

User Group GeoMapFish

June 19, 2017

camptocamp

INNOVATIVE SOLUTIONS
BY OPEN SOURCE EXPERTS

Agenda

- GeoMapFish 2.1.7
- GeoMapFish 2.2 RC
- GeoMapFish 2.3 Proposal
- 2.x Demos
 - Cartoriviera
 - SITN Plugins
 - Basel-Stadt IFRAME
 - EPFL Geoportal
 - Agrola Routing
- LIDAR and Ngeo (SITN)
- GeOcom Feedbacks



GeoMapFish 2.1.7

- Last Tuesday
- Several bugfixes
 - 24 issues solved
 - 11 c2cgeoportal, 13 ngeo



GeoMapFish 2.2 RC

- Last Friday
- All features are in
 - Filters
 - Time in query
 - Message if no full-text search results
 - StreetView integration
 - Clear all in layer tree
 - User defined scale for printing
 - Android Web browser compatibility
 - Pre-defined transparency for WMS/WMTS
- Please test!
- <https://geomapfish-demo.camptocamp.net/2.2/>



GeoMapFish 2.3 Proposal

Admin Interface

- Context and requirements
- Proposed solution
- Estimate
- Alternative solutions



GeoMapFish 2.3 Proposal

Admin Interface – Ergonomic Improvements

- Centered on layer tree
 - because that's what you want to configure
- Metadatas and dimensions included in layer form as a subform
 - much easier to understand
- Improved search
 - navigation between search form and search results
- Grouping fields of same domain in forms
 - clearer view
- Draggable sort widget for group children
 - easier to change order visually



GeoMapFish 2.3 Proposal

Admin Interface – New Features

- Metadata types (today strings only)
 - avoids errors and simplifies edit
- Elements duplicate
 - increases efficiency
- WMS \longleftrightarrow WMTS switch
 - change type and keep everything else
- Logout button
 - logout to increase security



GeoMapFish 2.3 Proposal

Admin Interface – Technology

- GMF WebGIS based on Python 3
 - Admin interface still on Python 2
- FormAlchemy library (Python 2) isn't actively developed anymore



GeoMapFish 2.3 Proposal

Admin Interface – Proposed Solution

■ Goals

- Fulfill Luxembourg's requirements (!= minimalist)
- Keep existing principles (Web)
- Alignment to GMF 2.x technology

■ Choice of c2cgeoform

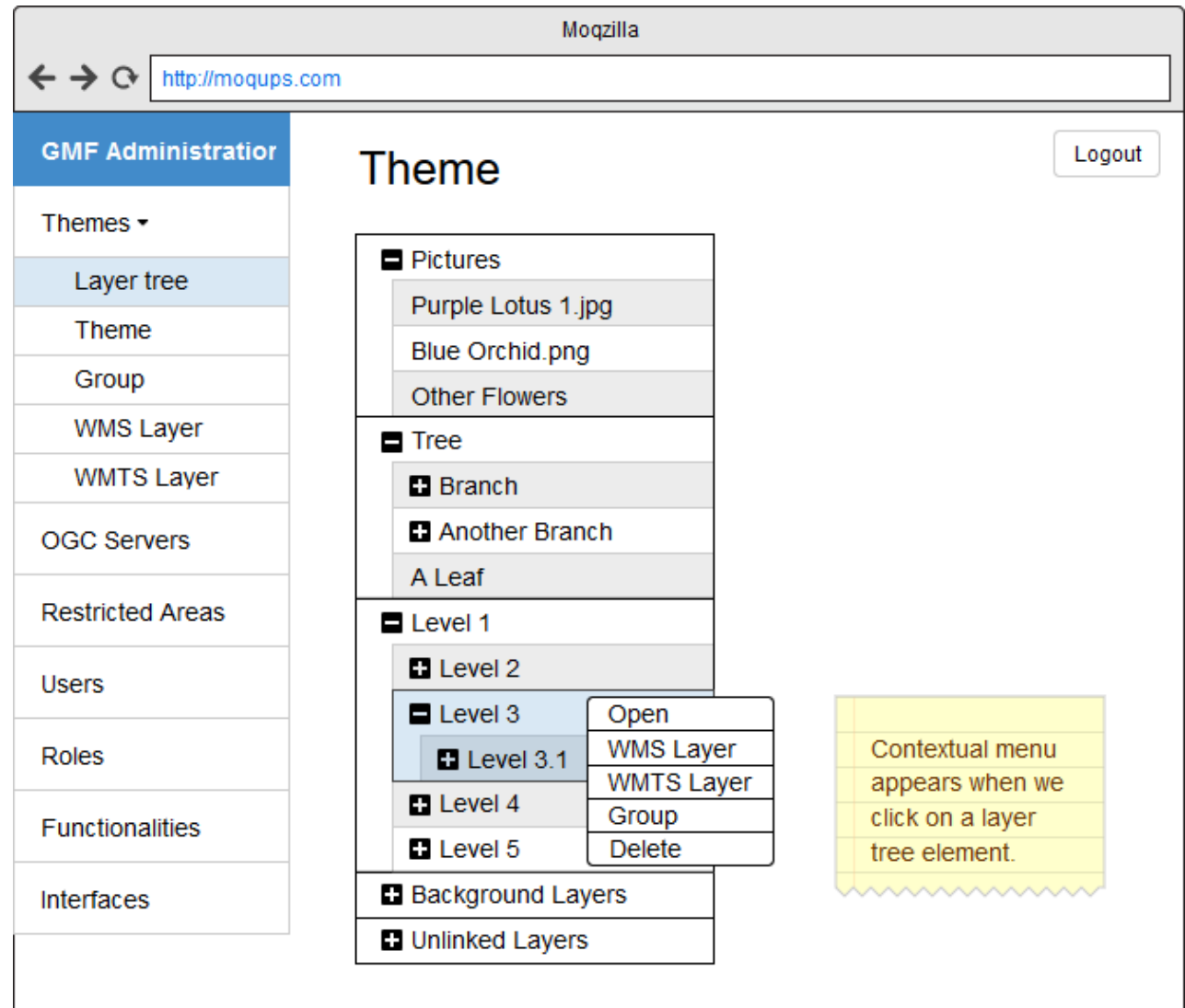
- A result of a thorough analysis
 - Reuses SQLAlchemy GeoMapFish database schema
 - Integrates well in GeoMapFish technologies (Pyramid, authentication)
 - Existing geographic component
 - Good team know-how
- Rewriting from scratch would be much more complex



GeoMapFish 2.3 Proposal

Admin Interface – Proposed Solution

- Landing screen
- Read only layer tree
- On click contextual menu (tablets)



GeoMapFish 2.3 Proposal

Admin Interface – Proposed Solution

- Filtered list
- Create button

The screenshot displays the 'GMF Administration' interface in a web browser. The left sidebar contains a menu with the following items: Themes (selected), Layer tree, Theme, Group, WMS Layer, WMTS Layer, OGC Servers, Restricted Areas, Users, Roles, Functionalities, and Interfaces. The main content area is titled 'Themes index' and features a 'Filter by' dropdown menu with a 'Value' input field and a 'New' button. Below the filter is a table with 8 rows of test themes.

▼ ID	▼ Name	▼ Public	▼ Roles
1	Theme de test	True	
2	Theme de test	True	
3	Theme de test	True	
4	Theme de test	True	
5	Theme de test	True	
6	Theme de test	True	
7	Theme de test	True	
8	Theme de test	True	



GeoMapFish 2.3 Proposal

Admin Interface – Proposed Solution

■ Grouped attributes

The screenshot shows a web browser window with the address bar displaying 'http://moqups.com'. The page title is 'GMF Administrator'. On the left is a sidebar menu with the following items: Themes (selected), Layer tree, Theme, Group, WMS Layer, WMTS Layer, OGC Servers, Restricted Areas, Users, Roles, and Functionalities. The main content area is titled 'Theme' and contains the following fields: 'Name' (text input), 'Description' (text area), 'Icon' (text input), and 'Ordre' (text input). Below these fields is a checkbox for 'Public' which is checked. At the bottom, there is a 'Roles' section with a list of roles: 'admin' and 'user', both of which are checked.

The proposed solution interface is divided into three main sections: 'Functionalities', 'Interfaces', and 'Children'. The 'Functionalities' section contains two expandable groups: 'default_base_map' with checkboxes for 'map' and 'blank', and 'print_template' with checkboxes for 'A4 portrait' and 'A4 landscape'. The 'Interfaces' section contains checkboxes for 'Mobile' and 'Desktop'. The 'Children' section features a druggable list of items: 'Apps', 'Games', 'Books', and 'Newspapers'. Below this list is a search bar and an 'Add' button. A yellow callout box points to the 'Functionalities' section, stating: 'Click on the pen will allow to save current changes and open a new page with the edition of the selected item'. Another yellow callout box points to the 'Children' list, stating: 'Draggable list of children'. At the bottom of the interface are three buttons: 'Save', 'Cancel', and 'Delete'.



GeoMapFish 2.3 Proposal

Admin Interface – Proposed Solution

- Metadata edited with layer
- Sub forms

The screenshot displays a web-based admin interface for GeoMapFish 2.3. It features several sub-forms for editing layer metadata and dimensions.

- Metadata Section:**
 - Contains checkboxes for "A4 portrait" and "A4 landscape", both of which are checked.
 - Contains checkboxes for "Mobile" and "Desktop", both of which are checked.
 - Has a "+ Add metadata" button.
 - Includes two rows of metadata fields. Each row has a dropdown menu (currently showing "Legend" and "IsExpended" respectively) and a text input field (both containing "true"). Each row also has a "Description" text area and a red trash icon for deletion.
- Dimensions Section:**
 - Has a "+ Add dimension" button.
 - Includes a "Date" dropdown menu (showing "2017") and a "Description" text area with a red trash icon.
- Action Buttons:**
 - "Convert in WMTS" and "Duplicate" buttons are located below the dimensions section.
 - "Save", "Cancel", and a red "Delete" button (with a trash icon) are located at the bottom of the interface.



GeoMapFish 2.3 Proposal

Admin Interface – Proposed Solution

The screenshot displays the GeoMapFish 2.3 Admin Interface in a Mozilla browser window. The address bar shows <http://moqups.com>. The left sidebar, titled "GMF Administrator", contains a menu with the following items: Themes (with a dropdown arrow), Layer tree, Theme, Group, WMS Layer, WMTS Layer, OGC Servers, Restricted Areas, Users (highlighted in blue), Roles, Functionalities, and Interfaces. The main content area is titled "Users" and includes a "Logout" button in the top right corner. The form contains the following fields: a "Username" text input, an "Email" text input, a "Password" section with "Password" and "Confirm password" text inputs, and a "Role" dropdown menu. At the bottom of the form are three buttons: "Save", "Cancel", and "Delete" (which is red and features a trash icon). A "Duplicate" button is also present above the "Delete" button.



GeoMapFish 2.3 Proposal

Admin Interface – Alternative Solutions

- Minimum viable product
 - No layer tree widget, no object copy, no WMS \longleftrightarrow WMTS switch, no type validation for metadata, no children sort widget
 - Includes metadata editing in layer form and improved search
 - Same technologies as in proposal
- QGIS forms
 - Use of QGIS (version 3) to configure GeoMapFish
 - Camptocamp is interested (R&D)
 - Technical analysis required



GeoMapFish 2.3 Proposal

WMS/KML Browser Integration + Permalink

KML/WMS

Local

No file

Browse

Load local file

Online

Choose or enter online resource URL

Connect

Clear all



GeoMapFish 2.3 Proposal

Map Rotation (1/2)

- User can always turn map, on desktop and mobile
 - Button appears only when not north-oriented
- Tracking: two modes with an Autorotate parameter
 - If false, like now
 - If true
 - point always displayed in the center
 - rotates with GPS
 - back to north when geolocation is deactivated



GeoMapFish 2.3 Proposal

Map Rotation (2/2)

- New symbol for geolocation
- Position depends on devices



GeoMapFish 2.3 Proposal

Moving Window

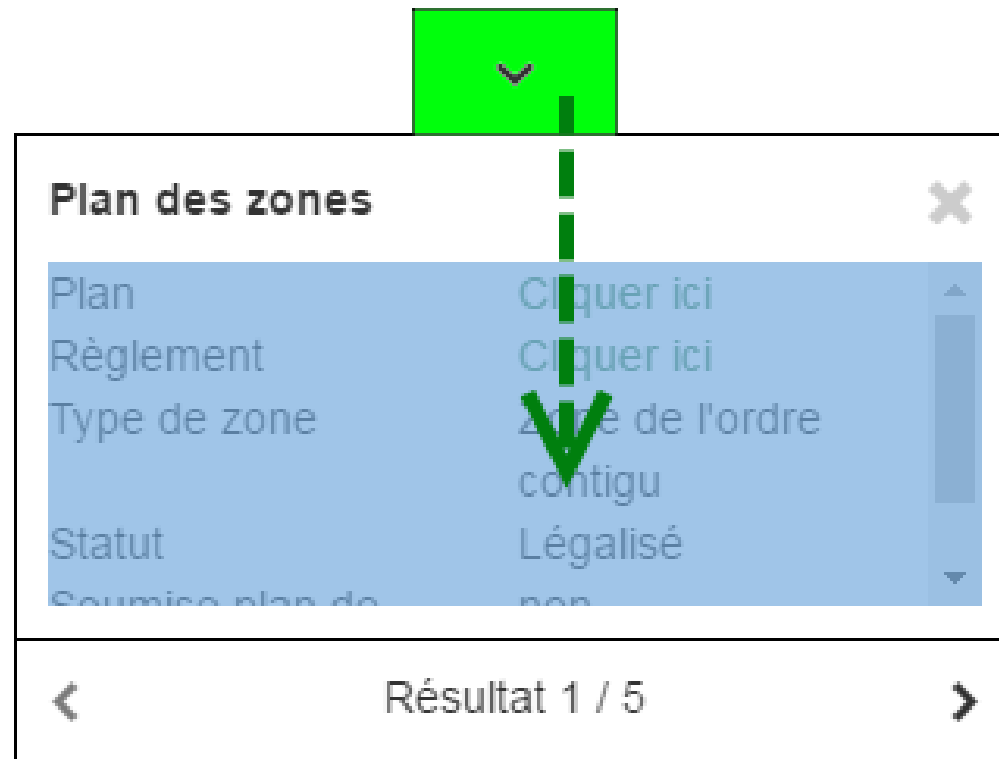
- Use of jQuery UI to make modal window movable
- Same technology may be used for other windows, like results window (yet to be discussed)



GeoMapFish 2.3 Proposal

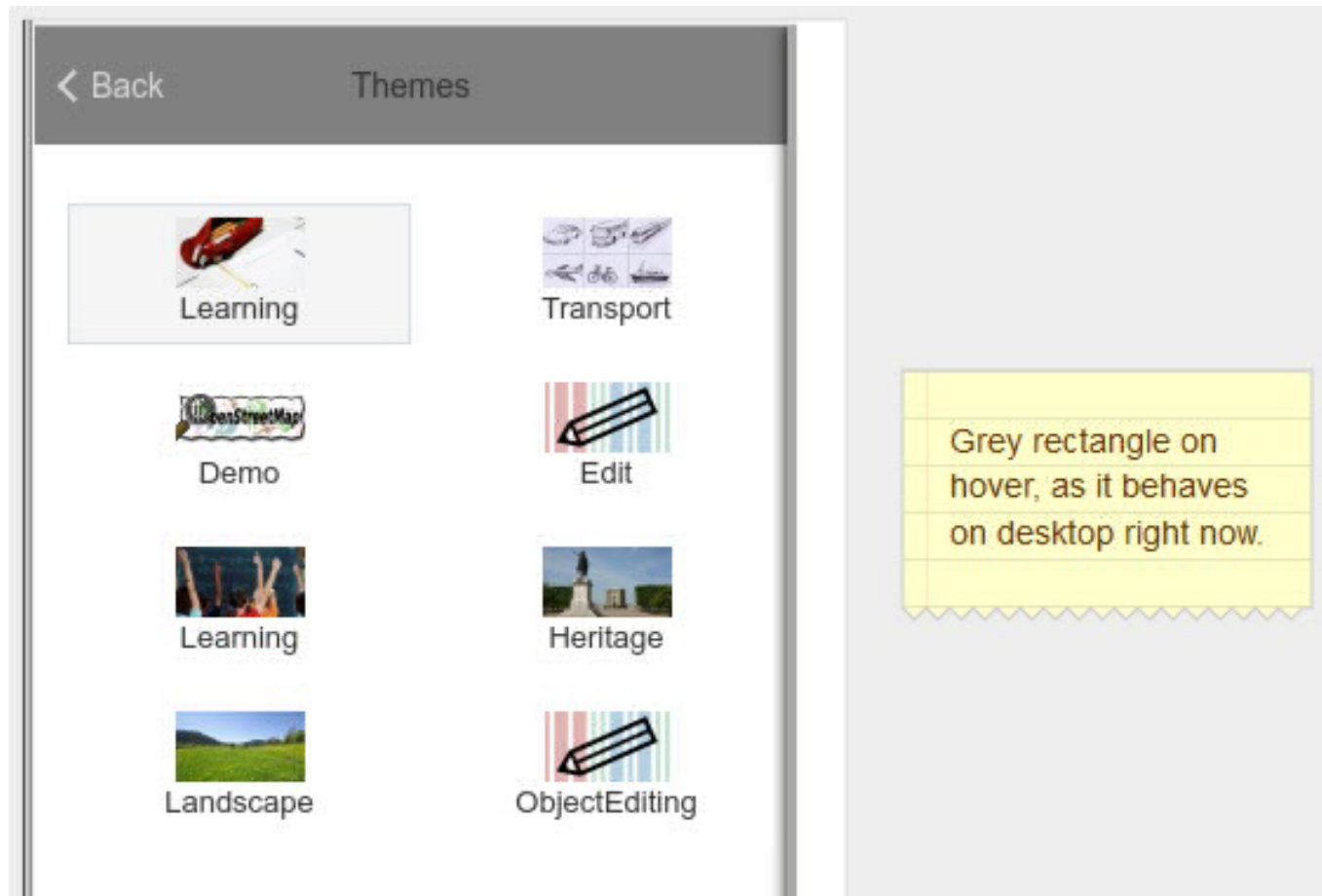
Windows Results Optimization

- Several improvements already implemented
- Swipe close



GeoMapFish 2.3 Proposal

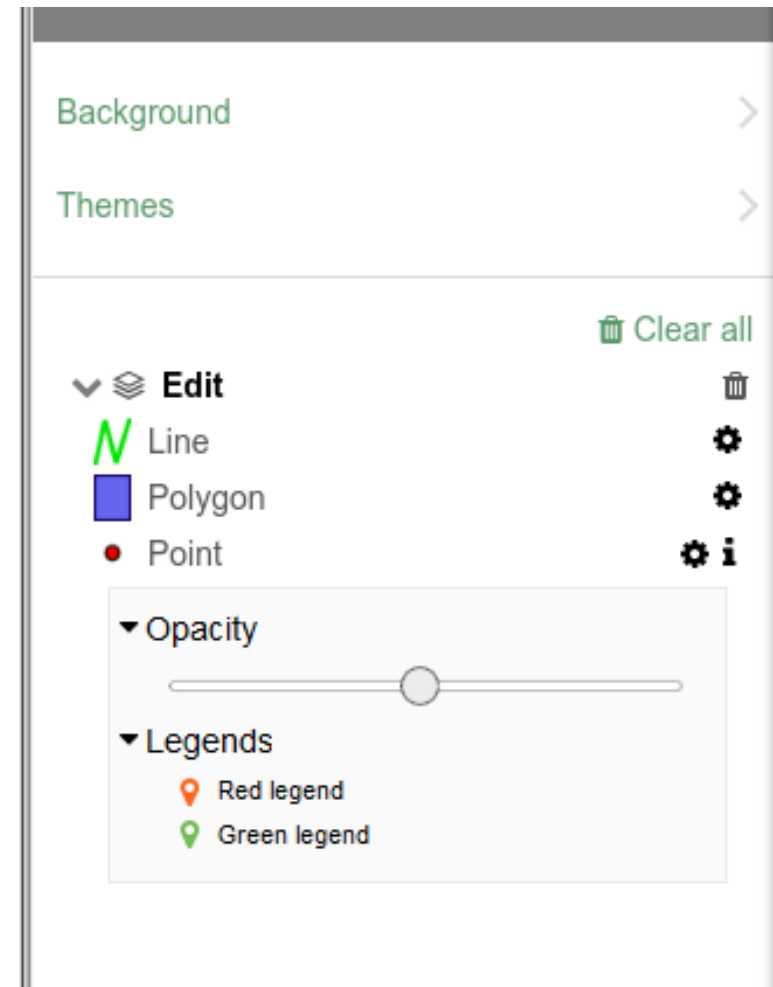
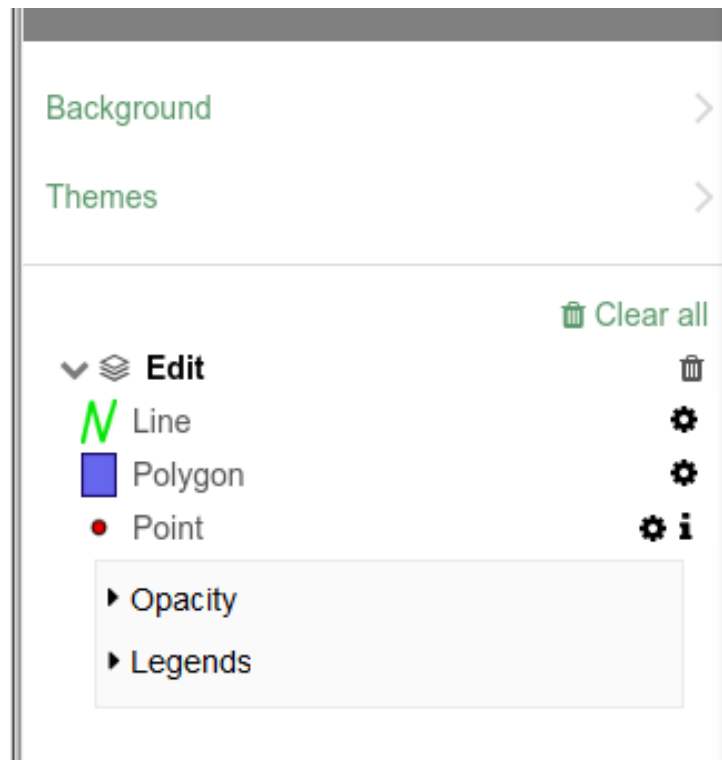
Layertree flush/no flush for mobile



GeoMapFish 2.3 Proposal

Opacity for layers in mobile version

- Symbols closer to desktop
- Ready for the future



Demos

- Cartoriviera
- SITN Plugins
- Basel-Stadt IFRAME
- EPFL Geoportal
 - <https://plan.epfl.ch/desktoppro/>
- Agrola Routing



- June 6-9 in Chambéry
- Feedbacks by Emmanuel Belo



to camp 

camp **to** camp

INNOVATIVE SOLUTIONS
BY OPEN SOURCE EXPERTS