

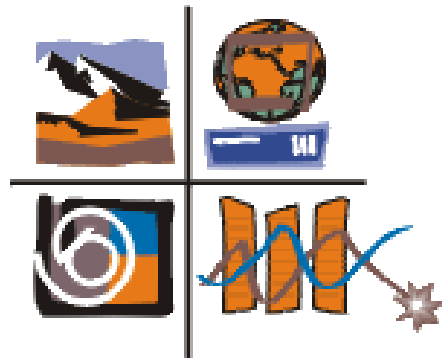


**WMS Inspector:
a Firefox add-on with tools for
working with Web Map Services**



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Thanks to



geodata@

<http://www.geodata.es>


Overview



- Introduction
- Features
- Live(?) use cases
- Future
- Project

What is it?

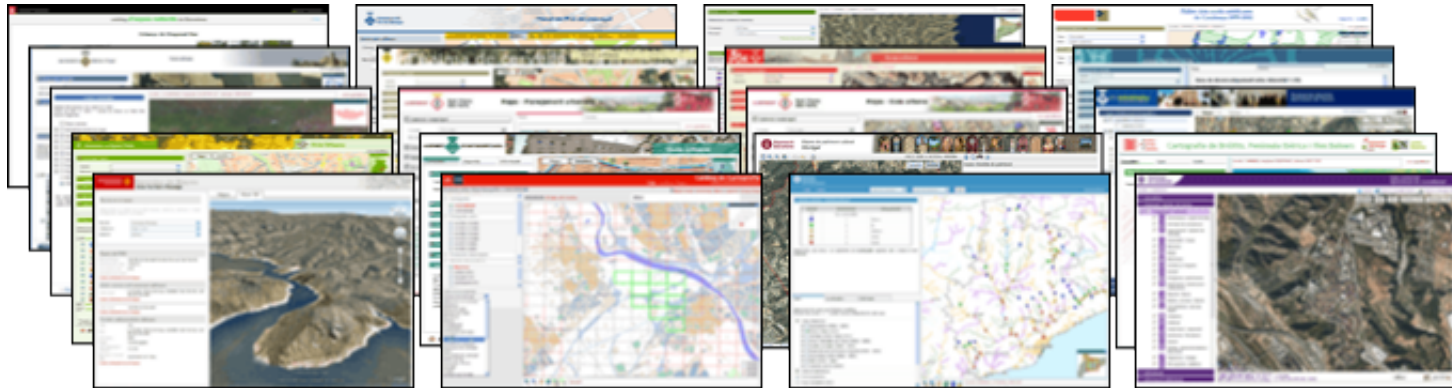


- Firefox extension 
- Set of existing and new functionalities for users who work with Web Map Services
- Both frequent and occasional users

Origin



- Check which services are used
- Debug failing requests
- Check GetCapabilities responses
- ...



Origin



- Developers: help with frequent tasks
- Non-developers: not familiar with concepts like clients, services, capabilities...



Tool to ease common tasks + provide a friendly approach to WMS

Why a Firefox add-on?



- Integrated in one of the most popular browsers for developers
 - Companion of *Firebug*, *HttpFox*, ...
 - Privileged environment
 - CSS + Javascript + XUL + XPCOM



XUL

```
<box id="main">  
  <button label="Test" oncommand="test()" />  
</box/>
```

JS

```
function test() { alert("Hi!"); }
```

Why a Firefox add-on?



- Addons.mozilla.org
<http://addons.mozilla.org/addon/91406>

A screenshot of the Mozilla Add-ons website for the 'WMS Inspector' add-on. The page has a light blue background. At the top, there's a 'mozilla' logo and navigation links for 'Welcome, Adria', 'My Account', 'Developer Hub', and 'Other Applications'. Below this is the 'Add-ons for Firefox' header with the Firefox logo. A search bar contains the text 'search for add-ons' and a dropdown menu is set to 'all add-ons'. The main content area shows the 'WMS Inspector 0.1.4' add-on by 'amercader'. It includes a small screenshot of the add-on's interface, a description: 'WMS Inspector adds tools for working with Web Map Services (WMS). Find which services is using a mapping application, debug failing requests and discover map services' capabilities.', and a green 'Add to Firefox' button. Below the button, it shows the update date 'April 7, 2010' and the website 'http://wiki.github.com/amercader'. On the right side, there are two light blue boxes: 'See All Web Development Add-ons' and 'Need help with this add-on? Visit the support site'. At the bottom left, there is a 'Share this Add-on' link.

Features: Main panel



Services
└ Requests
└ Parameters

Images
Messages

Service \ Parameter name	Parameter value
+ http://ovc.catastro.meh.es/Cartografia/WMS/Servid...	
+ http://shagrat.icc.es/lizardtech/iserv/ows (1)	
- http://oslo.geodata.es/wms50/castellbisbal/guia/fo...	
- http://oslo.geodata.es/wms50/castellbisbal/guia/fo...	
REQUEST	GetMap
VERSION	1.1.1
LAYERS	portals.e
STYLES	

Done

Features: Capabilities



GetCapabilities request

Server

Options
Service Version

Output
 HTML report
 Original XML file
Open in: Browser Editor



Service

▼ General information

Version:	1.1.1
Name:	OGC:WMS
Title:	Servidor Cartografia MMAMB - Topografics
Online resource:	http://cartografia.amb.cat/ows/cartografia?
Abstract:	Geoserveis de la MMAMB: Mapes topografics (1:1.000) / Mapas topograficos (1:1.000) / Topographic maps (1:1.000)
Keywords:	MMAMB, Barcelona, WMS, Topographic, 1:1.000

▶ Contact details

▶ Access conditions

Capabilities

▼ Available requests

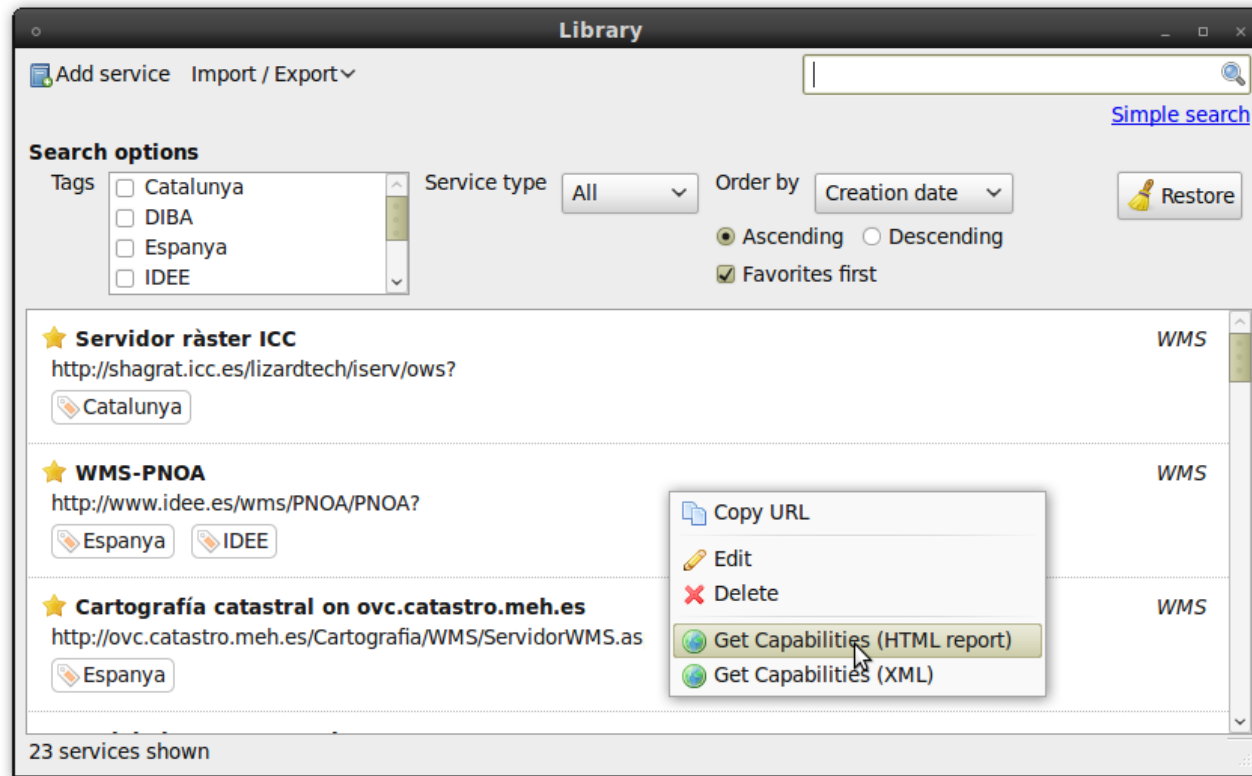
GetCapabilities	application/vnd.ogc.wms_xml	GET http://cartografia.amb.cat/ows/cartografia?
		POST http://cartografia.amb.cat/ows/cartografia?
GetMap	image/gif image/png image/png; mode=24bit image/jpeg image/vnd.wap.wbmp	GET http://cartografia.amb.cat/ows/cartografia?
		POST http://cartografia.amb.cat/ows/cartografia?

This XML file does not appear to have any style information associated with it. The document...

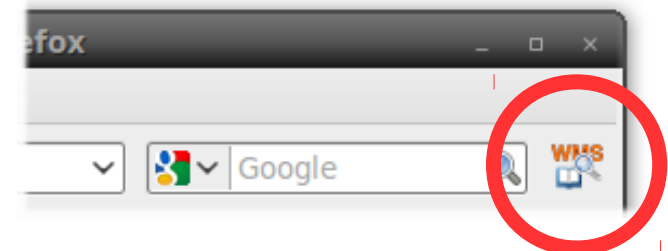
```
<!-- end of DOCTYPE declaration -->
--<WMT_MS_Capabilities version="1.1.1">
  <!--
  MapServer version 5.2.0 OUTPUT=GIF OUTPUT=PNG OUTPUT=JPEG OUTPUT=WBMP OUTPUT=PDF OUTPUT=SWF
  -->
  --<Service>
    <Name>OGC:WMS</Name>
    <Title>Servidor Cartografia MMAMB - Topografics</Title>
    <Abstract>
      Geoserveis de la MMAMB: Mapes topografics (1:1.000) / Mapas topograficos (1:1.000) / Topographic maps
      (1:1.000)
    </Abstract>
    <KeywordList>
      <Keyword>MMAMB</Keyword>
      <Keyword>Barcelona</Keyword>
      <Keyword>WMS</Keyword>
      <Keyword>Topographic</Keyword>
      <Keyword>1:1.000</Keyword>
    </KeywordList>
    <OnlineResource xlink:href="http://cartografia.amb.cat/ows/cartografia?"/>
  --<ContactInformation>
    <ContactPersonPrimary>
      <ContactPerson>Departament de cartografia</ContactPerson>
      <ContactOrganization>Area. Metronolitana de Barcelona</ContactOrganization>
    </ContactPersonPrimary>
  --</ContactInformation>
--</Service>
--</WMT_MS_Capabilities>
--</-->
```

- HTML report (XSLT)
- Original XML

Features: Library



- Export / Import
- Easy access





Use case 1

Introducing the WMS on web clients to new users

- Users with a cartographic background
- Developers without a geospatial background

Use case 2



Finding suitable services for a new project

- Check possible candidates' capabilities
- Keep record of interesting services
- Share findings with other team members

Future: General lines



1. Support for other mapping services: TMS, WMTS, OSM, ...

WMS Inspector -> OWS Inspector?

2. Better UI and New features

(Keeping it simple)

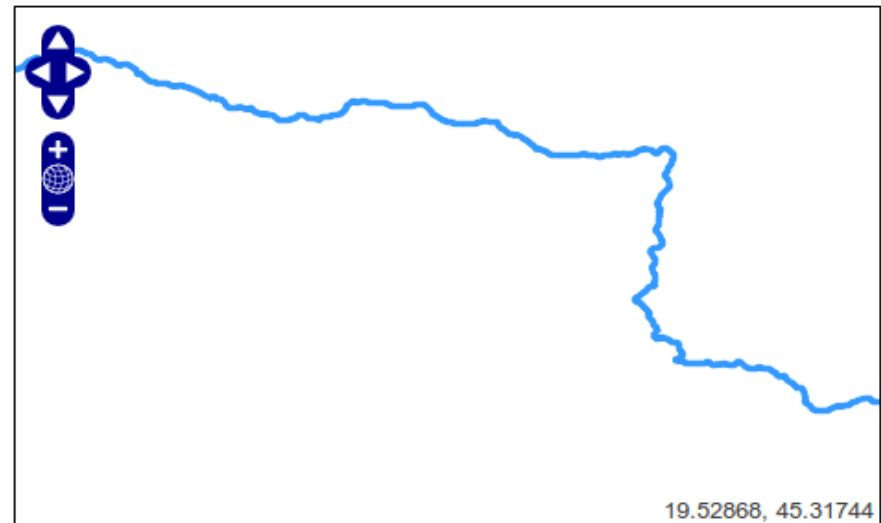
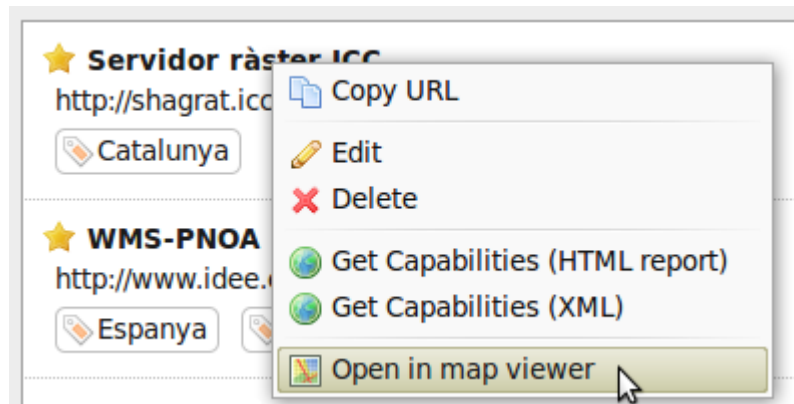
3. User customization



Future: Possible features



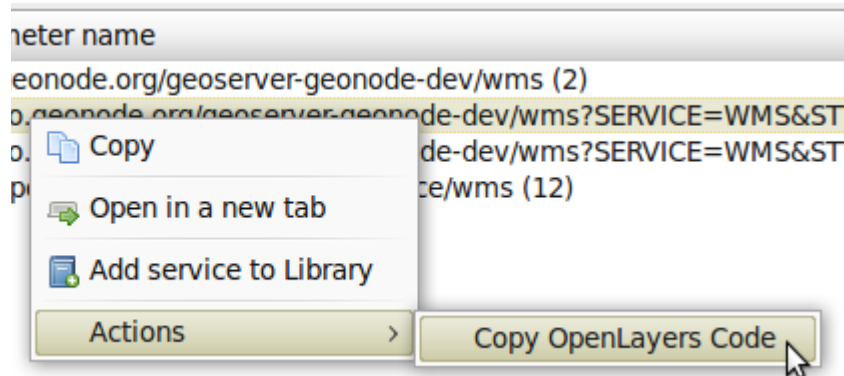
- Embedded light map viewer



Future: Possible features **WMS**



- User defined actions



```
wms = new OpenLayers.Layer.WMS (
  "WMS Inspector - {Layers}",
  "{Service}",
  {
    layers: "{Layers}",
    srs: "{SRS}",
    format: "{Format}",
  },
  {
    buffer: 0,
  }
);
```



Future: Possible features **WMS**



- Automatic mode
- Customizable HTML reports
- Library integrated services search
- ???





Project

- Download

<http://addons.mozilla.org/addon/91406>

- Support

wmsinspector@freelists.org

<http://www.freelists.org/list/wmsinspector>

- Documentation (TODO)

<http://github.com/amercader/WMS-Inspector/wiki>



Project

- Source code (GPLv3)

<http://github.com/amercader/WMS-Inspector>

- Translations

<http://www.babelzilla.org>

Current translations: en, es, ca, pt-BR, fr, pl, zn-CH



Thank you



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<http://amercader.net>