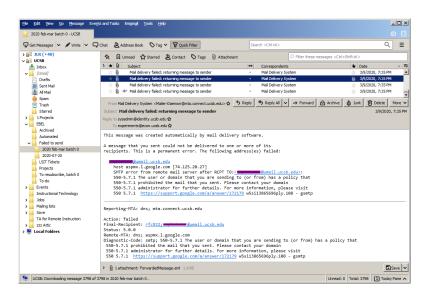
How to take action on returned emails in ORSEE

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UCSB

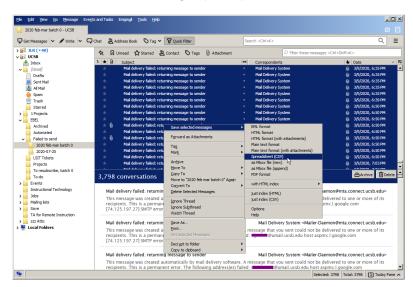
3 August 2020

An example of a failed email that was returned



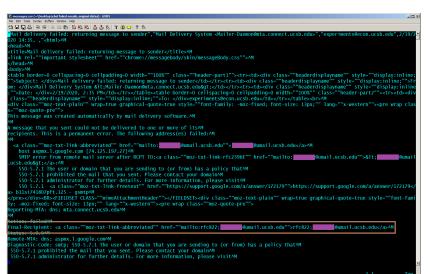
Export emails as a single CSV file

► Mozilla Thunderbird using ImportExportTools Add-on



Open CSV file in gVim

- ▶ The line in the brown box is one-to-one with the set of emails
- We will extract the email address from this line in each returned email



Regular expressions in gVim

- ▶ Type a colon (:) to begin a command
- ► Type command %g!/Final-Recipient:/d
- Press return to execute
- Explanation:
 - ► Globally (%g), if not (!) match Final-Recipient:, delete (d)

```
550-5.7.1 The user or domain that you are sending to (or from) has a policy that M
    550-5.7.1 prohibited the mail that you sent. Please contact your domain^M
    550-5.7.1 administrator for further details. For more information, please visitAM
    550 5.7.1 <a class=""moz-txt-link-freetext"" href=""https://support.google.com/a/answer/172179"">https://support.google.com/a/answer/172179</

    b11si741807pft.125 - gsmtpAM

/pre></div>/pre></div>/pre></div>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pre>/pr
v: -moz-fixed: font-size: 13px:"" lang=""x-western"">
eporting-MTA: dns: mta.connect.ucsb.edu^M
 nal-Recipient: <a class=""moz-txt-link-abbreviated"" href=""mailto:rfc822:
                                                                                                                                                @umail.ucsb.edu"">rfc822:
                                                                                                                                                                                                          @umail.ucsb.edu</a>/
 emote-MTA: dns: aspmx.l.google.com^M
 agnostic-Code: smtp: 550-5.7.1 The user or domain that you are sending to (or from) has a policy that M
550-5.7.1 prohibited the mail that you sent. Please contact your domain^M
550-5.7.1 administrator for further details. For more information, please visitAM
 q!/Final-Recipient:/d
```

Regular expressions in gVim

► Here is the result



Regular expressions in gVim

- ▶ Type a colon (:) to begin a command
- ➤ Type command
 %s/Final-Recipient:.*""mailto:rfc822;\(.*\)"".*/\1/g
- Press return to execute
- Explanation:
 - Search (%s) for
 Final-Recipient:.*""mailto:rfc822;\(.*\)"".*
 and replace it with \1 globally (g)
 - .* matches any number of characters
 - ▶ \(and \) group characters subsequently recalled as \1 (the first group)



Resultant file of undeliverable email addresses



- Save and exit gVim with :x and return
- Use Unix-like commands to count the number of lines:

```
$ cat messages.csv | wc -1 3789
```

Also find how many lines are unique:

```
$ sort -u messages.csv | wc -1
709
```

- Okay, many duplicates here.
- Sort the lines, keep only unique lines, and pipe to a new file:

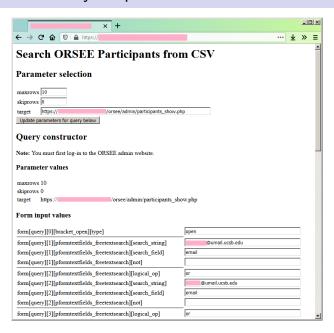
```
$ sort -u messages.csv > messages-unique.csv
```

▶ Move the resultant file to the same directory as our utility script

Using the PHP utility script

- The script reads your CSV file and populates an HTML form
- ▶ The form will post to the ORSEE web address you specify
- Make sure you login to ORSEE so that the search query works!
- ▶ Use the *maxrows* and *skiprows* variables to select specific rows
- ightharpoonup ORSEE can only accept 1000 form variables at once (assuming default PHP configuration on the ORSEE server), so keep maxrows < 248
- An example:
 - ► Suppose I have 620 email addresses in my CSV file
 - ▶ Choosing maxrows = 200 and skiprows = 0 obtains rows 1–200
 - ightharpoonup Choosing maxrows = 200 and skiprows = 200 obtains rows 201–400
 - ightharpoonup Choosing maxrows = 220 and skiprows = 400 obtains rows 401–620
 - ▶ These three searches will span my entire list of 620 email addresses

PHP utility script



ORSEE search results

