

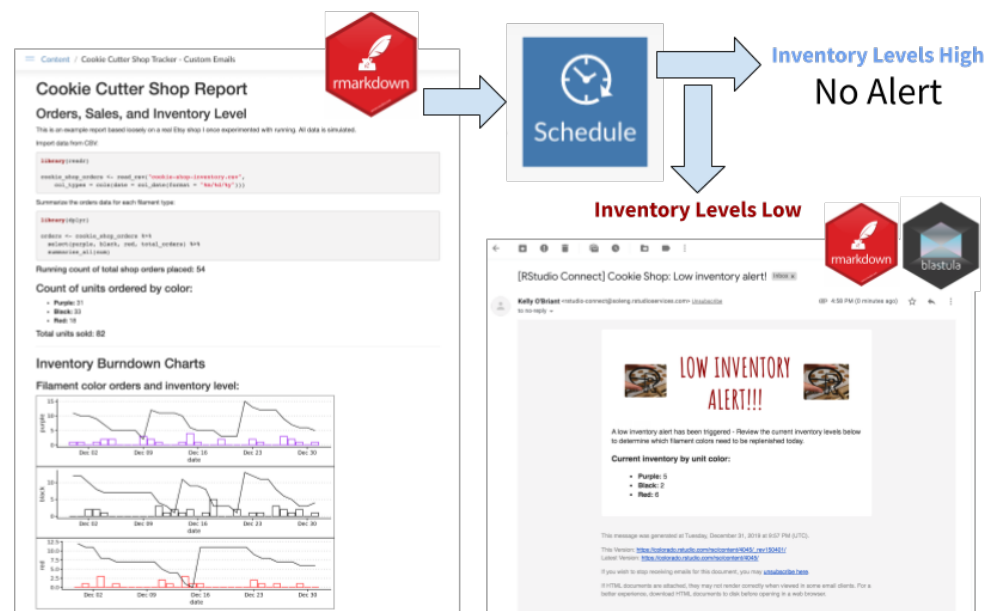
Correus-e via R en GenCat amb Blastula

Trobada analistes de dades de la Gencat a l'ACA^[1] (C/ Provença 260, BCN). Dll. 29/05/2023,
16:00-17:30h.

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[3]





Trobada analistes de dades

La idea és desvirtualitzar-nos, conèixer-nos, compartir informació... i després qui vulgui ens podem allargar i anar a prendre quelcom.
 Accés obert a partir de les 15h15. Entrant per la porta del carrer (Provença 260), just la primera sala a l'esquerra.

Taula de continguts de la mini-xerrada

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1. Cas d'ús

Enviar correus des de la xarxa informàtica de la Generalitat de Catalunya (servidors amb outlook i office365), via scripting quan es compleixen unes condicions del negoci basades en dades.

Cookie Cutter Shop Report Orders, Sales, and Inventory Level

This is an example report based loosely on a real Etsy shop I once experimented with running. All data is simulated.

Import data from CSV:

```
library(readr)
cookie_shop_orders <- read_csv("cookie-shop-inventory.csv",
  col_types = col_types_new("nc/nd/ny"))
```

Summarize the orders data for each filament type:

```
library(dplyr)
orders <- cookie_shop_orders %>%
  select(purple, black, red, total_orders) %>%
  summarise_all(n())
```

Running count of total shop orders placed: 54

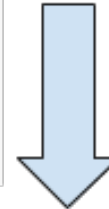
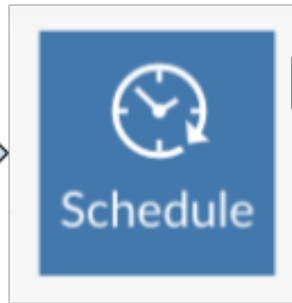
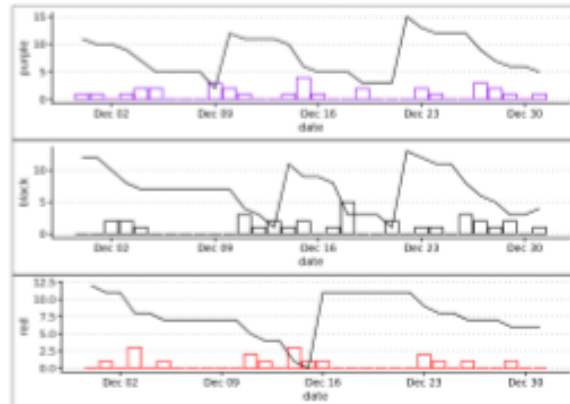
Count of units ordered by color:

- Purple: 31
- Black: 23
- Red: 10

Total units sold: 82

Inventory Burndown Charts

Filament color orders and inventory level:





Inventory Levels High
No Alert

Inventory Levels Low



[RStudio Connect] Cookie Shop: Low inventory alert!

Kelly O'Brian <rstudio-connect@soleng.rstudio.com> [unsubscribe](#)
to no-reply - 0P 4:50 PM (3 minutes ago) ☆ ↻ ⋮

 **LOW INVENTORY ALERT!!!** 

A low inventory alert has been triggered - Review the current inventory levels below to determine which filament colors need to be replenished today.

Current inventory by unit color:

- Purple: 5
- Black: 2
- Red: 0

This message was generated at Tuesday, December 31, 2019 at 9:07 PM (UTC).

This Version: https://colorado.rstudio.com/connections/4045_rev150481/
Latest Version: <https://colorado.rstudio.com/connections/4045/>

If you wish to stop receiving emails for this document, you may [unsubscribe here](#).

If HTML documents are attached, they may not render correctly when viewed in some email clients. For a better experience, download HTML documents to disk before opening in a web browser.

1.1. Exemple: posada a punt

Codi a Gitlab GenCat:

<https://git.intranet.gencat.cat/ceb/informes-en-r>^[5]

Cal escollir un sistema d'enviament de correus, entre les opcions:

- `create_smtp_creds_key()`
- `create_smtp_creds_file()`

amb els paràmetres:



```
create_smtp_creds_*( id,  
    user = NULL,  
    provider = NULL,  
    host = NULL,  
    port = NULL,  
    use_ssl = NULL,  
    overwrite = FALSE  
)
```

1.2. Crea clau smtp en configuració de sistema via nom proveïdor



```
# Creo la clau d'enviament de correus (i en windows) una vegada només
create_smtp_creds_key(
  id="foo_ceb",
  user = "foo@gencat.cat",
  provider = "office365",
  overwrite = FALSE
)
# The system key store has been updated with the "blastula-v1-foo_ceb" key with the `id` value "foo_ceb".
# * Use the `view_credential_keys()` function to see all available keys
# * You can use this key within `smtp_send()` with `credentials = creds_key("foo_ceb")`
```

1.3. Preparar objectes: gràfics ggplot2



```
p <- ggplot(mtcars, aes(x=wt, y=mpg, color=cyl, size=cyl)) +  
  geom_point() +  
  theme(legend.position="none")  
  
p1 <- ggExtra::ggMarginal(p, type="histogram")  
  
my_ggplot <- blastula::add_ggplot( p1 , width=5)
```

1.4. Preparar objectes: imatges



```
my_image <- blastula::add_image(file = system.file("img", "Rlogo.png", package="png"), width = 200)
```

1.5. Preparar objectes: taules



```
my_table_gt <- starwars %>% head() %>% gt() %>%  
  data_color(  
    columns = birth_year,  
    colors = scales::col_numeric(palette = "Blues", domain = range(0,800))  
  ) %>% as_raw_html()
```

1.6. Composar el missatge - opció 1: `compose_email()`

Opció 1: `compose_email(body=..., footer=...)`



```
correu_alerta1 <- blastula::compose_email(  
  body = md(glue::glue(  
    "Benvolgut/da, acció requerida!  
  
    Gràfic:  
    {my_ggplot}  
    Imatge:  
    {my_image}  
    Taula heatmap:  
    {my_table_gt}  
    ")),  
  footer = md(glue::glue("Correu enviat el {Sys.time()}."))  
)
```

1.7. Composar el missatge - opció 2: render_email()

Opció 2: `render_email(input=".Rmd")`



```
correu_alerta2 <- blastula::render_email(input = "Plantilla 2.Rmd")
```

1.8. Afegir adjunts (pdf, htmlwidgets, ...)



```
correu_alerta1 <- correu_alerta1 %>%  
  add_attachment(file = system.file('img', 'pexels-photo-267151.jpeg', package='blastula') ) %>% # Imatge via adjunt  
  add_attachment(file = system.file('examples', 'austin_home_sales.csv', package='blastula') ) %>% # CSV  
  add_attachment(file = system.file('doc', 'DT.html', package='DT') ) %>% # html autocontingut  
  add_attachment(file = system.file('legacy', 'examples', 'choropleth', 'Rplots.pdf', package='leaflet') ) # pdf
```

1.9. Enviar el correu



```
# L'adreça "from" ha de ser real i existir al correu de gencat.cat, i ha de coincidir amb l'usuari que ha creat el seu
"creds_key()" amb les seves credencials
correu_alerta |>
  blastula::smtp_send(
    to = "direccio@lameva.aapp.cat",
    cc = "jo@lameva.aapp.cat",
    from = "automatitzacions@lameva.aapp.cat",
    subject = "Reviseu Canvis - Informe setmanal",
    credentials = creds_key("foo_ceb")
  )
```

2. Resultats

Reviseu Canvis - Informe setmanal

Tradueix el missatge a: Català | No tradueixis mai de: Anglès

de Pedro Puente, Xavier
Per a: xdepedro@bcn.cat
A/c: de Pedro Puente, Xavier

Dj, 4/5/2023 9:30

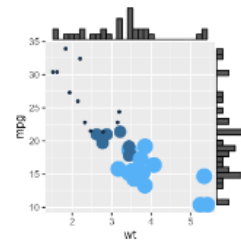


- austin_home_sales.csv 465 bytes
DT.html 321 KB
Rplots.pdf 43 KB

4 fitxers adjunts (460 KB) Desa-ho tot al OneDrive - Generalitat de Catalunya Descarrega-ho tot

Benvolguda, acció requerida!

Gràfic:



Imatge:



Taula heatmap:

Table with columns: name, height, mass, hair_color, skin_color, eye_color, birth_year, sex, gender, homeworld, species, vehicles, starships. Rows include Luke Skywalker, C-3PO, R2-D2, Darth Vader, Leia Organa, Owen Lars.

Exemple d'arxiu de codi R Markdown amb tot junt:

Blastula GenCat.Rmd ([Link^{\[6\]}](#))

3. Alternatives

Paquet d'R vius

Paquet	Versió
blastula	0.3.3
cleanrmd	0.1.0
emayili	0.7.13
juicyjuice	0.1.0
mailmerge	0.2.5
mailR	0.8 A

Títol

Easily Send HTML Email Messages

Clean Class-Less 'R Markdown' HTML Documents

Send Email Messages

Inline CSS Properties into HTML Tags Using 'juice'

Mail Merge Using R Markdown Documents and
'gmailr'

Utility to Send Emails from R

Descripció

Compose and send out responsive HTML email messages that render perfectly across a range of email clients and device sizes. Helper functions let the user insert embedded images, web link buttons, and 'ggplot2' plot objects into the message body. Messages can be sent through an 'SMTP' server, through the 'RStudio Connect' service, or through the 'Mailgun' API service .

A collection of clean 'R Markdown' HTML document templates using classy-looking classless CSS styles. These documents use a minimal set of dependencies but still look great, making them suitable for use a package vignettes or for sharing results via email.

A light, simple tool for sending emails with minimal dependencies.

There are occasions where you need a piece of HTML with integrated styles. A prime example of this is HTML email. This transformation involves moving the CSS and associated formatting instructions from the style block in the head of your document into the body of the HTML. Many prominent email clients require integrated styles in HTML email; otherwise a received HTML email will be displayed without any styling. This package will quickly and precisely perform these CSS transformations when given HTML text and it does so by using the JavaScript 'juice' library.

Perform a mail merge (mass email) using the message defined in markdown, the recipients in a 'csv' file, and gmail as the mailing engine. With this package you can parse markdown documents as the body of email, and the 'yaml' header to specify the subject line of the email. Any '{}' braces in the email will be encoded with 'glue::glue()'. You can preview the email in the RStudio viewer pane, and send (draft) email using 'gmail'.

Interface to Apache Commons Email to send emails from R.

Last release (at 2023-02)	License
2023-01-07	MIT + file LICENSE
2022-06-14	MIT + file LICENSE
2022-11-27	GPL-3
2022-11-10	MIT + file LICENSE
2022-08-14	MIT + file LICENSE
2021-12-03	GPL-3

URL

url^[7]

url^[8]

url^[9]

url^[10]

url^[11]

url^[12]

Microsoft365R	2.3.4
sendgridr	0.6.1
sendmailR	1.4-0

Interface to the 'Microsoft 365' Suite of Cloud
Services

Mail Sender Using 'Sendgrid' Service

Send Email Using R

An interface to the 'Microsoft 365' (formerly known as 'Office 365') suite of cloud services, building on the framework supplied by the 'AzureGraph' package. Enables access from R to data stored in 'Teams', 'SharePoint Online' and 'OneDrive', including the ability to list drive folder contents, upload and download files, send messages, and retrieve data lists. Also provides a full-featured 'Outlook' email client, with the ability to send emails and manage emails and mail folders.

Send email using 'Sendgrid' mail API(v3) . The goal of sendgridr is to mail using r with sendgrid service that provides free 100 mail per day forever.

Package contains a simple SMTP client with minimal dependencies which provides a portable solution for sending email, including file attachments and inline html reports, from within R. SMTP Authentication and SSL/STARTTLS is implemented using curl.

2022-03-16

MIT + file LICENSE

2022-11-06

MIT + file LICENSE

2023-01-12

GPL-2

url^[13]

url^[14]

url^[15]

4. Gràcies

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