

Visual Tag Chooser / JOSM Preset Builder

HOT Tech Challenge May-July 2013

The HOT Visual Tag Chooser / JOSM Preset builder application was developed in response to the first HOT Tech Challenge posted at http://hot.openstreetmap.org/hot_tech_challenge_visual_tag_chooser. It was developed by Tim Waters tim@geothings.net a HOT Member and developer from May to July 2013.

The code for the application can be found at <https://github.com/timwaters/visualtags>

A demo deployment can be found at <https://visualtags.herokuapp.com/>

This document outlines the original proposal, and gives a quick user guide.

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1. Proposal

Description of problem

The HOT Export tool requires a list of tags to be specified when downloading an extract. This list is generated by a user uploading a JOSM Preset XML file. The preset file is a structured format with groups of tags, translations of tags, defaults etc. Creating and editing a preset is essential for the HOT Exports application. That process is not easy at all for users and involves text editing a raw XML file.

Solution

An application that will create and edit a JOSM preset visually using a more user friendly interface.

Proposal

The proposal is to focus on the needs of the HOT export tool initially, then expand to JOSM Presets in general, and finally to incorporate fine editing tools for the presets. At each phase the generated presets will work with the HOT Export application.

Phases

First phase

- Preset upload

- Preset show - as list of tags

- List of tag editing - add, create, update, remove tags

- Output is a simplified XML preset which will work with the HOT Exports application.

Second Phase

- Preset list

- Preset clone from existing

- Preset displayed as it would appear in JOSM

 - presets display icons

- After preset saved, presets could be uploaded to HOT Exports.

Third Phase

- Internationalisation of application

- Preset fully editable using drag and drop user interface.

- Items can be rearranged, edited with nicer widgets.

 - Widgets include text boxes, select boxes, checkboxes, etc

- Icons can be chosen for an item (from default JOSM icon set)

- Advanced attributes added and editable using popup form

2. User Guide

1) Overview

This application allows users to find, add and edit collections of OSM tags in the form of JOSM Presets. It displays a JOSM preset file as it would appear. A user can add items (categories) to the collection and add tags (keys) to each item.

2) Adding Preset

1) Uploading XML Preset

Choose a name for the new preset collection and find a existing XML JOSM preset and upload.



The screenshot shows the 'Hot Visual Tag Chooser' application interface. The title 'Hot Visual Tag Chooser' is in blue. Below it, the section 'Upload and parse a JOSM Preset' is in bold black. There are two input fields: 'Name:' and 'File:'. The 'File:' field has a 'Browse...' button next to it. Below these fields is an 'Upload' button. At the bottom left, there is a small text label 'Hot Visual Tag Chooser - v1.2.0'.

2) Creating New Preset

You can create a new preset from scratch by choosing a name, and filling out some additional information.



The screenshot shows the 'Hot Visual Tag Chooser' application interface. The title 'Hot Visual Tag Chooser' is in purple. Below it, the section 'Create a new preset' is in bold black. There is a form titled 'Edit Preset' with five input fields: 'Name:', 'Author:', 'Description:', 'Short Description:', and 'Version:'. Below these fields is a 'Save All Changes' button. At the bottom left, there is a small text label 'Hot Visual Tag Chooser - v1.2.0'.

3) Cloning Preset

Alternatively you can clone an existing preset to make a copy.

Hot Visual Tag Chooser

Cloning Preset 2

Name: Allergy Presets

Original Preset filename: Presets_Allergy-preset.xml ([Validate this](#))

Author: Karsten Hinz

Description: Preset to easily add allergy and organic tags on bakeries, restaurants, ...

Short Desc: Allergy

Version: 0.3_2012-03-25

Clone Preset

Hot Visual Tag Chooser - v1.2.0

4) Validating Preset

Uploaded presets can be optionally validated - to make sure they will load correctly within the JOSM application. This step is optional, and is provided as a utility

Hot Visual Tag Chooser

Validating Uploaded Preset 2

Name: Allergy Presets. File: Presets_Allergy-preset.xml

This validates the uploaded preset filename Presets_Allergy-preset.xml with the [JOSM presets schema](#). This is stricter than the format required for the HOT Export tool, and so even if a preset fails validation it could still be used

Validation Results

The preset is valid, and can be used in JOSM as a preset file.

Hot Visual Tag Chooser - v1.2.0

- 5) Below gives an example of an uploaded XML preset that had errors in validation. This file is, however, able to be used in this application.

Hot Visual Tag Chooser

Validating Uploaded Preset 7

Name: invalid. File: invalid_josm.xml

This validates the uploaded preset filename invalid_josm.xml with the [JOSM presets schema](#). This is stricter than the format required for the HOT Export tool, and so even if a preset fails validation it could still be used

Validation Results

There were errors with the validation. The error from the validator is

Error: Element '{http://josm.openstreetmap.de/tagging-preset-1.0}groups': This element is not expected. Expected is one of ({http://josm.openstreetmap.de/tagging-preset-1.0}group, {http://josm.openstreetmap.de/tagging-preset-1.0}item, {http://josm.openstreetmap.de/tagging-preset-1.0}separator). at :3.

Hot Visual Tag Chooser - v1.2.0

3) Viewing Preset / Items

Viewing a preset, shows the metadata and a tree structure. On the left, is the Items or categories. Clicking on an item shows the form, the tags associated with the category. The user can edit the preset, delete the preset or clone the preset from here. Additionally the user can download the resulting JOSM preset file.

Hot Visual Tag Chooser

Viewing Preset 2

Name: Allergy Presets


Original Preset filename: Presets_Allergy-preset.xml ([Validate this](#))
Author: Karsten Hinz
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Short Desc: Allergy
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[Edit Preset](#) [Delete Preset](#)
[Clone Preset](#)


JOSM Preset


▼

Allergy

 Baker

 Restaurant

 Fast Food

 Cafe

Baker (node,closed way)

label	Edit Baker	
key	shop	bakery
text	name	<input type="text"/>
combo	opening_hours	<input type="text" value="24/7"/>
optional	▼	
text	operator	<input type="text"/>
combo	organic	<input type="text" value="only"/>
combo	pastry_shop	<input type="text" value="only"/>
check	<input checked="" type="checkbox"/>	gluten_free
check	<input type="checkbox"/>	lactose_free

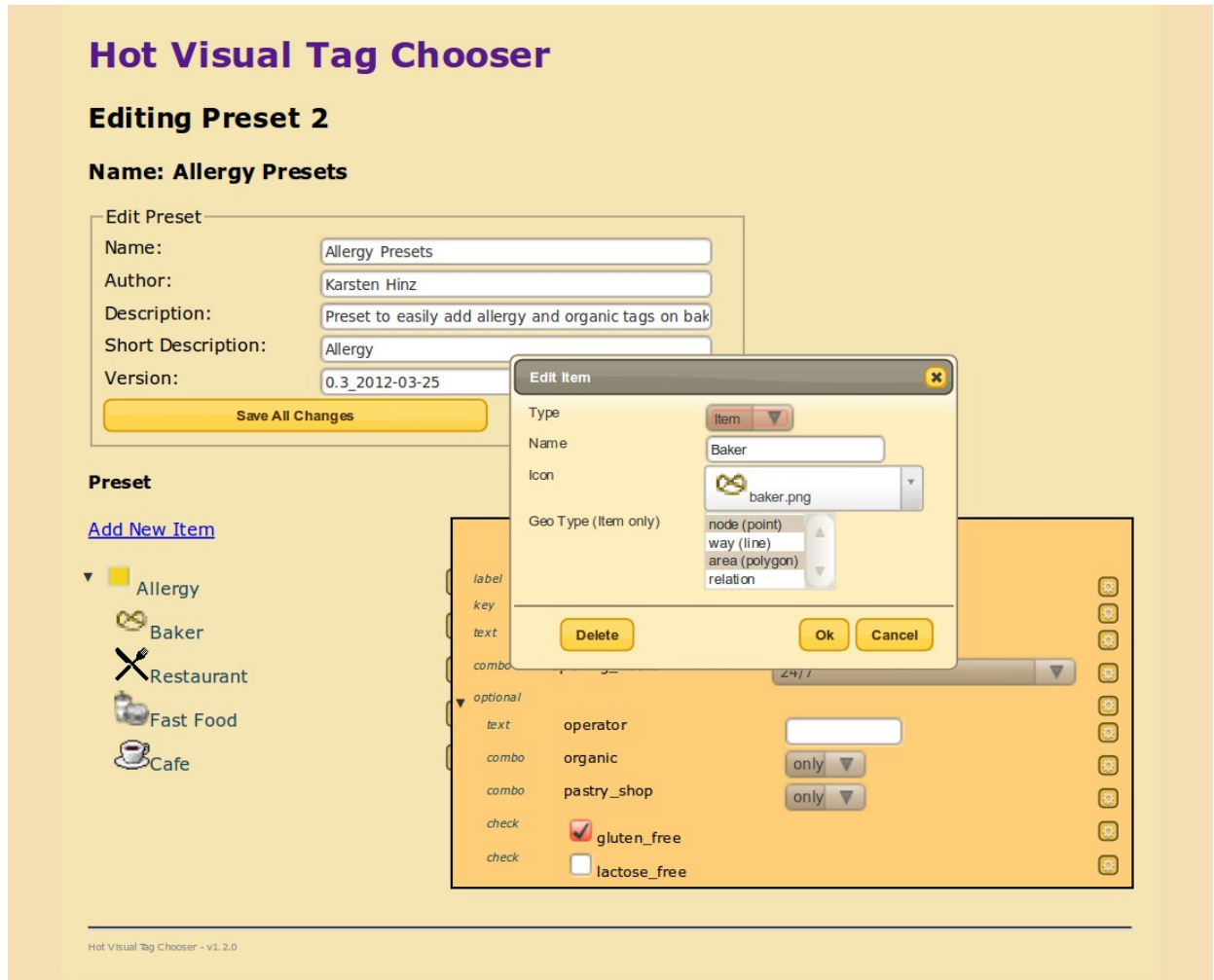
[Download as XML preset](#) suitable for use in the [HOT Exports Application](#).

Hot Visual Tag Chooser - v1.2.0

4) Edit Items

On the edit page, clicking on the gear icon for an Item or Category opens a dialog box where you can edit the attributes, icon and types of OSM geo types for that Item.

Clicking on the "Add New Item" link enables the user to add new items to the list.



5) Editing Tags

Clicking on the gear icon for a tag on the right hand side list opens a box showing the form for that tag. The user can add or delete the tag here.

The screenshot displays the 'Hot Visual Tag Chooser' interface. At the top, the title 'Hot Visual Tag Chooser' is in purple. Below it, the section 'Editing Preset 2' is shown. The 'Name: Allergy Presets' is displayed. The 'Edit Preset' form includes fields for Name (Allergy Presets), Author (Karsten Hinz), Description (Preset t...), Short Description (Allergy), and Version (0.3_2012). A yellow 'Save All Changes' button is at the bottom of this form. Below the preset form, a 'Preset' section shows a tree view with 'Allergy' selected, and sub-items: 'Baker', 'Restaurant', 'Fast Food', and 'Cafe'. A modal window titled 'Edit Tag' is open, showing the 'Type' as 'Combo' with a dropdown arrow. The 'Key' is 'organic' and the 'Text label' is 'whether organic products exis'. The modal also has 'Add option ->', 'Remove option', and 'Delete' buttons, along with 'Ok' and 'Cancel' buttons. In the background, a list of tags is visible, including 'opening_hours' (24/7), 'operator', 'organic' (selected), 'pastry_shop', 'gluten_free' (checked), and 'lactose_free'.

Clicking on the "Add Tag Element" link open the form to add a new element.

6) Saving Changes

1) To Tags.

Once a tag has been added or edited to an Item the "Save changes to Item" link must be pressed.

2) To Items and Preset as whole

The yellow button "Save All Changes" should be pressed to save all the changes in both trees.

7) Just Want a List of Tags?

if the user just wants to make a list of tags - to make a preset for the HOT Exports Application the following steps should do:

- 1) Create new empty preset
- 2) Click Edit
- 3) Click Add New Item - give it a name like "Tag List". Select all geo types
- 4) Select item
- 5) On right, Click "Add tag element"
- 6) Choose "Text" for type (the default, first option)
- 7) In Key box, add in the name of the key. Click OK
- 8) repeat steps 5-7 until you have enough keys

Hot Visual Tag Chooser

Editing Preset 3

Name: Tims simple preset

Edit Preset

Name:

Author:

Description:

Short Description:

Version:

[Save All Changes](#)

Add Tag Element

Type:

Single key where the user can add in their own value. Text is the optional label to be displayed for the key.



Key:

Text label:

[Delete](#) [Ok](#) [Cancel](#)




Preset

[Add New Item](#)

 Tag List 

Tag List (node,way,closedway,relation)

[Add Tag Element](#) [Save Changes To Item](#)

text	horse	<input type="text"/>	
text	highway	<input type="text"/>	
text	building	<input type="text"/>	

Hot Visual Tag Chooser - v1.2.0