

# Browser Tutorial Labeling (en)



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Extension Key: browser\_tut\_labeling\_en - Tutorials for the extension Browser (extkey: browser)

Language: en

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## Table of Contents

Browser Tutorial Labeling (en) .....	1
Introduction .....	3
What does it do? .....	3
Further Information .....	3
Tutorial: Labeling and Field Properties .....	4
Intention .....	4
Step 1: The Browser Support for Labeling .....	4
Step 2: Own Labels instead of TCA values .....	6
Step 3: Labeling "unknown" fields .....	6
Step 4: Labeling conform with the guidelines of the WAI .....	8
Step 5: Field Properties from the TCA .....	9
Reference .....	11
Helpful suggestions .....	12
To-Do List .....	13
Change Log .....	14
Illustration Index .....	15

# Introduction

## What does it do?

This is a tutorial for the extension Browser (extkey: browser).

It is

- a step-by-step introduction for Labeling

only.

## Further Information

### This tutorial in PDF format

You find this tutorial as a PDF file at

- doc/manual.pdf
- [http://typo3.org/extensions/repository/view/browser\\_tut\\_labeling\\_en/current/info/?tx\\_terfe\\_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf](http://typo3.org/extensions/repository/view/browser_tut_labeling_en/current/info/?tx_terfe_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf)

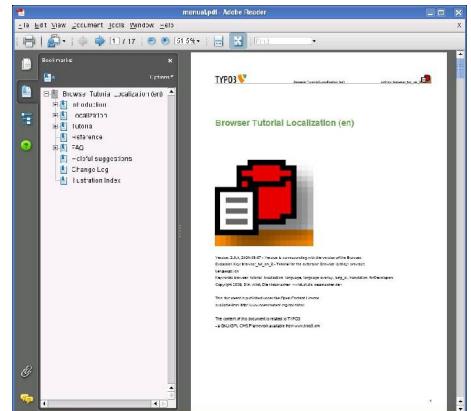


Illustration 1: Tutorial in PDF format

### Browser Manual and Browser Tutorial Basics

Manual: The Browser has its own manual (with the reference of course).

- HTML <http://typo3.org/documentation/document-library/extension-manuals/browser/current/>
- PDF: [http://typo3.org/extensions/repository/view/browser/current/info/?tx\\_terfe\\_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf](http://typo3.org/extensions/repository/view/browser/current/info/?tx_terfe_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf)

Tutorial Basics: A lot of step-by-step introductions.

- HTML: [http://typo3.org/documentation/document-library/extension-manuals/browser\\_tut\\_basics\\_en/current/](http://typo3.org/documentation/document-library/extension-manuals/browser_tut_basics_en/current/)
- PDF: [http://typo3.org/extensions/repository/view/browser\\_tut\\_basics\\_en/current/info/?tx\\_terfe\\_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf](http://typo3.org/extensions/repository/view/browser_tut_basics_en/current/info/?tx_terfe_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf)

# Tutorial: Labeling and Field Properties

## Intention

The tutorial describes the steps for labeling the field names and the names of the registers in the frontend.

The Browser has an auto labeling: it takes the values from the TYPO3 TCA. And the Browser detects the properties from fields, which are registered in the TCA. It can recognize titles, images, documents and time stamps.

Sometimes you want to label names by your own or want another process for an image than the Browser.

To change labels or properties should be really simple.

## TypeScript

You find the whole TypeScript code for this tutorial in the folder res/tutorial\_01.

## Step 1: The Browser Support for Labeling

### Intention

We want to understand the labeling support.

### TypeScript

You find the whole TypeScript code for this step in the folder res/tutorial\_01/step\_01.txt.

```
plugin.tx_browser_pi1 {
  views {
    list {
      1 {
        select = tt_news.title, tt_news_cat.title
      }
    }
  }
}
```

### Result

#### Browser

The screenshot shows a list of news items. Each item has a red circle around the 'Titel:' label. The first item is 'Ab heute die Aufmacher' and the second is 'Alles aus einer Hand'. Both have 'Titel:' circled.

Illustration 2: The title of a news and the title of a category have the same label in the TCA.

### Exercise

We activate the logging mode

- Labeling Support
- You need the extension devlog, otherwise you won't get any message in your log report.
- Please
- open the extension manager,
  - choose the Browser Tutorial Labeling (en) extension and
  - choose "Labeling Support" for logging.



The screenshot shows the TYPO3 Extension Manager interface. The 'Browser' extension is listed as installed and running. A red circle highlights the 'DRS - Development Reporting System' configuration section, which includes settings for 'log\_mode' and 'drs\_mode'.

Illustration 3: DRS - Development Reporting System with "Labeling Support"

Reload the page "tutorial" in the frontend.

## Log Report

Open the log report:

- Choose module "Tools" > "Developer Log" (you need the extension devlog).
- Search for the Word "Label:".
- You should find a line like this:

**[INFO/LOCALLANG] Label is: Title:**

- If it isn't possible to find this line, please clear the cache of the page "tutorial" and reload the page in the frontend again.
- Sometimes other extensions reports to devlog. Switch off that reporting.

The screenshot shows the TYPO3 Developer Log interface. It lists several log entries. A red circle highlights the first three entries, which all begin with the prefix '[INFO/...]' followed by a message related to labeling or TCA configuration.

Illustration 4: The developer log with "Labeling Support" messages.

- We are interested in the three lines with the prefix [INFO/...] and the one line with the prefix [HELP/...]:

```
[INFO/LOCALLANG] Label for tt_news.title: try the TCA.
[INFO/LOCALLANG] Init a language object.
[INFO/LOCALLANG] Label is: Title:
[HELP/LOCALLANG] If you want another label, please configure _LOCAL_LANG.default.tt_news_title
```

The meaning of the lines should be clear.

The HELP line is the important line. It helps to configure TypoScript without reading any manual.

This is DRS **[DRS]** - the Development Reporting System. It is a new idea of supporting the configuration of TypoScript with a minimum of costs!

See the next step.



## Step 2: Own Labels instead of TCA values

### Intention

We want to change the label for the title of tt\_news\_category from the TCA value "Title:" to "Category:".

### TypoScript

You find the whole TypoScript code for this step in res/tutorial\_01/step\_02.txt.

### Exercise

We activate the DRS logging mode

- Labeling Support (see step 1 of this Tutorial).
- Reload the page "tutorial" in your frontend.
- Choose in the backend module "Tools" > "Developer Log" (you need the extension devlog).
- Search for the Word "Title:".
- You should find a line like this:

```
[INFO/LOCALLANG] Label is: Title:
```

There should be lines like this above and below:

```
[INFO/LOCALLANG] Label for tt_news_cat.title: try the TCA.  
[INFO/LOCALLANG] Init a language object.  
[INFO/LOCALLANG] Label is: Title:  
[HELP/LOCALLANG] If you want another label, please configure _LOCAL_LANG.default.tt_news_cat_title
```

We are interested in the line with the HELP message.

We add at the end of our TypoScript a \_LOCAL\_LANG array and a value for the tt\_news\_category.title:

```
plugin.tx_browser_pi1 {  
    _LOCAL_LANG {  
        default {  
            tt_news_cat_title = Category;  
        }  
    }  
}
```

### Result

#### Browser

Title:	Category:
Ab heute die Netzmacher	Netzmacher
Alles aus einer Hand	Aufmacher
Automatischer Import von Inhalten	Aufmacher

Illustration 5: The own label for the category

The label for the category title is now "Category:" instead of "Title:".

## Step 3: Labeling "unknown" fields

### Intention

We want to label "unknown" fields. "Unknown" fields are fields, which aren't known in the TCA array.

This are the labels for the registers / views and i. e. for the TYPO3 field tstamp.



## TypoScript

You find the whole TypoScript code for this step in res/tutorial\_01/step\_03.txt.

We have an example with two list views:

```
plugin.tx_browser_pi1 {
    views {
        list {
            1 {
                select = tt_news.title, tt_news_cat.title
            }
            2 {
                select = tt_news.title, tt_news.datetime
            }
        }
    }
}
```

## Result

### Browser

All|0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
Displaying results 1 to 4 out of 4  
< Previous 1-4 Next > Last >>  
1[2]

Title:	Title:
Ab heute die Netzmacher	Aufmacher
Alles aus einer Hand	Aufmacher
Automatischer Import von Inhalten	Aufmacher

Illustration 6: List view with two views - [1] and [2].

## Exercise

We activate the logging mode

- Labeling Support (see step 1 of this Tutorial).
- Reload the page "tutorial" in the frontend.
- Choose in the backend module "Tools" the "Developer Log" (you need the extension devlog).

In this step we are interested only in lines with the yellow warning icon and the white help icon:

```
[WARN/LOCALLANG] list_mode_1 hasn't any value in _LOCAL_LANG
[HELP/LOCALLANG] Please configure _LOCAL_LANG.default.list_mode_1.
```

Developer Log  
Select Log: latest log run | Auto refresh  
Refresh | Expand all extra data

LOG ENTRIES:  
Log period: 10-05-09 16:05 (0 min)  
<< oldest < previous  
Date ? Severity ? Extension ? Message ?  
10-05-09 16:05:29 browser [INFO/DRS] DRS - Development Reporting System:  
Labeling Support  
10-05-09 16:05:29 browser [INFO/DRS] START  
10-05-09 16:05:29 browser [WARN/LOCALLANG] list\_mode\_1 hasn't any value in \_LOCAL\_LANG  
10-05-09 16:05:29 browser [HELP/LOCALLANG] Please configure \_LOCAL\_LANG.default.list\_mode\_1.  
10-05-09 16:05:29 browser [WARN/LOCALLANG] list\_mode\_2 hasn't any value in \_LOCAL\_LANG  
10-05-09 16:05:29 browser [INFO/LOCALLANG] Existing list views: [1] [2]

Illustration 7: The developer log

The logging reports the following:

- Every field is listed with a warning icon, which hasn't any value in the TCA or the \_LOCAL\_LANG array.
- We didn't named the registers. We got messages with a warning.



Please add the following TypoScript to the end of the current code:

```
plugin.tx_browser_pi1 {
    _LOCAL_LANG {
        default {
            list_mode_1 = Title with Category
            list_mode_2 = Title with Date
        }
    }
}
```

## Result

### Browser

The screenshot shows a list view with two columns: "Title with Category" and "Title with Date". The "Title with Category" column is highlighted with a red circle. The list contains several items, each with a title and a subtitle.

Title	Category
Ab heute die Netzmacher	Aufmacher
Alles aus einer Hand	Aufmacher
Automatischer Import von Inhalten	Aufmacher

Illustration 8: List view with the labeled names for every view.

## Step 4: Labeling conform with the guidelines of the WAI

### Intention

The Browser Tutorial Labeling (en) is conform with the guidelines of the Web Accessibility Initiative (WAI). The WAI is very important for handicapped persons and for search engines too. It is important for search engines, because they can't understand any image and they can't understand any context.

The Browser Tutorial Labeling (en) uses the HTML tag table for lists. One guideline of the WAI is, to use summaries and captions in tables.

We didn't maintain this properties and tags. The DRS "Labeling Support" will have warning messages.

### TypoScript

You find the whole TypoScript code for this step in res/tutorial\_01/step\_04.txt.

We have an example with two list views:

```
plugin.tx_browser_pi1 {
    views {
        list {
            1 {
                select = tt_news.title, tt_news_cat.title
            }
            2 {
                select = tt_news.title, tt_news.datetime
            }
        }
    }
    _LOCAL_LANG {
        default {
            list_mode_1 = Title with Category
            list_mode_2 = Title with Date
        }
    }
}
```

### Exercise

We activate the logging mode

- Labeling Support (see step 1 of this Tutorial).



- Reload your page "tutorial" in the frontend.
- Choose in the backend module "Tools" the "Developer Log" (you need the extension devlog).

In this step we are interested only in lines with the yellow warning icon and lines with the Word "WAI":

```
[WARN/LOCALLANG] list_mode_1_summary hasn't any value in _LOCAL_LANG
[INFO/LOCALLANG] If you use a table it won't have any summary.
[INFO/LOCALLANG] This wouldn't according to the guidelines of the Web Accessibility Initiative
(WAI)
[HELP/LOCALLANG] Please configure _LOCAL_LANG.default.list_mode_1_summary.
...
[WARN/LOCALLANG] list_mode_1_caption hasn't any value in _LOCAL_LANG
```

Illustration 9: The developer log with messages in context with the WAI

Please add the following TypoScript to the end of the current code:

```
plugin.tx_browser_pil {
    _LOCAL_LANG {
        default {
            list_mode_1_summary = This is a list with all news and their categories
            list_mode_1_caption = News with categories
        }
    }
}
```

## Result

### Browser

Illustration 10: The frontend with the table tag caption.

### Browser

Illustration 11: The backend with the table property summary and the table tag caption.

## Step 5: Field Properties from the TCA

### TypoScript

The field properties have a TypoScript array.

```
plugin.tx_browser_pil {
    autoconfig {
        autoDiscover {
```

```

        ...
    }
}

```

The elements of the array should be self-explanatory. See the illustration above.

The screenshot shows the TYPO3 Backend interface with the 'Template' module selected. In the center, the 'TypoScript Object Browser' window is open, displaying the structure of a plugin configuration. A red circle highlights the 'autoconfig' section under the 'tx\_automaketemplate\_pi1' plugin. This section contains various configuration options like 'relations', 'autoDiscover', and 'items'. The 'items' section is expanded, showing fields such as 'title', 'image', 'localTableOnly', 'oneValueOnly', 'setUpUploadFolder', 'TCAlabel', and 'TCAconfig'.

Illustration 12: The TypoScript array for auto configuring fields.

## DRS - Development Reporting System

Switch on the DRS - Development Reporting System. Take one of these logging modes:

- Auto Discover development
- All

You should get helpful messages, if you want to change the configuration for field properties like this:

```
[INFO/SQL] TCA 'tt_news.category.config.foreign_table: 'tt_news_cat'
```

See the illustration below.

The screenshot shows the TYPO3 Backend interface with the 'Developer Log' module selected. It displays a list of log entries. One entry, dated 11-05-09 13:29:26, is highlighted with a red circle. This entry shows a change in the 'foreign\_table' configuration for the 'tt\_news.category' field, which was set to 'tt\_news\_cat'. The log message is: '[INFO/SQL] TCA 'tt\_news.category.config.foreign\_table: 'tt\_news\_cat''. Below this entry, there is a note: '[INFO/SQL] Result (MM): tt\_news - tt\_news\_cat\_mm - H...'. Other log entries show various other configurations being applied or checked.

Illustration 13: The messages for auto configuring fields in the DRS.



# Reference

See the section Reference / Localization in the Browsers manual in

- HTML <http://typo3.org/documentation/document-library/extension-manuals/browser/current/>
- PDF: [http://typo3.org/extensions/repository/view/browser/current/info/?tx\\_terfe\\_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf](http://typo3.org/extensions/repository/view/browser/current/info/?tx_terfe_pi1%5BdownloadFile%5D=doc%252Fmanual.pdf)

## Helpful suggestions

If you have helpful suggestions, feel free to contact me: [wildt.at.die-netzmacher.de](mailto:wildt.at.die-netzmacher.de).



## To-Do List

Nothing to do.

# Change Log

3.0.1

- Publishing
- Initial release



# Illustration Index

Illustration 1: Tutorial in PDF format.....	3
Illustration 2: The title of a news and the title of a category have the same label in the TCA.....	4
Illustration 3: DRS - Development Reporting System with "Labeling Support".....	5
Illustration 4: The developer log with "Labeling Support" messages.....	5
Illustration 5: The own label for the category.....	6
Illustration 6: List view with two views - [1] and [2].....	7
Illustration 7: The developer log.....	7
Illustration 8: List view with the labeled names for every view.....	8
Illustration 9: The developer log with messages in context with the WAI.....	9
Illustration 10: The frontend with the table tag caption.	9
.....	9
Illustration 11: The backend with the table property summary and the table tag caption.....	9
Illustration 12: The TypoScript array for auto configuring fields.....	10
Illustration 13: The messages for auto configuring fields in the DRS.....	10