

# Custom fields in Joomla 3.7 for the end user

**Allon Moritz**

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# About Me

Allon Moritz

@digitpeak / @laoneo

Founder Digital Peak GmbH

Doing Joomla extensions since 2007



# Agenda

- Information
- Concept
- Article Manager integration
- Users and contacts
- Layouts
- Avatar field example
- Hidden features
- Final notes
- Questions



# Information

- DPFields is the base of com\_fields  
<https://joomla.digital-peak.com/products/dpfields>
- Com\_fields development repository (CLOSED)  
<https://github.com/joomla-projects/custom-fields>
- Final version can be found in [PR 11833](#) in the [3.7 branch](#)



# Concept

It's not a CCK



# Concept

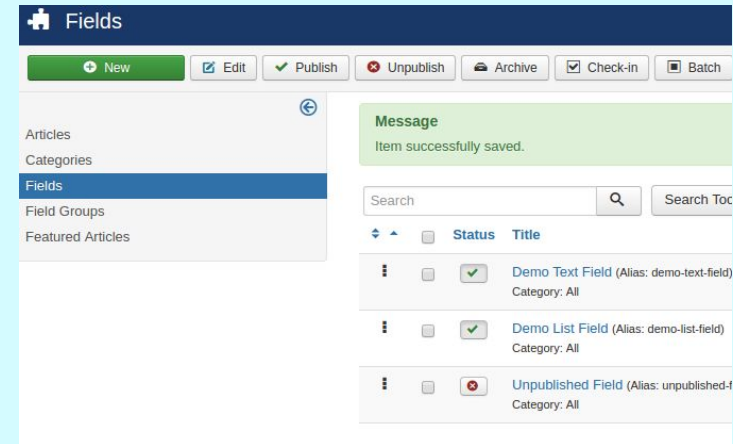
It's not a standalone component



# Concept

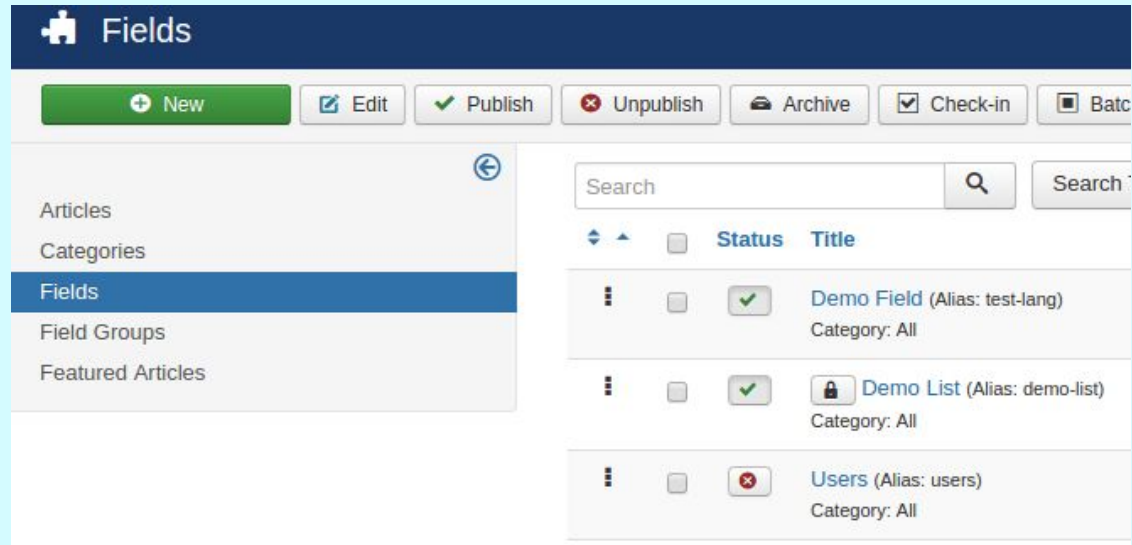
It

- is a component and a system plugin
- integrates in the background trough Joomla events
- integrates into the existing form
- uses existing form fields like media, text or sql
- is MVC coded
- works like Categories
- uses JLayouts to generate HTML output



# Article Manager Integration

## New “Fields” and “Field Groups” items on sidebar



The screenshot shows the Joomla! Fields management interface. The top navigation bar is dark blue with a white plus icon and the text "Fields". Below this is a toolbar with buttons for "New" (green), "Edit", "Publish", "Unpublish", "Archive", "Check-in", and "Batch". A sidebar on the left contains a list of items: "Articles", "Categories", "Fields" (highlighted in blue), "Field Groups", and "Featured Articles". The main content area features a search bar and a table of fields. The table has columns for "Status" and "Title".

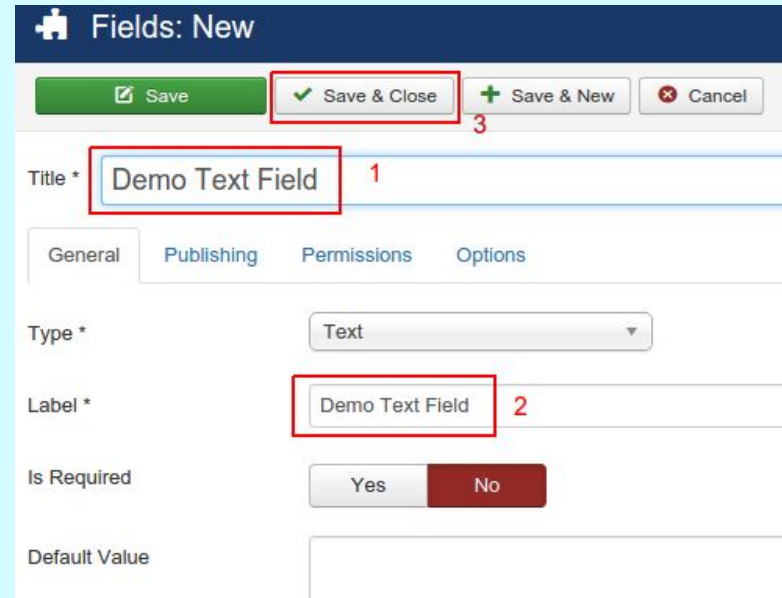
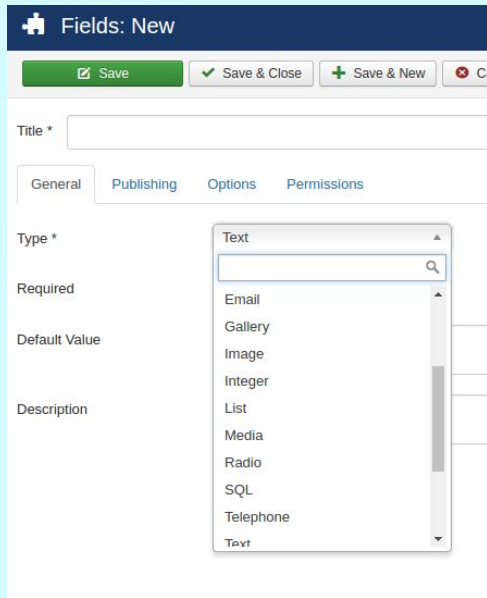
	Status	Title
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Demo Field (Alias: test-lang) Category: All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="lock"/> Demo List (Alias: demo-list) Category: All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Users (Alias: users) Category: All





# Article Manager Integration

## Creating a new field



# Article Manager Integration

**Edit an article, fill the fields**

The screenshot shows the Joomla! Article Manager interface for creating a new article. The title is 'Demo Article'. The 'Fields' tab is selected and highlighted with a red box and the number '1'. Below the tabs, a 'Demo Text Field' is shown with the value 'Demo field value' entered, also highlighted with a red box and the number '2'. At the top, the 'Save & Close' button is highlighted with a red box and the number '3'. Other buttons include 'Save', 'Save & New', and 'Cancel'.



# Article Manager Integration

## Front end view



The screenshot shows the Joomla! Custom Fields extension interface. At the top, the title "Joomla Custom Fields" is displayed in a large, bold, dark blue font. Below this, the word "Home" is shown in a smaller, bold, black font. A horizontal line separates the header from the main content area, which is titled "Demo Article" in a bold, black font. Underneath, a "Details" section provides metadata: "Written by Super User", "Category: [Uncategorised](#)", "Published: 10 March 2016", and "Hits: 1". A red rectangular box highlights a custom field labeled "Demo Text Field: Demo field value". Below the field is a "Demo description of the article." section. At the bottom, a breadcrumb trail reads "You are here: [Home](#) > [Uncategorised](#) > Demo Article".



# Demo



# Users and contacts

- Fields can be added for users, editable on the front
- Fields can be added for contacts shown on the front
- New option to show the user fields in the contact detail page
- Contact form can show custom fields which will be sent with the E-Mail



# Layouts

Layouts are used to prepare the value of the field.

**Details**  
Written by Super User  
Category: **Uncategorised**  
📅 Published: 13 September 2016  
👁 Hits: 1

Demo Text Field: Demo Text Value  
Demo List Field: Demo List Value 2

Layouts are used to render the list of fields and the single field.

**Details**  
Written by Super User  
Category: **Uncategorised**  
📅 Published: 13 September 2016  
👁 Hits: 1

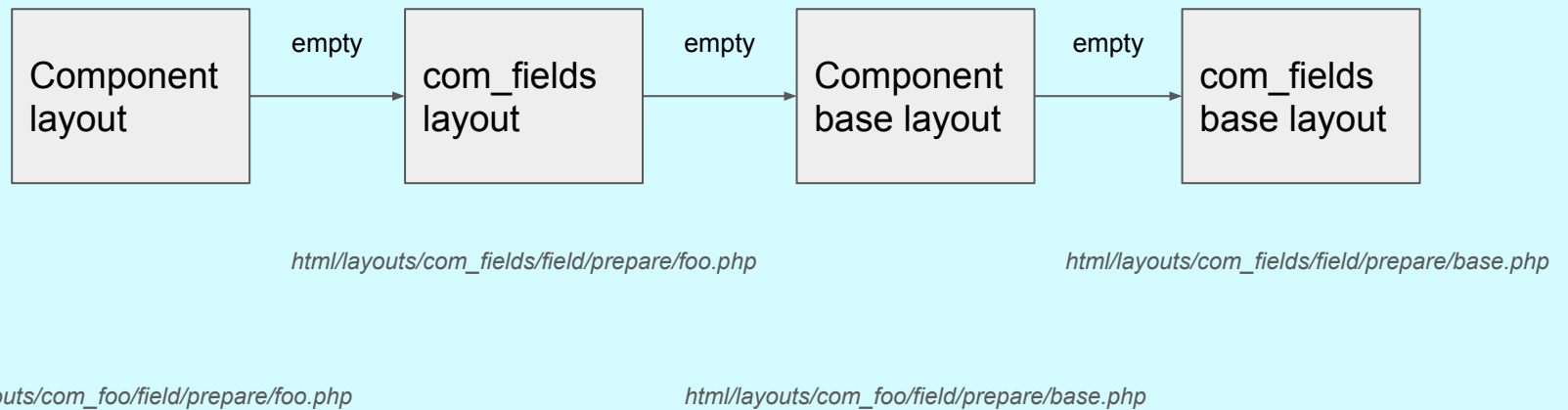
Demo Text Field: Demo Text Value  
Demo List Field: Demo List Value 2



# Layouts

## Rendering: Prepare the value

The value of a field is prepared through the following steps

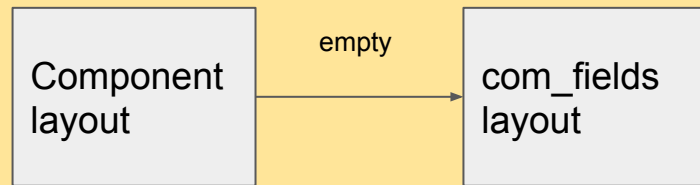


# Layouts

## Rendering: Prepare the output

The output of `com_fields` for the display events is prepared through a couple of steps

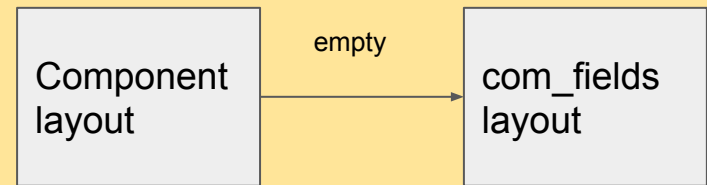
### Renders all fields



`html/layouts/com_foo/fields/render.php` `html/layouts/com_fields/fields/render.php`

For every field

### Renders a single field



`html/layouts/com_foo/field/render.php` `html/layouts/com_fields/field/render.php`





# Avatar Field

- Change permission for the user group to allow upload
- Create a media field for users, set “Home Directory” to **Yes**
- Create a “User -> Profile” menu item
- In combination with contacts you can build a basic user list site

## Custom Fields

Profile


Name	Optimus Prime
Username	admin
Registered Date	Wednesday, 31 August 2016
Last Visited Date	Tuesday, 06 September 2016

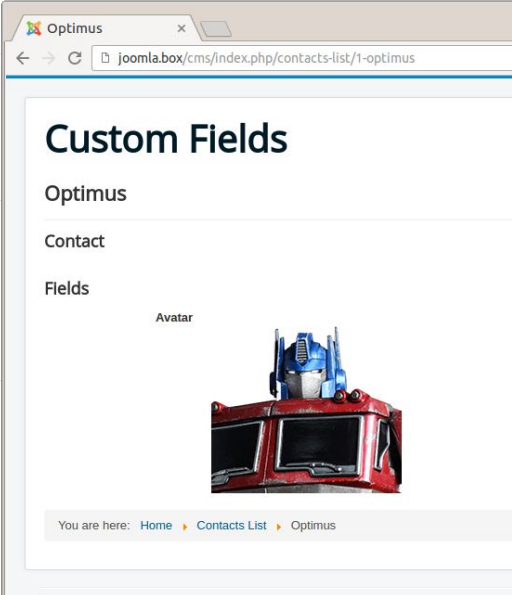
Basic Settings

Editor	No Information Entered
Time Zone	No Information Entered
Frontend Language	No Information Entered
Backend Template Style	No Information Entered
Backend Language	No Information Entered
Help Site	No Information Entered

Fields

Avatar





The screenshot shows a Joomla! contact list for a user named 'Optimus'. The contact's profile includes a custom field for an 'Avatar', which is a red and blue Optimus Prime robot head. The breadcrumb trail at the bottom reads: 'You are here: Home > Contacts List > Optimus'.



# Hidden features

- Every field has some common options like hint, where to display, etc.
- Every field has an access level, who can see it
- Permissions settings are per field, new edit value field permission
- Fields are only shown of the language from the item it belongs to



## Final notes

# THANKS TO ALL TESTERS!!!



Photos are taken from <https://unsplash.com>



# Questions?

Slides on <https://joomla-digital-peak.com/jd16de>



Thank you and enjoy the day :-)

