Indicateurs de la Biodiversité

Andrew MacDonald 2020-06-19

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Chapter 1

Dependencies

```
library(rcoleo)
library(tidyverse)
library(lubridate)
```

Chapter 2

Download data

The only point here is to demonstrate the workflow for downloading data

```
# On retire les cellules (classe sf) depuis l'API
cells <- rcoleo::sf_cells()</pre>
obs <- rcoleo::get_obs()</pre>
sites_dl <- rcoleo::sf_sites()</pre>
# until there is a better way to obtain the data and parse the result (perhaps
# in the form of a convenience function in rcoleo) we do this:
obs_df <- obs[[1]] %>% map("body") %>% map_df(~ select(.x, -closed_at))
all_obs <- obs_df %>%
  select(cell_code, site_code, date_obs, type,
         taxa = obs_species.taxa_name,
         var = obs_species.variable,
         val = obs_species.value) %>%
  mutate(date_obs = lubridate::ymd(date_obs),
         # convert cover into pres/abs (right?)
         count = if_else(var == "recouvrement", 1, val))
# CELLULES: On compte le nombre d'observation/nombre espece par type, année et cellule
obs_cells <- all_obs %>%
  group_by(cell_code, date_obs, type) %>%
  summarise(n = sum(count)) %>%
  ungroup
sp_cells <- all_obs %>%
  select(cell_code, date_obs, type, taxa) %>%
 distinct() %>%
```

Chapter 3

Sites

Summary data about the different sites

```
obs_cells %>%
  ggplot(aes(x = cell_code, y = n)) + geom_point() +
  facet_wrap(~type, scales = "free_y")
```

Warning: Removed 1 rows containing missing values (geom_point).

