

The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
<http://www.ictp.trieste.it/~www4mail>

USERS GUIDE

version 3.0; May 2001

www4mail

Web Navigation & Database Search by E-Mail (*The Next Generation*)

1 What is **www4mail**?

www4mail is an open source application, that allows you to navigate off-line and search the whole Internet via electronic mail (e-mail) by using any standard Web browser and a MIME (Multipurpose Internet Mail Exchange) aware e-mail program. E-mail messages sent to **www4mail** servers get automatically passed to your e-mail agent when you select (one or more) buttons that link to other Web documents within a requested Web page. There are many options available for user quota statistics, e-mail uuencoding reply, *etc.* A few of these are described in this *Users Manual* (see Chapter 2 [How to use **www4mail**], page 2).

Since 1998, the goal of **www4mail** has been to help bridging the digital divide and transfer knowledge to remote regions.

The **www4mail** code was written by *Clement Onime* in collaboration with *Enrique Canessa* in Trieste, Italy.

The Scientific Computer Section of The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy is acknowledged for supporting the **www4mail** project.

www4mail was one of the finalists of the 2000 Stockholm Challenge Award in the *Equal Access* category ;-)

1.1 **www4mail** Features

www4mail is a Web/E-mail gateway written in Perl. Main features include:

- Ability to handle a variety of HTML tags, (java)scripts, cookies, metatags, dynamic data contents, frames, *etc.*
- Allows to query most Web search engines and to retrieve FTP information with the minimum of user intervention.
- Compatibility with alternative "Agora" and "GetWeb" server options used to GET or SEND the SOURCE of web pages in the body of the message.
- Preserves the HTML formatting of a Web page; *e.g.*, bold, fonts, colours, *etc.*
- Provides clickable links for an easy off-line surfing the Web by e-mail.
- Easy support for filling forms and accessing dynamic pages.
- Supports Multi-lingual User Interface and Images.
- Supports selecting the Post Method and Multiple Attachments.
- Handles PostScript and PDF Web Pages outputs.
- Transparently passes on any new HTML standards to the Web browser.
- Returns Error reports to users.
- Flexible user quota management.
- Access control list.
- Apache Web server style of access logs.
- Allows encrypted **https** transactions.

... and much more.

2 How to use www4mail?

... It is simple!

Within the body of an e-mail message to any **www4mail** server just specify the Internet "address", called *Uniform Resource Locator* (URL), of the Web site(s)/page(s) you want to retrieve. By default these will be sent as e-mail Attachments. But if you prefer you can also get Web documents in the body of an e-mail message by using one of the options SEND, GET, GET SOURCE, or XSOURCE as indicated next. Or use XUENCODE to request uuencoding the contents. There are many available options.

2.1 Getting Help

Updated Information and general help on the free **www4mail** service can be retrieved by sending an e-mail

To: **www4mail@wm.ictp.trieste.it**
Subject: (... *whatever you like*)

and writing in the body of the e-mail:

help

Of course, you can use any of the free available **www4mail** services: *e.g.*, **www4mail@collaborium.org**.

Help in specific topics can also be retrived by using the options:

help cookies	(<i>manage stored cookies</i>)
help denials	(<i>access control implementation</i>)
help end	(<i>prevent processing, e.g. signature</i>)
help errors	(<i>errors code meaning</i>)
help forms	(<i>form submission modes: browser or text</i>)
help get	(<i>text dumps of a URL in e-mail body</i>)
help getpart	(<i>select parts of a split document</i>)
help getps	(<i>request PostScript dump of a URL</i>)
help getpdf	(<i>request PDF dump of a URL</i>)
help getsize	(<i>set size of attachments</i>)
help quota	(<i>quota implementation</i>)
help send	(<i>same as get</i>)
help source	(<i>request HTML source code in e-mail body</i>)
help split	(<i>recombine split binaries</i>)
help tsource	(<i>request HTML source code as attachment</i>)
help xbase	(<i>set base href applicable to several URLs</i>)
help xbyjs	(<i>request browser to mail using javascript</i>)
help xypass	(<i>ignore user command appearing as HTML variable</i>)
help xcharset	(<i>retrieive language specific page, if available</i>)
help xclearcookies	(<i>erase all existing/stored cookies</i>)
help xdisablecookies	(<i>disable temporarily use of cookies</i>)
help xdocinfo	(<i>get head information of a http URL only</i>)
help xextraopt	(<i>issue list of command options in one line</i>)
help xform	(<i>define a HTML form entry</i>)

<code>help xformreply</code>	<i>(result of form submission in particular output)</i>
<code>help xget</code>	<i>(request URL processed by <code>www4mail</code> as attachment)</i>
<code>help ximage</code>	<i>(insert suitable links for graphical images)</i>
<code>help xjsdump</code>	<i>(request browser dump data to browser windows)</i>
<code>help xlanguage</code>	<i>(retrieve language specific page, if available)</i>
<code>help xloading</code>	<i>(attach images existing in a HTML document)</i>
<code>help xloadurl</code>	<i>(attach URLs existing in a HTML document)</i>
<code>help xmime</code>	<i>(force the application/html MIME type)</i>
<code>help xmultimime</code>	<i>(combine several requests in single reply)</i>
<code>help xmylang</code>	<i>(retrieve language specific page, if available)</i>
<code>help xmyquota</code>	<i>(retrieve information about quota usage status)</i>
<code>help xnoautozip</code>	<i>(disable zipping before splitting)</i>
<code>help xnocookies</code>	<i>(erase/disable use of cookies)</i>
<code>help xnoframe</code>	<i>(disable handling of FRAME)</i>
<code>help xnoscript</code>	<i>(disable handling of scripts code)</i>
<code>help xnostat</code>	<i>(disable Statistics page completely)</i>
<code>help xseparate</code>	<i>(separate e-mails: Statistics and requested page)</i>
<code>help xsource</code>	<i>(send modified HTML source page in e-mail body)</i>
<code>help xsubmit_now</code>	<i>(request immediate processing of form)</i>
<code>help xsubmit_on</code>	<i>(specify HTML variable acting as submit button)</i>
<code>help xurlcode</code>	<i>(request browser to code reply sent by e-mail)</i>
<code>help xusepost</code>	<i>(submit form data using POST method)</i>
<code>help xuseqp</code>	<i>(request attachments encoded using MIME QP)</i>
<code>help xuudeview</code>	<i>(formatted reply with uudeview multi file decoding)</i>
<code>help xuencode</code>	<i>(reply using uuencoding instead of MIME)</i>

2.2 Receiving Web documents as e-mail attachment

Receiving Web documents as e-mail attachment allows you to save and re-use the Web document; specially for a later search of the Internet.

For example to retrieve some Web pages of The Abdus Salam International Centre for Theoretical Physics Web server in Trieste, Italy, send an e-mail

To: `www4mail@wm.ictp.trieste.it`
 Subject: *(... whatever you like)*

and write (one or up to 5 requests) in the body of the e-mail:

```
http://www.ictp.trieste.it/
http://www.ictp.trieste.it/~www4mail
...
```

`www4mail` will reply with the requested Web document as an e-mail attachment which you can visualize with any standard Web browser like Netscape, Internet explorer, Lynx, *etc.* Therein, the original page layout (tables, colours, *etc.*) will be preserved (see picture).

Location:

The Abdus Salam International Centre for Theoretical Physics

Strada Costiera 11, P.O. Box 586, 34100 Trieste, Italy

Phone: +39 040 2240111 - Fax: +39 040 224163



☐ Tribute to Professor Abdus Salam

☐ Founded in 1964 by ☐ Abdus Salam (Nobel Laureate), the ICTP operates under the aegis of two

United Nations Agencies: ☐ UNESCO and ☐ IAEA and is regularised by a seat agreement with the Government of Italy which provides the major part of the Centre's funding. One of the main aims of ICTP is to foster the growth of advanced studies and research in the developing countries.

☐ Scientists - Present /
☐ PhoneBook /
☐ e-mail Addresses /
☐ Associate Members

You can obtain interest messages by selecting the respective buttons and clicking the 'Get Selected Document(s)' button at the footer of the Web page (as shown in the next picture) to make a new, single e-mail request to www4mail.

Click here to for LINKS only. Click to reset all selections.

☐ Check this to get Postscript version of all selected WEB document(s).

Enter maximum size of reply(s) from WWW4MAIL in bytes only (300000 max).

Enter file part(s) to retrieve, (examples: 1, 2 6-10) [leave empty to get all parts].

If you want to retrieve the original, **unmodified HTML sources** as an e-mail attachment which you can visualize it with any standard Web browser like Netscape, Internet explorer, Lynx, *etc*, then type:

```
TSOURCE http://www.ictp.trieste.it/
```

The original page layout (tables, frames, colours, *etc*) will be preserved.

You can list up to 5 '**TSOURCE URLs**' as you need within the body of your message to **www4mail**, but write one '**TSOURCE URL**' per line.

2.3 Receiving Web documents in the body of a message

Some compatibility with alternative "*Agora*" and "*GetWeb*" server is also possible via **www4mail**. Similarly, you can also retrieve Web pages (converted into text) in the body of a message if you prefer so.

For the previous example, send an e-mail

```
To: www4mail@wm.ictp.trieste.it
Subject: (... whatever you like)
```

and write in the body of the e-mail any of the following options:

```
GET http://www.ictp.trieste.it/
```

or

```
SEND http://www.ictp.trieste.it/
```

Then to continue navigating the Web using **www4mail** send another e-mail message to: **www4mail** and specify the URL(s) you need as in the above example.

If you want to retrieve the **unmodified HTML sources** in the body of an e-mail message, write any of the following options:

```
GET SOURCE http://www.ictp.trieste.it/
```

or, simply,

```
SOURCE http://www.ictp.trieste.it/
```

In case your e-mail reader does not support MIME, you can get the **www4mail filtered HTML sources** in the body of an e-mail message, by using the following option:

```
XSOURCE http://www.ictp.trieste.it/
```

You can list up to 5 ‘XSOURCE *URLs*’ as you need within the body of your message to **www4mail**, but write one ‘XSOURCE *URL*’ per line.

2.4 Alternative **www4mail** Options

Alternative options to *split* messages, retrieving any part of a split message, uuencoding, *etc* are also available on **www4mail**:

2.4.1 Typing Long URLs

If the URL requested is too long to fit into a single line, you can split up by ending the line with a backslash ('\'). For example, use

```
To:   www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

http://www.ictp.trieste.it/cgi-bin/ICTPsmr/mkhtml/smr2htm\
1.pl?smr1132/Announcement
```

Note that the second line above can begin with empty spaces.

2.4.2 Automatic Splitting of Messages

All binary files larger than 300kB and smaller than 6 MB will automatically get split into smaller chunks of 300kB each and are sent as a MIME BASE64 attachment.

All TEXT and HTML files larger than 300kB and smaller than 6 MB will automatically get pk-zipped and are subsequently treated as binary files, subject to splitting and MIME encoding on delivery.

There also exists the possibility of uuencoding binary files using UUENCODE option upon request -See Section 2.4.5 [Uuencoding Messages], page 7.

2.4.3 Message Splitting Upon Request

If your mailer software or gateway has a file size limit of less than 300kB, then you can request that **www4mail** split messages into files of smaller sizes (starting from 1 kB). To lower this value, use the GETSIZE command.

For example, the following command splits the file into 10k chunks instead:

```
To:   www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

GETSIZE 10000      (use one option line only!)
URL_here
```

GETSIZE sets the size of the **www4mail** reply message in bytes (you may also use the following notation: GETSIZE 10k). You can list up to 5 URLs as you need within the body of your message to **www4mail**, but write one URL per line.

When **www4mail** replies to a **GETSIZE** command, then the requested Web document is *always* sent as an attachment. You may need to force your Mail User Agent to save it using the **save file** option. Finally, a suitable application or command can be used to combine all chunks (on UNIX use: `cat file.1 file.2 file.3 > file` and on DOS use: `copy /b file.1+file.2+file.3 file`).

If you are displaying on your browser a Web document sent by **www4mail**, and want to retrieve the selected documents split in smaller chunks, then you can enter a maximum size of reply(s) from **www4mail** in the box near the 'Get Selected Document(s)' button at the footer of the Web page you are viewing.

2.4.4 Retrieving Any Part of a Split Message

The following command allows you to retrieve any part of a split message. Send an e-mail

```
To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

GETPART 1, 2 3 , 5-8      (use one option line only!)
GETSIZE 10k              (use one option line only!)
URL_here
```

GETPART sets the number of parts to return in each e-mail by **www4mail**. If **GETSIZE** is not given, **www4mail** uses its default values -see Section 2.4.2 [Automatic Splitting of Messages], page 6.

When **www4mail** replies to a **GETPART** command, then the requested Web document is *always* sent as an attachment. You may need to force your Mail User Agent to save it using the **save file** option. Finally, a suitable application or command can be used to combine all chunks (on UNIX use: `cat file.1 file.2 file.3 > file` and on DOS use: `copy /b file.1+file.2+file.3 file`).

2.4.5 uuencoding Messages

The following command allows you to retrieve any Web document uuencoded. Send an e-mail

```
To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

XUUENCODE      (use one option line only!)
URL_here
```

When **www4mail** replies to a **XUUENCODE** command, then the requested Web document is *always* sent in the body of the e-mail.

www4mail will always reply with an extra e-mail messages with your usage statistics.

If the file requested is large, then you can use the GETPART command to set the number of parts to return in each e-mail by **www4mail** and GETSIZE command to set the size of the **www4mail** reply message in bytes. For example,

```
To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

GETPART 1, 2 3 , 5-8      (use one option line only!)
GETSIZE 10000             (use one option line only!)
XUUENCODE
URL_here
```

A suitable application or command (like UNIX `cat file1 file2 file3 > output`) can be used to combine all chunks after uuencoding each single part.

2.4.6 Retrieving Web pages as PostScript or PDF files

The following command allows you to retrieve any Web document converted into PostScript file (including the images, if any, in the document) or Portable Document Format (PDF). But note that you cannot convert to PostScript or PDF protected Web pages. Send an e-mail

```
To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

GETPS          (use one option line only!)
URL_here
```

Use instead GETPDF to retrieve Portable Document Format files. The requested Web document is sent as an attachment. This will force your Mail User Agent the **save file** option or to open it automatically using a PostScript viewer (such as Ghostview) or PDF Acrobat Reader (or `xpdf` in Linux).

If other commands are not used in conjunction with GETPS or GETPDF (such as GETSIZE to set the size of the **www4mail** reply message) , **www4mail** uses its default values -see Section 2.4.2 [Automatic Splitting of Messages], page 6.

If the file requested is bigger than 300kB, then it will automatically get split and sent in separate e-mails. A suitable application or command (like UNIX `cat file1 file2 file3 > output.ps`) can be used to combine all chunks.

To receive the Web pages as PostScript or PDF files in the body of an e-mail and uuencoded, then you can use the following option

```

      To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

GETPS                (use one option line only!)
XUUENCODE
URL_here

```

Use instead **GETPDF** to retrieve Portable Document Format files. **www4mail** will always reply with an extra e-mail messages with your usage statistics.

2.4.7 Requesting Password-protected Web/FTP sites

User authentication support for password-protected sites is also available by **www4mail**. To access such Web site/pages conforming to the pattern 'protocol://username:password@site/directory' you need to know (and then pass on) the correct **USERNAME** and **PASSWORD**. Note the @-sign! In these cases send an e-mail

```

      To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

```

and write in the body of the e-mail:

```

      http://username:password@site/path
or
      ftp://username:password@site/path

```

where site/path is the *machine, domain, directory, file* you want to retrieve and the @-sign is used to separate the string '**username:password**' from the site/path.

If the *username* or *password* contains an @-sign, please prefix it with a back slash, example: "username:pass\@word@site/path".

Once you have received the **www4mail** reply, you will be able to navigate to such protected pages without further authentication. **www4mail** will do it automatically for you.

Of course, you can get the same information in the body of a e-mail message and as a plain text file, by adding the **GET** or **SEND** options, or as an HTML source adding **GET SOURCE**, **SOURCE** or **XSOURCE** options.

BUT PLEASE NOTE passwords passed this way, like everything else under e-mail, are not necessarily private, because:

- **www4mail** logs in all transactions locally.
- HTTP/FTP transactions with any server via e-mail are unencrypted and may be intercepted on the Internet.

2.4.8 Requesting Usenet news

To get Usenet/Newsgroups (*e.g.*, on current physics research) send an e-mail

To: `www4mail@wm.ictp.trieste.it`
Subject: *(... whatever you like)*

and write in the body of the e-mail:

`news://news_server_here/sci.physics.research`

From therein you can obtain interest messages by selecting the respective buttons and clicking the 'Get Selected Document(s)' button at the footer of the Web page to make a new, single e-mail request to **www4mail**. *Note:* You must to use a public Usenet news server.

2.5 www4mail Quota Limits

As of the date of this User's Guide, the quota period of **www4mail** free usage is limited to 300 requests (in the categories - html or text or document source) per week.

If you have exeeded your weekly quota, **www4mail** will inform you with a **503 Error Message - Service Unvailble (quota finished)** and will stop anwsering your requests after that!

WARNING: Your quota will considerably vary when requesting binary files such as ".exe", ".zip". These types of files will account for 3 to 5 times as much. Images such as ".jpg", ".gif" will account for 20 times as much! **www4mail** aims to facilitate access and searching of (HTML) Web documents.

Each reply you get from the **www4mail** carries information about your remaining quota and the day of the last access (usage within the quota week). For instance, on the body of every **ww4mail** reply you will get something like this:

```

Dear User,
Statistics of your (per week) usage of this service
=====
Remaining Quota :      199 request(s) or 15728640 (bytes)
Used Quota      :      1 requests(s) or 0 (bytes)
Last access     :

Details for Current Page
-----
URL              : http://www.collaborium.org
Mail Received    : Tue Apr 17 08:24:11 2001
Request Process  : Tue Apr 17 08:24:16 2001
Delivery Time    : Tue Apr 17 08:24:19 2001

HELP TIP:        Try our new help system send the command "help index"

WEB <-> E-mail Service by www4mail version: 2.4p1 running on
collaborium.org
WWW4MAIL Version 2.4p1: For more information send HELP INFO

Notice: All requests to this service are stored in log files.
Disclaimer: The provider of this service cannot be held responsible
for the contents, presentation or mis-presentation of documents.

```

If you are using the `SEND` or `GET` options and would like to receive instead your usage statistics information on a separate e-mail, then you can use

```

      To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

XSEPARATE      (use one option line only!)
SEND URL_here

```

Note: If you are not using the `SEND` or `GET` options, `www4mail` will reply with the Web document as an attachment and automatically will keep passing on the `XSEPARATE` option when navigating via e-mail.

It is also possible to `CHECK` at any time `YOUR WEEKLY QUOTA` by sending an e-mail

```

      To: www4mail@wm.ictp.trieste.it
Subject:      (... whatever you like)

and write in the body of the e-mail:

XMYQUOTA

```

2.6 www4mail Access Control List (ACL)

Please note that although **www4mail** is a free service that allows to *navigate* and *search* the whole Internet via e-mail, it will not permit access to Web sites/documents that are Copyright or licensed, like most Journals/Newspapers on-line, Library CD-ROMs, *etc.*

www4mail keeps its own private Access Control List (ACL), which is constantly updated by the local Administrators. see Section 3.1 [Disclaimer], page 16.

The **www4mail** ACL consists of 2 levels of control, one to *deny* (or to *allow*) access to some particular Web sites, and a second to allow *access* (or to check from a *blacklist*) for some authorized e-mail addresses only. It is up to the local **www4mail** Administrators to set up such limits. **www4mail** access to Web servers having IP numbers in their URL is denied by default.

2.7 Following Links to Other Web Pages

Browsing the Web by e-mail! (or SMTP)

Web pages usually contain links to other pages, whether to other pages in the same Web Server or another. To follow links to other Web pages depends on whether you want **www4mail** replies to be sent as *attachments* or in the *body of an e-mail message*.

When **www4mail** replies with the requested Web document as an e-mail attachment, then the Web page gets filtered. When this is displayed on your Web browser, it will show up some (click-able) buttons before each highlighted line representing the hypertexts that link to other Web documents. This feature is added by **www4mail** to facilitate you to navigate the Internet by simply selecting such buttons.

After you have selected documents (or binary files like pictures), click the 'Get Selected Document(s)' button at the footer of the Web page to make a new, single e-mail request to **www4mail**. E-mail messages will get automatically passed to your e-mail agent provided your browser is configured to send e-mails.

When **www4mail** replies to a SEND or GET request, then the requested Web document is sent in the body of the message. The Web page is sent as a plain-text document containing numbers in '[]' brackets which indicate hyperlinks. The respective URLs are listed at the bottom of the message. In this case you can request such listed pages with a single e-mail to **www4mail@wm.ictp.trieste.it** with the body containing one or up to 5 GET or SEND requests.

When **www4mail** replies to a SOURCE or GET SOURCE request, then the requested Web document will be sent unmodified in the body of a message. (You may also use the options XSEPARATE, XMYQUOTA).

2.8 Searching Databases - filling HTML forms

Usually, the searching of Web databases requires to fill HTML forms on-line. If you get from **www4mail** pages containing HTML forms as an attachment file, then these can be visualized, filled and sent from within your Web browser. POST, GET and ISINDEX types of search are fully supported.

To search using anyone of such forms, follow these steps:

- Ask to **www4mail** for the page containing the form to be sent as an attachment; (such as <http://www.hotbot.com> or <http://www.altavista.com>).
- Fill out any of the available inputs boxes selecting any of the available checkbox buttons in the page.
- Select the ‘**search**’ button usually attached to the form.

Note that:

- if you retrieve the **SOURCE** of a Web page containing HTML forms via **www4mail**, the requested document will be sent to you unmodified in the body of a message and you will not be able to search using **www4mail**.
- Alternatively, you can use the **ILIAD** server from the NASA Learning Technologies Project, to search the Internet by receiving information in the body of an e-mail message. For this free NASA service look at <http://prime.jsc.nasa.gov/iliad/iliadt.txt.html>

2.9 FTP and Binary Files via **www4mail**

If you use **www4mail** to retrieve, for example, image files (extensions ‘.jpg’, ‘.gif’), software (extensions ‘.tar’, ‘.hqx’), files in Word (extension ‘.doc’) or WordPerfect (extension ‘.wp’), or files which have been compressed (extensions ‘.gz’, ‘.Z’), then **www4mail** will send you such files as an attachment.

For example, if you send an e-mail

To: **www4mail@wm.ictp.trieste.it**
 Subject: *(... whatever you like)*

ftp://ftp.andrew.cmu.edu/pub/mpack/mpack15d.zip

or

http://www.ictp.trieste.it/images/ProfSalam.gif

You will receive a binary message as BASE64 MIME file-attachment by default. There also exists the possibility of uuencoding binary files using **UUENCODE** option upon request -See Section 2.4.5 [Uuencoding Messages], page 7.

Please note that

- there are limits on the number of bytes that **www4mail** will send you! -see Section 2.4.2 [Automatic Splitting of Messages], page 6.
 If a message is larger than 300 kilobytes (300kb), **www4mail** will automatically split it into two or more 300kb files, and send each file as a separate message. If this is the case, you will need to rebuild the original file by attaching the single parts in one file only. A suitable application or command can be used to combine all chunks (on UNIX use: `cat file.1 file.2 file.3 > file` and on DOS use: `copy /b file.1+file.2+file.3 file`).
- Your quota will considerably vary when requesting binary files! -see Section 2.5 [www4mail Quota Limits], page 10.

2.10 Special www4mail Options

www4mail has been enhanced to include more specialized options for setting the language and character set, allowing links for images, *etc.* These new options were introduced as a result of the responsive feedback from testers during the first months of trial.

For example, you can send an e-mail

To: **www4mail@wm.ictp.trieste.it**
Subject: (*... whatever you like*)

with one of the following options:

'XIMAGE (*use one option line only!*)'

This option will include links for images in a Web document sent as an attachment.

'XLANGUAGE *xx , xx* (*all in one option line only!*)'

This option allows to set a list of (comma-separated) preferred language(s) for retrieving a Web document (please note that language support will only work if it is make available on the Web server requested). Examples of language codes available include: **de** (for German), **en** for English, **fr** for French, *etc.*

'XCHARSET *xxxxx , xxxxx* (*all in one option line only!*)'

This option allows to define the list of (comma-separated) preferred character set(s) for retrieving a Web document (please note that charset support will only work if it is available on the Web server requested). Examples of character sets available include: **euc-cn** (for Chinese), **euc-jp** (for Japanese), **iso-8859-6** (for Arabic), *etc.*

'XMIME (*use one option line only!*)'

Some Mail User Agents render/display HTML or text attachments directly by themselves. For such MUAs **www4mail** can generate a different **Content-Type:** header for HTML documents. If this is the case, then using XMIME you can force the sending of html attachments using a MIME header of application/html. This is useful for preventing your e-mail client from attempting to open the html attachment itself.

'XURLCODE (*use one option line only!*)'

When filling HTML forms via e-mail, it could happen that your data input might get damaged somewhere along the line, in which case you might get a request to resend the data from the Web server. By using the XURLCODE option **www4mail** will attempt to instruct your Web browser to code the data before transmission by e-mail. This should protect the integrity of your input data and permit the submission of the filled form.

'XBYJS (*use one option line only!*)'

Some Web browsers are not capable of transmitting data by e-mail, *e.g.*, MS-IE v3.0. This problem usually shows up after you check the links that you would like to retrieve and select the "Get Selected Document(s)" button. What you get is that your mail program opens a new message with the address of the **www4mail** server appearing and the body of the message blank. You can

use the XBYJS option to work-around this problem provided you are using a JavaScript compatible browser.

Note: This work-around tries to fill in the **Subject:** line automatically instead of the message body needed by **www4mail**. But if you notice that the **Subject:** line is blank, you will need to cut out all characters starting from the ? sign in the **To:** field and paste them in the **Subject:** line manually.

3 www4mail for the Records

3.1 Disclaimer

All requests, usage or abuse of any of the available **www4mail** servers are stored in log files.

The authors providers of the Perl source code for **www4mail** cannot be held responsible for the contents, presentation or mis-presentation of Web documents retrieved from the Internet using any public or private **www4mail** server.

3.2 Sources

The source of **www4mail** can be downloaded under the GNU General Public License. For statistical purposes before downloading the **www4mail** sources you will be asked to fill a simple form available at:

<http://www.ictp.trieste.it/~www4mail>

www4mail services can be only offered for non commercial purposes otherwise you are welcome to approach the authors. Since 1998, the goal of **www4mail** has been to help bridging the digital divide and transfer knowledge to remote regions for free.

If you want to send your Comments, Suggestions, Bug Reports on **www4mail** write to the dedicated list:

www4mail-comments@w3.org

We hope **www4mail** is useful for you.

... Have a nice Internet navigation with **www4mail**!

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