MapServer Statusbericht
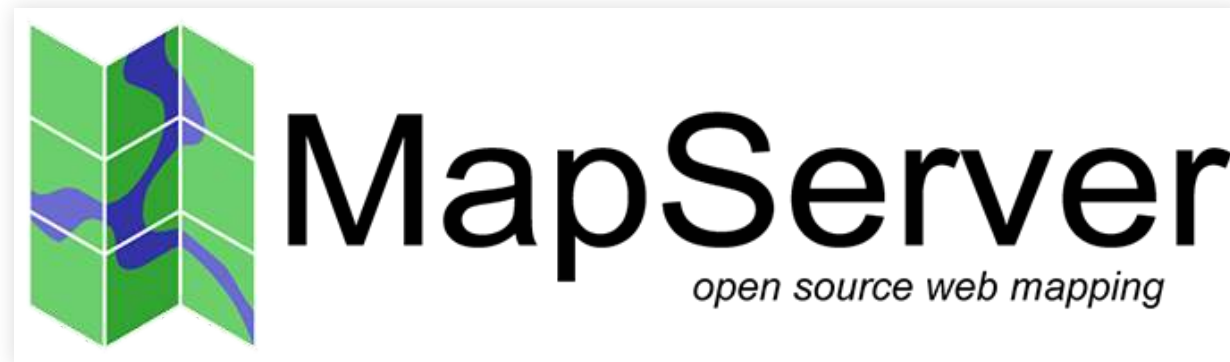
Jörg Thomsen, WhereGroup GmbH

über mich

joerg.thomsen@wheregroup.com

MapServer

- https://mapserver.org
- OpenSource / OSGeo Software zur Bereitstellung von OGC-Diensten
- MIT-Lizenz
- Linux, Windows, Mac OS X
- cgi & MapScript
- sehr breit aufgestellt

MapServer Tweet Dez. 2019

MapServer
@mapserver_osgeo

12000 commits, quite a milestone! Thank you to all of the MapServer community and contributors (code, testing, docs, packaging, promoting, helping users on mailing lists). Credit to the developer 'bragef' for the big commit, ha!

MapServer auf Open Hub

In a Nutshell, MapServer...

... has had 13,868 commits made by 160 contributors
representing 416,708 lines of code

... is mostly written in C
with a low number of source code comments

... has a well established, mature codebase
maintained by a large development team
with increasing Y-O-Y commits

... took an estimated 110 years of effort (COCOMO model)
starting with its first commit in April, 2000
ending with its most recent commit about 1 month ago

https://www.openhub.net/p/mapserver

MapServer for Windows (MS4W)

MS4W: open doors as well as windows

MapServer for Windows (MS4W) is the popular and long-time installer for Windows users developed by Gateway Geomatics, containing all you need to get moving fast with MapServer.
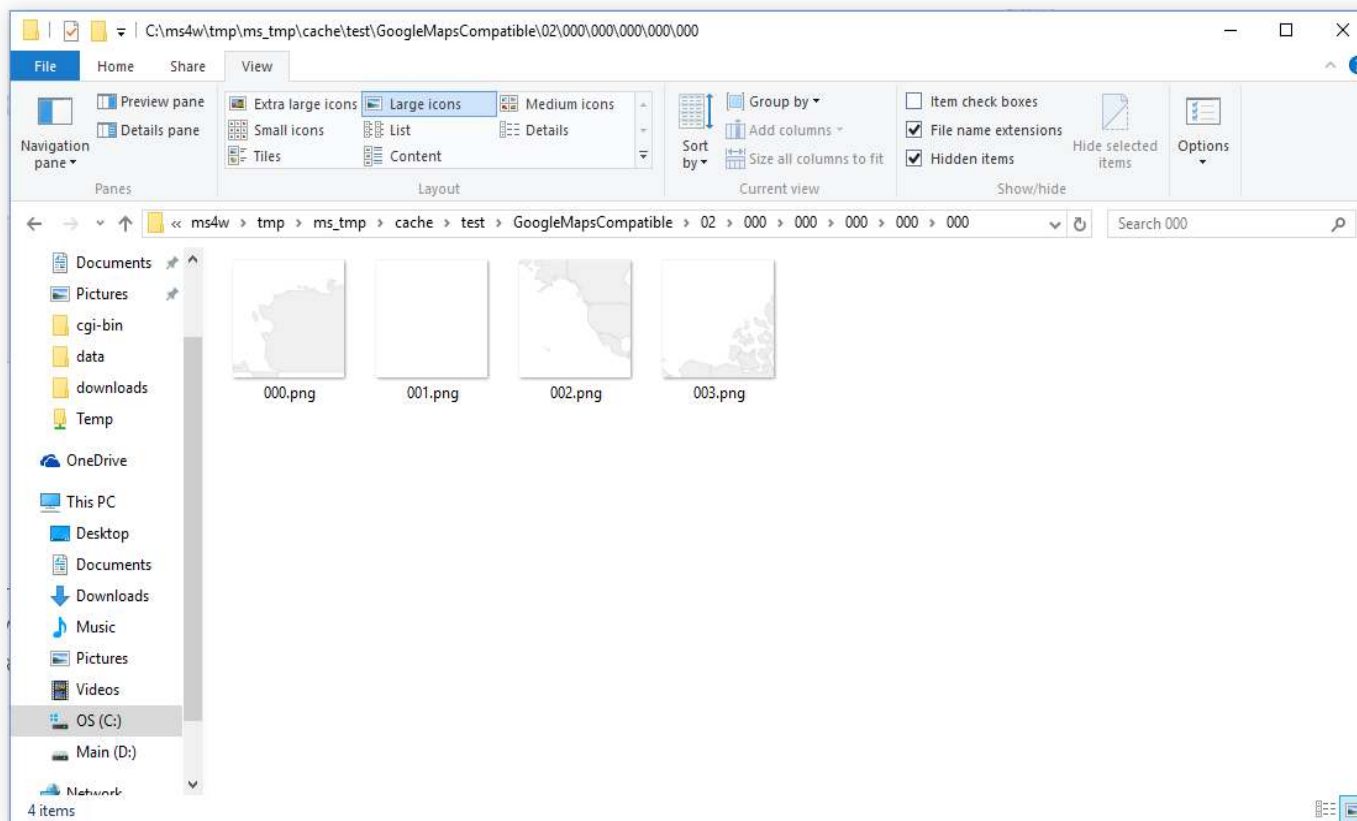
ⓘ Note

MS4W 4.0.3 is released! Important security release for several libraries.

Get it now!

https://ms4w.com/

MapCache
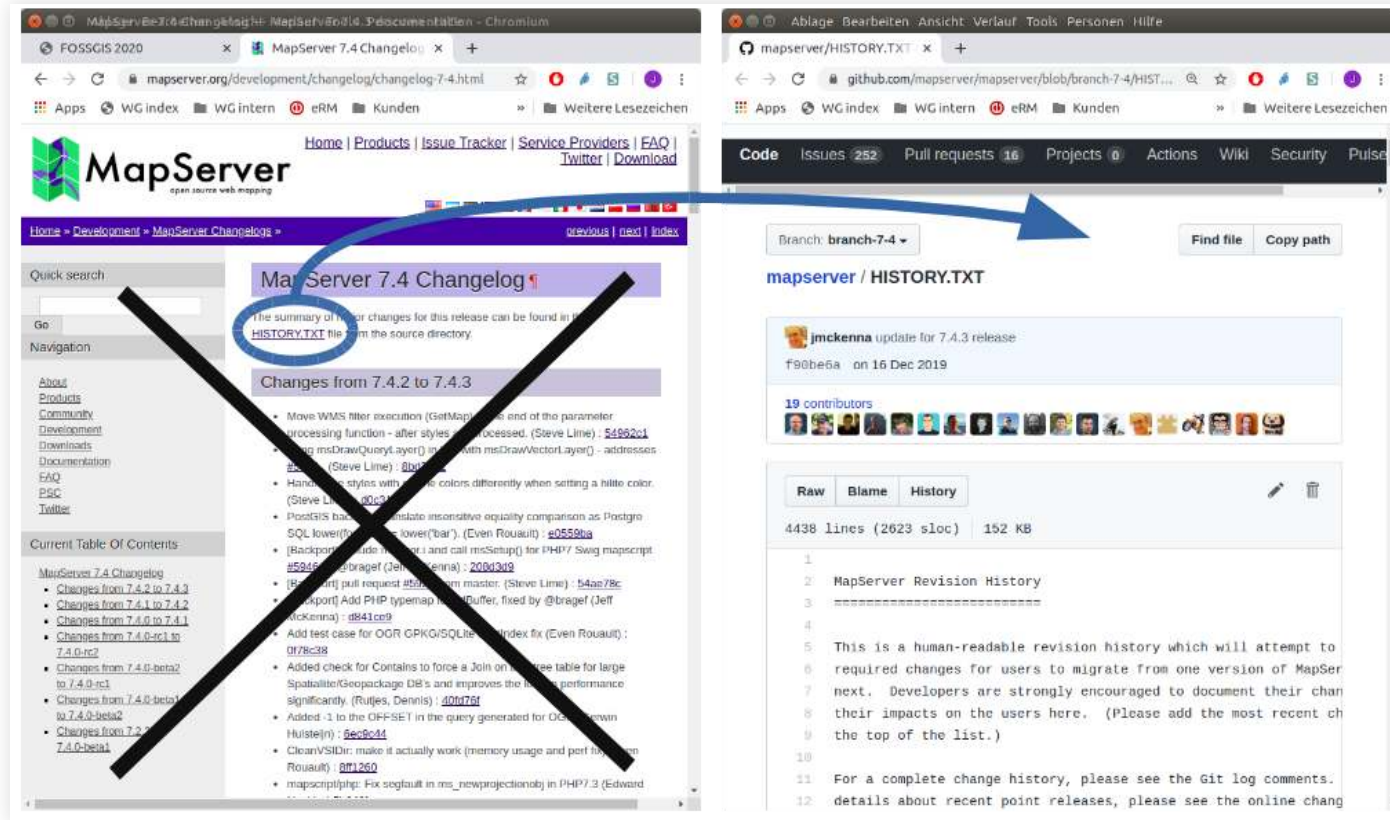
Tiny OWS

```
MAP
    WEB
        METADATA
                "tinyows_schema_dir" "/usr/local/share/tinyows/schema/"
                "wfs_title" "TinyOWS service provided by a MapFile"
                "wfs_contact" "foo@bar.net"
        END
    END
    LAYER
        NAME 'France'
        METADATA
                'wfs_title' 'France'
                'wfs_namespace_prefix' 'tows'
                'wfs_namespace_uri' 'http://www.mapserver.org/tinyows/'
                'wfs_srs' 'EPSG:27582'
                'tinyows_table'  'france'
                'tinyows_writable' '1'
                'tinyows_retrievable' '1'
        END
        DUMP TRUE
    END
END
```

MapServer History

MapScript

Ist alt, aber PHP7 Support hat lange auf sich warten lassen.

MapScript

Ist alt, aber PHP7 Support hat lange auf sich warten lassen.

ja schön, aber ... ähm... was ist das überhaupt?

und wofür brauche ich das?

MapScript

Jeder Mapfile-Parameter ist dynamisch anpassbar.

- Wirklich jeder.
- Auch die Parameter, die wir nicht aus den Attributen der Geodaten holen können.
- Auch die Parameter, die nicht über Variablen (runtime substitution, scaletoken) steuerbar sind.
- Es könne auch Daten zur Darstellung generiert oder von Webdiensten geholt werden.

MapBox Vector Tiles

Konfiguration als neues Output-Format:

```
OUTPUTFORMAT
    NAME "mvt"
    DRIVER MVT
    #FORMATOPTION "EXTENT=512" # default is 4096
    FORMATOPTION "EDGE_BUFFER=20"
END
```

MapBox Vector Tiles
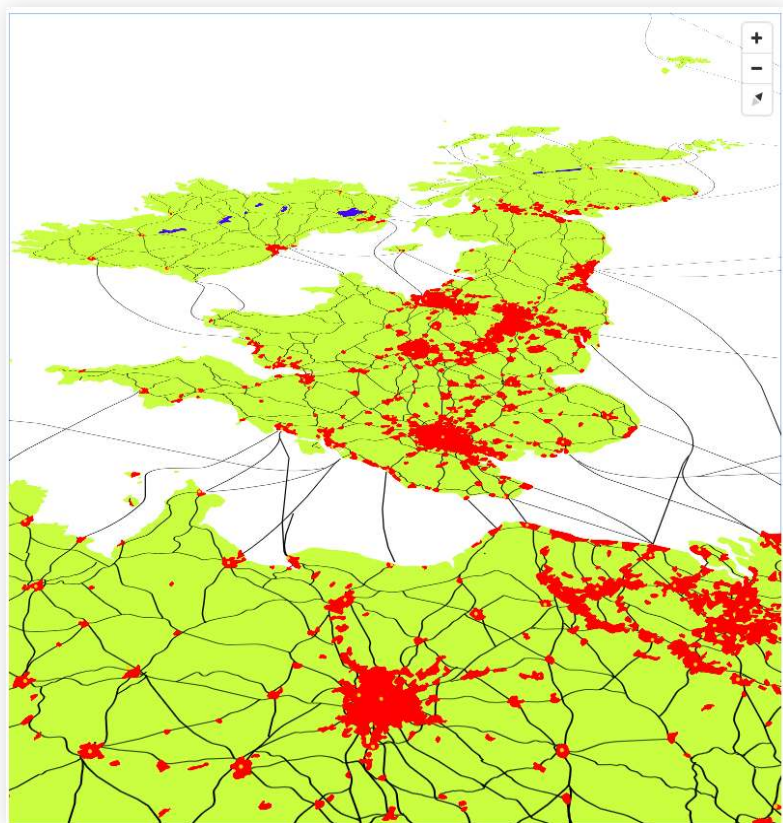
OGC-Filter im WMS GetMap-Request

```
/cgi-bin/mapserv?map=...
&SERVICE=WMS
&REQUEST=GetMap
&LAYERS=popplace
&FILTER=<filter><propertyisequalto><propertyname>NAME</propertyname>
<literal>Digby</literal>
</propertyisequalto></filter>
&...
```

GetMap ohne Filter

GetMap mit Filter

Composite Filters

```
LAYER
  COMPOSITE
    OPACITY 100
    COMPOP "darken"
  END # COMPOSITE
...
END # LAYER
```

FOSSGIS 2020
Freiburg, 11.–14. März

Layer Metadaten

https://demo.mapserver.org/cgi-bin/wms?
request=GetMetadata&layer=continents

```
<gmd:md_metadata xmlns:gmd="http://www.isotc211.org/2005/gmd" <gmd:fileidentifier="">
        <gco:characterstring>continents</gco:characterstring>

    <gmd:language>
        <gco:characterstring>en-US</gco:characterstring>
    </gmd:language>
    <gmd:hierarchylevel>
        <gmd:md_scopecode codespace="ISOTC211/19115" codelist="http://www.isotc211.org/2005 ...
    </gmd:hierarchyLevel>
    <gmd:contact>
        <gmd:CI_ResponsibleParty id=" contact"="">
        <gmd:individualname>
            <gco:characterstring>Jeff McKenna</gco:characterstring>
        </gmd:individualname>
        <gmd:organisationname>
            <gco:characterstring>Gateway Geomatics</gco:characterstring>
        </gmd:organisationname>
<       gmd:positionName>
            <gco:characterstring>Director</gco:characterstring>

    ...
</gmd:md_scopecode></gmd:hierarchylevel></gmd:md_metadata>
```

INSPIRE Support für WCS 2.0

```
WEB
 METADATA
  ...
  "wcs_languages" "eng,ger"
  ...
 END
END
WEB
 METADATA
  ...
  "wcs_title.eng" "myservicetitle"
  "wcs_title.ger" "Mein Dienst"
  "wcs_abstract" "mylayerabstract"        #fallback
  "wcs_abstract.ger" "Meine Zusammenfassung"
  ...
 END
END
```

Coming soon

- MapServer-8.0-Release-Plan
    - rename shp2img utility to map2img
    - fully support PROJ 6+ (need lead)
    - fully support upcoming "OGC API", also called "WFS 3", standard

- Mapfile-Syntax-Changes-for-8.0

- Mai 2020: https://wiki.osgeo.org/wiki/OSGeo_Community_Sprint_2020

Coming sooner

Von Jeff McKenna ⭐

Betreff **Re: [mapserver-users] cgi-error: End of script outpu**

An Jörg Thomsen (WhereGroup) ⭐

7.6.0 is likely end of Feb early March, close to FOSSGIS ha.

Thanks for the MS4W complements!!!

-jeff