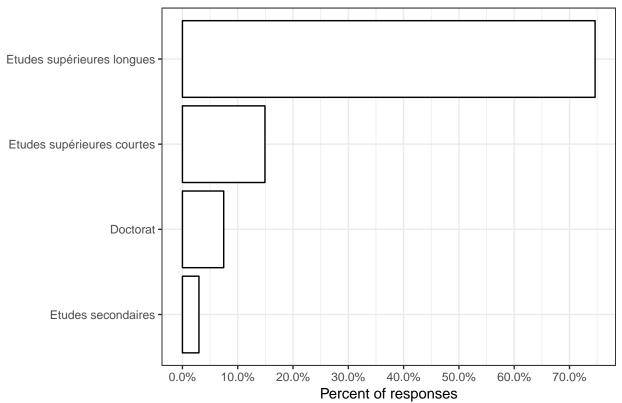
1-Visualize Data

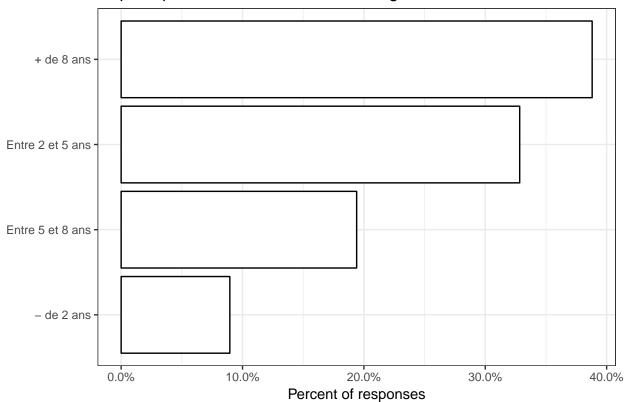
```
# packages
library(readr)
library(lubridate)
library(tidyverse)
library(knitr)
library(readxl)
# path
opts_knit$set(root.dir = normalizePath('../'))
opts_chunk$set(echo=FALSE, warning=FALSE, message=FALSE)
theme set(theme bw())
options(tibble.print_max = 80, tibble.print_min = 80)
"%ni%" <- Negate("%in%")
set_NA <- `is.na<-` #Function to add NAs columns</pre>
plot_factor <- function(data, column, tab_columns, order_factor_freq = TRUE ){</pre>
  # column = enquo(column)
  name = quo_name(column)
  if(order_factor_freq){
  data_tmp <- data %>%
    mutate(!! name := !!column %>% fct_infreq() %>% fct_rev()) %>%
    count(!! column) %>%
    mutate(prop = n/sum(n))
  } else
  data_tmp <- data %>%
    mutate(!! name := !!column) %>%
    count(!! column) %>%
    mutate(prop = n/sum(n))
  }
  data_tmp %>%
    ggplot(aes(!! column, prop)) +
    geom_col(color = "black", fill = "white") +
  scale_y_continuous(labels = scales::percent,breaks = seq(0,1,by = 0.1)) +
  labs(
    x = NULL
    y = "Percent of responses"
  ) +
  coord flip() +
    labs(title = tab_columns %>% filter(id == column) %>% pull(question))%>%
    return()
}
plot_logical <- function(data, column, data_options, tab_columns){</pre>
```

```
id_question <- data_options %>% filter(options == column) %>% pull(id)
  title <- tab_columns %>% filter(id == id_question) %>% pull(question)
  data_work %>%
    count(!!column) %>%
    mutate(prop = n/sum(n)) %>%
  ggplot(aes(x="", y=prop, fill=!! column)) +
    geom_bar(width = 1, stat = "identity") +
    coord_polar("y", start=0) +
    scale_y_continuous(labels = scales::percent, breaks = seq(0,1,by = 0.1)) +
    ggtitle(label = title) %>%
    return()
}
plot_logical_age <- function(data, column, data_options, tab_columns){</pre>
  id_question <- data_options %>% filter(options == column) %>% pull(id)
  if(identical(id_question, character(0)))
  {title <- tab_columns %>% filter(id == column) %>% pull(question)}
  else{title <- tab_columns %>% filter(id == id_question) %>% pull(question)}
  data_work %>%
    ggplot(aes(x=!! column, y= Q20)) +
    geom boxplot() +
    ggtitle(label = title) %>%
    return()
}
```

Quel est ton niveau d'études ?

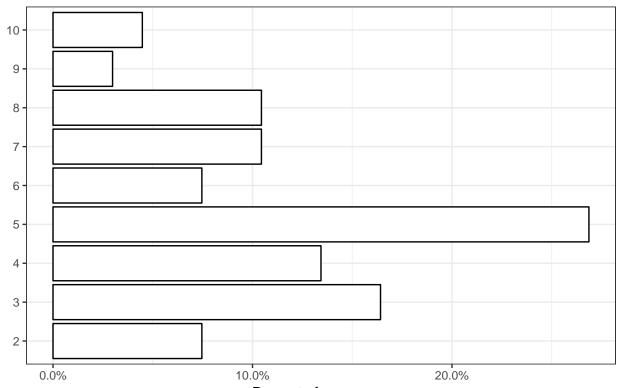


Depuis quand t'intéresses-tu à l'écologie ?



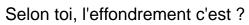
	Freq
+ de 8 ans	38.81
Entre 2 et 5 ans	32.84
Entre 5 et 8 ans	19.40
- de 2 ans	8.96

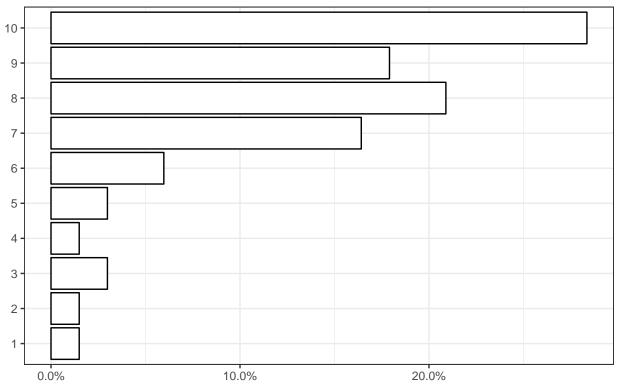
Quelle est ta position sur le nucléaire ?



Percent of responses

	Free
1	0.00
2	7.46
3	16.42
4	13.43
5	26.87
6	7.46
7	10.45
8	10.45
9	2.99
10	4.48

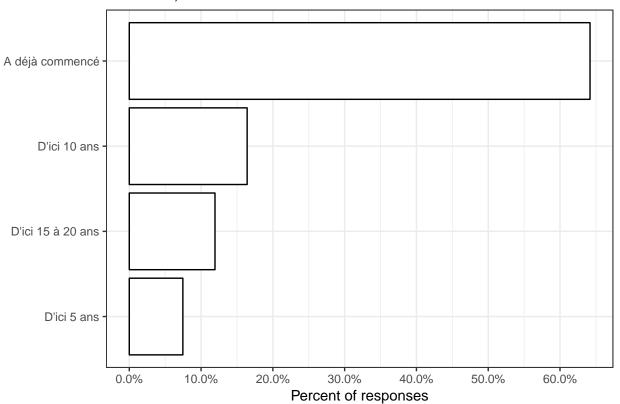




Percent of responses

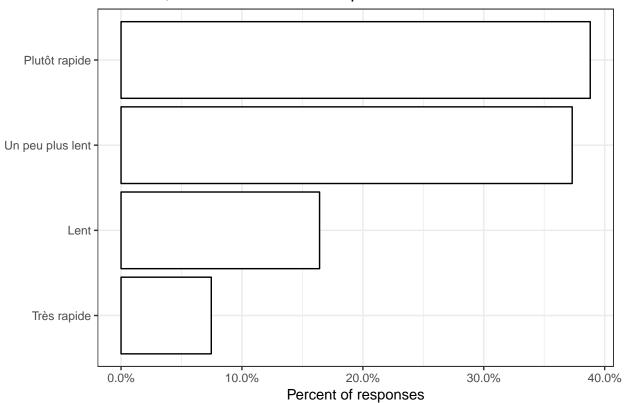
	Free
1	1.49
2	1.49
3	2.99
4	1.49
5	2.99
6	5.97
7	16.42
8	20.90
9	17.91
10	28.36

Selon toi, l'effondrement :

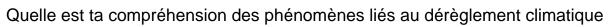


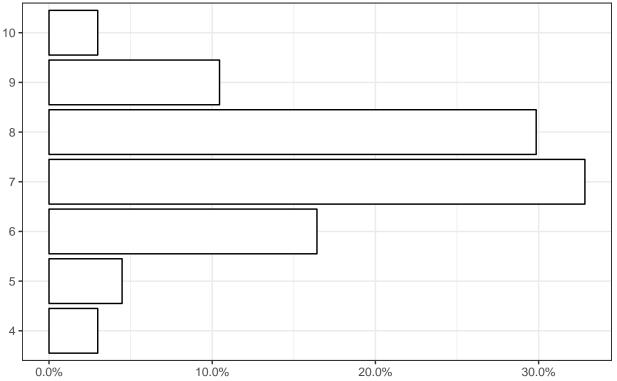
	Freq
A déjà commencé	64.18
D'ici 10 ans	16.42
D'ici 15 à 20 ans	11.94
D'ici 5 ans	7.46

Selon toi, l'effondrement sera un processus:



	Freq
Plutôt rapide	38.81
Un peu plus lent	37.31
Lent	16.42
Très rapide	7.46

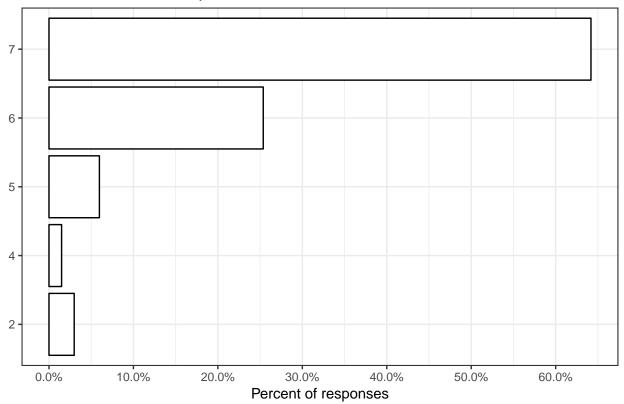




Percent of responses

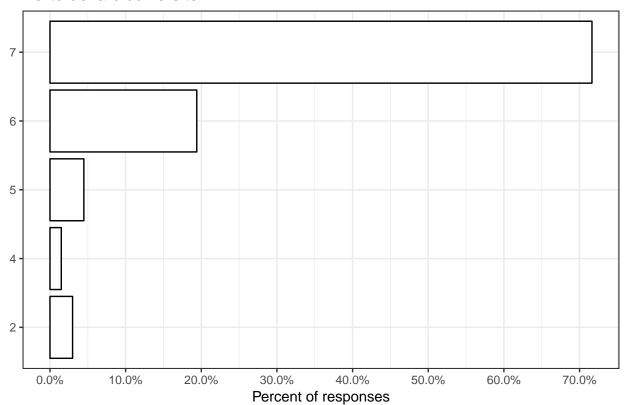
	Free
1	0.00
2	0.00
3	0.00
4	2.99
5	4.48
6	16.42
7	32.84
8	29.85
9	10.45
10	2.99
11	0.00

Réchauffement climatique



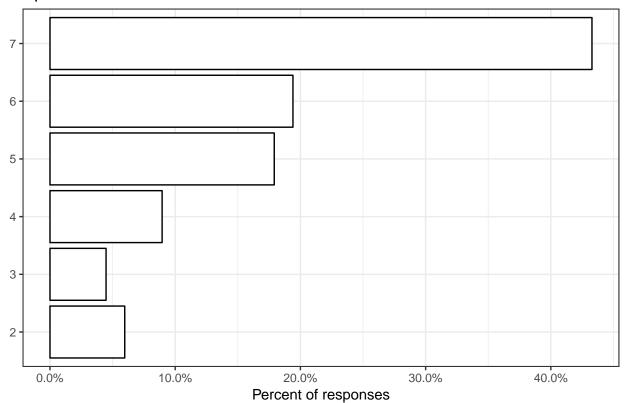
	Freq
1	0.00
2	2.99
3	0.00
4	1.49
5	5.97
6	25.37
7	64.18
_	

Perte de la biodiversité

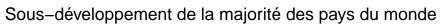


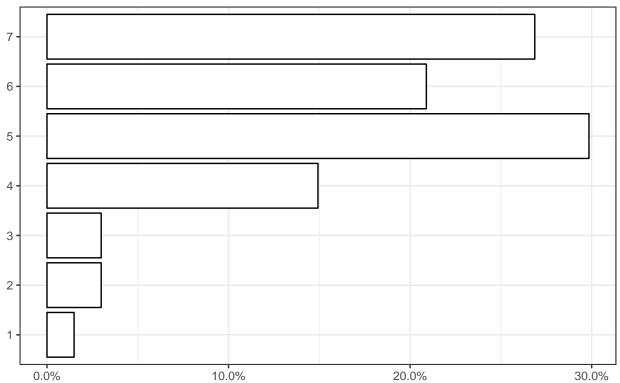
	Freq
1	0.00
2	2.99
3	0.00
4	1.49
5	4.48
6	19.40
7	71.64





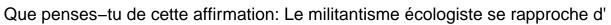
	Freq
1	0.00
2	5.97
3	4.48
4	8.96
5	17.91
6	19.40
7	43.28
_	

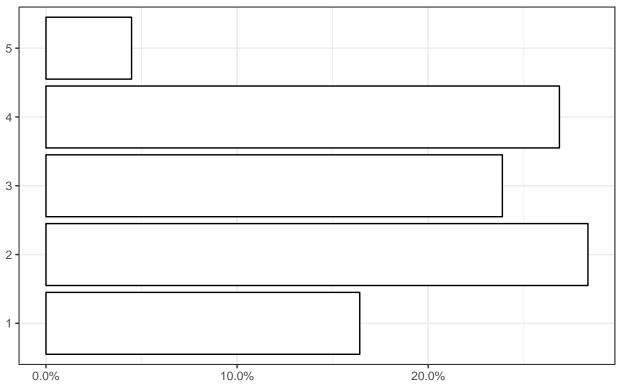




Percent of responses

	Free
1	1.49
2	2.99
3	2.99
4	14.93
5	29.85
6	20.90
7	26.87

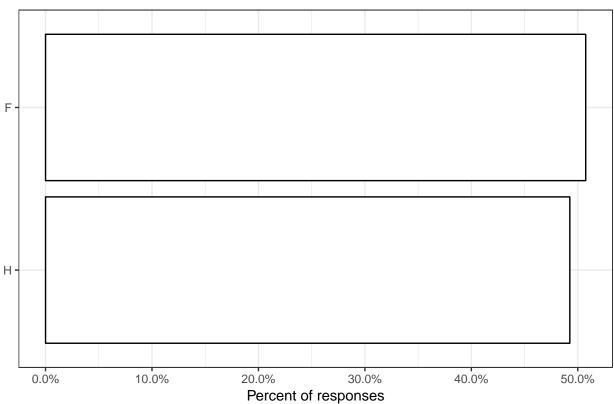




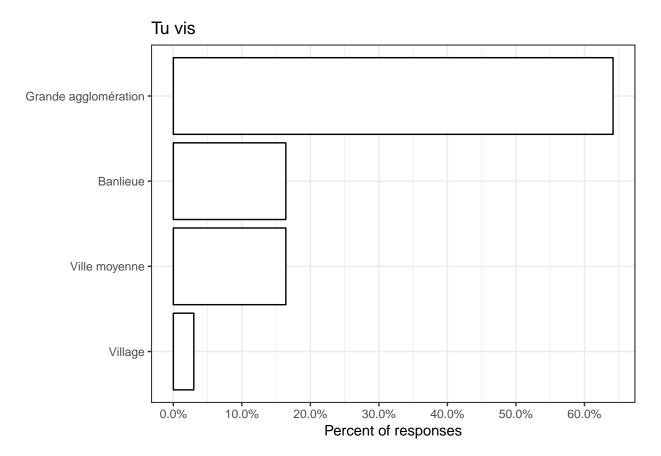
Percent of responses

	Freq
1	16.42
2	28.36
3	23.88
4	26.87
5	4.48



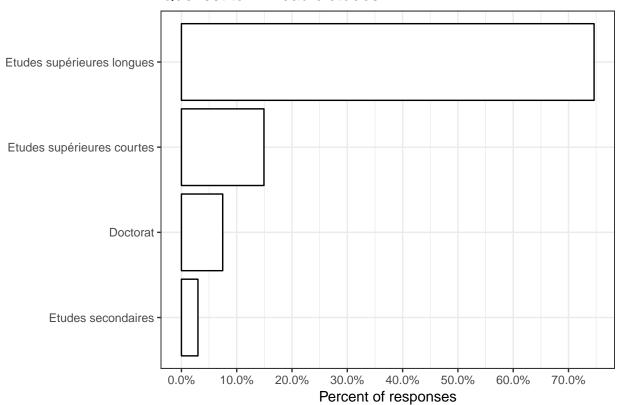


Freq F 50.75 H 49.25



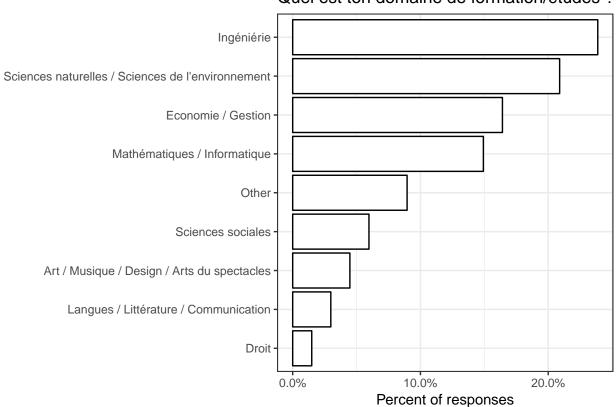
	Freq
Grande agglomération	64.18
Banlieue	16.42
Ville moyenne	16.42
Village	2.99

Quel est ton niveau d'études ?



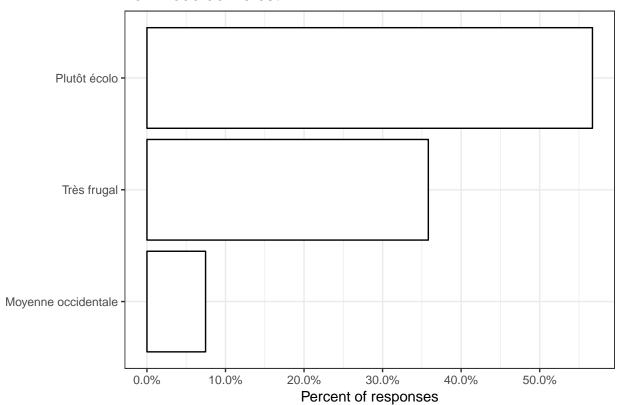
	Freq
Etudes supérieures longues	74.63
Etudes supérieures courtes	14.93
Doctorat	7.46
Etudes secondaires	2.99

Quel est ton domaine de formation/études ?



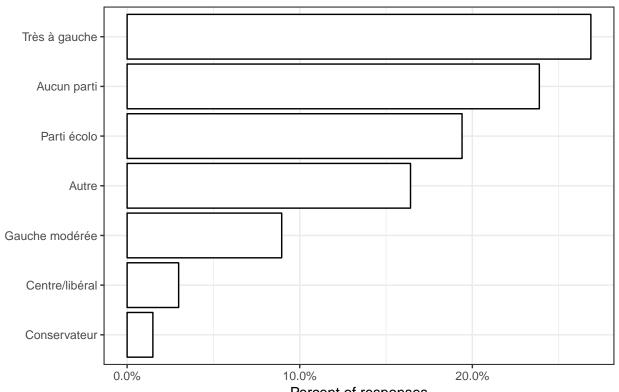
	Freq
Ingéniérie	23.88
Sciences naturelles / Sciences de l'environnement	20.90
Economie / Gestion	16.42
Mathématiques / Informatique	14.93
Other	8.96
Sciences sociales	5.97
Art / Musique / Design / Arts du spectacles	4.48
Langues / Littérature / Communication	2.99
Droit	1.49

Ton mode de vie est?



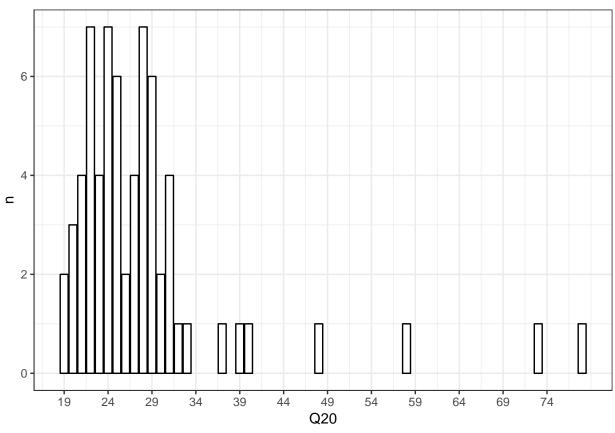
	Freq
Plutôt écolo	56.72
Très frugal	35.82
Moyenne occidentale	7.46

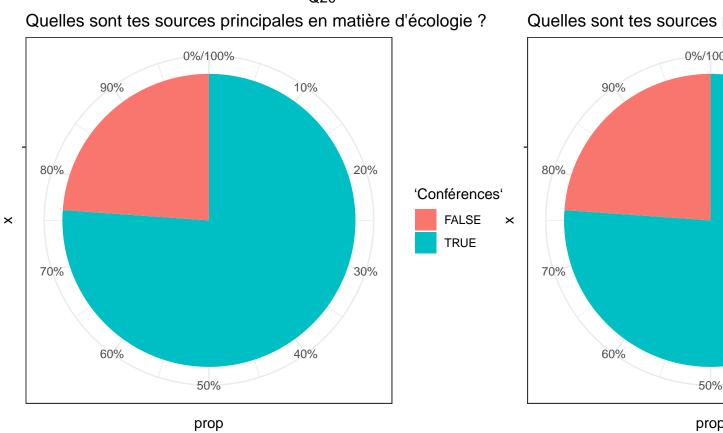
Quelle est ta proximité partisane ?

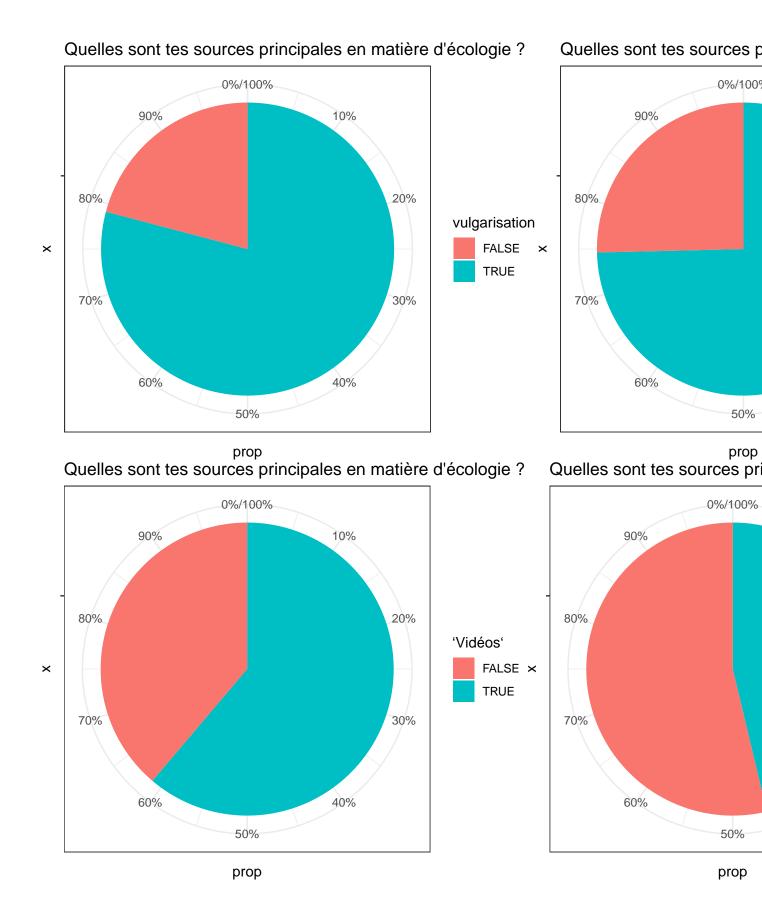


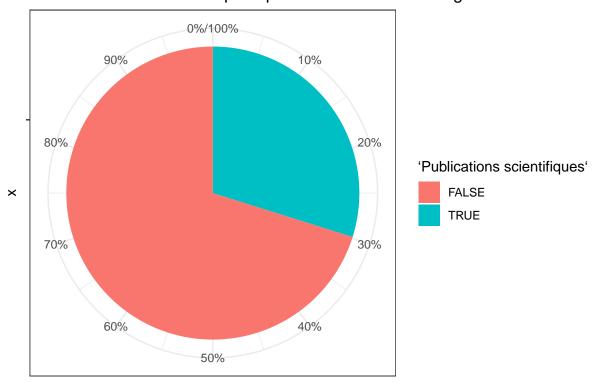
Percent of responses

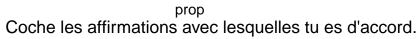
	Freq
Très à gauche	26.87
Aucun parti	23.88
Parti écolo	19.40
Autre	16.42
Gauche modérée	8.96
Centre/libéral	2.99
Conservateur	1.49

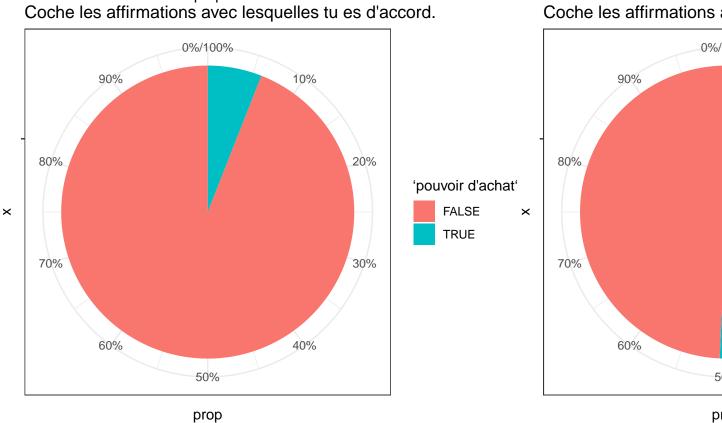




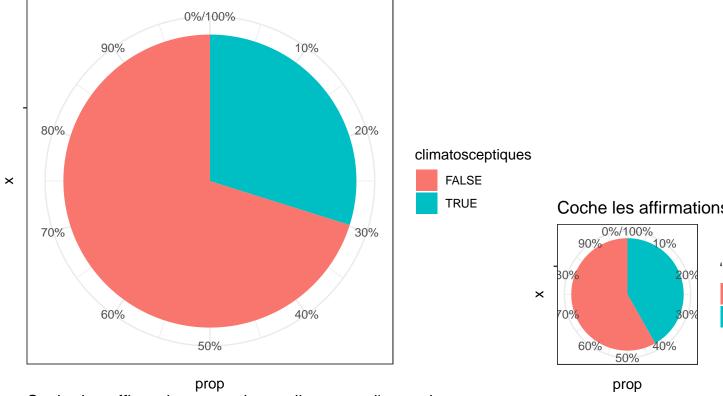




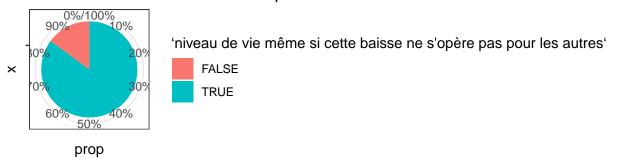


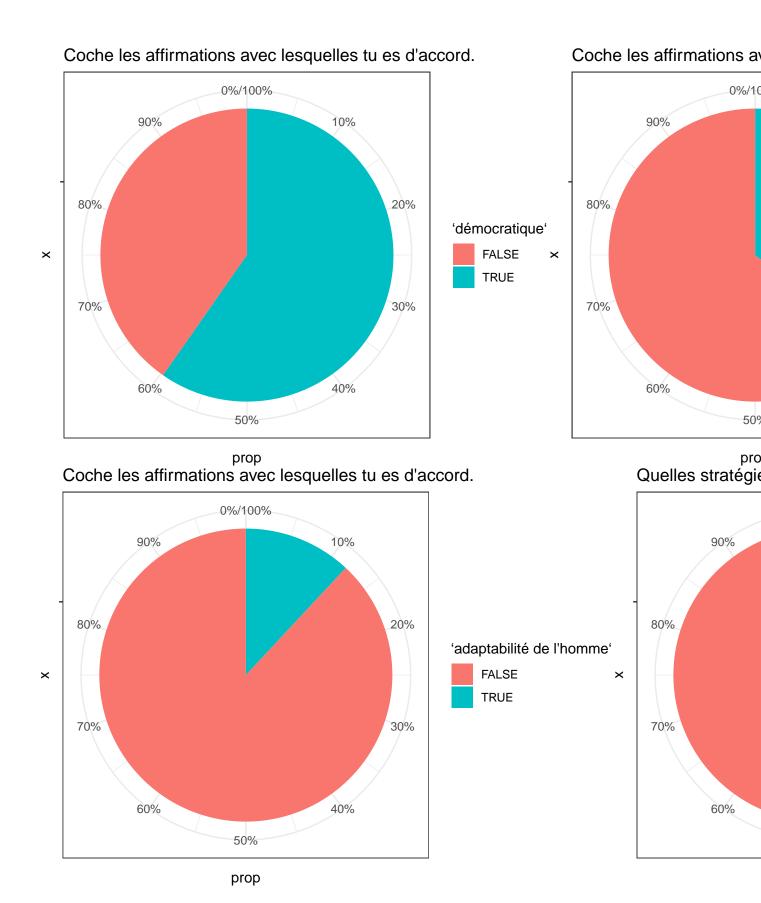


Coche les affirmations avec lesquelles tu es d'accord.

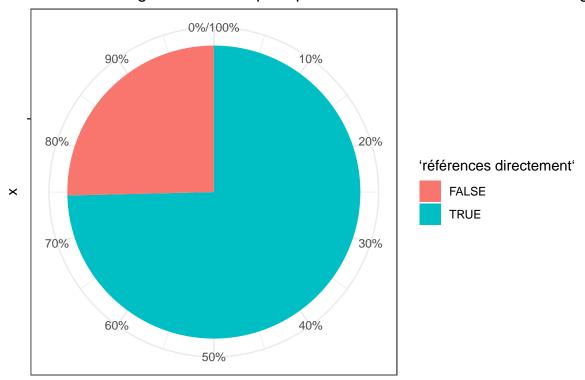


Coche les affirmations avec lesquelles tu es d'accord.

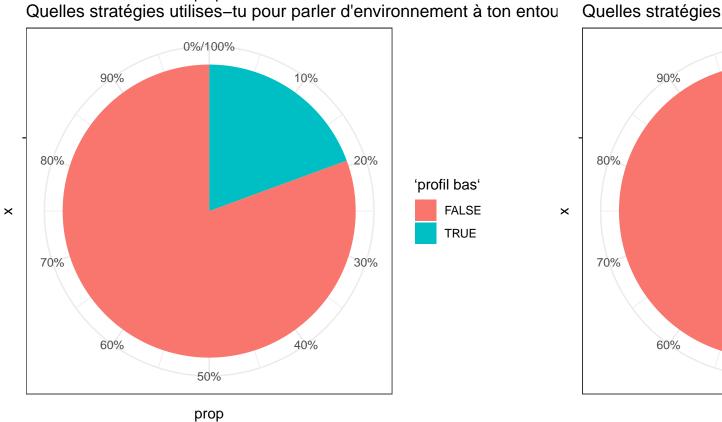


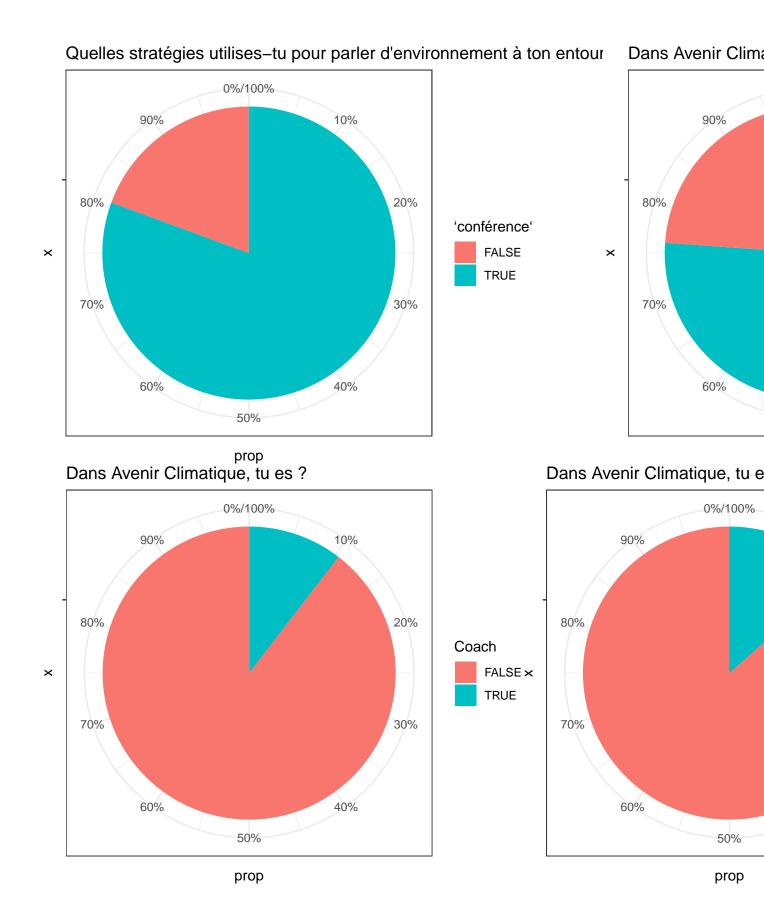


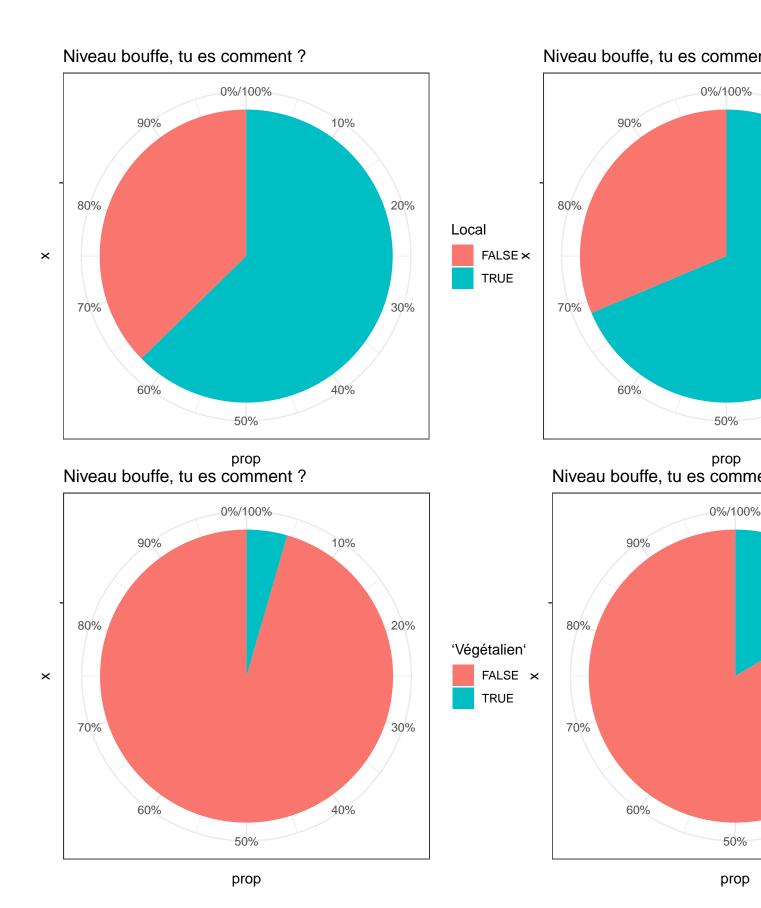
Quelles stratégies utilises-tu pour parler d'environnement à ton entourage '



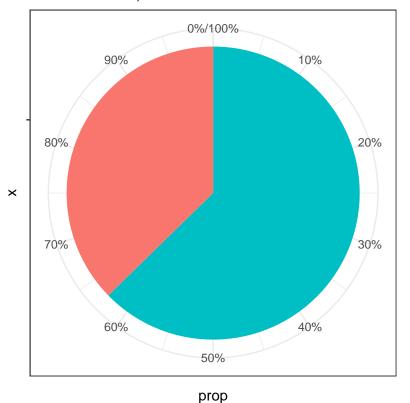
prop Quelles stratégies utilises-tu pour parler d'environnement à ton entou



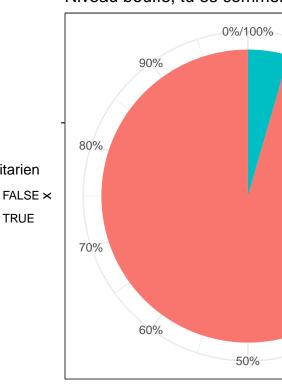




Niveau bouffe, tu es comment ?

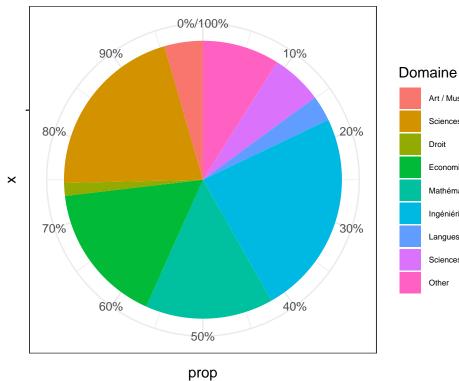


Niveau bouffe, tu es comme



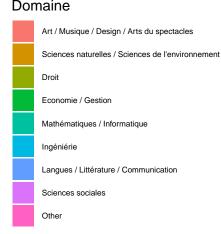
prop

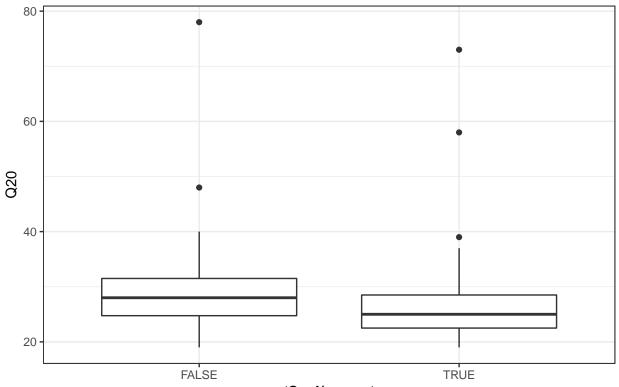
Répartition des différentes formations



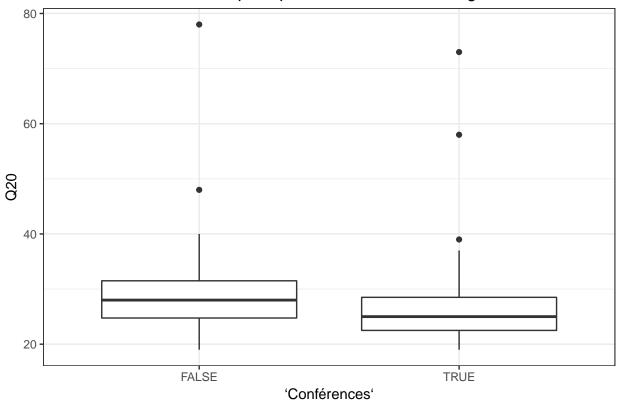
Flexitarien

TRUE



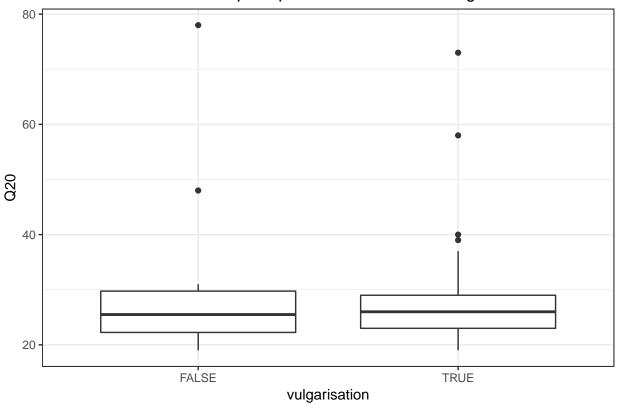


'Conférences'
Quelles sont tes sources principales en matière d'écologie ?

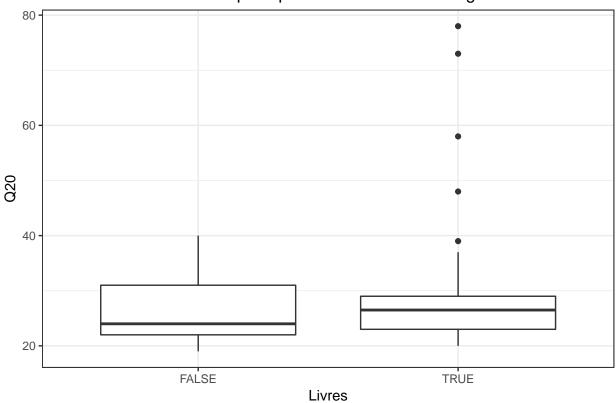


[1] "Conférences"

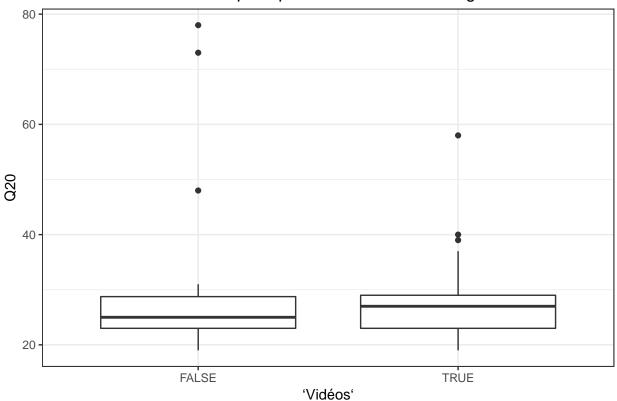
```
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.2309, df = 18.839, p-value = 0.2335
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -12.586855    3.268228
## sample estimates:
## mean of x mean of y
## 27.21569    31.87500
```



```
## [1] "vulgarisation"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.64083, df = 15.422, p-value = 0.531
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -11.854540 6.363974
## sample estimates:
## mean of x mean of y
## 27.75472 30.50000
```

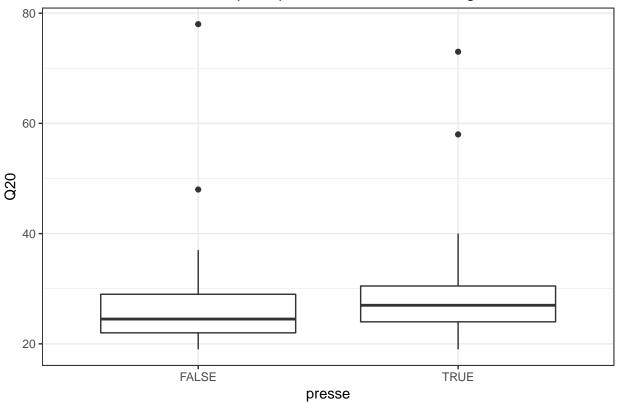


```
## [1] "Livres"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 1.2601, df = 56.391, p-value = 0.2128
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.606866 7.058631
## sample estimates:
## mean of x mean of y
## 29.02000 26.29412
```



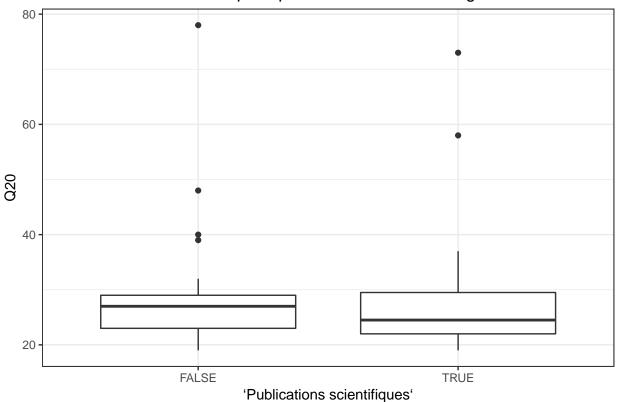
```
## [1] "Vidéos"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.81239, df = 32.418, p-value = 0.4225
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -8.696077 3.735477
## sample estimates:
## mean of x mean of y
```

27.36585 29.84615



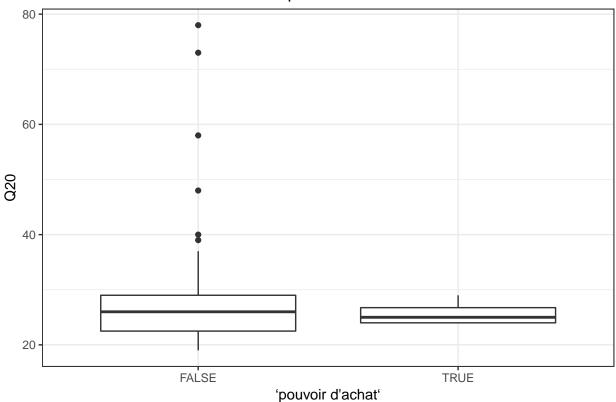
```
## [1] "presse"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 0.87378, df = 62.304, p-value = 0.3856
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -2.923423 7.464642
## sample estimates:
## mean of x mean of y
```

29.54839 27.27778



```
## [1] "Publications scientifiques"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 0.42108, df = 26.862, p-value = 0.677
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -5.365879 8.136092
## sample estimates:
## mean of x mean of y
## 29.30000 27.91489
```

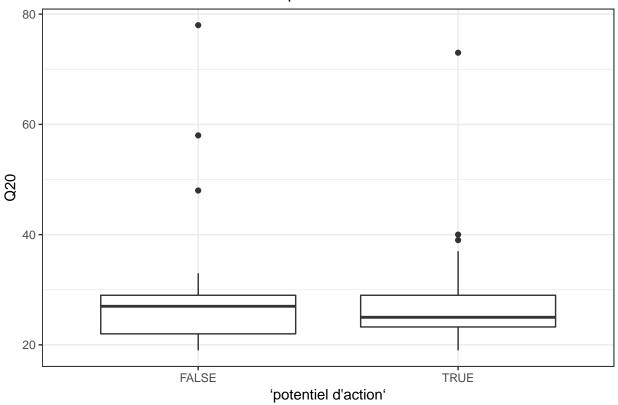
Coche les affirmations avec lesquelles tu es d'accord.



```
## [1] "pouvoir d'achat"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.5182, df = 15.081, p-value = 0.1496
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -6.589955 1.105828
## sample estimates:
## mean of x mean of y
## 25.75000 28.49206
```

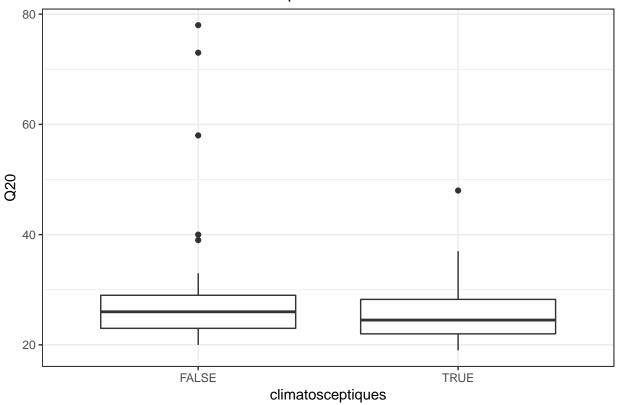
Coche les affirmations avec lesquelles tu es d'accord.

27.79412 28.87879

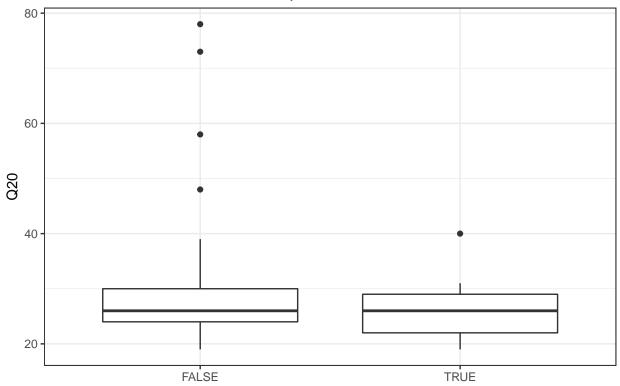


```
## [1] "potentiel d'action"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.41708, df = 61.456, p-value = 0.6781
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -6.284179 4.114838
## sample estimates:
## mean of x mean of y
```

26.50000 29.10638

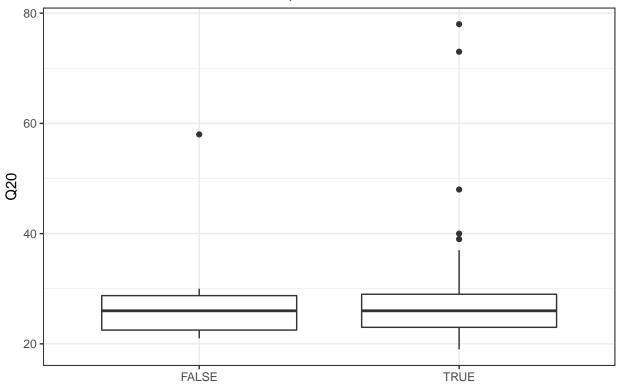


```
## [1] "climatosceptiques"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.1318, df = 58.25, p-value = 0.2623
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -7.215484 2.002718
## sample estimates:
## mean of x mean of y
```



'niveau de vie si cette baisse s'opère pour les autres également'

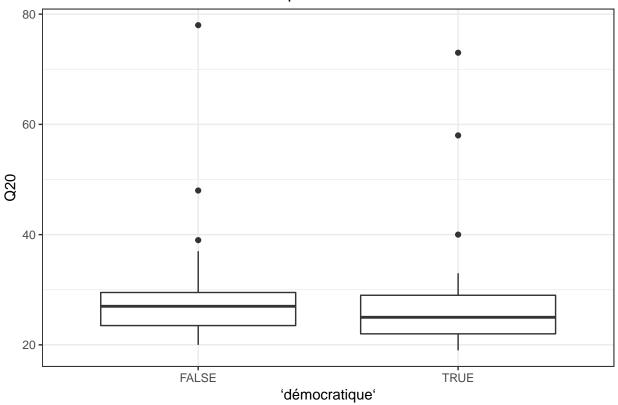
```
## [1] "niveau de vie si cette baisse s'opère pour les autres également"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.8188, df = 50.325, p-value = 0.0749
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -8.6748397  0.4294185
## sample estimates:
## mean of x mean of y
## 25.92857  30.05128
```



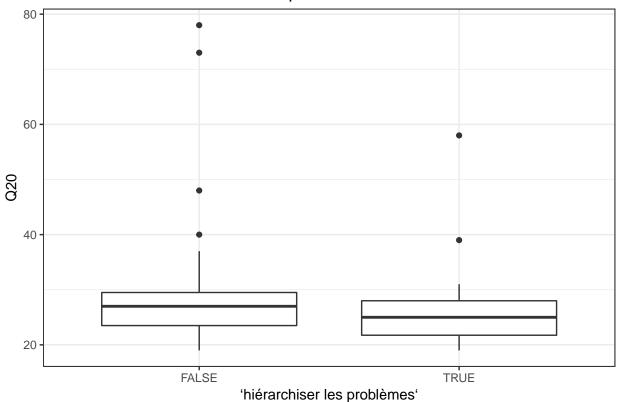
'niveau de vie même si cette baisse ne s'opère pas pour les autres'

```
## [1] "niveau de vie même si cette baisse ne s'opère pas pour les autres"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.086525, df = 12.244, p-value = 0.9324
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -8.341975 7.703379
## sample estimates:
## mean of x mean of y
## 28.2807 28.6000
```

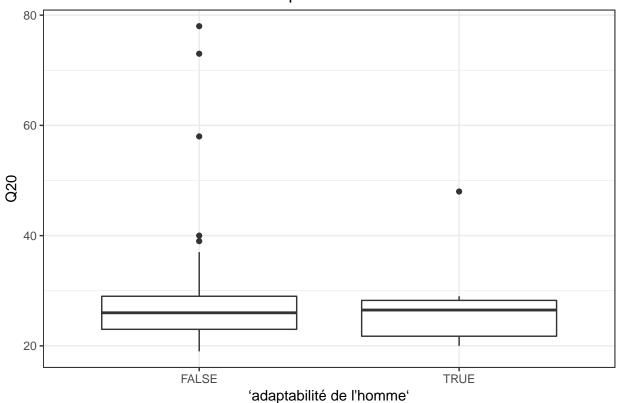
27.70000 29.25926



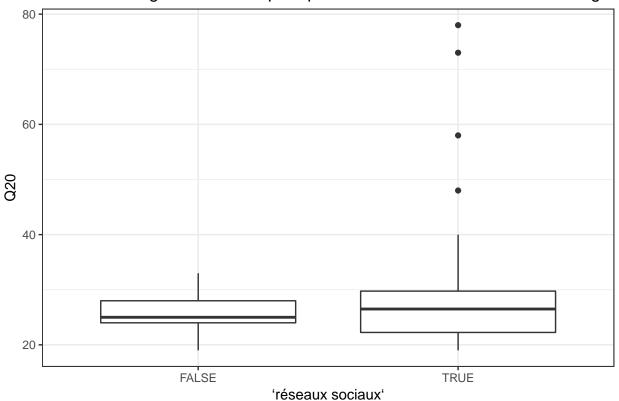
```
## [1] "démocratique"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.57389, df = 50.17, p-value = 0.5686
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -7.016076 3.897557
## sample estimates:
## mean of x mean of y
```



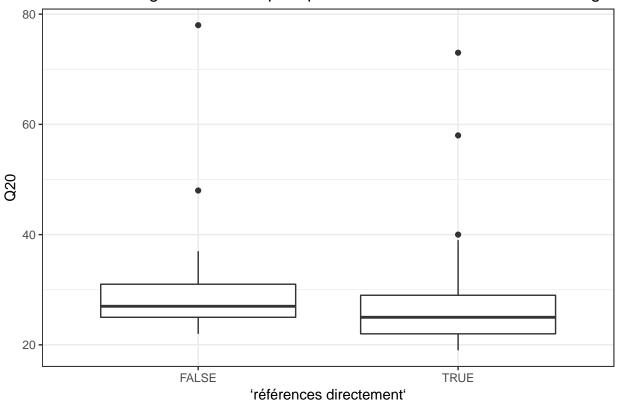
```
## [1] "hiérarchiser les problèmes"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.255, df = 61.667, p-value = 0.2142
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -7.891895 1.804685
## sample estimates:
## mean of x mean of y
## 26.3750 29.4186
```

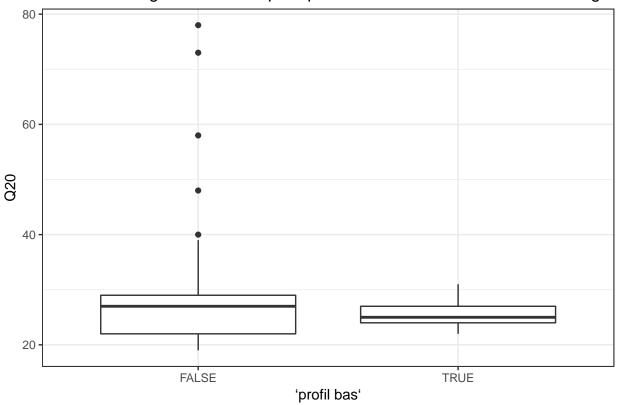


```
## [1] "adaptabilité de l'homme"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.23114, df = 10.01, p-value = 0.8219
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -8.497246 6.899788
## sample estimates:
## mean of x mean of y
## 27.62500 28.42373
```

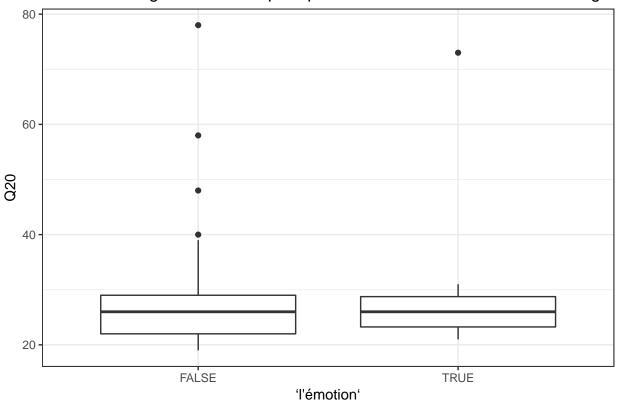


```
## [1] "réseaux sociaux"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 1.8358, df = 37.462, p-value = 0.07433
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.4736878    9.6501584
## sample estimates:
## mean of x mean of y
## 30.58824    26.00000
```

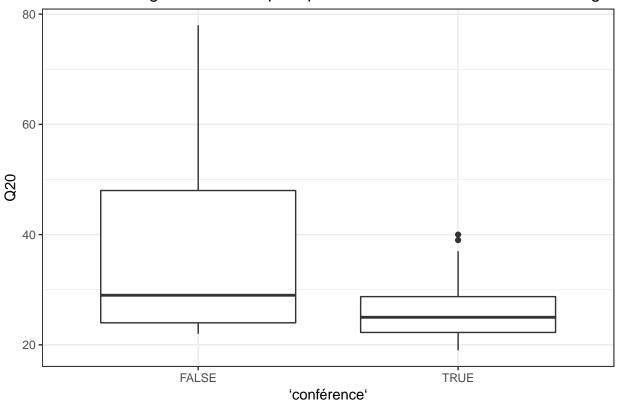




```
## [1] "profil bas"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.851, df = 64.858, p-value = 0.06873
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -6.7997387 0.2584282
## sample estimates:
## mean of x mean of y
## 25.69231 28.96296
```



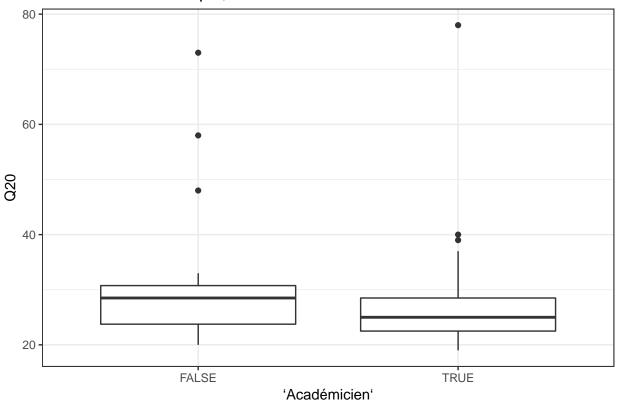
```
## [1] "l'émotion"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 0.32463, df = 17.226, p-value = 0.7494
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -6.647358 9.067843
## sample estimates:
## mean of x mean of y
## 29.28571 28.07547
```



```
## [1] "conférence"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -2.1595, df = 12.33, p-value = 0.05118
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -23.88021400    0.07109719
## sample estimates:
## mean of x mean of y
## 26.01852    37.92308
```

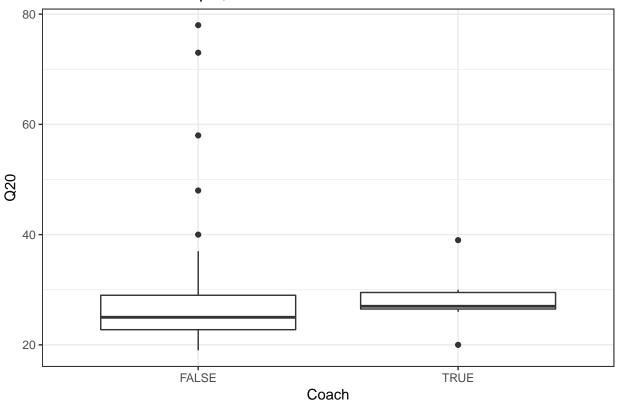
Dans Avenir Climatique, tu es?

27.01961 32.50000



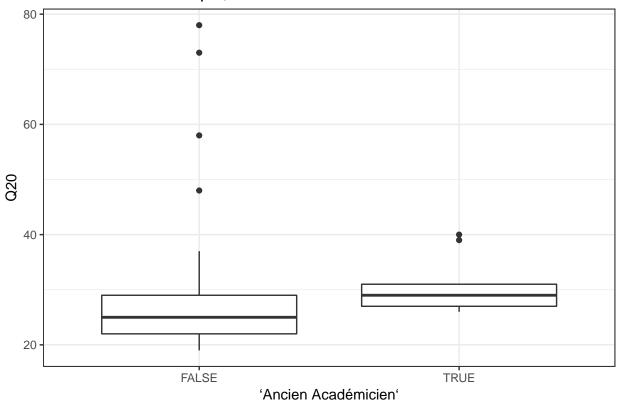
Dans Avenir Climatique, tu es?

28.28571 28.33333



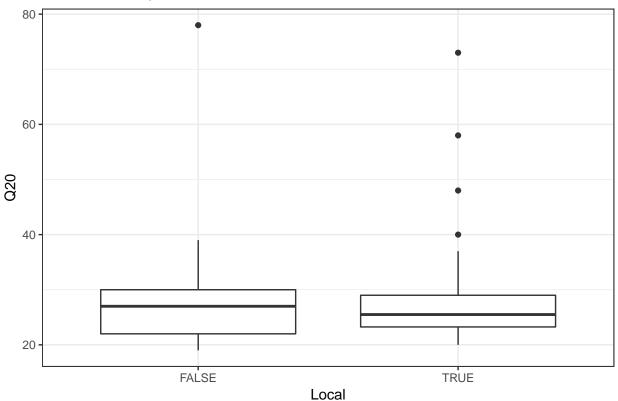
```
## [1] "Coach"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.018438, df = 12.097, p-value = 0.9856
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -5.669612 5.574374
## sample estimates:
## mean of x mean of y
```

Dans Avenir Climatique, tu es?

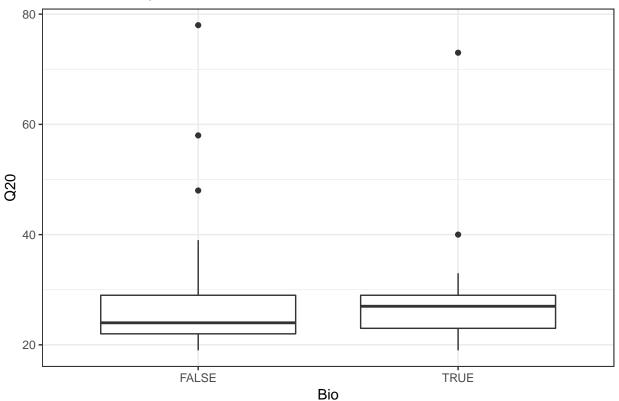


```
## [1] "Ancien Académicien"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 1.2396, df = 21.484, p-value = 0.2285
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.910759 7.569763
## sample estimates:
## mean of x mean of y
## 30.77778 27.94828
```

28.40476 28.20000

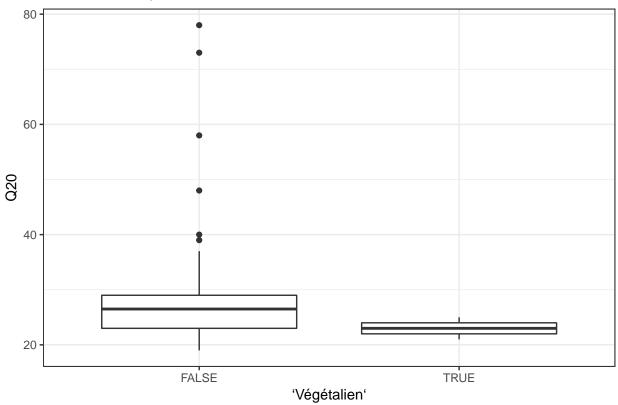


```
## [1] "Local"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 0.073878, df = 45.613, p-value = 0.9414
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -5.375531 5.785055
## sample estimates:
## mean of x mean of y
```

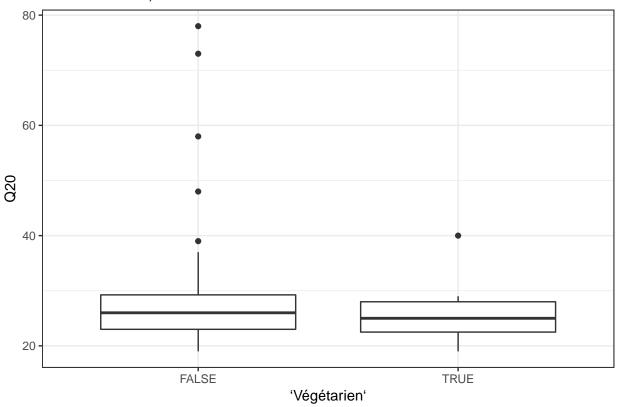


```
## [1] "Bio"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -0.89744, df = 25.671, p-value = 0.3778
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -10.06981  3.95180
## sample estimates:
## mean of x mean of y
## 27.36957  30.42857
```

23.00000 28.57812

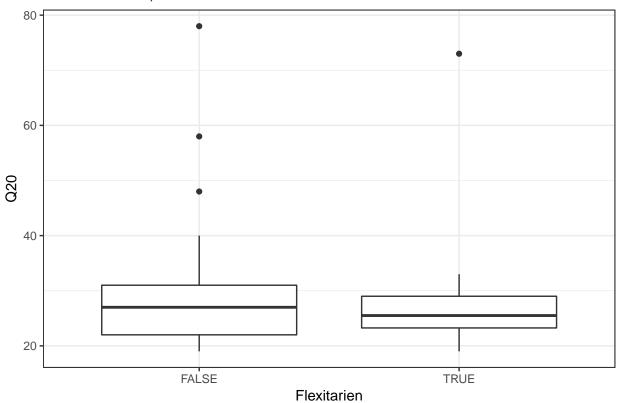


```
## [1] "Végétalien"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -3.1538, df = 10.411, p-value = 0.009789
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -9.498093 -1.658157
## sample estimates:
## mean of x mean of y
```

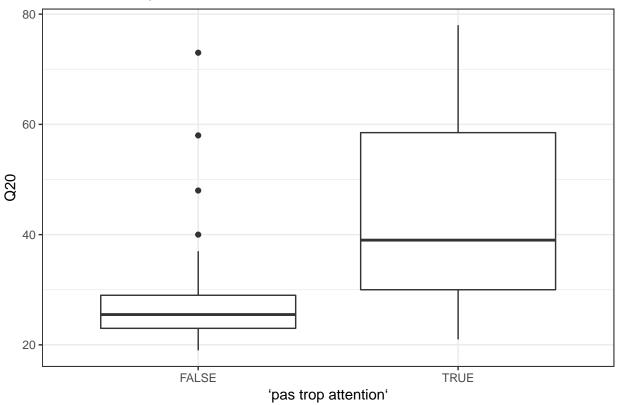


```
## [1] "Végétarien"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.183, df = 28.743, p-value = 0.2465
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -7.306845 1.952949
## sample estimates:
## mean of x mean of y
## 26.09091 28.76786
```

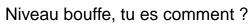
26.92857 30.68000

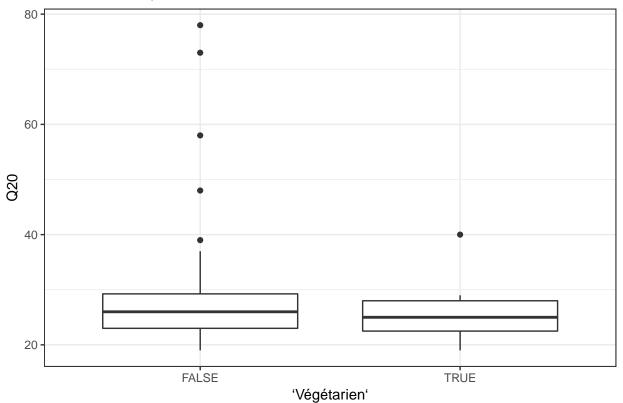


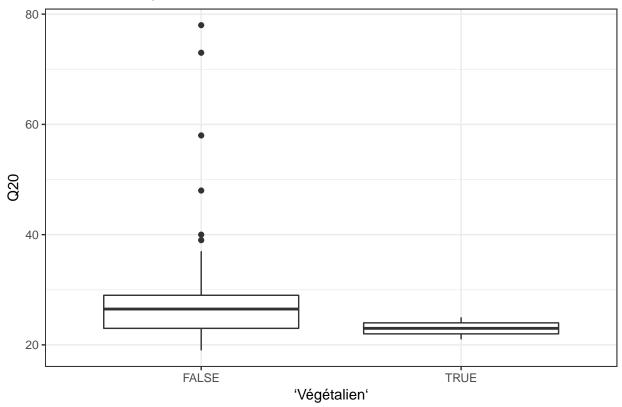
```
## [1] "Flexitarien"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = -1.2553, df = 34.373, p-value = 0.2178
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -9.822200 2.319343
## sample estimates:
## mean of x mean of y
```

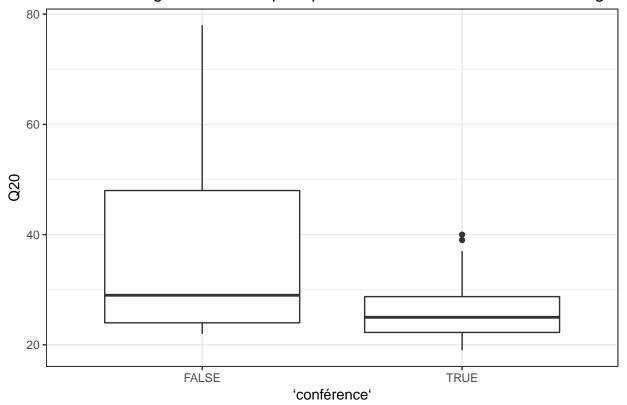


```
## [1] "pas trop attention"
##
## Welch Two Sample t-test
##
## data: data_work %>% filter(!!sym(i) == TRUE) %>% pull(Q20) and data_work %>% filter(!!sym(i) == FAL
## t = 1.0975, df = 2.0164, p-value = 0.3861
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -53.46853 90.46853
## sample estimates:
## mean of x mean of y
## 46.0 27.5
```









Que penses-tu de cette affirmation: Le militantisme écologiste se rapproche

