin.tx_seodynamictag.condition.single.begin = globalVar = GP:tx_browser_pi1|markerUid > 0] && [globalVar = TSFE:id = 37
[global]
```

- [Options] <- is needed for a stand-alone installation only
  - Clear: [x] Constants, [X] Setup
  - Rootlevel: [X]
- [Includes]
  - CSS Styled Content (css_styled_content)[2]
  - Browser [-] Foundation Framework (browser)[3]
  - Organiser Template (baseorg)[4]
  - Browser [1] (browser)
  - Route [1] (route)

Import the official Route Sample

It is recommended to import the official Route sample. You save a lot of time:

- you don't need to add a lot of stuff manually
- you don't need to configure anything

Please follow the section "Import the official Route Sample" on page 20 below.

1 You don't need to configure constants, if you aren't using Seo Dynamic Tag 2
2 CSS Styled Content: in case of a stand-alone installation
3 Browser Foundation Framework: is needed only, if you like to use a responsive Route installation.
4 Organiser Template: in case of a stand-alone installation

Three Browser Plugins

TIP: You don't need to install and configure these plugins, if you're following the section "Import the official Route Sample" on page 20 below.

You need to install the Browser plugin three times. No, I'm not kidding... just install the same plugin three times. Each with an individual configuration.

Tasks of each plugin

Each plugin has its own task:

- Plugin 1 displays the map in the list view and in the single view
- Plugin 2 displays the path data in text form in the list view and in the single view
- Plugin 3 displays the marker (POI) data in text form in the single view only.

The content of the plugins will displayed or hidden depending of what to show:

- Display routes (list view)
  - Plugin 1: map with routes – paths and marker (POI)
  - Plugin 2: text with paths data
- Display one route (single view)
  - Plugin 1: map with the selected route – path and marker (POI)
  - Plugin 2: text with the path data
- Display one marker (POI) (single view)
  - Plugin 3: map with the marker and text with the marker data

Add the plugins

Add three Browser plugins to your page "Route":

1. [Routes: map]
2. [Routes: text]
3. [Marker (POI): map and text (single view only)

[Routes: map]

Please set:

[General]

* Header: "[Routes: map]"
* Header > Layout: [Don't display any header]

[Plugin]

* [General]
  * Views: [Configured]
  * [x] Display only views, which are linked with the current template
  * Views: Selected Items: [47676: Route (map only)]
  * Views: piVars (parameters in the URL) from foreign plugins: [Handle it]
  * Control the plugin: by URL parameters: [enabled]
  * Control the plugin: Hide this plugin, if one of ...: "tx_browser_pi1[markerUid]"
* [List View]
  * Display Navigation: [ ] Index Browser, [ ] Page Browser
  * Search: [Configured]
  * Search: Form [ ] Display the form
* [Single View]
  * Singe View: [disabled]
  * Record Browser: [disabled]
* [Templating]
  * HTML: [Browser: Main (browser)]
* [jQuery & AJAX]
  * AJAX: [disabled]

[Behaviour]

* Record Storage Page: [Folder with the route data]
* Recursive: [Infinite]

[Routes: text]

Please set:

[General]

* Header: "[Routes: text]"
* Header > Layout: [Don't display any header]

[Plugin]

* [General]
  * Views: [Configured]
  * [x] Display only views, which are linked with the current template
  * Views: Selected Items: [47677: Route (text only)]
  * Views: piVars (parameters in the URL) from foreign plugins: [Handle it]
  * Control the plugin: by URL parameters: [enabled]
  * Control the plugin: Hide this plugin, if one of ...: "tx_browser_pi1[markerUid]"
* [List View]
  * Display Navigation: [ ] Index Browser, [ ] Page Browser
  * Search: [Configured]
  * Search: Form [ ] Display the form
* [Single View]
  * Record Browser: [disabled]
* [Templating]
  * HTML: [Browser: Main (browser)]
* [jQuery & AJAX]
  * AJAX: [disabled]
* [Social Media]
  * Social Bookmarks: [enabled (I'm using my own HTML template)]
  * Bookmarks in list views: "tx_route_path.title"
  * Bookmarks in list views Selected Items: Some items of your choice
  * Bookmarks in single views: "tx_route_path.title"
  * Bookmarks in single views Selected Items: Some items of your choice

[Behaviour]

* Record Storage Page: [Folder with the route data]
* Recursive: [Infinite]

[Marker (POI): map and text (single view only)]

Please set:

[General]

* Header: "[Marker (POI): map and text (single view only)]"
* Header > Layout: [Don't display any header]

[Plugin]

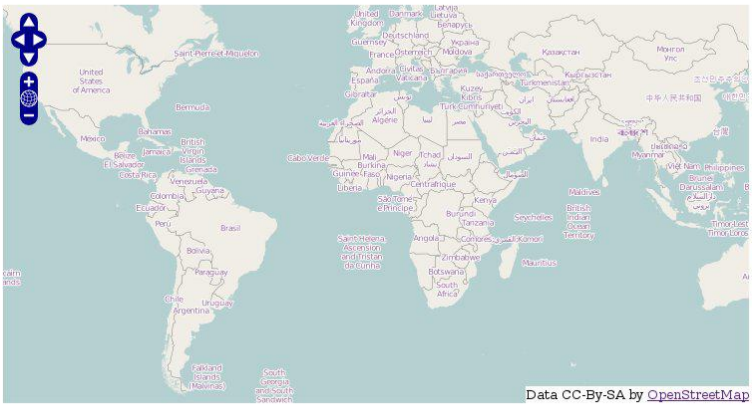
* [General]
  * Views: [Configured]
  * [x] Display only views, which are linked with the current template
  * Views: Selected Items: [47677: Route (text only)]
  * Views: piVars (parameters in the URL) from foreign plugins: [Handle it]
  * Control the plugin: by URL parameters: [enabled]
  * Control the plugin: Display this plugin only, if ...: "tx_browser_pi1[markerUid]"
* [List View]
  * Display Navigation: [ ] Index Browser, [ ] Page Browser
  * Search: [Configured]
  * Search: Form [ ] Display the form
* [Single View]
  * Record Browser: [disabled]
* [Templating]
  * HTML: [Browser: Main (browser)]
* [jQuery & AJAX]
  * AJAX: [disabled]
* [Social Media]
  * Social Bookmarks: [enabled (I'm using my own HTML template)]
  * Bookmarks in list views: "tx_route_marker.title"
  * Bookmarks in list views Selected Items: Some items of your choice
  * Bookmarks in single views: "tx_route_marker.title"
  * Bookmarks in single views Selected Items: Some items of your choice

[Behaviour]

* Record Storage Page: [Folder with the route data]
* Recursive: [Infinite]

Result in the frontend

Sorry, there is no matched record!



Sorry, there is no matched record!

Illustration 9: Result in the frontend

You will receive an empty world map because of missing data.

Data

TIP: You don't need to add data manually, if you're following the section "Import the official Route Sample" on page 20 below.

Please insert some sample data.

This order is recommended:

1. Add categories for your routes and marker (POI)
2. Add marker (POI)
3. Add routes

Marker (POI)

A marker (POI) needs a latitude and a longitude.

If you add an address, latitude and a longitude will generated automatically. See details at the section "Geocoding" on page 21 below.

Routes

A route needs GPX data. You can create this data supported by openrouteservice.org. See details at the section "Get the GPX Data" on page 31 below.

Result in the frontend

The result in the frontend depend on your data.

This would be the result with the data of the official Route sample:

Illustration 10: Result in the frontend with the sample data

Configuration

If you like to configure Route for your needs, please use the Constant Editor.

Refer to the categories

- BROWSERMAPS - ...
- ROUTE - ...

See section "Constant Editor" on page 25 below.

Import the official Route Sample

Preconditions

You must have

- added the page Route and the folder Data – see Page and Folder on page 12 above
- added a TypoScript template – see TypoScript Template on page 13 above

Plugins and Data

You can use the sample data of the extension.

Plugins and all Route data will imported.

Be aware: ALL FORMER ROUTE DATA WILL REMOVED!

And sorry: the content of the sample data is in German language only.

Text data:

- Download the file ext_tables_static+adt.sql from:
  - http://your-domain.com/typo3conf/ext/route/res/sample/ext_tables_static+adt.sql or
  - http://forge.typo3.org/projects/extension-route/repository/raw/trunk/res/sample/ext_tables_static+adt.sql
- Open the sql file with a text editor.
- Replace the pid for the page Route with the uid of the page Route. In the example above the uid is 37. Move '%pidpage%' to '37' – there should be 3 matches.
- Replace the pid for the folder Data with the uid of the folder Data. In the example above the uid is 57. Move '%pidfolder%' to '57' – there should be 17 matches.
- Insert the data with PhpMyAdmin into the tables of your database. Plugins won't removed, but ALL FORMER ROUTE DATA WILL REMOVED!
  - Select your database
  - Select [Import]
  - Browse for your file (here: ext_tables_static+adt.sql)
  - Import the data: [OK]

Files

FTP

If you have access to your server by FTP only, please follow this steps:

- Download the file images.zip from:
  - http://your-domain.com/typo3conf/ext/route/res/sample/data/images.zip or
  - http://forge.typo3.org/projects/extension-route/repository/raw/trunk/res/sample/data/images.zip
- Unzip the file.
- Upload the content of the folder – it contains images only – to
  - uploads/tx_route/

SSH

If you have access to your server by SSH, you can use these bash commands

```
www-data:~/uploads/tx_route$ cp ../../typo3conf/ext/route/res/sample/data/images.zip .
www-data:~/uploads/tx_route$ unzip images.zip
www-data:~/uploads/tx_route$ rm images.zip
www-data:~/uploads/tx_route$ mv images/* .
www-data:~/uploads/tx_route$ rmdir images
```

Features

Gallery

A click on an image in the single view opens a responsive image gallery.

If you like to use the image gallery, you only have to need to include the static template "Browser [-] Foundation Framework (browser)".

The gallery is part of the responsive framework Foundation. See "Framework Foundation" on page 22 below.

Geocoding

Enable geocoding

You enable geocoding – the auto update of latitudes and longitudes – in the extension manager.

See

- Category: GEOCODING
- Property: Enabled

at section "Constant Editor" on page 25 below.

The Google API licence

If geocoding is enabled, latitude and longitude will updated automatically by the Google API. If you are using the Google API, you have to publish your address data with Google Maps. The free use of the API is limited. For details please refer to the FAQ of the Google API at http://developers.google.com/maps/faq

Maybe this extension doesn't match the requirements of the Google API licence.

Updates by the scheduler

If you import data, you can update the geocode of all records by the scheduler.

See details in the manual of BrowserMaps – the map module of the TYPO3-Browser – at

- HTTP: http://typo3.org/extensions/repository/view/browser_tut_map_en
- PDF: http://typo3-browser.de/typo3conf/ext/browser_tut_map_en/doc/manual.pdf

Look for "scheduler".

GPX file upload

You can upload GPX files. See section "Get the GPX Data" on page 31 below.

Mobile

You can optimize the map for touch-screens. This allows

- to pan the map with touch gestures on the screen – "touchstart", "touchmove", "touchend" sequences.
- to zoom in with double taps, and to zoom out with two-finger single taps.

This feature is under construction.

Privacy

Routes is using interactive maps from the map providers GoogleMaps and OpenStreetMap.

The maps are the background only, your data – paths and marker (POI) – will layed over this background.

This is the cause, why any address data isn't send to the map provider.

Exception

If you are using the automatic geocoding, your address data will send to Google (the Google API).

Real URL

Route supports Real URL. You find a configuration template at:

```
res/realurl_conf.php
```

Responsive but the map

Framework Foundation

Route and the subjacent Browser – TYPO3 without PHP – supports the responsive framework Foundation[1]. This enables a responsive HTML code.

If you like to use this recommended feature, you have to need to include the static template "Browser [-] Foundation Framework (browser)" only. A running jquery library is obligated.

Then test Route with different display sizes.

You can adapt the responsive configuration to your needs. TypoScript enables it. You have to look for the HTML classes "columns" and "rows".

But the map

The map isn't responsive. There is some support for touch screens. See "Mobile" on page 21 above.

Sample data

Route is provided with sample data. Install the sample and you will save a lot of time!
See "Import the official Route Sample" on page 20 above.

SEO Dynamic Tag 2

Route is using SEO Dynamic Tag 2 for Search Engine Optimisation. SEO Dynamic Tag 2 supports the canonical tag among other SEO features. You have to configure four lines TypoScript. See section "TypoScript Template" on page 13 above.

SEO – Search Engine Optimisation

Route is optimised for search engines. You can configure so called speaking paths and serahc engine optimisation. See section "Real URL" and "SEO Dynamic Tag 2" above.

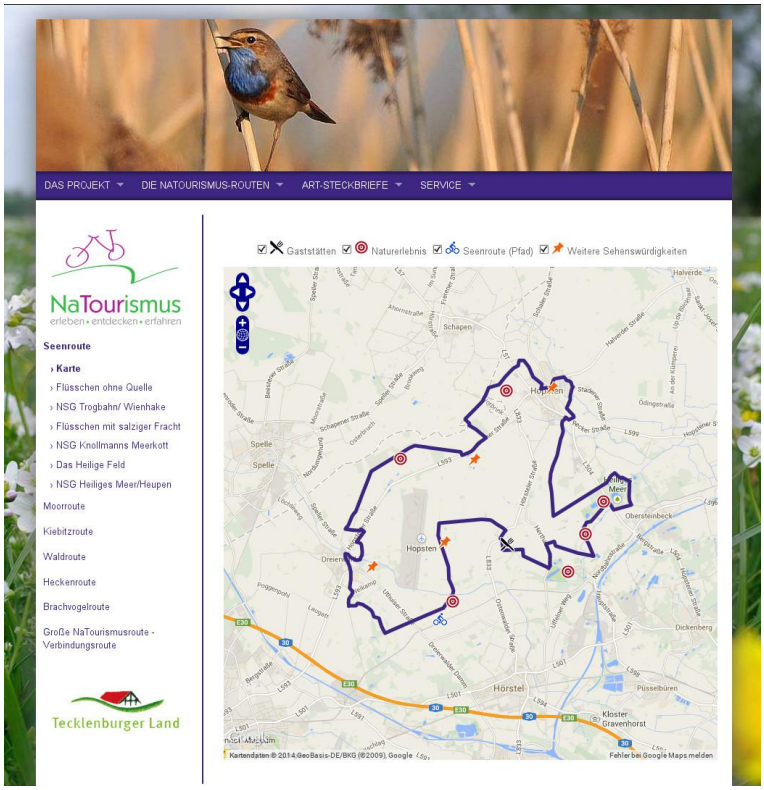
1 http://foundation.zurb.com/

Live

awo-mittelrhein.de

http://www.awo-mittelrhein.de/#c1894

natourismus-st.de



http://www.natourismus-st.de/die-natourismus-routen/seenroute/karte/

typo3-route.de

See section "Screenshots" on page 3 above and on http://typo3-route.de

Reference

It is recommended to configure Route by the Constant Editor only and not by the TypoScript Object Browser directly.

Constant Editor

BrowserMaps

You are controlling BrowserMaps with

- Category [BROWSERMAPS – ...]

BrowserMaps – the map module of the TYPO3-Browser – has its own manual. See

- HTTP: http://typo3.org/extensions/repository/view/browser_tut_map_en
- PDF: http://typo3-browser.de/typo3conf/ext/browser_tut_map_en/doc/manual.pdf

Browser Templates

Route uses TypoScript templates delivered by the Browser – TYPO3 without PHP. If you like to investigate the configuration, please refer to

- Category [BROWSER - TEMPLATES – ...]

Route

All properties have the prefix plugin.tx_route.

Example: images.list.position is plugin.tx_route.images.list.position.

IMAGES

TIP: If a property hasn't any effect, please refer to the Category [BROWSER - TEMPLATES – LIST - IMAGES ...]

Property	Type	Description	Default
images.list.position	integer	Position in list view. Possible values: • 17: In text right. • 18: In text left. • 25: Right beside the text. • 26: Left beside the text.	18
images.list.maxHeight	integer/string	Max height of images in list views	60c
images.list.maxWidth	integer/string	Max width of images in list views	100
images.map.position	integer/string	Position in pop ups Possible values: • default: above center • 1: above right • 2: above left • 8: below center • 9: below right • 10: below left • 17: In text right • 18: In text left • 25: Right beside the text • 26: Left beside the text.	26
images.map.maxHeight	integer/string	Max height of images in the pop up of the map	60c
images.map.maxWidth	integer/string	Max width of images in the pop up of the map	60

PATH

Property	Type	Description	Default
path.css	string	Path to the CSS file Default: EXT:route/files/html/css/route.css	see description
path.uploadfolder	string	Path to the upload folder with an ending slash Deafult: uploads/tx_route/	see description

Setup

The TypoScript of Route is configured by the Browser – TYPO3 without PHP – in principle.

If you like to change any behaviour, you have to configure

```
plugin.tx_browser_pi1.views {
  list {
    47676 {
      ...
    }
    47677 {
      ...
    }
    47678 {
      ...
    }
  }
  single {
    47676 {
      ...
    }
    47677 {
      ...
    }
    47678 {
      ...
    }
  }
}
```

To save code, Route delivers configuration templates at

```
plugin.tx_route {
  map {
    ...
  }
  sql {
    ...
  }
}
```

If you like to configure the map, please refer to the manual of the Browser Map Module – BrowserMaps – at

- HTTP: http://typo3.org/extensions/repository/view/browser_tut_map_en
- PDF: http://typo3-browser.de/typo3conf/ext/browser_tut_map_en/doc/manual.pdf

Restrictions

Paths

A path must categorised once

A path must linked with one category exactly. This is a restriction, because a path is filtered by its category.

If a path hasn't any category

- any path won't displayed in the map
- the map will be empty

Each path must have an unique category

It isn't possible to manage more than one path by a filter in the map proper, if more than one path is using the same category.

If more than one path has the same category, and you filter a route by this category, you will get unproper results:

- path will hidden or enabled proper
- but the category icons won't hidden proper.

Example

You have the paths:

- history, justice, sport

You have the path categories:

- city, mountain, sea

Proper relations would be:

- path: history -> category: city
- path: sport -> category: sea

Unproper relations would be

- path: history -> category: city
- path: sport -> category: city

Each path should have its own marker (POI)

A Marker (POI) could not filtered proper, if the marker is used by more than one path.

If you hide a path, the marker (POI) of the path will hidden too.

If you need a marker (POI) twice – like a central station – it is recommended to add your marker (POI) twice into your backend table. See "Workflow" below.

Example

You have the paths:

- history, justice, sport

You have the marker (POI):

- Berlin, Moscow, Washington

Proper relations would be:

- path: history -> marker (POI): Berlin, Moscow
- path: sport -> marker (POI): Washington

Unproper relations would be

- path: history -> marker (POI): Berlin, Moscow, Washington
- path: sport -> marker (POI): Washington

Workflow

You can avoid this unwanted effect.

If you need the marker (POI) Washington twice, please add Washington twice to your marker (POI) table like

- Washington (history)
- Washington (sport)

Marker (POI)

A marker (POI) must linked with one category at least

A marker (POI) must linked with one category at least. If not, you will get an error prompt.

A marker (POI) must have a latitude and a longitude

A marker (POI) must have a latitude and a longitude[1].

The marker (POI) will not displayed, if

- latitude = 0 and longitude = 0
- or latitude = '' and longitude = ''

If you have a marker (POI) located at latitude = 0 and longitude = 0 and you like to display it, please configure

1. Module: Web > Template
2. Page tree: Your page, which contains the Browser plugins (in the example above "Route [37]")
3. Edit area: [Constant Editor]
4. Category: [BROWSERMAPS – CONTROLLING*]
5. Property: Empty coordinates?

Categories

Categories should have three icons:

- the 1st one for the legend in the form
- the 2nd one for the icon in the map in the list view
- the 3rd one for the icon in the map in the single view

If you like to work with one icon or two icons only, please configure

1. Module: Web > Template
2. Page tree: Your page, which contains the Browser plugins (in the example above "Route [37]")
3. Edit area: [Constant Editor]
4. Category: [BROWSERMAPS – ICONS]
5. Properties:
   * Position of legend icon
   * Position of map icon (list view)
   * Position of map icon (single view)
   * Position of text icon

Icons

See "Categories" above.

1 Latitude and longitude will generated automatically, if you add an address

Debugging

If you have any unexpected result, you can inspect Route supported by the DRS – the Development Reporting System – in the TYPO3 backend.

DRS – Development Reporting System

Inspect work-flow and errors

The DRS – Development Reporting System – enables you

- to follow the work-flow of Route,
- to inspect alternate configuration possibilities,
- to inspect unproper configuration and
- it prompts warnings and errors

Enabling the DRS

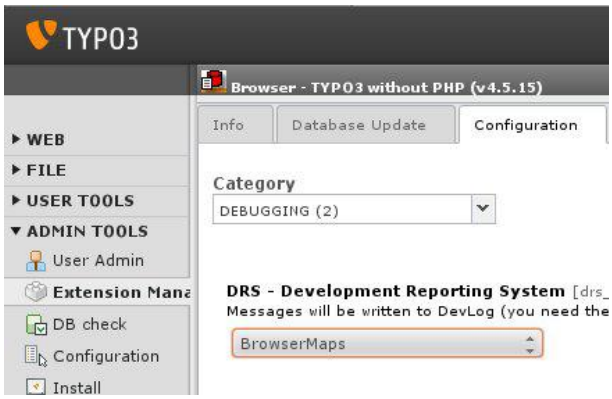


Illustration 11: Enabling the Development Reporting System

1. Module: Admin Tools > Extension Manager
2. Edit Area: Select the Browser (!) extension
3. Tab [Configuration]
4. Category: [Debugging]
5. DRS – Development Reporting System: [BrowserMaps]
6. [Update]

The DRS report

Precondition

You need the extension

- Extension Development Evaluator (extdeveval)

Report

Illustration 12: The DRS report enables you to follow the work-flow of Route

1. Module: Admin Tools > Development Log
2. Edit Area: the report

TypoScript Template "Route [1+] dev support"

This template will display in the list view 47676 some values for

- tx_route_path
- tx_route_path_cat
- tx_route_marker
- tx_route_marker_cat

Please include this template additonally.

This values are for development only.

Get the GPX Data

If you don't want to generate the needed geo data – a list of lon-lat-pairs – manually, you can generate a GPX data file online and upload it to Route.

Workflow

Online service

You can generate the optional GPX file online at

- http://openrouteservice.org/

You can collect the needed GPX data by mouse clicks.

The service is without any fee.

Download

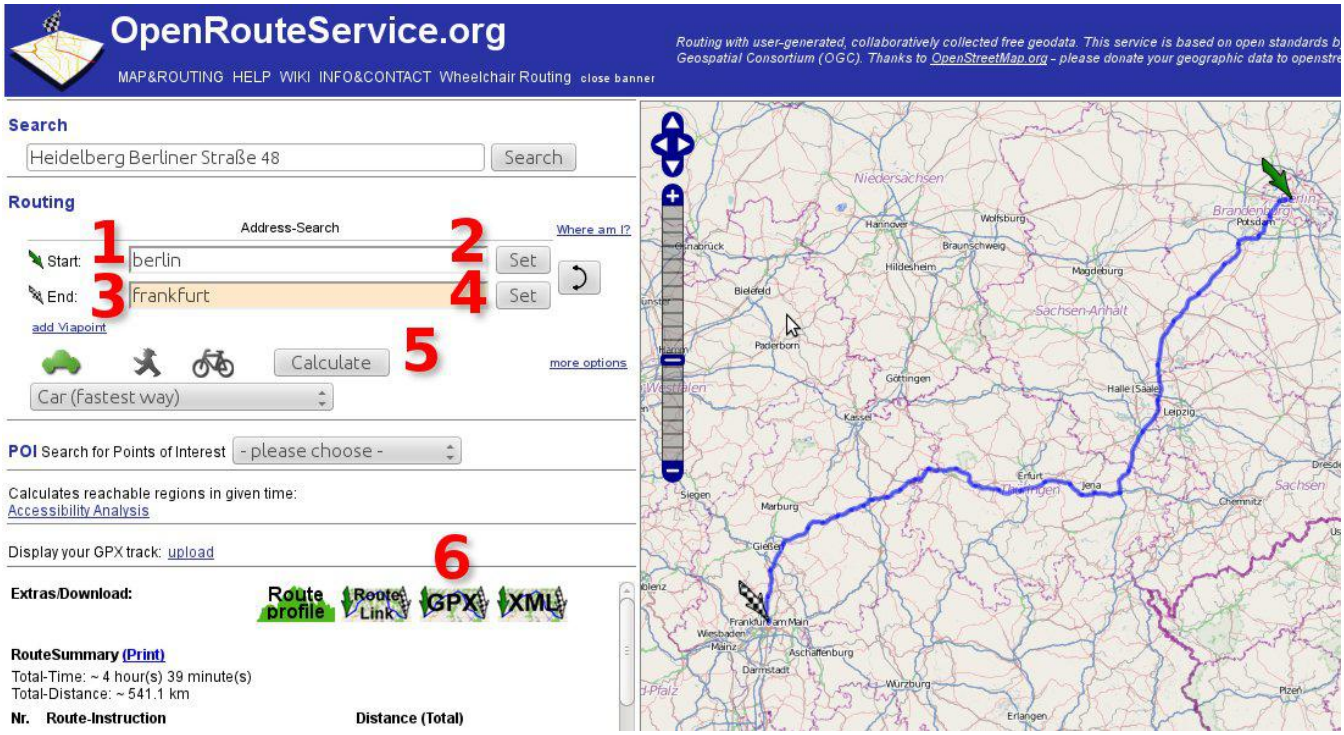


Illustration 13: OpenRouteService.org

1. Insert the address of the starting point
2. Set the starting point
3. Insert the address of the ending point
4. Set the ending point
5. Calculate the path
6. Download the GPX file

Upload

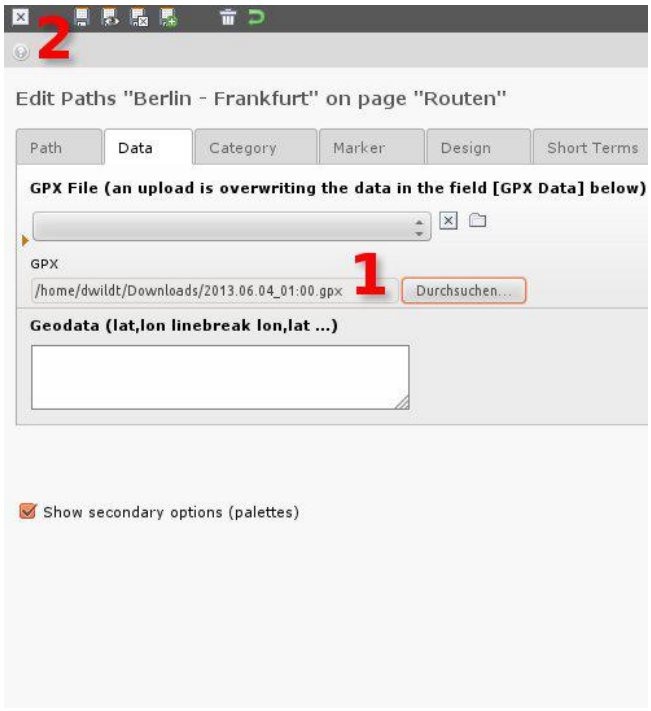


Illustration 14: Upload GPX file

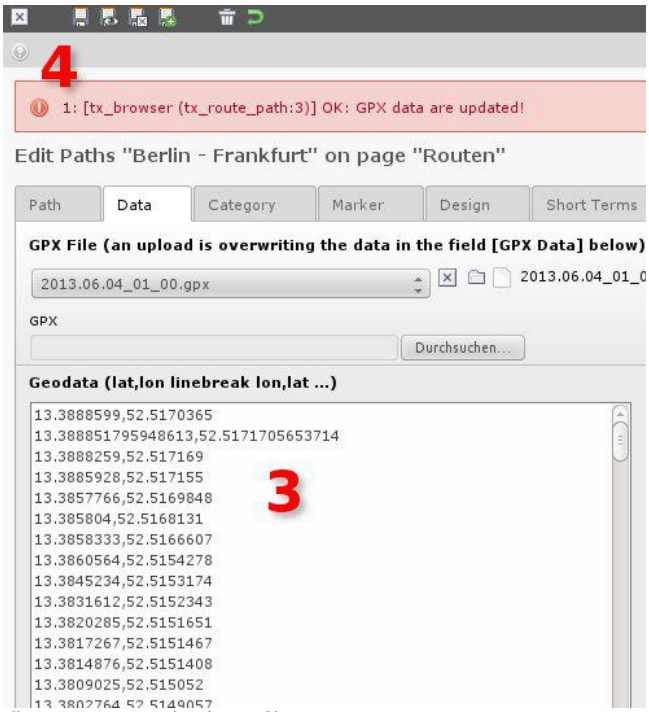


Illustration 15: Upload GPX file

1. Upload the downloaded GPX file
2. Save the form
3. Route will convert the GPX data to the needed geodata and insert it into the field [Geodata].
   If the field contains data, this data will overwrote.
4. You will get a success prompt

XML structure

If you like to upload an optional GPX file, the file needs this XML structure:

- track
  - track segment
    - track point with attributes
      - lon
      - lat

Example:

```
<?xml version="1.0" encoding="UTF-8"?>
<gpx>
  <trk>
    <trkseg>
      <trkpt lon="13.380236" lat="52.516422"/>
      ...
      <trkpt lon="13.3789391" lat="52.513531"/>
    </trkseg>
  </trk>
</gpx>
```

This structure is supported by http://openrouteservice.org/

What's new?

6.0

Responsve Image Gallery

[6.0.0]

A click on an image in the single view opens a responsvie image gallery. See "Gallery" on page 21 above.

Responsive Framework Foundation ready-to-use

[6.0.0]

All Route templates are improved for the responsive framework Foundation[1]. See "Framework Foundation" on page 22 above.

Search Engine Optimisation

[6.0.0]

You can optimise

- Route meta tags and
- Route URL

for search engines. See

- "Real URL" on page 22 above and
- "SEO Dynamic Tag 2" on page 22 above.

TYPO3 6.2

[6.0.0]

Upgrade for TYPO3 6.2

1.2

Backend: evaluation of relations

[1.1.5]

If an editor saves a route record (path, marker (POI) and category), the Browser – TYPO3 without PHP – evaluates the relations. If there is an unproper relation, the editor will get a prompt.

You need the Browser – TYPO3 without PHP – from version 4.8.x.

Backend: search fields

[1.1.5]

All tables got the needed configuration (TCA) for search fields. The search is possible for all tables now in backend forms.

CSS: class for form labels

[1.1.5]

The category table got a new field. See [Category] > field: CSS class for the the label tag in the map form.

If you don't want to display a certain category in the form of the map, you can add the css class "nodisplay" fo example. You have to configure .nodisplay in you css stylesheet of course.

CSS: icons get a pointer by default

[1.1.4]

The marker icon and the path icon get a pointer by default.

1 http://foundation.zurb.com/

FAQ

My Map is empty. Why?

Please check, if your paths match the requirements. See section "Paths" on page 27 above.

My marker are visible, my paths not. Why?

Maybe you are using OpenLayers moduls with an unproper order. OSM.Routes must be the first element!

Please check the Constant Editor

- Category [BROWSERMAPS – OPENLAYERS]
- Properties
  - Map +Routes modules
  - Map +Routes modules (debugging)

One ore more icons are missing in the map. Why?

Please check

- If your categories have a proper latitude and longitude.
  See section "A marker (POI) must have a latitude and a longitude" on page 28 above.
- If your categories have enough icons.
  See section"Icons" on page 28 above.

There isn't any answer. What can I do?

Route is based on BrowserMaps – the map module of the TYPO3-Browser. BrowserMaps has its own manual. See

- HTTP: http://typo3.org/extensions/repository/view/browser_tut_map_en
- PDF: http://typo3-browser.de/typo3conf/ext/browser_tut_map_en/doc/manual.pdf

Route has forum. You are welcome to post any question. See "Forum" on page 38 below.

Updates

From < 6.0

Include the static template again.

Include the Browser template Foundation.

The list of included templates should be look like:

- CSS Styled Content (css_styled_content)
- Browser [-] Foundation Framework (browser)[1]
- Browser [1] (browser)
- Route [1] (route)

1 If yolu like to use the responsive framework Foundation.

Credits

AWO Bezirksverband Mittelrhein

The German Arbeiterwohlfahrt (AWO) Bezirksverband Mittelrhein has contracted a part of automatic geocoding and optimization for touch-screens.

- http://www.awo-mittelrhein.de/

Made in Nature

The German TYPO3 agency Made in Nature has contracted

- a part of the initial release
- a part of the upgrade for TYPO3 6.2

See

- http://made-in-nature.de/

Known Bugs

There isn't any bug known.

Bugs are reported at

- http://forge.typo3.org/projects/extension-route/issues

Further Information

Forum

Route has a website and a forum. Please visit:

- http://typo3-route.de/
- http://typo3-route.de/forum/

Posts are welcome in English and German.

TYPO3 forge

Get the latest developer version at

- http://forge.typo3.org/projects/show/extension-route

Other extensions published by Die Netzmacher

- +AOE Linkhandler Configurator: Configure the AOE linkhandler supported by userinterfaces. Out-of-the-box templates for cal, org, tt_news and tt_products. Don't edit page TSconfig any longer.
  http://typo3.org/extensions/repository/view/linkhandlerconf/
- autositemap: A smart site-map optimised for the footer. It groups menus in columns. Great menus will get two columns. Configuration is based on TypoScript HMENU.
  http://typo3.org/extensions/repository/view/autositemap/
- Browser – TYPO3 without PHP. Develop your TYPO3 extension 8 times faster! You need one line TypoScript for a result list with a search form, a record browser and an index browser. Images are wrapped self-acting. SEO, Search Engine Optimization, is integrated. http://typo3.org/extensions/repository/view/browser/
- Caddy – the TYPO3 shopping cart. You can use it for your own needs. You need a database with products or any other items only. You can install Caddy out of the box with one mouse click – see Quick Shop below.
  http://typo3.org/extensions/repository/view/caddy/
- Deal! – TYPO3 Quick Shop interface for the marketplace ebay. Manage all items with TYPO3 and publish it on ebay. Amazon is under construction.
  http://typo3.org/extensions/repository/view/deal/
- Flip it! offers lovely and smooth page flip transitions. It enables you to run over pages in PDF documents like in a real magazine. It is based on flash. Flipt it! can convert PDF documents to swf files automatically.
  http://typo3.org/extensions/repository/view/flipit/
- Green Cars (Grüne Autos) - Database optimized for ecological cars. It is a case study and demonstrates, how to get a complex database with the browser (see above) in three hours only.
  http://typo3.org/extensions/repository/view/green_cars/
- Jobmarket is a catalogue with job offers. Views, the a-z-browser, the page-browser, the search, social bookmarks and a lot of other stuff can configured by the Browser plugin with the mouse. Job Market hasn't any PHP code, it should be easy to adapt it to your needs.
  http://typo3.org/extensions/repository/view/job_market/
- Majordomo: For subcribing to and unsubscribing from a majordomo mailing list.
  http://typo3.org/extensions/repository/view/majordomo/
- Organiser – TYPO3 for the lobby and the organisers. Handle news, events, staff, headquarters, locations, workshops and a calendar with one extension. Sell online tickets! Install the Organiser with one mouse click!
  http://typo3-organiser.de/
- Quick Shop – the fastest shop in the history of TYPO3. Install it with one mouse click! Quick Shop is based on the browser (see above) and powermail.
  http://typo3-quick-shop.de/
- PDF Controller: Easy to install. Add to your HTML page the PDF-controller-button. Link from the button to the controller. Adjust the controller by mouseclicks. The PDF Controller supports CSS 3.
  http://typo3-pdfcontroller.de/
- Radial Search (Umkreissuche) – Enable the browsing through your data by geo location. 'Your data must have a latitude and a longitude. Address data can geocoded automatically by the Browser - TYPO3 without PHP.
  http://typo3.org/extensions/repository/view/radialsearch/
- Route – Publish your routes with GoogleMaps or OpenStreetMap. Routes have points of interest (POI). You can categorise and filter both: routes and POI. Address data can geocoded automatically.
  http://typo3.org/extensions/repository/view/route/
- seo_dynamic_tag: Search Engine Optimization for the title tag, the canonical tag and the meta tags author, description and keywords. Configuration by a user interface.
  http://typo3.org/extensions/repository/view/seo_dynamic_tag/
- TSconfig Pages and Users by extManager (extkey: tsconf): Configure the the eight most commonly used TSconfig porperties with the mouse - like page tree uids, activated extended view, activated clipboard, ...
  http://typo3.org/extensions/repository/view/tsconf/

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Change Log

6.0.0 **Major Feature**
* #61939: Make TypoScript clear: Different files instead of one file
* static removed: Mind manual update!
* #61911: Upgrade TYPO3 6.2
* Integration of 4.x-Extensions fixed for 6.2
* cps_tcatree

Feature
* #61998: Template for SEO Dynamic Tag 2
* #61937: Links depending on record type: record, page, noType, url
See #61938 at Browser

Improvement
* #i0009: Corporate Design

Bugfix
* #61926: ###MAP### marker in html template is moved from inner ###LISTBODY### to outer ###LISTBODY###
(See browser ChangeLog too)
* #52544: mysql_real_escape_string(): Can't connect to local MySQL server
Solved. See: #61520

1.2.5 **Improvement**
* #i0008: manual: three plugins

1.2.4 **Improvement**
* #i0007: Description of the extension with link to the manual

1.2.3 **Bugfix**
* #i0006: Bugfix manual

1.2.1 **Improvement**
* #52899: Properties name and category must have a different value

1.1.5 **Features**
* #54575: Evaluate Backend tables route
* #54550: TCA search fields
* #54548: CSS class for form lables

Improvements
* #i0005: showUid in single views removed (because showUid has an effect in list views only)

1.1.4 **Improvements**
* #53204: bodytext fields in select query
* #53205: CSS: marker icon and route icon should get a pointer in every case

1.1.2 **Improvements**
* #i0004: Update Manual

1.1.1 **Features**
* #i0003: Sample data

1.1.0 **Features**
* #51644: Automatic geocoding
* #i0002: Sample GPX data

1.0.0: **Initial release**