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

# Package Setup

# From CRAN. install.packages("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"

# Create email and add attachment. #

email <- envelope(

from = "[alice@gmail.com](mailto:alice@gmail.com)", to = "[bob@gmail.com](mailto: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](mailto:bob@gmail.com)

From: [alice@gmail.com](mailto: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//gBJRmlsZSBzb3VyY2U6IGh0dHA6Ly9

jb21tb25zLndpa2lt ZWRpYS5vcmcvd2lraS9GaWxlOlNlbm9yd2VuY2VzMTkzNS5qcGf/ 2wBDAAYEBQYFBAYGBQYHBwYI

ChAKCgkJChQODwwQFxQYGBcUFhYaHSUfGhsjHBYWICwgIyYnKSopGR8tMC0o MCUoKSj/2wBDAQcH BwoIChMKChMoGhYaKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgo KCgoKCgoKCgoKCgo KCgoKCj/wAARCAAfABYDAREAAhEBAxEB/8QAGAAAAwEBAAAAAAAAAAAAAAAAAwY

IBwT/xAAnEAAC AQMDAwQDAQAAAAAAAAABAgMEBREABiEHEkETIjFRYXGBI// EABkBAAMAAwAAAAAAAAAAAAAAAAED BAACBf/EAB8RAAMAAgEFAQAAAAAAAAAAAAABAgMRMRIhIjJRYf/ aAAwDAQACEQMRAD8AcNn9Wp91

Xmtjtu2Xa00sqxyzmoUSqrE4fsI5HGSAePzqXI1Hsxs7rg0yaijpux1LdgOA oLE4/raxVsDC0cMb IWU96nGB7hj986OwJfpiVFum10dgo9wzJJLZqv03lmhYI8ZHsaNwCCxU+ PIxjPxpDwt3rfcasiUj Zunq/tmmsFwa1X6mW6JF/hHJE+e9hlcqRnyM/XnnjTJit8C9oN0wue57qk9Rf0iSFlB jf0DA5bgn KZ5U54bj45Gj1TwmZomjo8Ke/wA0+z7vUxRUVVPFWweswCiaNgGQZ8vGWX9 gaZmTnznk1jT7MoWs

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%B1or-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.

# Create email and specify the sender. #

email <- envelope(

to = "[bob@gmail.com](mailto: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](mailto:craig@gmail.com)") %>% #

# ... but it's actually from Alice. #

from("[alice@gmail.com](mailto: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](mailto:bob@gmail.com)

Subject: Hi

Sender: [craig@gmail.com](mailto:craig@gmail.com)

From: [alice@gmail.com](mailto: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.