

# Analyse en économétrie

Ce script a pour vocation à préparer un jeu de données pour une analyse économétrique.

La première partie consiste à charger le jeu de données et à l'inspecter :

```
ign_2018 <- read.csv("ign_2018.csv", header=T)
attributs <- read.csv("attributs.csv", header=T)

head(ign_2018, n=12)
```

```
##      ident enqueteur c1 c2 c3 c4 c5 c6 sexe age ann_insta      commun_exp
## 1   AM01          AM  0  2  1  2  2  1   H  58    1989 ANSE - BERTRAND
## 2   AM02          AM  0  2  0  2  1  1   H  63    1988  PETIT - CANAL
## 3   AM03          AM  1  1  0  1  0  2   H  50    2009   PORT - LOUIS
## 4   AM04          AM  2  2  1  1  0  1   H  58    1993   PORT - LOUIS
## 5   AM05          AM  0  2  0  2  0  1   H  66    1989   PORT - LOUIS
## 6   AM06          AM  2  1  1  2  0  1   H  66      .   PORT - LOUIS
## 7   AM07          AM  0  1  0  2  2  2   H  58    1980 ANSE - BERTRAND
## 8   AM08          AM  0  2  1  1  0  1   F  52    1990 ANSE - BERTRAND
## 9   AM09          AM  1  1  2  2  2  2   H  53    1990 ANSE - BERTRAND
## 10  AM10          AM  2  2  1  1  1  2   F  44    2006 ANSE - BERTRAND
## 11  AM11          AM  1  2  1  2  1  1   F  70    1978 ANSE - BERTRAND
## 12  AM12          AM  1  2  2  2  2  1   H  57    1993 ANSE - BERTRAND
##
##      form_gen  form_agri pc_fvd pc_ferm adh_group adh_sica adh_cuma
## 1  Secondaire court Sur le tas  0.00% 100.00%      0      1      0
## 2      Primaire Sur le tas    100%   0.00%      0      1      0
## 3      Supérieur      BEPA  0.00%  20.00%      0      1      1
## 4      Supérieur      BTSA  0.00% 100.00%      1      1      1
## 5  Secondaire court Sur le tas  0.00% 100.00%      0      1      1
## 6  Secondaire court Sur le tas  0.00% 100.00%      0      1      0
## 7  Secondaire court Sur le tas  0.00% 100.00%      0      1      1
## 8      Supérieur      BTSA  0.00% 100.00%      0      1      0
## 9  Secondaire court      BEPA  0.00% 100.00%      0      1      1
## 10     Supérieur      BTA  0.00% 100.00%      0      1      1
## 11  Secondaire court Sur le tas    100%   0.00%      0      0      0
## 12  Secondaire court Sur le tas  0.00% 100.00%      0      1      0
##
##      sau s_ignames s_autr_tuber s_banane s_canne s_prairie s_meca
## 1   8.20      0.20          0.0      0.0      6.0      2.00      6.2
## 2   6.30      0.30          1.2      0.0      0.7      3.60      2.7
## 3   8.00      0.30          1.0      0.2      1.0      0.00      8.0
## 4  26.00      0.20          0.1      0.0      9.4     16.30      9.7
## 5   7.90      0.70          0.0      0.0      6.0      1.20      6.7
## 6   8.20      0.20          0.0      0.0      2.0      0.00      8.2
## 7  10.90      0.80          0.9      0.0      7.0      0.00     10.9
## 8  10.93      0.60          0.3      0.0      8.0      2.03      8.9
## 9  15.00      0.70          0.3      0.0      8.5      2.50     12.5
## 10   8.00      0.30          0.0      0.0      5.0      0.00      8.0
## 11   1.50      0.30          0.0      0.0      0.0      0.00      1.5
## 12  14.00      0.15          0.0      0.0      6.3      3.00     11.0
##
##      conduite_ig acti_agri uth uth_ig success revenu_agri ig_annees
## 1      A PLAT    100% 1.0  0.10      0    75-100      29
## 2      A PLAT    100% 1.0  0.20      0    75-100      10
## 3     LES DEUX    100% 1.0  0.40      0    75-100      20
```

|       |                          |                   |                 |                 |               |        |    |
|-------|--------------------------|-------------------|-----------------|-----------------|---------------|--------|----|
| ## 4  | LES DEUX                 | 100%              | 3.5             | 2.50            | 0             | 75-100 | 25 |
| ## 5  | LES DEUX                 | 100%              | 1.0             | 0.60            | 1             | 75-100 | 29 |
| ## 6  | A PLAT                   | 70%               | 1.0             | 0.50            | 1             | 50-75  | 29 |
| ## 7  | LES DEUX                 | 100%              | 1.0             | 0.80            | 0             | 75-100 | 30 |
| ## 8  | LES DEUX                 | 100%              | 1.5             | 1.00            | 0             | 75-100 | 10 |
| ## 9  | A PLAT                   | 100%              | 1.5             | 1.00            | 0             | 75-100 | 5  |
| ## 10 | A PLAT                   | 70%               | 0.5             | 0.25            | 0             | 50-75  | 10 |
| ## 11 | LES DEUX                 | 50%               | 0.5             | 0.50            | 1             | 0-25   | 38 |
| ## 12 | A PLAT                   | 100%              | 1.0             | 0.25            | 0             | 75-100 | 16 |
| ##    | ig_prod_prin             | ig_part_revenu    | ig_lev_rev      | ig_lev_diversif | ig_chaque_ann |        |    |
| ## 1  | 0                        | 0-25              | 0               | 0               | 0             | 1      |    |
| ## 2  | 0                        | 0-25              | 0               | 0               | 0             | 1      |    |
| ## 3  | 0                        | 0-25              | 0               | 0               | 0             | 1      |    |
| ## 4  | 0                        | 0-25              | 0               | 0               | 0             | 1      |    |
| ## 5  | 0                        | 0-25              | 1               | 0               | 0             | 1      |    |
| ## 6  | 0                        | 0-25              | 0               | 0               | 0             | 1      |    |
| ## 7  | 0                        | 0-25              | 1               | 0               | 0             | 1      |    |
| ## 8  | 0                        | 0-25              | 0               | 0               | 0             | 1      |    |
| ## 9  | 0                        | 0-25              | 0               | 1               | 0             | 1      |    |
| ## 10 | 0                        | 0-25              | 1               | 0               | 0             | 1      |    |
| ## 11 | 1                        | 75-100            | 0               | 0               | 0             | 1      |    |
| ## 12 | 0                        | 0-25              | 1               | 0               | 0             | 1      |    |
| ##    | ig_nb_var_cult           | ig_semenceau      | ig_assoc_var    | ig_fr_maladie   |               |        |    |
| ## 1  | 2 PRODUCTION PERSONNELLE |                   | 1               | 0               |               |        |    |
| ## 2  | 3 PRODUCTION PERSONNELLE |                   | 1               | 0               |               |        |    |
| ## 3  | 2 COMMERCE               |                   | 1               | 0               |               |        |    |
| ## 4  | 4 PRODUCTION PERSONNELLE |                   | 1               | 1               |               |        |    |
| ## 5  | 3 PRODUCTION PERSONNELLE |                   | 1               | 0               |               |        |    |
| ## 6  | 2 PRODUCTION PERSONNELLE |                   | 1               | 0               |               |        |    |
| ## 7  | 3 PRODUCTION PERSONNELLE |                   | 1               | 0               |               |        |    |
| ## 8  | 4 AUTRES AGRICULTEURS    |                   | 0               | 0               |               |        |    |
| ## 9  | 2 PRODUCTION PERSONNELLE |                   | 0               | 0               |               |        |    |
| ## 10 | 3 PRODUCTION PERSONNELLE |                   | 1               | 0               |               |        |    |
| ## 11 | 3 PRODUCTION PERSONNELLE |                   | 1               | 0               |               |        |    |
| ## 12 | 2 AUTRES AGRICULTEURS    |                   | 1               | 0               |               |        |    |
| ##    | ig_fr_temps_trav         | ig_fr_dispo_plant | ig_fr_cout_prod | ig_fr_vol       | ig_fr_eau     |        |    |
| ## 1  | 0                        | 0                 | 0               | 0               | 0             |        |    |
| ## 2  | 0                        | 0                 | 0               | 0               | 0             | 1      |    |
| ## 3  | 0                        | 1                 | 0               | 0               | 0             |        |    |
| ## 4  | 0                        | 0                 | 0               | 0               | 0             |        |    |
| ## 5  | 0                        | 0                 | 0               | 0               | 0             |        |    |
| ## 6  | 0                        | 1                 | 0               | 0               | 0             |        |    |
| ## 7  | 0                        | 0                 | 0               | 0               | 0             |        |    |
| ## 8  | 0                        | 0                 | 1               | 0               | 0             |        |    |
| ## 9  | 0                        | 0                 | 0               | 0               | 0             |        |    |
| ## 10 | 1                        | 0                 | 0               | 0               | 0             |        |    |
| ## 11 | 0                        | 0                 | 0               | 0               | 0             | 1      |    |
| ## 12 | 0                        | 0                 | 0               | 0               | 0             | 0      |    |
| ##    | ig_fr_cons_plant         | pb_dispo_sem      | ig_av_s2        | ig_av_nb_var    | attri_cout    |        |    |
| ## 1  | 0                        | 0 AUGMENTATION    | AUGMENTATION    |                 | 1             |        |    |
| ## 2  | 0                        | 0 AUGMENTATION    | AUGMENTATION    |                 | 2             |        |    |
| ## 3  | 0                        | 1 AUGMENTATION    | AUGMENTATION    |                 | 1             |        |    |
| ## 4  | 0                        | 0 AUGMENTATION    | MAINTIEN        |                 | 3             |        |    |
| ## 5  | 0                        | 0 MAINTIEN        | NSP             |                 | 1             |        |    |

```
## 6      0      1      MAINTIEN AUGMENTATION      1
## 7      0      1 AUGMENTATION AUGMENTATION      2
## 8      0      1      MAINTIEN AUGMENTATION      2
## 9      0      0 AUGMENTATION AUGMENTATION      1
## 10     0      0 AUGMENTATION AUGMENTATION      1
## 11     0      0 AUGMENTATION      MAINTIEN      2
## 12     1      0 AUGMENTATION      MAINTIEN      3
##      attri_nb_var attri_dispo attri_engage Q4.03 Q4.06 Q4.09 Q4.13 Q4.15
## 1      3      4      2      1      1      1      1      1
## 2      1      4      3      0      1      1      1      0
## 3      2      4      3      1      1      1      1      0
## 4      1      2      4      1      1      1      1      1
## 5      3      4      2      1      1      1      1      0
## 6      2      4      3      1      1      1      1      1
## 7      1      3      4      1      1      1      1      1
## 8      3      1      4      1      1      1      1      1
## 9      4      2      3      1      1      1      1      1
## 10     3      2      4      1      1      1      1      1
## 11     1      3      4      1      1      1      1      1
## 12     1      2      4      1      1      0      1      1
##      Q4.18 Q4.22 Q4.24 fut_acha_sem_qual  futur_prod_ig971 futur_conso_ig971
## 1      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 2      0      0      0      25%      AUGMENTATION      AUGMENTATION
## 3      0      0      1      100%     DISPARITION      AUGMENTATION
## 4      1      1      1      100%     AUGMENTATION      AUGMENTATION
## 5      0      0      1      50%      BAISSE PAS DE CHANGEMENT
## 6      1      1      1      50%      AUGMENTATION      AUGMENTATION
## 7      1      1      1      100%     AUGMENTATION      AUGMENTATION
## 8      0      0      1      50% PAS DE CHANGEMENT      AUGMENTATION
## 9      1      1      1      100%     AUGMENTATION      AUGMENTATION
## 10     0      0      1      100%     AUGMENTATION      AUGMENTATION
## 11     0      0      1      50%      AUGMENTATION      AUGMENTATION
## 12     0      0      1      50%      AUGMENTATION      AUGMENTATION
```

```
head(attributs, n=12)
```

```
##      carte profil cout_sem nb_varietes dispo_sem engage
## 1      1      0      0.0      0      0.00      0
## 2      1      1      3.5      5      1.00      0
## 3      1      2      3.5     15      0.25      1
## 4      2      0      0.0      0      0.00      0
## 5      2      1      1.5     15      1.00      0
## 6      2      2      2.5     15      0.25      0
## 7      3      0      0.0      0      0.00      0
## 8      3      1      2.5     15      1.00      1
## 9      3      2      3.5      5      1.00      0
## 10     4      0      0.0      0      0.00      0
## 11     4      1      1.5      5      0.25      1
## 12     4      2      1.5     15      1.00      0
```

Ensuite, on réorganise et on transforme le tableau de manière adéquate pour le traitement statistique futur :

```
library(tidyr) # pour la fonction "gather"
library(dplyr) # pour les fonctions "arrange" et "slice"
```

```
##
```

```
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

# assembler le tableau selon deux longues colonnes "Carte" et "Profil"
ign_2018_long <- gather(ign_2018, Carte, Profil, 3:8)

# classer par ordre croissant d'identifiant "ident"
ign_2018_long <- arrange(ign_2018_long, ident)

# répéter chaque ligne 3 fois
ign_2018_long_rep <- slice(ign_2018_long, rep(1:dplyr::n(), each = 3))

# inspections
head(ign_2018_long_rep, n=12)
```

```
##   ident enqueteur sexe age ann_insta      commun_exp      form_gen
## 1  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 2  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 3  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 4  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 5  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 6  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 7  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 8  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 9  AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 10 AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 11 AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
## 12 AM01          AM   H  58    1989 ANSE - BERTRAND Secondaire court
##   form_agri pc_fvd pc_ferm adh_group adh_sica adh_cuma sau s_ignames
## 1 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 2 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 3 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 4 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 5 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 6 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 7 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 8 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 9 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 10 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 11 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
## 12 Sur le tas 0.00% 100.00%      0      1      0 8.2      0.2
##   s_autr_tuber s_banane s_canne s_prairie s_meca conduite_ig acti_agri
## 1           0         0         6         2      6.2      A PLAT    100%
## 2           0         0         6         2      6.2      A PLAT    100%
## 3           0         0         6         2      6.2      A PLAT    100%
## 4           0         0         6         2      6.2      A PLAT    100%
## 5           0         0         6         2      6.2      A PLAT    100%
## 6           0         0         6         2      6.2      A PLAT    100%
## 7           0         0         6         2      6.2      A PLAT    100%
```

|       |                        |                 |               |                  |                  |              |                |      |
|-------|------------------------|-----------------|---------------|------------------|------------------|--------------|----------------|------|
| ## 8  |                        | 0               | 0             | 6                | 2                | 6.2          | A PLAT         | 100% |
| ## 9  |                        | 0               | 0             | 6                | 2                | 6.2          | A PLAT         | 100% |
| ## 10 |                        | 0               | 0             | 6                | 2                | 6.2          | A PLAT         | 100% |
| ## 11 |                        | 0               | 0             | 6                | 2                | 6.2          | A PLAT         | 100% |
| ## 12 |                        | 0               | 0             | 6                | 2                | 6.2          | A PLAT         | 100% |
| ##    | uth                    | uth_ig          | success       | revenu_agri      | ig_annees        | ig_prod_prin | ig_part_revenu |      |
| ## 1  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 2  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 3  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 4  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 5  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 6  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 7  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 8  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 9  | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 10 | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 11 | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ## 12 | 1                      | 0.1             | 0             | 75-100           | 29               | 0            | 0-25           |      |
| ##    | ig_lev_rev             | ig_lev_diversif | ig_chaque_ann | ig_nb_var_cult   |                  |              |                |      |
| ## 1  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 2  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 3  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 4  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 5  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 6  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 7  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 8  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 9  |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 10 |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 11 |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ## 12 |                        | 0               | 0             | 1                |                  | 2            |                |      |
| ##    | ig_semenceau           | ig_assoc_var    | ig_fr_maladie | ig_fr_temps_trav |                  |              |                |      |
| ## 1  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 2  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 3  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 4  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 5  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 6  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 7  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 8  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 9  | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 10 | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 11 | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ## 12 | PRODUCTION PERSONNELLE |                 | 1             | 0                |                  | 0            |                |      |
| ##    | ig_fr_dispo_plant      | ig_fr_cout_prod | ig_fr_vol     | ig_fr_eau        | ig_fr_cons_plant |              |                |      |
| ## 1  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 2  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 3  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 4  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 5  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 6  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 7  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 8  |                        | 0               | 0             | 0                | 0                |              | 0              |      |
| ## 9  |                        | 0               | 0             | 0                | 0                |              | 0              |      |

```

## 10      0      0      0      0      0
## 11      0      0      0      0      0
## 12      0      0      0      0      0
##      pb_dispo_sem      ig_av_s2 ig_av_nb_var attri_cout attri_nb_var
## 1      0 AUGMENTATION AUGMENTATION      1      3
## 2      0 AUGMENTATION AUGMENTATION      1      3
## 3      0 AUGMENTATION AUGMENTATION      1      3
## 4      0 AUGMENTATION AUGMENTATION      1      3
## 5      0 AUGMENTATION AUGMENTATION      1      3
## 6      0 AUGMENTATION AUGMENTATION      1      3
## 7      0 AUGMENTATION AUGMENTATION      1      3
## 8      0 AUGMENTATION AUGMENTATION      1      3
## 9      0 AUGMENTATION AUGMENTATION      1      3
## 10     0 AUGMENTATION AUGMENTATION      1      3
## 11     0 AUGMENTATION AUGMENTATION      1      3
## 12     0 AUGMENTATION AUGMENTATION      1      3
##      attri_dispo attri_engage Q4.03 Q4.06 Q4.09 Q4.13 Q4.15 Q4.18 Q4.22
## 1      4      2      1      1      1      1      1      1      1
## 2      4      2      1      1      1      1      1      1      1
## 3      4      2      1      1      1      1      1      1      1
## 4      4      2      1      1      1      1      1      1      1
## 5      4      2      1      1      1      1      1      1      1
## 6      4      2      1      1      1      1      1      1      1
## 7      4      2      1      1      1      1      1      1      1
## 8      4      2      1      1      1      1      1      1      1
## 9      4      2      1      1      1      1      1      1      1
## 10     4      2      1      1      1      1      1      1      1
## 11     4      2      1      1      1      1      1      1      1
## 12     4      2      1      1      1      1      1      1      1
##      Q4.24 fut_acha_sem_qual futur_prod_ig971 futur_conso_ig971 Carte Profil
## 1      1      25%      AUGMENTATION      AUGMENTATION      c1      0
## 2      1      25%      AUGMENTATION      AUGMENTATION      c1      0
## 3      1      25%      AUGMENTATION      AUGMENTATION      c1      0
## 4      1      25%      AUGMENTATION      AUGMENTATION      c2      2
## 5      1      25%      AUGMENTATION      AUGMENTATION      c2      2
## 6      1      25%      AUGMENTATION      AUGMENTATION      c2      2
## 7      1      25%      AUGMENTATION      AUGMENTATION      c3      1
## 8      1      25%      AUGMENTATION      AUGMENTATION      c3      1
## 9      1      25%      AUGMENTATION      AUGMENTATION      c3      1
## 10     1      25%      AUGMENTATION      AUGMENTATION      c4      2
## 11     1      25%      AUGMENTATION      AUGMENTATION      c4      2
## 12     1      25%      AUGMENTATION      AUGMENTATION      c4      2

```

Ensuite on crée une nouvelle colonne “Choix” dans laquelle on va, grâce à une boucle, attribuer la valeur “1” en fonction du profil choisi par chaque agriculteur pour chaque carte :

```

# Initialiser la colonne "Choisi" avec la valeur "0"
ign_2018_long_rep$Choix <- "0"

# Boucle d'attribution de la valeur 1 pour la carte choisie
for (i in seq(1, nrow(ign_2018_long_rep), 3)) { # on incrémente la boucle de 3 en 3
  if (ign_2018_long_rep[i,"Profil"]=="0") { # si le choix est "0"...
    ign_2018_long_rep[i,"Choix"] <- "1" # on attribue "1" à la première ligne
  }
  else if (ign_2018_long_rep[i,"Profil"]=="1") { # si le choix est "A"...

```

```

    ign_2018_long_rep[i+1,"Choix"] <- "1"      # on attribue "1" à la deuxième ligne
  }
  else if (ign_2018_long_rep[i,"Profil"]=="2") { # si le choix est "B"...
    ign_2018_long_rep[i+2,"Choix"] <- "1"      # on attribue "1" à la troisième ligne
  }
}

# inspection du tableau
head(ign_2018_long_rep, n=12)

```

```

##      ident enqueteur sexe age ann_insta      commun_exp      form_gen
## 1  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 2  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 3  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 4  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 5  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 6  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 7  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 8  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 9  AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 10 AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 11 AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
## 12 AM01          AM    H  58      1989 ANSE - BERTRAND Secondaire court
##      form_agri pc_fvd pc_ferm adh_group adh_sica adh_cuma sau s_ignames
## 1  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 2  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 3  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 4  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 5  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 6  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 7  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 8  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 9  Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 10 Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 11 Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
## 12 Sur le tas  0.00% 100.00%      0      1      0 8.2      0.2
##      s_autr_tuber s_banane s_canne s_prairie s_meca conduite_ig acti_agri
## 1           0           0           6           2      6.2      A PLAT    100%
## 2           0           0           6           2      6.2      A PLAT    100%
## 3           0           0           6           2      6.2      A PLAT    100%
## 4           0           0           6           2      6.2      A PLAT    100%
## 5           0           0           6           2      6.2      A PLAT    100%
## 6           0           0           6           2      6.2      A PLAT    100%
## 7           0           0           6           2      6.2      A PLAT    100%
## 8           0           0           6           2      6.2      A PLAT    100%
## 9           0           0           6           2      6.2      A PLAT    100%
## 10          0           0           6           2      6.2      A PLAT    100%
## 11          0           0           6           2      6.2      A PLAT    100%
## 12          0           0           6           2      6.2      A PLAT    100%
##      uth uth_ig success revenu_agri ig_annees ig_prod_prin ig_part_revenu
## 1     1   0.1      0      75-100      29      0      0-25
## 2     1   0.1      0      75-100      29      0      0-25
## 3     1   0.1      0      75-100      29      0      0-25
## 4     1   0.1      0      75-100      29      0      0-25

```

|       |                        |                 |               |                  |                  |   |      |
|-------|------------------------|-----------------|---------------|------------------|------------------|---|------|
| ## 5  | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ## 6  | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ## 7  | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ## 8  | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ## 9  | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ## 10 | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ## 11 | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ## 12 | 1                      | 0.1             | 0             | 75-100           | 29               | 0 | 0-25 |
| ##    | ig_lev_rev             | ig_lev_diversif | ig_chaque_ann | ig_nb_var_cult   |                  |   |      |
| ## 1  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 2  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 3  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 4  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 5  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 6  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 7  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 8  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 9  | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 10 | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 11 | 0                      |                 | 0             | 1                | 2                |   |      |
| ## 12 | 0                      |                 | 0             | 1                | 2                |   |      |
| ##    | ig_semenceau           | ig_assoc_var    | ig_fr_maladie | ig_fr_temps_trav |                  |   |      |
| ## 1  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 2  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 3  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 4  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 5  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 6  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 7  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 8  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 9  | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 10 | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 11 | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ## 12 | PRODUCTION PERSONNELLE |                 | 1             | 0                | 0                |   |      |
| ##    | ig_fr_dispo_plant      | ig_fr_cout_prod | ig_fr_vol     | ig_fr_eau        | ig_fr_cons_plant |   |      |
| ## 1  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 2  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 3  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 4  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 5  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 6  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 7  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 8  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 9  | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 10 | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 11 | 0                      | 0               | 0             | 0                | 0                |   |      |
| ## 12 | 0                      | 0               | 0             | 0                | 0                |   |      |
| ##    | pb_dispo_sem           | ig_av_s2        | ig_av_nb_var  | attri_cout       | attri_nb_var     |   |      |
| ## 1  | 0 AUGMENTATION         | AUGMENTATION    |               | 1                | 3                |   |      |
| ## 2  | 0 AUGMENTATION         | AUGMENTATION    |               | 1                | 3                |   |      |
| ## 3  | 0 AUGMENTATION         | AUGMENTATION    |               | 1                | 3                |   |      |
| ## 4  | 0 AUGMENTATION         | AUGMENTATION    |               | 1                | 3                |   |      |
| ## 5  | 0 AUGMENTATION         | AUGMENTATION    |               | 1                | 3                |   |      |
| ## 6  | 0 AUGMENTATION         | AUGMENTATION    |               | 1                | 3                |   |      |



```

## 7      0 AUGMENTATION AUGMENTATION      1      3
## 8      0 AUGMENTATION AUGMENTATION      1      3
## 9      0 AUGMENTATION AUGMENTATION      1      3
## 10     0 AUGMENTATION AUGMENTATION      1      3
## 11     0 AUGMENTATION AUGMENTATION      1      3
## 12     0 AUGMENTATION AUGMENTATION      1      3
##      attri_dispo attri_engage Q4.03 Q4.06 Q4.09 Q4.13 Q4.15 Q4.18 Q4.22
## 1      4      2      1      1      1      1      1      1      1
## 2      4      2      1      1      1      1      1      1      1
## 3      4      2      1      1      1      1      1      1      1
## 4      4      2      1      1      1      1      1      1      1
## 5      4      2      1      1      1      1      1      1      1
## 6      4      2      1      1      1      1      1      1      1
## 7      4      2      1      1      1      1      1      1      1
## 8      4      2      1      1      1      1      1      1      1
## 9      4      2      1      1      1      1      1      1      1
## 10     4      2      1      1      1      1      1      1      1
## 11     4      2      1      1      1      1      1      1      1
## 12     4      2      1      1      1      1      1      1      1
##      Q4.24 fut_acha_sem_qual futur_prod_ig971 futur_conso_ig971 Carte Profil
## 1      1      25%      AUGMENTATION      AUGMENTATION      c1      0
## 2      1      25%      AUGMENTATION      AUGMENTATION      c1      0
## 3      1      25%      AUGMENTATION      AUGMENTATION      c1      0
## 4      1      25%      AUGMENTATION      AUGMENTATION      c2      2
## 5      1      25%      AUGMENTATION      AUGMENTATION      c2      2
## 6      1      25%      AUGMENTATION      AUGMENTATION      c2      2
## 7      1      25%      AUGMENTATION      AUGMENTATION      c3      1
## 8      1      25%      AUGMENTATION      AUGMENTATION      c3      1
## 9      1      25%      AUGMENTATION      AUGMENTATION      c3      1
## 10     1      25%      AUGMENTATION      AUGMENTATION      c4      2
## 11     1      25%      AUGMENTATION      AUGMENTATION      c4      2
## 12     1      25%      AUGMENTATION      AUGMENTATION      c4      2
##      Choix
## 1      1
## 2      0
## 3      0
## 4      0
## 5      0
## 6      1
## 7      0
## 8      1
## 9      0
## 10     0
## 11     0
## 12     1

```

Ca fonctionne.

Enfin, on peut si on veut, réorganiser les colonnes pour retrouver l'ordre initial :

```

# Réordonner les colonnes
ign_2018_long_rep <- select(ign_2018_long_rep, ident, Carte:Choix, everything())

head(ign_2018_long_rep, n=12)

```

```

##      ident Carte Profil Choix enquêteur sexe age ann_insta      commun_exp

```

|       |              |                |              |                 |               |             |           |          |      |   |          |
|-------|--------------|----------------|--------------|-----------------|---------------|-------------|-----------|----------|------|---|----------|
| ## 1  | AM01         | c1             | 0            | 1               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 2  | AM01         | c1             | 0            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 3  | AM01         | c1             | 0            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 4  | AM01         | c2             | 2            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 5  | AM01         | c2             | 2            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 6  | AM01         | c2             | 2            | 1               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 7  | AM01         | c3             | 1            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 8  | AM01         | c3             | 1            | 1               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 9  | AM01         | c3             | 1            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 10 | AM01         | c4             | 2            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 11 | AM01         | c4             | 2            | 0               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ## 12 | AM01         | c4             | 2            | 1               | AM            | H           | 58        | 1989     | ANSE | - | BERTRAND |
| ##    |              | form_gen       | form_agri    | pc_fvd          | pc_ferm       | adh_group   | adh_sica  | adh_cuma |      |   |          |
| ## 1  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 2  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 3  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 4  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 5  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 6  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 7  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 8  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 9  | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 10 | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 11 | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ## 12 | Secondaire   | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0        |      |   |          |
| ##    | sau          | s_ignames      | s_autr_tuber | s_banane        | s_canne       | s_prairie   | s_meca    |          |      |   |          |
| ## 1  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 2  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 3  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 4  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 5  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 6  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 7  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 8  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 9  | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 10 | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 11 | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ## 12 | 8.2          | 0.2            | 0            | 0               | 6             | 2           | 6.2       |          |      |   |          |
| ##    | conduite_ig  | acti_agri      | uth          | uth_ig          | success       | revenu_agri | ig_annees |          |      |   |          |
| ## 1  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 2  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 3  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 4  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 5  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 6  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 7  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 8  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 9  | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 10 | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 11 | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ## 12 | A PLAT       | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |          |      |   |          |
| ##    | ig_prod_prin | ig_part_revenu | ig_lev_rev   | ig_lev_diversif | ig_chaque_ann |             |           |          |      |   |          |
| ## 1  | 0            | 0-25           | 0            | 0               | 0             | 1           |           |          |      |   |          |
| ## 2  | 0            | 0-25           | 0            | 0               | 0             | 1           |           |          |      |   |          |

|       |                  |                        |                 |               |            |       |       |       |
|-------|------------------|------------------------|-----------------|---------------|------------|-------|-------|-------|
| ## 3  | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 4  | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 5  | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 6  | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 7  | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 8  | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 9  | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 10 | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 11 | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ## 12 | 0                | 0-25                   | 0               | 0             | 1          |       |       |       |
| ##    | ig_nb_var_cult   | ig_semenceau           | ig_assoc_var    | ig_fr_maladie |            |       |       |       |
| ## 1  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 2  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 3  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 4  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 5  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 6  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 7  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 8  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 9  | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 10 | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 11 | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ## 12 | 2                | PRODUCTION PERSONNELLE | 1               | 0             |            |       |       |       |
| ##    | ig_fr_temps_trav | ig_fr_dispo_plant      | ig_fr_cout_prod | ig_fr_vol     | ig_fr_eau  |       |       |       |
| ## 1  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 2  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 3  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 4  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 5  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 6  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 7  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 8  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 9  | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 10 | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 11 | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ## 12 | 0                | 0                      | 0               | 0             | 0          |       |       |       |
| ##    | ig_fr_cons_plant | pb_dispo_sem           | ig_av_s2        | ig_av_nb_var  | attri_cout |       |       |       |
| ## 1  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 2  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 3  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 4  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 5  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 6  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 7  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 8  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 9  | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 10 | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 11 | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ## 12 | 0                | 0                      | AUGMENTATION    | AUGMENTATION  | 1          |       |       |       |
| ##    | attri_nb_var     | attri_dispo            | attri_engage    | Q4.03         | Q4.06      | Q4.09 | Q4.13 | Q4.15 |
| ## 1  | 3                | 4                      | 2               | 1             | 1          | 1     | 1     | 1     |
| ## 2  | 3                | 4                      | 2               | 1             | 1          | 1     | 1     | 1     |
| ## 3  | 3                | 4                      | 2               | 1             | 1          | 1     | 1     | 1     |
| ## 4  | 3                | 4                      | 2               | 1             | 1          | 1     | 1     | 1     |

```
## 5      3      4      2      1      1      1      1      1
## 6      3      4      2      1      1      1      1      1
## 7      3      4      2      1      1      1      1      1
## 8      3      4      2      1      1      1      1      1
## 9      3      4      2      1      1      1      1      1
## 10     3      4      2      1      1      1      1      1
## 11     3      4      2      1      1      1      1      1
## 12     3      4      2      1      1      1      1      1
##      Q4.18 Q4.22 Q4.24 fut_acha_sem_qual futur_prod_ig971 futur_conso_ig971
## 1      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 2      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 3      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 4      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 5      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 6      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 7      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 8      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 9      1      1      1      25%      AUGMENTATION      AUGMENTATION
## 10     1      1      1      25%      AUGMENTATION      AUGMENTATION
## 11     1      1      1      25%      AUGMENTATION      AUGMENTATION
## 12     1      1      1      25%      AUGMENTATION      AUGMENTATION
```

Pour finir, on colle les attributs à droite du tableau :

```
# on commence par multiplier le tableau par le nombre d'enquêtés
attributs_long <- slice(attributs, rep(1:dplyr::n(), nrow(ign_2018)))

# on vérifie que les 2 tableaux on le même nombre total de lignes :

stopifnot(nrow(ign_2018_long_rep)==nrow(attributs_long)) # le test échoie avec une erreur
                                                    # si les nombres de lignes diffèrent

# coller les 2 tableaux en 1 tableau final
ign_2018_final <- cbind(ign_2018_long_rep, attributs_long)

head(ign_2018_final, n=12)
```

```
##      ident Carte Profil Choix enqueteur sexe age ann_insta      commun_exp
## 1  AM01      c1      0      1      AM      H  58      1989 ANSE - BERTRAND
## 2  AM01      c1      0      0      AM      H  58      1989 ANSE - BERTRAND
## 3  AM01      c1      0      0      AM      H  58      1989 ANSE - BERTRAND
## 4  AM01      c2      2      0      AM      H  58      1989 ANSE - BERTRAND
## 5  AM01      c2      2      0      AM      H  58      1989 ANSE - BERTRAND
## 6  AM01      c2      2      1      AM      H  58      1989 ANSE - BERTRAND
## 7  AM01      c3      1      0      AM      H  58      1989 ANSE - BERTRAND
## 8  AM01      c3      1      1      AM      H  58      1989 ANSE - BERTRAND
## 9  AM01      c3      1      0      AM      H  58      1989 ANSE - BERTRAND
## 10 AM01      c4      2      0      AM      H  58      1989 ANSE - BERTRAND
## 11 AM01      c4      2      0      AM      H  58      1989 ANSE - BERTRAND
## 12 AM01      c4      2      1      AM      H  58      1989 ANSE - BERTRAND
##      form_gen  form_agri pc_fvd pc_ferm adh_group adh_sica adh_cuma
## 1 Secondaire court Sur le tas 0.00% 100.00%      0      1      0
## 2 Secondaire court Sur le tas 0.00% 100.00%      0      1      0
## 3 Secondaire court Sur le tas 0.00% 100.00%      0      1      0
## 4 Secondaire court Sur le tas 0.00% 100.00%      0      1      0
```

|       |                |                |              |                 |               |             |           |   |
|-------|----------------|----------------|--------------|-----------------|---------------|-------------|-----------|---|
| ## 5  | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ## 6  | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ## 7  | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ## 8  | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ## 9  | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ## 10 | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ## 11 | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ## 12 | Secondaire     | court          | Sur le tas   | 0.00%           | 100.00%       | 0           | 1         | 0 |
| ##    | sau            | s_ignames      | s_autr_tuber | s_banane        | s_canne       | s_prairie   | s_meca    |   |
| ## 1  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 2  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 3  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 4  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 5  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 6  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 7  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 8  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 9  | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 10 | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 11 | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ## 12 | 8.2            | 0.2            | 0            | 0               | 6             | 2           | 6.2       |   |
| ##    | conduite_ig    | acti_agri      | uth          | uth_ig          | success       | revenu_agri | ig_annees |   |
| ## 1  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 2  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 3  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 4  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 5  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 6  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 7  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 8  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 9  | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 10 | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 11 | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ## 12 | A PLAT         | 100%           | 1            | 0.1             | 0             | 75-100      | 29        |   |
| ##    | ig_prod_prin   | ig_part_revenu | ig_lev_rev   | ig_lev_diversif | ig_chaque_ann |             |           |   |
| ## 1  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 2  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 3  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 4  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 5  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 6  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 7  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 8  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 9  | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 10 | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 11 | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ## 12 | 0              | 0-25           | 0            | 0               | 1             |             |           |   |
| ##    | ig_nb_var_cult | ig_semenceau   | ig_assoc_var | ig_fr_maladie   |               |             |           |   |
| ## 1  | 2 PRODUCTION   | PERSONNELLE    | 1            | 0               |               |             |           |   |
| ## 2  | 2 PRODUCTION   | PERSONNELLE    | 1            | 0               |               |             |           |   |
| ## 3  | 2 PRODUCTION   | PERSONNELLE    | 1            | 0               |               |             |           |   |
| ## 4  | 2 PRODUCTION   | PERSONNELLE    | 1            | 0               |               |             |           |   |
| ## 5  | 2 PRODUCTION   | PERSONNELLE    | 1            | 0               |               |             |           |   |
| ## 6  | 2 PRODUCTION   | PERSONNELLE    | 1            | 0               |               |             |           |   |

|       |  |                |                                 |
|-------|--|----------------|---------------------------------|
| ## 7  | 2 PRODUCTION PERSONNELLE   | 1              | 0                               |
| ## 8  | 2 PRODUCTION PERSONNELLE   | 1              | 0                               |
| ## 9  | 2 PRODUCTION PERSONNELLE   | 1              | 0                               |
| ## 10 | 2 PRODUCTION PERSONNELLE   | 1              | 0                               |
| ## 11 | 2 PRODUCTION PERSONNELLE   | 1              | 0                               |
| ## 12 | 2 PRODUCTION PERSONNELLE   | 1              | 0                               |
| ##    | ig_fr_temps_trav ig_fr_dispo_plant ig_fr_cout_prod ig_fr_vol ig_fr_eau |                |                                 |
| ## 1  | 0  | 0              | 0                               |
| ## 2  | 0  | 0              | 0                               |
| ## 3  | 0  | 0              | 0                               |
| ## 4  | 0  | 0              | 0                               |
| ## 5  | 0  | 0              | 0                               |
| ## 6  | 0  | 0              | 0                               |
| ## 7  | 0  | 0              | 0                               |
| ## 8  | 0  | 0              | 0                               |
| ## 9  | 0  | 0              | 0                               |
| ## 10 | 0  | 0              | 0                               |
| ## 11 | 0  | 0              | 0                               |
| ## 12 | 0  | 0              | 0                               |
| ##    | ig_fr_cons_plant pb_dispo_sem ig_av_s2 ig_av_nb_var attri_cout         |                |                                 |
| ## 1  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 2  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 3  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 4  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 5  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 6  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 7  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 8  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 9  | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 10 | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 11 | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ## 12 | 0  | 0 AUGMENTATION | AUGMENTATION                    |
| ##    | attri_nb_var attri_dispo attri_engage Q4.03 Q4.06 Q4.09 Q4.13 Q4.15    |                |                                 |
| ## 1  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 2  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 3  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 4  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 5  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 6  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 7  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 8  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 9  | 3  | 4              | 2 1 1 1 1 1                     |
| ## 10 | 3  | 4              | 2 1 1 1 1 1                     |
| ## 11 | 3  | 4              | 2 1 1 1 1 1                     |
| ## 12 | 3  | 4              | 2 1 1 1 1 1                     |
| ##    | Q4.18 Q4.22 Q4.24 fut_acha_sem_qual futur_prod_ig971 futur_conso_ig971 |                |                                 |
| ## 1  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |
| ## 2  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |
| ## 3  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |
| ## 4  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |
| ## 5  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |
| ## 6  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |
| ## 7  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |
| ## 8  | 1  | 1              | 1 25% AUGMENTATION AUGMENTATION |

|       |       |        |          |             |              |              |
|-------|-------|--------|----------|-------------|--------------|--------------|
| ## 9  | 1     | 1      | 1        | 25%         | AUGMENTATION | AUGMENTATION |
| ## 10 | 1     | 1      | 1        | 25%         | AUGMENTATION | AUGMENTATION |
| ## 11 | 1     | 1      | 1        | 25%         | AUGMENTATION | AUGMENTATION |
| ## 12 | 1     | 1      | 1        | 25%         | AUGMENTATION | AUGMENTATION |
| ##    | carte | profil | cout_sem | nb_varietes | dispo_sem    | engage       |
| ## 1  | 1     | 0      | 0.0      | 0           | 0.00         | 0            |
| ## 2  | 1     | 1      | 3.5      | 5           | 1.00         | 0            |
| ## 3  | 1     | 2      | 3.5      | 15          | 0.25         | 1            |
| ## 4  | 2     | 0      | 0.0      | 0           | 0.00         | 0            |
| ## 5  | 2     | 1      | 1.5      | 15          | 1.00         | 0            |
| ## 6  | 2     | 2      | 2.5      | 15          | 0.25         | 0            |
| ## 7  | 3     | 0      | 0.0      | 0           | 0.00         | 0            |
| ## 8  | 3     | 1      | 2.5      | 15          | 1.00         | 1            |
| ## 9  | 3     | 2      | 3.5      | 5           | 1.00         | 0            |
| ## 10 | 4     | 0      | 0.0      | 0           | 0.00         | 0            |
| ## 11 | 4     | 1      | 1.5      | 5           | 0.25         | 1            |
| ## 12 | 4     | 2      | 1.5      | 15          | 1.00         | 0            |

Pour finir, on sauve le tableau dans un fichier csv :

```
write.csv(ign_2018_final, file="ign_2018_final.csv", row.names=F)
```