

Two new features in the {emayili} (0.4.6) package for easily sending emails from R.

Package Setup

If you have not already installed the package, then grab it from [CRAN](#) or [GitHub](#).

```
# From CRAN.  
install.packages("emayili")  
# From GitHub.  
remotes::install_github("datawookie/emayili")
```

Load the package.

```
library(emayili)
```

Check that you have the current version.

```
packageVersion("emayili")  
[1] '0.4.6'
```

Let's quickly set up an SMTP server. We'll use [SMTP Bucket](#), which is incredibly convenient for testing.

```
SMTP_SERVER = "mail.smtpbucket.com"  
SMTP_PORT = 8025
```

```
smtp <- server(host = SMTP_SERVER, port = SMTP_PORT)
```

UTF-8 Characters in Attachment Filenames

It's now possible to attach files with names that include non-ASCII characters. Suppose I wanted to send this image ([source](#)) of Wenceslao Moreno.



The file name contains an accented character, ñ.

```
ACCENTED_ATTACHMENT <- "señor-wences.jpg"
```

Attaching this file now works thanks to a contribution from [Philipp Hallmeier](#).

```
# Create email and add attachment.
#
email <- envelope(
  from = "alice@gmail.com",
  to = "bob@gmail.com",
  subject = "Wenceslao Moreno"
) %>%
  attachment(ACCENTED_ATTACHMENT)

# Send it!
#
smtp(email)
```

Heading over to SMTP Bucket I can inspect the structure of the received email.

```
Date:          Sat, 06 Mar 2021 03:57:22 GMT
To:            bob@gmail.com
From:          alice@gmail.com
Subject:       Wenceslao Moreno
X-Mailer:      {emayili}-0.4.6
MIME-Version:  1.0
Content-type:  multipart/mixed; boundary="3322251652a271341525323233"

--3322251652a271341525323233
Content-Type:  image/jpeg
Content-Disposition: attachment; filename*=utf-8''se%C3%B1or-wences.jpg
Content-Transfer-Encoding: base64

/9j/4AAQSkZJRgABAQEASABIAAD/4GBJRmlsZSBzb3VyY2U6IGh0dHA6Ly9
jb21tb25zLndpa2lt
ZWRpYS5vcmcvd2lraS9GaWxlOlNlbn9yd2VuY2VzMtKzNS5qcGf/
2wBDAAYEBQYFBAYGBQYHBWYI
ChAKCgkJChQODWwQFfQYGBcUFhYaHSUfGhshJHBYWICwgIyYnKSopGR8tMC0o
MCUoKSj/2wBDAQcH
BwoICMKChMoGhYaKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgo
KCgoKCgoKCgoKCgo
KCgoKCj/wAARCAAFABYDAREAAhEBAxEB/8QAGAAAwEBAIAAAAAAAAAAAAwY
IBWt/xAAAEAAC
AQMDAwQDAQAAAAAAAAABAgMEBREABiEHEkETIjFRYXGBI//
EABkBAAMAAwAAAAAAAAAAAAAAAAAED
BAACBf/EAB8RAAMAAgEFAQAAAAAAAAAAAAAAAAABAgMRMRiHijJRYf/
aAAWDAQACEQMRAD8AcNn9Wp91
Xmtjtu2Xa00sqxyzmoUSqrE4fsI5HGSAePzqXI1Hsxs7rg0yaijpux1LdgOA
oLE4/raxVsDC0cMb
IWU96nGB7hj986OwJfpiVFum10dgo9wzJJLZqv03lmhYI8ZHsaNwCCxU+
PIxjPxpDwt3rfcasiUj
Zunq/tmmsFwalX6mW6JF/hHJE+e9hlcqRnyM/XnnjTJit8C9oN0wue57qk9Rf0isFlB
jf0DA5bgn
KZ5U54bj45Gj1TwmZomjo8Ke/wA0+z7vUxRUVVPFWweswCiaNgGQZ8vGWX9
gaZmTznk1jT7MoWs
```

```
6YbbqqyTcNyo3muQAlSMTkRx9vK4UcE+SOQST8+Y1ncx0bHuVVbGuz1TVjLJTuz9seOQR
9ffzqeJ
pU9Gz0QdPSNR1MQmcdRYYMnPGfnBxrtkZb2zK2Su6f2WWqmaSpqLdC0kj5JZ
mjGSf6dcHL45Hr6W
T6o7tppNEMTwehiFQQXDe7JyBj9Dn86pxtU20wUz/9k=

--3322251652a271341525323233--
```

We can confirm that the file name has been encoded correctly too. You'll find the file name on the Content-Disposition line above.

```
URLdecode("se%C3%Blor-wences.jpg")
[1] "señor-wences.jpg"
```

Note: I actually sent a scaled version of the image!

Setting Sender Field

Sometimes the person who is sending the email is actually sending it on behalf of somebody else. Thanks to [Robert Overman](#) it's now possible to do this using the `sender()` function.

```
# Create email and specify the sender.
#
email <- envelope(
  to = "bob@gmail.com",
  subject = "Hi"
) %>%
  text("Hi Bob, it's Alice. I asked Craig to send this email.") %>%
  #
  # Craig is sending the message...
  #
  sender("craig@gmail.com") %>%
  #
  # ... but it's actually from Alice.
  #
  from("alice@gmail.com")

# Send it!
#
smtp(email)
```

This is what the resulting message looks like:

```
Date: Sat, 06 Mar 2021 04:13:50 GMT
To: bob@gmail.com
Subject: Hi
Sender: craig@gmail.com
From: alice@gmail.com
X-Mailer: {emayili}-0.4.6
MIME-Version: 1.0
Content-type: multipart/mixed; boundary="972f1d1f191e162e2320162ef182"

--972f1d1f191e162e2320162ef182
```

Content-Type: text/plain; charset=utf-8
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Hi Bob, it's Alice. I asked Craig to send this email.

--972f1d1f191e162e2320162ef182--

In practice the `Sender` field would most often be used when a mail agent (with its own SMTP credentials) is sending messages on behalf of users.