



MMMv4 - My Meta Maker for Everything!

Martin Cavanagh
Osnabrück University Germany

Osnabrück, 2005-11-24

Martin Cavanagh, Bsc. Waikato University New Zealand





MMM - My Meta Maker

v1 Math-Net Page Maker

v2.3 Math-Net _Meta_ Maker Persons

v3.1 Math-Net Preprint MetaData

MMM similar programs from Math & Industry and many other similar utilities





Why? then another MMM Program?

In every MMM program the same work is being repeated over and over again.

Instead of MMMv4 being aimed at a specific application, it is a tool for the rapid creation of new MMM applications

- allows non programmers to be actively involved in development
- separate language files - easy translation
- still a role for programmers - creation of final page + rdf profile
- platform independent (written in perl)
- allows the simple use of external perl scripts to extend functionality
- possible to forward control onto another scripting language (jsp, php...)

MMMv4 aims to help other developers to deploy faster and easier MMM type applications

MMMv4 can also be used for other information gathering purposes, surveys and so on

MMMv4 - how does MMMv4 work?

The MMMv4 engine is not called directly, instead it is necessary to embed a hidden variable inside a html file before calling the MMMv4 Engine.

This contains the path to a config file

Because MMMv4 doesn't directly show websites. This offers it a level of protection from web crawlers which harvest data (email addresses and names)

<http://www.inf-eng.org/cgi-bin/infeng/MMM/MMMPersons/MMM4.0.cgi>

MMMv4 - how does MMMv4 work?

Janka's Survey - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://localhost/mmm2.3_home.html

Windows Marketplace Customize Links Free Hotmail Windows Windows Media Getting Started Latest Headlines

If the questions don't start automatically in 1 second, please click 'start anfangen'

start anfangen

view-source: - Source of: http://localhost/mmm2.3_home.html - Mozilla Firefox

```
File Edit View
text-align: center;
color:red;
font-family:sans-serif;
}
</style>
<script type="text/javascript">
function nextpage() {
    //document.myform.submit();
}
</script>
</head>
<body bgcolor="lightgreen" onload="nextpage()">
<!--<meta http-equiv="refresh" content="1;URL=http://localhost/cgi-bin/survey.cgi"> -->
<!--this is for changing between home and uni-->
<!--<form name="myform" enctype="multipart/form-data" method="post" action="http://www.inf-eng.org/cgi-
<form name="myform" enctype="multipart/form-data" method="post" action="http://localhost/cgi-bi
<!--these are standard variables - the path and the config file-->
<input type="hidden" name="path" value="MMMv4Conf/" />
<input type="hidden" name="configfile" value="config.conf" />
<!--standard this is a standard script to process results at the end-->
<input type="hidden" name="resultscript" value="MMMv4Conf/MMMv4_mmm2.3.cgi" />
<!--this is a variable for the results script-->
<input type="hidden" name="background_colour" value="#ffffcc" />

<p>If the questions don't start automatically in 1 second, please click 'start anfangen'</p>
<input type="submit" value="start anfangen" name="start"/>
</form>
</body>
</html>
```

Done

Start mmmv4.txt - E... C:\Dokumente ... mmmv4.ppt - O... 5. The Cars - L... mmmv4_pics.rt... Windows Task... 2 Firefox DE 01:30

Osnabrück, 2005-11-24

Martin Cavanagh, Bsc. Waikato University New Zealand



MMMv4 - how does MMMv4 work?



MMMv4 reads the config file
depending on the contents different style question types and
information are shown.

the config defines the language file to use to fill the fields

config.conf

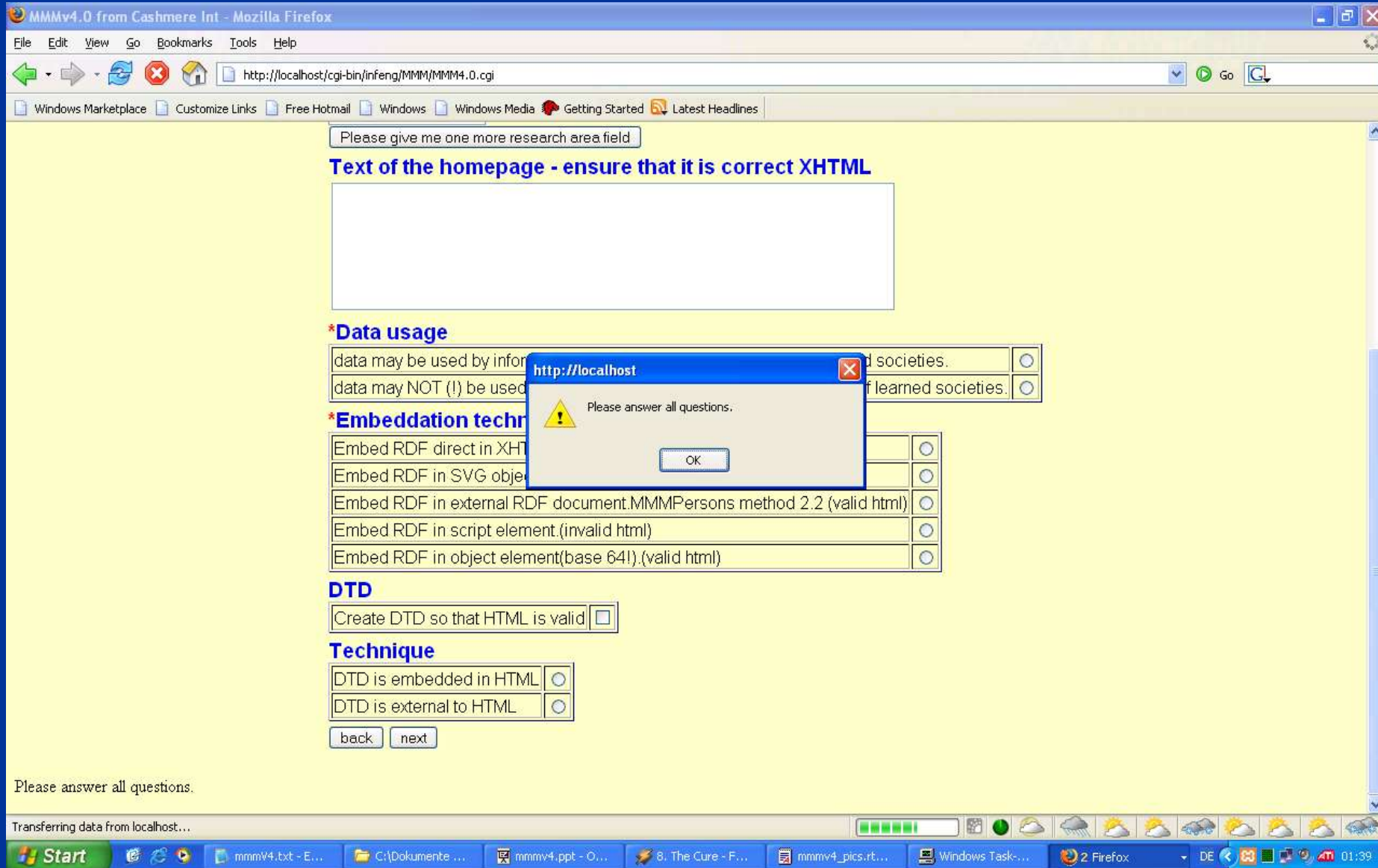
```
afterpage0 {
  nextpage,page1
}
page1 {
  setlanguage,generallang
  starttable
  singleselectquestion,Choose_Language,required,nohelp,english,german
  introduction,MMMv2.3Description
  submitbutton,nohelp,nextgermanandenglish
  endtable
}
lastpage1 {
  nextpage,page1
}
...
```

MMMv4 supports different question types

- single choice
- multichoice (radio and checkbox)
- open text
- repeating questions
- introduction texts

questions maybe compulsory or optional

MMMv4 – config file



MMMv4.0 from Cashmere Int - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://localhost/cgi-bin/infeng/MMM/MMM4.0.cgi

Please give me one more research area field

Text of the homepage - ensure that it is correct XHTML

***Data usage**

data may be used by informed societies.

data may NOT (!) be used by learned societies.

***Embeddation techn**

Embed RDF direct in XHTML

Embed RDF in SVG object

Embed RDF in external RDF document.MMMPersons method 2.2 (valid html)

Embed RDF in script element (invalid html)

Embed RDF in object element(base 64!) (valid html)

DTD

Create DTD so that HTML is valid

Technique

DTD is embedded in HTML

DTD is external to HTML

back next

Please answer all questions.

Transferring data from localhost...

Start

mmm4.txt - E... C:\Dokumente ... mmmv4.ppt - O... 8. The Cure - F... mmmv4_pics.rt... Windows Task-... 2 Firefox DE 01:39

Osnabrück, 2005-11-24



- MMMv4 supports seperate language files
- The language files are extremely simple so that someone with knowledge of foreign languages needs no programming/html knowledge

german.conf

\$Choose_Language:

Wählen Sie Ihre Sprache

\$english:

Englisch

\$german:

Deutsch

\$MMMv2.3Description:

<div>MMM2.3 My Metadata Maker for Persons.</div>

<div>Generiert Hompages mit Metadaten für Personen.</div>

\$nextgermanandenglish:

fortfahren

\$nosuffix:

\$yes:

ja

Martin Cavanagh, Bsc. Waikato University New Zealand

Osnabrück, 2005-11-24



MMMv4 – language files

Cashmere

MMMv4.0 from Cashmere Int - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://localhost/cgi-bin/infeng/MMM/MMM4.0.cgi

Windows Marketplace Customize Links Free Hotmail Windows Windows Media Getting Started Latest Headlines

Math-Net Meta Maker for Everything

***Personal Details:**

Given Name:

Family Name:

Email Address:

Titles:

Prof.

Dr.

back next

[Help](#)

Software questions to: [Cashmere research group](#)

W3C XHTML 1.0

Your Name and Email Address. Essential details for a My Metadata Maker page.

Osnabrück, 2005-11-24

Martin Cavanagh, Bsc. Waikato University New Zealand



MMMv4 – language files



MMMv4.0 from Cashmere Int - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://localhost/cgi-bin/infeng/MMM/MMM4.0.cgi

Windows Marketplace Customize Links Free Hotmail Windows Windows Media Getting Started Latest Headlines

Math-Net Meta Maker for Everything

***Persönliche Daten:**


Vorname:	<input type="text"/>
Nachname:	<input type="text"/>
Email Adresse:	<input type="text"/>

Titel:


Prof.	<input type="checkbox"/>
Dr.	<input type="checkbox"/>

[Help](#)

Software questions to: [Cashmere research group](#)



Done



Osnabrück, 2005-11-24

Martin Cavanagh, Bsc. Waikato University New Zealand





MMMv4 supports plugins to allow for extensions not originally imagined

```
...
afterpage2 {
nextpage,ifextern_check(MMMv4Conf/email_address_check.pl|
personal_detailsemail_address),page2,required_email_address
nextpage,page3
}
...
```



Due to the pluginable nature of MMMv4 it can also be used for other purposes other than MMM style pages:

- surveys
- capturing data for a database
- and so on



A specific program (a plugin) is still required to take the results from MMMv4 and create a result page with rdf + html



- Application Profile
- Config file
- Language Files
- Final processing script

<http://www.iwi-iuk.org/cashmere/htmlrdf/mmm2.3.html>



MMMv4 - My Meta Maker for Everything!

Martin Cavanagh
Osnabrück University Germany
mcavanag@mathematik.uos.de