SENDING EMAIL

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http://www.cs.odu.edu/~sainswor/CS418-S13/
OUTLINE

Assigned Reading

- Chapter 11 "Sending E-mail"
- Chapter 17 "Using Log Files to Improve Your Site"

Simple (Text) Email

HTML Email

Multipart Email

Log Files
ELECTRONIC MAIL FORMAT (RFC 2822)

Header lines, e.g.,
- From:
- To:
- Subject:

Body
- The "message", ASCII characters only
SENDING E-MAIL IN PHP

```php
<?php
mail("myemail@cs.odu.edu", "My subject line", "If I could think of a msg I would put it here..." );

echo "Congrats, your email was sent!";  
?>
```

headers are optional, but we'll see them in use in a bit
Examples from Chapter 11

https://sainsworth418.cs.odu.edu/~sainsworth/textbook/ch11.htm

- My First Email
- Using a Form to Send Email
SENDING HTML EMAIL

If you don't specify that your email is HTML formatted, your mail reader will interpret it as plain text.

- send HTML email with previous form-based code
E-MAIL MESSAGE FORMAT
MIME — MULTIMEDIA MAIL EXTENSIONS
(RFC 2045, 2056)
SMTP requires all data to be 7-bit ASCII characters
  • All non-ASCII data must be encoded as ASCII strings

Additional lines in the message header declare MIME content type

- MIME version
- Method used to encode data
- Multimedia data type, subtype, parameter declaration
- ASCII encoded data
- base64 encoded data

```
From: alice@crepes.fr
To: bob@hamburger.edu
Subject: Picture of yummy crepe.
MIME-Version: 1.0
Content-Transfer-Encoding: base64
Content-Type: image/jpeg

base64 encoded data ......
...........................
......base64 encoded data
```
MIME MULTIMEDIA MAIL
EXTENSIONS

MIME TYPES

**Text**
- Subtypes: plain, html

**Image**
- Subtypes: jpeg, gif

**Audio**
- Subtypes: basic (8-bit μ-law encoded), 32kadpcm (32 kbps ADPCM)

**Video**
- Subtypes: mpeg, quicktime

**Application**
- Other data that must be processed by reader before it is "viewable"
- Subtypes: msword, octet-stream

Content-Type: <type>/<subtype>[; <parameters>]

Content-Type: text/plain; charset=us-ascii

Content-Type: application/pdf; filename=foo.pdf
$to = "myemail@cs.odu.edu";
$subject = "My subject line";
$message = "<h1>If I could</h1>";
$message .= "<b>think</b>";
$message .= "<i> of a msg</i>";
$message .= "<pre> I would put it here.</pre>";
$headers = "MIME-Version: 1.0\r\n";
$headers .= "Content-type: text/html; charset=iso-8859-1\r\n";
$headers .= "Content-Transfer-Encoding: 7bit\r\n";
mail($to, $subject, $message, $headers);
Examples from Chapter 11

https://sainsworth418.cs.odu.edu/~sainsworth/textbook/ch11.htm

• Sending HTML Email
SENDING HTML AND TEXT EMAIL

What if you want to send both HTML and plain text in the same email?

What if you want to send text and an image in the same email?

Multipart MIME
MULTIPART MESSAGES

From: alice@crepes.fr
To: bob@hamburger.edu
Subject: Picture of yummy crepe.
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary=98766789

--98766789
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain

Dear Bob,
Please find a picture of a crepe.
--98766789
Content-Transfer-Encoding: base64
Content-Type: image/jpeg

base64 encoded data ....
.........................
......base64 encoded data
--98766789--
MULTIPART MESSAGES

From: alice@crepes.fr
To: bob@hamburger.edu
Subject: Picture of yummy crepe.
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary=98766789

--98766789
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain

Dear Bob,
Please find a picture of a crepe.
--98766789
Content-Transfer-Encoding: base64
Content-Type: image/jpeg

base64 encoded data ......
..........................
......base64 encoded data
--98766789--
DEMO/WALKTHROUGH

TIME

Examples from Chapter 11

https://sainsworth418.cs.odu.edu/~sainsworth/textbook/ch11.htm

• Sending Multipart Messages
• Sending Confirmation Emails
OUTLINE
Simple (Text) Email

HTML Email

Multipart Email

Up Next: Images
Reading: Ch 7