

# Route - with GoogleMaps or 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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Language: en

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The content of this document is related to TYPO3 - a GNU/GPL CMS/Framework available from [www.typo3.org](http://www.typo3.org)

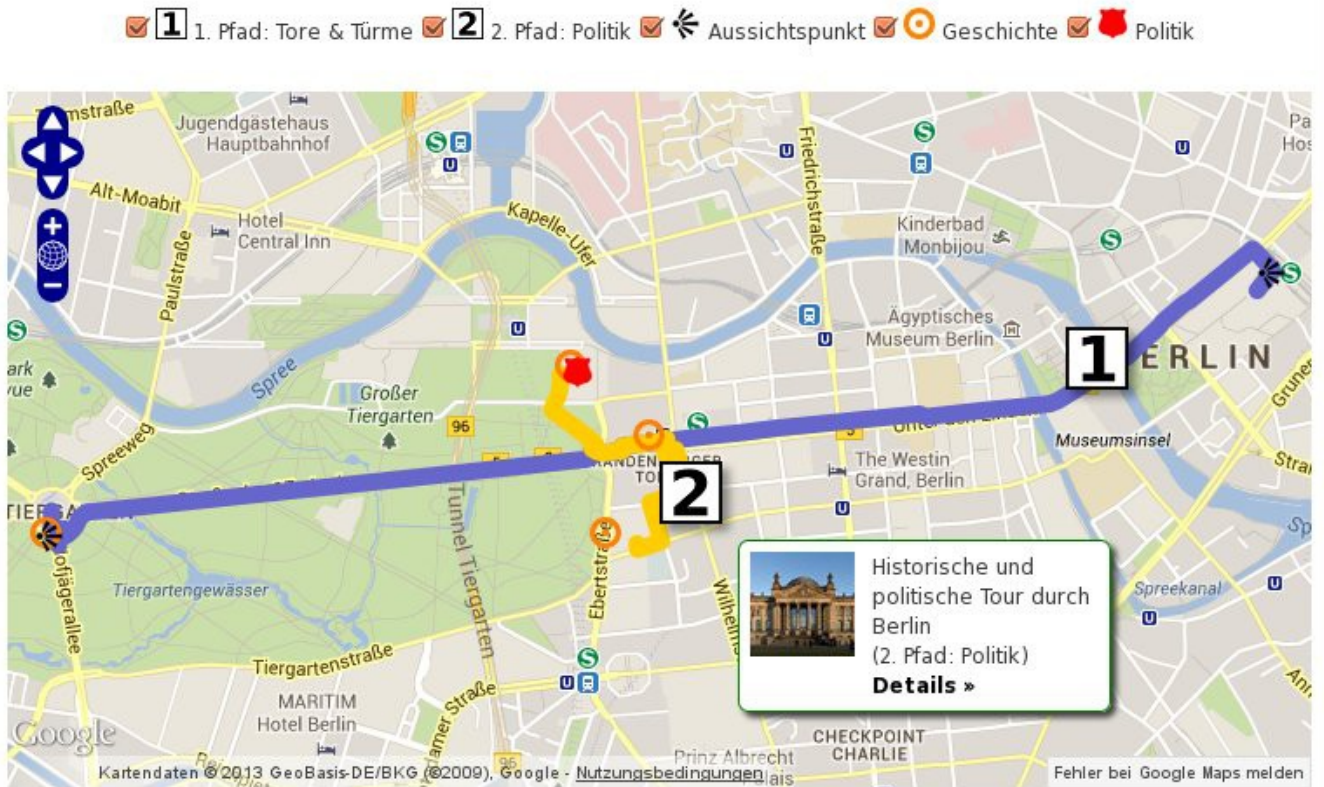
## Table of Contents

Route - with GoogleMaps or OpenStreetMap .....	1	Categories .....	22
Screenshots .....	3	Icons .....	22
Frontend .....	3	Debugging .....	23
Backend .....	6	DRS – Development Reporting System .....	23
Introduction .....	10	TypoScript Template "+Route (debug 47676)" .....	24
What does Route do? .....	10	Get the GPX Data .....	25
What do you need? .....	10	Workflow .....	25
Quick Installation .....	11	XML structure .....	26
Manual Installation .....	12	What's new? .....	27
Extensions .....	12	1.2 .....	27
Page and Folder .....	12	FAQ .....	28
TypoScript Template .....	13	My Map is empty. What can I do? .....	28
Three Browser Plugins .....	13	My marker are visible, my paths not. Why? .....	28
Data .....	16	One ore more icons are missing in the map. Why? .....	28
Configuration .....	17	There isn't any answer. What can I do? .....	28
Features .....	18	Updates .....	29
Geocoding .....	18	Credits .....	30
GPX file upload .....	18	AWO Bezirksverband Mittelrhein .....	30
Mobile .....	18	Made in Nature .....	30
Privacy .....	18	Known Bugs .....	31
Sample data .....	18	Further Information .....	32
Reference .....	19	Forum .....	32
Constant Editor .....	19	TYPO3 forge .....	32
Setup .....	19	Other extensions published by Die Netzmacher .....	33
Restrictions .....	21	Illustration Index .....	34
Paths .....	21	Change Log .....	35
Marker (POI) .....	22		

# Screenshots

## Frontend

### Routes with GoogleMaps



## Veröffentliche Deine Routen mit TYPO3 Route!



Fernsehturm

### Beispiel 1: TYPO3-Flaggen an Türmen und Toren



- 1** Häng acht Quadratmeter große TYPO3-Flaggen an den Fernsehturm, ans Brandenburger Tor und an die Siegessäule – und zwar höher als Deine Konkurrenz! **Details »**



Reichstag

### Beispiel 2: Historische und politische Tour durch Berlin



- 2** Vom Reichstag durch das Brandenburger Tor zum Denkmal für die ermordeten Juden Europas **Details »**

[Das gleiche Beispiel mit OpenStreetMap »](#)

## Demo-Website zum Testen von TYPO3-Route

Auf dieser Website kannst Du TYPO3-Route testen. Alle verwendeten Daten sind beispielhaft.

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

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

### Reichstagsgebäude

Das Reichstagsgebäude (kurz Reichstag; offiziell Plenarbereich Reichstagsgebäude) ist ein Gebäude in Berlin. Es ist seit 1999 Sitz des Deutschen Bundestags. Die Bundesversammlung tritt hier seit 1999 zusammen. 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/>



Reichstag



Holocaust Denkmal



## A single route with Open Street Map

☒ **1** 1. Pfad: Tore & Türme ☒  Aussichtspunkt ☒  Geschichte



Fernsehturm

## TYPO3-Fahnen an Türme und Tore hängen

**1** Du musst jeweils eine TYPO3-Fahne am Fernsehturm, am Brandenburger Tor und an der Siegessäule anbringen. Du hast 4 Stunden Zeit. Gewinner ist der, der die Fahnen am höchsten anbringt und nach der Aktion noch frei herumläuft.

Wir treffen uns immer am ersten Montag im Monat um 10 Uhr am Fuß des Fernsehturms.

### Fernsehturm

**Tipp:** Der Fernsehturm hat einen Fahrstuhl. Bis zum Restaurant in der Kugel kannst Du ganz bequem hochfahren, Du musst keine Treppen steigen!

**Problem:** Du musst die etwa acht Quadratmeter große TYPO3-Flagge außen anbringen, Fenster sind aber nicht zu öffnen.

**Mögliche Lösung:** Über dem Restaurant sind Technik-Räume der Telekom. Versuche die Räume legal zu erreichen, Du kannst dann sogar am Antennenturm hochklettern. Paß auf, dass Du nicht runterfällst. Frag vielleicht vorher bei Greenpeace nach, wie man sich bei solchen Aktionen am besten sichert.



Brandenburger Tor

### Brandenburger Tor

**Tipp 1:** Das Brandenburger Tor ist hohl. In den Außen-Säulen befinden sich Treppen. Die Treppen sind von den ehemaligen Wachhäuschen aus erreichbar.

**Tipp 2:** Wenn Du auf dem Tor einen hohen Mast aufstellst, kannst Du Deine TYPO3-Flagge höher hängen als die anderen Wettbewerber.

**Problem:** Die Türen der Wachhäuschen sind normalerweise verschlossen.

**Mögliche Lösung:** Check die Schlösser! Vielleicht genügt ein einfacher Dietrich zum Aufsperrn. Ansonsten bring eine lange Leiter oder eine gute Bergsteiger-Ausrüstung mit und kletter von außen

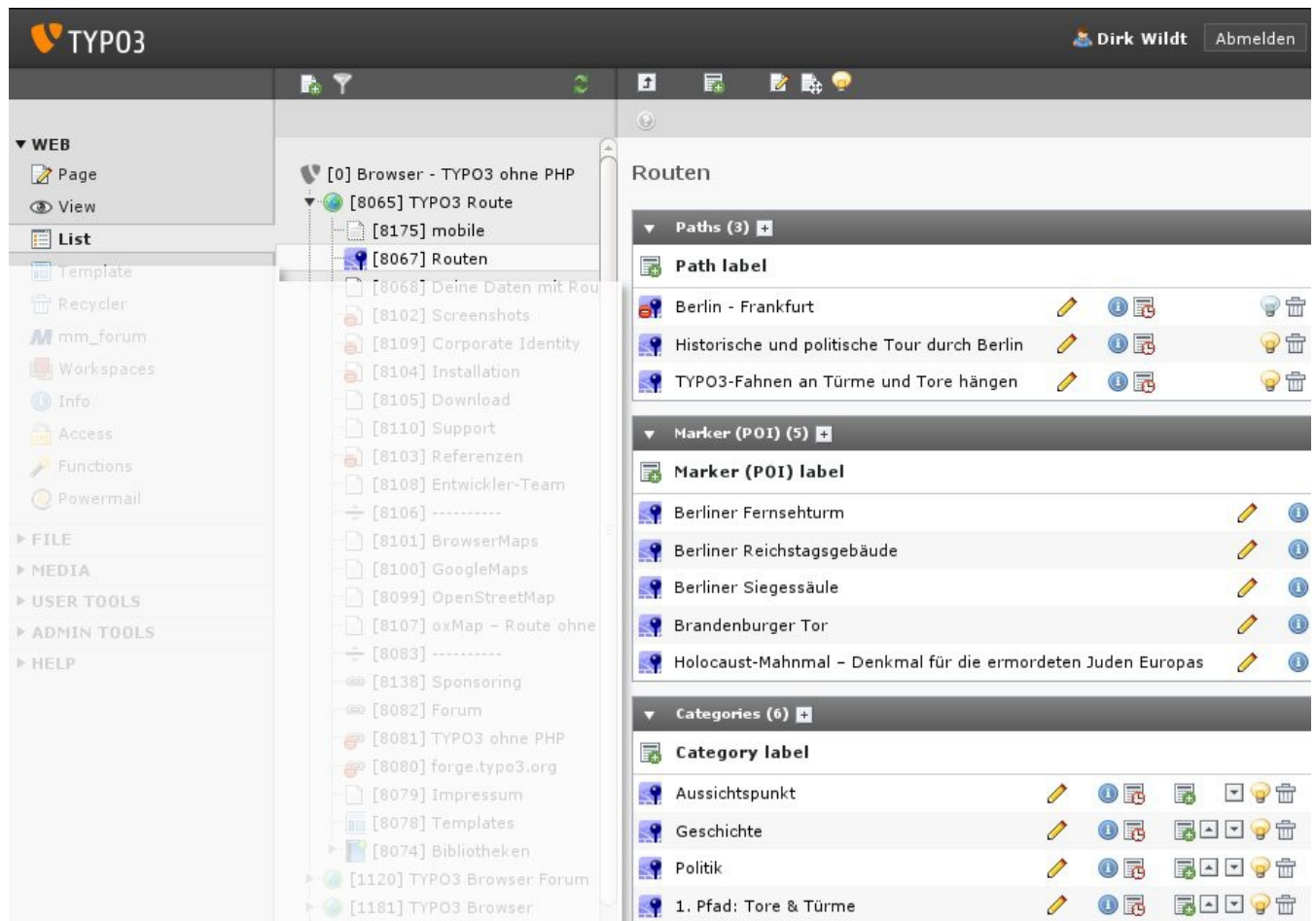


Illustration 3: Route single view with open street maps

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

## Backend

### Records



The screenshot shows the TYPO3 Backend interface. The left sidebar contains navigation menus: WEB, FILE, MEDIA, USER TOOLS, ADMIN TOOLS, and HELP. The central tree view shows the record hierarchy, with the 'Routen' record selected. The right panel displays the 'Routen' record details, including a list of paths, markers, and categories.

**Routen**

**Paths (3)**

Path label	Actions
Berlin - Frankfurt	[Edit] [Info] [Add]
Historische und politische Tour durch Berlin	[Edit] [Info] [Add]
TYPO3-Fahnen an Türme und Tore hängen	[Edit] [Info] [Add]

**Marker (POI) (5)**

Marker (POI) label	Actions
Berliner Fernsehturm	[Edit] [Info]
Berliner Reichstagsgebäude	[Edit] [Info]
Berliner Siegessäule	[Edit] [Info]
Brandenburger Tor	[Edit] [Info]
Holocaust-Mahnmal - Denkmal für die ermordeten Juden Europas	[Edit] [Info]

**Categories (6)**

Category label	Actions
Aussichtspunkt	[Edit] [Info] [Add] [Delete]
Geschichte	[Edit] [Info] [Add] [Delete]
Politik	[Edit] [Info] [Add] [Delete]
1. Pfad: Tore & Türme	[Edit] [Info] [Add] [Delete]

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




## Route record

Path
Data
Category
Marker (POI)
Design
Short Terms
Address
**Images**
Controlling

**Images and Captions**

**Images**

Reichstag\_Berlin\_01.jpg
Brandenburger\_Tor\_abends\_01.jpg
Holocaust-Mahnmal\_Berlin\_01.jpg

GIF JPG JPEG TIF TIFF BMP PCX TGA PNG PDF AI

Durchsuchen... Keine Dateien ausgewählt.

**Captions (one per line)**

Reichstag
Brandenburger Tor
Holocaust Denkmal


**Label for Search Engines (one line per image)**

Reichstag | Foto: Jürgen Matern / Wikimedia Commons, CC-BY-3.0  
Brandenburger Tor | Foto: Thomas Wolf, www.foto-tw.de  
Holocaust Denkmal | Foto: K. Weisser / Wikimedia Commons

**Image Alignment**

**Position and Alignment**

Beside Text, Right



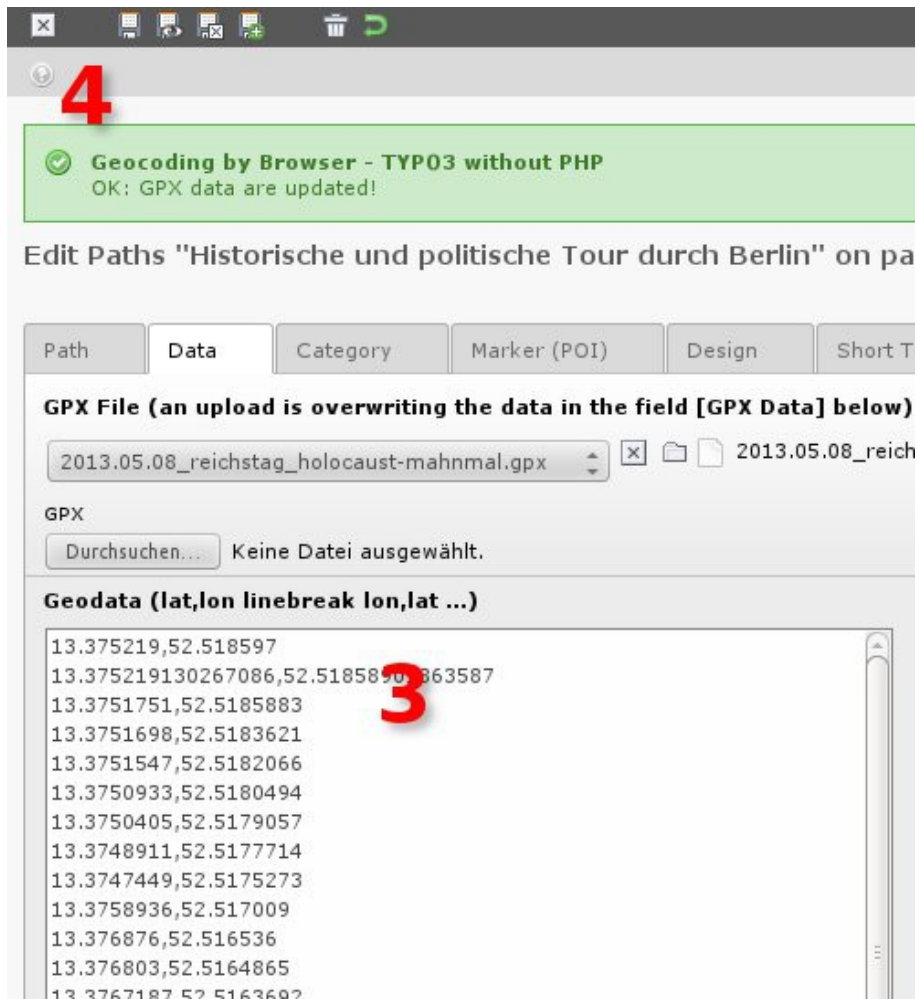
**Number of Columns**

1

Display as Rows
Caption Alignment

Illustration 5: TYPO3 Route record with the images tab

## Update GPX data



**4**

✓ **Geocoding by Browser - TYPO3 without PHP**  
OK: GPX data are updated!

Edit Paths "Historische und politische Tour durch Berlin" on pa

Path Data Category Marker (POI) Design Short T

**GPX File (an upload is overwriting the data in the field [GPX Data] below)**

2013.05.08\_reichstag\_holocaust-mahnmal.gpx 2013.05.08\_reich

GPX

Durchsuchen... Keine Datei ausgewählt.

**Geodata (lat,lon linebreak lon,lat ...)**


13.375219,52.518597  
13.375219130267086,52.5185890363587  
13.3751751,52.5185883  
13.3751698,52.5183621  
13.3751547,52.5182066  
13.3750933,52.5180494  
13.3750405,52.5179057  
13.3748911,52.5177714  
13.3747449,52.5175273  
13.3758936,52.517009  
13.376876,52.516536  
13.376803,52.5164865  
13.3767187,52.5163602


**3**

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



## Automatic geocoding

Path: /TYPO3 Route/  Routen [8067]

 **Geocoding by Browser - TYPO3 without PHP**  
 latitude and longitude are updated!

Edit Marker (POI) "Brandenburger Tor" on page "Routen"

Marker (POI)	Category	Address	Contact details	Paths	Short Terms	Images	Controlling
<b>Name</b> <input type="text" value="Brandenburger Tor"/>							
<b>Street</b> <input type="text" value="Pariser Platz"/>							
<b>Zip</b> <input type="text" value="10117"/>							
<b>City</b> <input type="text" value="Berlin"/>							
<b>Administrative area level 2</b> <input type="text" value="Mitte"/>							
<b>Administrative area level 1</b> <input type="text" value="Berlin"/>							
<b>Country</b> <input type="text" value="Deutschland"/>							
<b>Geoupdate prompt</b> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;">           * 2013-09-02 14:54:03 - Browsers - TYPO3 ohne PHP:            Breiten- und Längengrad wurden aktualisiert!         </div>							
<b>Latitude and longitude should not updated automatically</b> <input type="checkbox"/>							
<b>Longitude</b> <input type="text" value="13.379365"/>							
<b>Latitude</b> <input type="text" value="52.5168559"/>							


 Marker (POI) [4]

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



# 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.

## What do you need?

- The TYPO3 extensions
  - Route
  - Browser – TYPO3 without PHP – from version 4.6
- Experience with TYPO3

## Quick Installation

- Create a folder for the route data
- Create a page for publishing your routes
  - Add the TypoScript template of this extension
  - Add three Browser plugins and configure it
- Add route data

# Manual Installation

## Extensions

Install and enable the extension

- Browser – TYPO3 without PHP<sup>1</sup>
- Route

Please set the Browser option "Did you checked the update" to [I checked it] (see illustration below).

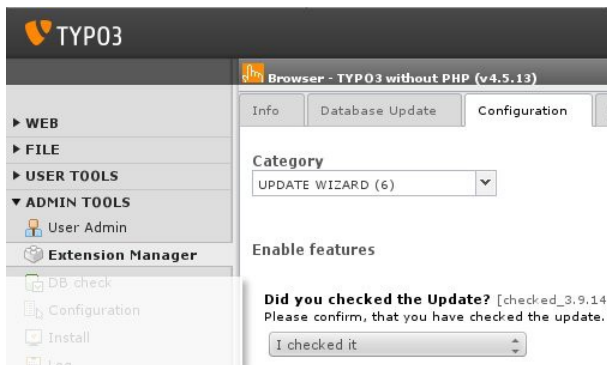


Illustration 8: Browser: Set Update to "checked"

## 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.

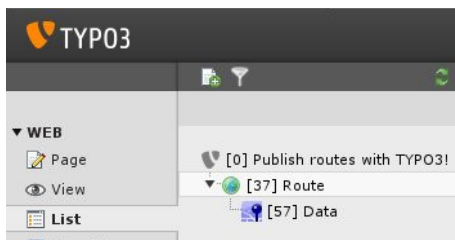


Illustration 9: Route pages

## 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]

<sup>1</sup> From version 4.6



### Ids and other icons

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

- TSconfig Pages and Users by extManager (tsconf)  
<http://typo3.org/extension-manuals/tsconf/>

## TypoScript Template

Add a TypoScript template to your page "route" (with the id 37 in the example above).

Configure:

- tab [Includes]
  - CSS Styled Content (css\_styled\_content)
  - Browser (browser)
  - Route (route)

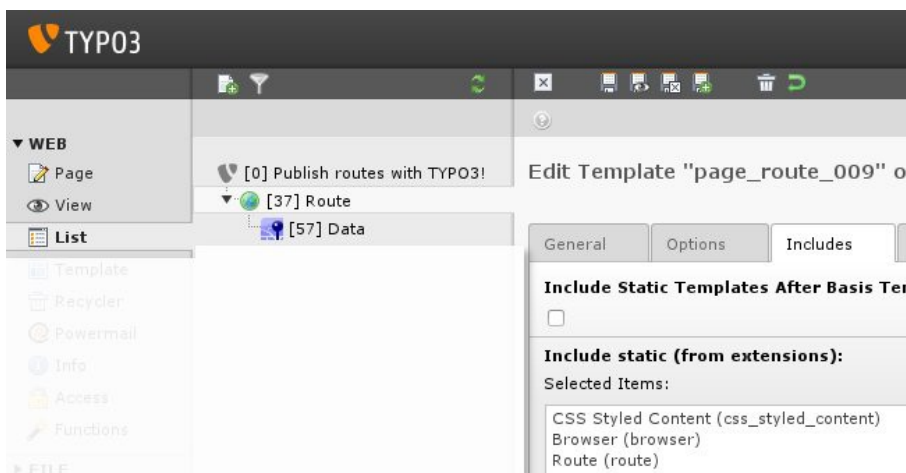


Illustration 10: TypoScript Include Templates

## Three Browser Plugins

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" (with the id 37 in the example above):

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

### [Routes: map]

Please set:

- tab [Behaviour]
  - Record Storage Page: data [57]<sup>1</sup>
- tab [Plugin]
  - tab [General]
    - Views: [Configured]
    - View: 47676 - Route (map only)
    - Views: piVars (parameters in the URL) from foreign plugins: "Handle it!"
    - Control the plugin: Hide this plugin, if ...: tx\_browser\_pi1[markerUid]
  - tab [List View]
    - Display: Navigation: [ ] Index Browser, [ ] Page Browser
    - Search: [Configured]
    - Search: Form: [ ] Display the form
  - tab [Single View]
    - Single View: disabled (list view will displayed)
    - Record Browser: disabled
  - tab [Templating]
    - HTML: [Browser: Main (browser)]
  - tab [jQuery & AJAX]: AJAX disabled

### [Routes: text]

Please set:

- tab [Behaviour]
  - Record Storage Page: data [57]<sup>2</sup>
- tab [Plugin]
  - tab [General]
    - Views: [Configured]
    - View: 47677 - Route (text only)
    - Views: piVars (parameters in the URL) from foreign plugins: "Handle it!"
    - Control the plugin: Hide this plugin, if ...: tx\_browser\_pi1[markerUid]
  - tab [List View]
    - Display: Navigation: [ ] Index Browser, [ ] Page Browser
    - Search: [Configured]
    - Search: Form: [ ] Display the form
  - tab [Single View]

<sup>1</sup> id of the data folder from example above

<sup>2</sup> dito



- Record Browser: disabled
- tab [Templating]
  - HTML: [Browser: Main (browser)]
- tab [jQuery & AJAX]: AJAX disabled
- tab [Social Media]
  - Social Bookmarks: [I'm using my own HTML template]
  - Bookmarks in list views
    - table.field for the title property: [tx\_route\_path.title]
    - selected items: [select some items]
  - Bookmarks in single views
    - table.field for the title property: [tx\_route\_path.title]
    - selected items: [select some items]

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

Please set:

- tab [Behaviour]
  - Record Storage Page: data [57]<sup>1</sup>
- tab [Plugin]
  - tab [General]
    - Views: [Configured]
    - View: 47678 - Marker (single only)
    - Views: piVars (parameters in the URL) from foreign plugins: "Handle it!"
    - Control the plugin: Display this plugin, if ...: tx\_browser\_pi1[markerUid]
  - tab [List View]
    - Display: Navigation: [ ] Index Browser, [ ] Page Browser
    - Search: [Configured]
    - Search: Form: [ ] Display the form
  - tab [Single View]
    - Record Browser: disabled
  - tab [Templating]
    - HTML: [Browser: Main (browser)]
  - tab [jQuery & AJAX]: AJAX disabled

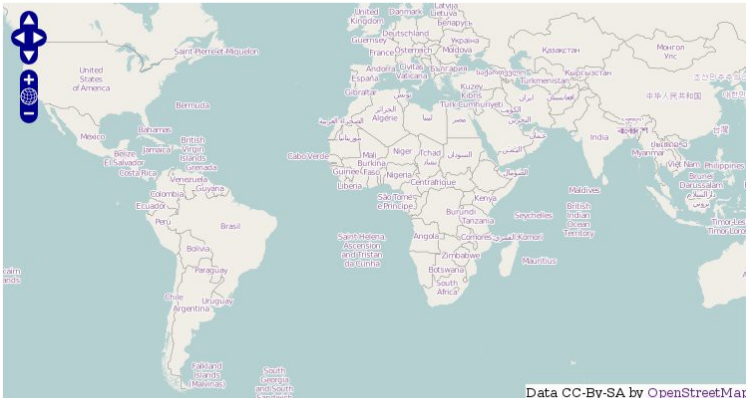
---

<sup>1</sup> dito



## Result in the frontend

Sorry, there is no matched record!



Sorry, there is no matched record!

Illustration 11: Result in the frontend

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

## Data

You can

- create your own data or
- migrate sample data (recommended).

### Create your own data

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 18 below.

### Routes

A route need GPX data. You can create this data supported by [openrouteservice.org](http://openrouteservice.org). See details at the section "Get the GPX Data" on page 25 below.

### Migrate sample data

You can use the sample data of the extension, but be aware: If you import this data, ALL FORMER ROUTE DATA WILL REMOVED! And sorry: the sample data are in German language only.

Text data:

- Download the file `ext_tables_static+adt.sql` from:
  - [http://your-domain.com/typo3conf/ext/route/res/ext\\_tables\\_static+adt.sql](http://your-domain.com/typo3conf/ext/route/res/ext_tables_static+adt.sql) or
  - [http://forge.typo3.org/projects/extension-route/repository/raw/trunk/res/ext\\_tables\\_static+adt.sql](http://forge.typo3.org/projects/extension-route/repository/raw/trunk/res/ext_tables_static+adt.sql)
- Open the sql file with an text editor.
- Replace the pid of all records with the uid of the folder with your route data. In the example above the uid is 57.  
Move '%pid%' to '57'
- Insert the data with PhpMyAdmin into the tables of your database. ALL FORMER ROUTE DATA WILL





REMOVED!

## Images

- 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.
- Move the content of the folder – it contains images only – to
  - uploads/tx\_route/

## Result in the frontend

1. Pfad: Tore & Türme 2. Pfad: Politik Aussichtspunkt Geschichte Politik



### Beispiel 1: TYPO3-Flaggen an Türmen und Toren

1 Häng acht Quadratmeter große TYPO3-Flaggen an den Fernsehturm, ans Brandenburger Tor und an die Siegessäule – und zwar höher als Deine Konkurrenz! [In detail »](#)



### Beispiel 2: Historische und politische Tour durch Berlin

2 Vom Reichstag durch das Brandenburger Tor zum Denkmal für die ermordeten Juden Europas [In detail »](#)

Illustration 12: 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 19 below.

# Features

## Geocoding

### Enable geocoding

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

See

- Category: GEOCODING
- Property: Enabled

### 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](http://typo3.org/extensions/repository/view/browser_tut_map_en)
- PDF: [http://typo3-browser.de/typo3conf/ext/browser\\_tut\\_map\\_en/doc/manual.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 25 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).

## Sample data

Route is provided with sample data. Install Route with this data and you will save a lot of time! See section "Migrate sample data" on page 16 above.

# Reference

It is recommended to configure Route by the Constant Editor only and not by the TypeScript 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](http://typo3.org/extensions/repository/view/browser_tut_map_en)
- PDF: [http://typo3-browser.de/typo3conf/ext/browser\\_tut\\_map\\_en/doc/manual.pdf](http://typo3-browser.de/typo3conf/ext/browser_tut_map_en/doc/manual.pdf)

### Route

All properties have the prefix plugin.tx\_route.

Example: images.list.position is plugin.tx\_route.images.list.position.

### IMAGES

Property	Type	Description	Default
images.list.position	integer	Position in list view. Possible values: <ul style="list-style-type: none"> <li>• 17: In text right.</li> <li>• 18: In text left.</li> <li>• 25: Right beside the text.</li> <li>• 26: Left beside the text.</li> </ul>	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: <ul style="list-style-type: none"> <li>• default: above center</li> <li>• 1: above right</li> <li>• 2: above left</li> <li>• 8: below center</li> <li>• 9: below right</li> <li>• 10: below left</li> <li>• 17: In text right</li> <li>• 18: In text left</li> <li>• 25: Right beside the text</li> <li>• 26: Left beside the text.</li> </ul>	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 Default: uploads/tx_route/	see description

## Setup

Route hasn't any own setup.

The TypeScript of Route is configured by the Browser – TYPO3 without PHP.

Please refer to the manual of the Browser Map Module – BrowserMaps – at

- HTTP: [http://typo3.org/extensions/repository/view/browser\\_tut\\_map\\_en](http://typo3.org/extensions/repository/view/browser_tut_map_en)

- 
- PDF: [http://typo3-browser.de/typo3conf/ext/browser\\_tut\\_map\\_en/doc/manual.pdf](http://typo3-browser.de/typo3conf/ext/browser_tut_map_en/doc/manual.pdf)





# Restrictions

## Paths

### A path must be categorised once

A path must be 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 be displayed in the map
- the map will be empty

### Each path must have a unique category

It isn't possible to manage more than one path by a filter in the map properly, 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 improper results:

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

### 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 be filtered properly, if the marker is used by more than one path.

If you hide a path, the marker (POI) of the path will be 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<sup>1</sup>.

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.

<sup>1</sup> 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 improper configuration and
- it prompts warnings and errors

### Enabling the DRS

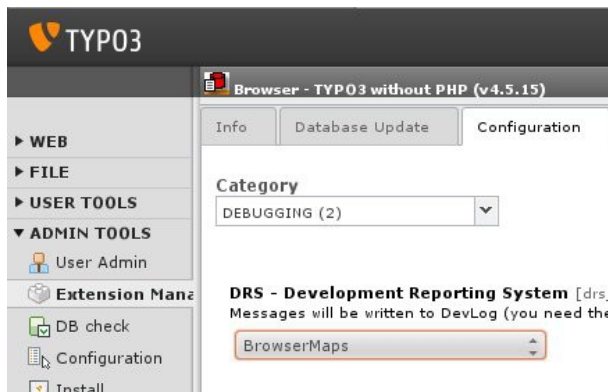


Illustration 13: Enabling the Development Reporting System

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

The screenshot shows the TYPO3 Developer Log interface. On the left is a sidebar with navigation options: WEB, FILE, USER TOOLS, and ADMIN TOOLS. The ADMIN TOOLS section is expanded, showing options like User Admin, Extension Manager, DB check, Configuration, Install, Log, and Reports. The main area displays a table of log entries. The table has columns for Date, Severity, Extension, Message, Called from, Page, User, and Extra data. The log entries show various messages, including warnings and errors, related to the DRS (Development Reporting System) and the tx\_browser\_pi1 extension. The log period is set to 05-09-13 20:29 (1 hour).

Illustration 14: The DRS report enables you to follow the work-flow of Route

- Module: Admin Tools > Development Log
- Edit Area: the report

## TypoScript Template "+Route (debug 47676)"

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 additionally.

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

The screenshot shows the OpenRouteService.org website interface. The top navigation bar includes links for MAP&ROUTING, HELP, WIKI, INFO&CONTACT, and Wheelchair Routing. The main content area is divided into a left sidebar and a right map panel. The sidebar contains a search bar, a routing section with input fields for start and end points, a 'Calculate' button, and a 'POI Search' section. The map panel shows a route from Berlin to Frankfurt. Numbered steps 1 through 6 are overlaid on the interface to guide the user through the process: 1. Insert the address of the starting point (Berlin), 2. Set the starting point, 3. Insert the address of the ending point (Frankfurt), 4. Set the ending point, 5. Calculate the path, and 6. Download the GPX file.

Illustration 15: 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 16: Upload GPX file

Illustration 17: 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 overwrite.
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?

## 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.

## FAQ

### My Map is empty. What can I do?

Please check, if your paths match the requirements. See section "Paths" on page 21 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 22 above.
- If your categories have enough icons.  
See section "Icons" on page 22 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](http://typo3.org/extensions/repository/view/browser_tut_map_en)
- PDF: [http://typo3-browser.de/typo3conf/ext/browser\\_tut\\_map\\_en/doc/manual.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 32 below.

## Updates

Route is a new TYPO3 extension. There isn't any update information.

# 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.

- <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.<sup>1</sup>  
<http://typo3.org/extensions/repository/view/caddy/>
-  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/](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/](http://typo3.org/extensions/repository/view/job_market/)
-  Majordomo: For subscribing 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/>
-  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/](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 properties with the mouse - like page tree uids, activated extended view, activated clipboard, ...  
<http://typo3.org/extensions/repository/view/tsconf/>
-  tt\_news select configuration (extkey: ttnews\_selectconf) enables to select tt\_news by any SQL clause. The extension adds an andWhere clause to the SQL query of the tt\_news plugin.  
[http://typo3.org/extensions/repository/view/ttnews\\_selectconf/](http://typo3.org/extensions/repository/view/ttnews_selectconf/)
-  Wine Catalogue provides a data base for wine with regions, wineries, styles, variety and ageing among others. It is localized. English, German and Spanish ist of the box. Wine based on the extension browser (see above).  
<http://typo3.org/extensions/repository/view/wine/>

<sup>1</sup> I purpose to publish Caddy in the TYPO3 repository in September of 2013

# Illustration Index

Illustration 1: Route list view with google maps.....	3
Illustration 2: Route single view with google maps.....	4
Illustration 3: Route single view with open street maps.....	5
Illustration 4: TYPO3 Route with records for paths, marker and categories.....	6
Illustration 5: TYPO3 Route record with the images tab.....	7
Illustration 6: Upload your GPX data! TYPO3 Route will update the geodata field automatically.....	8
Illustration 7: TYPO3 Route calculate the geocoding of your address automatically.....	9
Illustration 8: Browser: Set Update to "checked".....	12
Illustration 9: Route pages.....	12
Illustration 10: TypoScript Include Templates.....	13
Illustration 11: Result in the frontend.....	16
Illustration 12: Result in the frontend with the sample data.....	17
Illustration 13: Enabling the Development Reporting System.....	23
Illustration 14: The DRS report enables you to follow the work-flow of Route.....	24
Illustration 15: OpenRouteService.org.....	25
Illustration 16: Upload GPX file.....	26
Illustration 17: Upload GPX file.....	26



## Change Log

- 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**