

## ground\_truth\_constitution

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## 1 Constitution de l'échantillon de données étiquetées

L'objet de ce notebook est de produire un échantillon données du PIM, avec les fiches techniques associées. Elles seront ensuite associées manuellement à la liste d'ingrédients qu'elles contiennent.

## 1.1 Récupération des données

### 1.1.1 Préambule technique

```
[1]: # setting up sys.path for relative imports
from pathlib import Path
import sys
project_root = str(Path(sys.path[0]).parents[1].absolute())
if project_root not in sys.path:
    sys.path.append(project_root)
```

```
[36]: # imports and customization of display
import os
import pandas as pd
pd.options.display.min_rows = 6
pd.options.display.width=108
from sklearn.model_selection import train_test_split
from sklearn.pipeline import make_pipeline

from src.pimapi import Requester
from src.pimest import ContentGetter, PDFContentParser
```

### 1.1.2 Récupération des données, et de la présences de fiches techniques

Pour constituer l'échantillon, on va d'abord extraire quelques informations du PIM, et particulièrement le type de produit. On récupérera aussi le fait que les produits ont ou non une fiche technique fournisseur associée.

```
[7]: requester = Requester('prd')
      # Let's fetch the full content of PIM system
      requester.fetch_all_from_PIM()
      requester.result
```

Done

[illegible]

<Response [200]>

```
[8]: mapping = {'uid': 'uid',
               'designation': 'title',
               'state': 'state',
               'ingredients': 'properties.pprod.ingredientsList',
               'type': 'properties.pprod.typeOfProduct'}
df = requester.file_report_from_result(mapping=mapping, index='uid') # , record_path='entries')
df
```

```
[8]:
```

uid	designation \
afee12c7-177e-4a68-9539-8cbb68442503	DESTR D'ODEURS AIR&TEXTILES 750CCX6 DESODOR U2
7d390121-17e8-43bf-a357-9d06b79d2d47	THÉ VERT AGRUME BTE 25S FRAICH LIPTON
f234cd84-c8f6-433f-85ec-6e0b6980adc6	T WHEAT 30 A 18X6 52C MISSION 1620
...	...
ef42a938-2203-446e-8d28-9fd27c6d3146	3D VENT FRAIS 5LX4 DESODOR U2
68f5d81b-7f91-40a0-8504-0ec320a86de4	NETTOYANT INOX 500ML LOT 2X6 KING
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	DESINFECTANT 3D+ 750CCX6 DESODOR U2

  

uid	state \
afee12c7-177e-4a68-9539-8cbb68442503	product.waiting.supplier.validation
7d390121-17e8-43bf-a357-9d06b79d2d47	product.waiting.supplier.validation
f234cd84-c8f6-433f-85ec-6e0b6980adc6	product.waiting.supplier.validation
...	...
ef42a938-2203-446e-8d28-9fd27c6d3146	product.waiting.supplier.validation
68f5d81b-7f91-40a0-8504-0ec320a86de4	product.waiting.supplier.validation
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	product.waiting.supplier.validation

  

uid	ingredients	type \
afee12c7-177e-4a68-9539-8cbb68442503	None	chemistry
7d390121-17e8-43bf-a357-9d06b79d2d47	None	grocery
f234cd84-c8f6-433f-85ec-6e0b6980adc6	WHEAT flour (55%), water, vegetable fat (palm)...	grocery
...	...	...
ef42a938-2203-446e-8d28-9fd27c6d3146	None	chemistry
68f5d81b-7f91-40a0-8504-0ec320a86de4	None	chemistry
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	None	chemistry

  

uid	has_supplierdatasheet	has_supplierlabel
afee12c7-177e-4a68-9539-8cbb68442503	False	False
7d390121-17e8-43bf-a357-9d06b79d2d47	False	False
f234cd84-c8f6-433f-85ec-6e0b6980adc6	True	True
...	...	...
ef42a938-2203-446e-8d28-9fd27c6d3146	False	False
68f5d81b-7f91-40a0-8504-0ec320a86de4	False	False
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	False	False

[13212 rows x 6 columns]

## 1.2 Constitution de l'échantillon

On va constituer l'échantillon en appliquant les règles suivantes : - on construit un échantillon de 500 produits - on conserve les produits de type Epicerie et Boisson non alcoolisée - on conserve les produits qui possèdent une fiche technique fournisseur - on fait un échantillon stratifié par type de produit (Epicerie / Boisson)

```
[12]: filtered_df = df.loc[(df.type.isin(['grocery', 'nonAlcoholicDrink']))
                          & (df.has_supplierdatasheet)]
train, ground_truth_df = train_test_split(filtered_df,
                                           test_size=500,
                                           random_state=42,
                                           stratify=filtered_df.type)
ground_truth_df
```

[illegible]

[illegible]

On exporte également au format csv les uids des produits et les libellés associés (pour s'assurer qu'il n'y a pas eu de confusion lorsqu'on lit une fiche technique).

[illegible]

On teste également la possibilité de recharger les données depuis le fichier csv, une fois qu'il a été renseigné à la main dans excel.

```
[20]: pd.read_csv(os.path.join('..', '..', 'ground_truth', 'manually_labelled_ground_truth.csv'),
                sep=';',
                encoding='latin-1',
                index_col='uid')
```

```
[20]:
```

uid	designation \
a0492df6-9c76-4303-8813-65ec5ccbfa70	Concentré liquide Asian en bouteille 980 ml CHEF
d183e914-db2f-4e2f-863a-a3b2d054c0b8	Pain burger curry 80 g CREATIV BURGER
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8	Macaroni en sachet 500 g PANZANI
...	...
e67341d8-350f-46f4-9154-4dbbb8035621	PRÉPARATION POUR CRÈME BRÛLÉE BIO 6L
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3	Céréales instantanées en poudre saveur caramel...
0faad739-ea8c-4f03-b62e-51ee592a0546	FARINE DE BLÉ TYPE 45, 10KG
	ingredients
uid	
a0492df6-9c76-4303-8813-65ec5ccbfa70	Eau, maltodextrine, sel, arômes, sucre, arôme ...
d183e914-db2f-4e2f-863a-a3b2d054c0b8	Farine de blé T65, eau, levure, vinaigre de ci...
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8	- 100% Semoule de BLE dur de qualité supérieur...
...	...
e67341d8-350f-46f4-9154-4dbbb8035621	Sucre roux de canne*° (64%), amidon de maïs*, ...
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3	Farine 87,1 % (Blé (GLUTEN), Blé hydrolysé (GL...
0faad739-ea8c-4f03-b62e-51ee592a0546	Farine de blé T45

```
[500 rows x 2 columns]
```

## 1.4 Résultat de l'étiquetage manuel

Le résultat de l'étiquetage manuel est le suivant :

```
[3]: df_gt = pd.read_csv(os.path.join('.', '..', 'ground_truth', 'manually_labelled_ground_truth.csv'),
                        sep=';',
                        encoding='latin-1',
                        index_col='uid')

def to_latex_newline(text):
```

```

return(text.replace('\n', ' '))

with pd.option_context("max_colwidth", 1000):
    print(df_gt)
    df_gt.to_latex(Path('.') / 'tbls' / 'ground_truth.tex',
                    index=False,
                    index_names=False,
                    column_format='p{5cm}p{10cm}',
                    formatters=[to_latex_newline, to_latex_newline],
                    longtable=True,
                    na_rep='-',
                    escape=True,
                    )

```

	designation
\	
uid	
a0492df6-9c76-4303-8813-65ec5ccbfa70	Concentré liquide Asian en bouteille 980 ml CHEF
d183e914-db2f-4e2f-863a-a3b2d054c0b8	Pain burger curry 80 g CREATIV BURGER
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8	Macaroni en sachet 500 g PANZANI
...	...
e67341d8-350f-46f4-9154-4dbbb8035621	PRÉPARATION POUR CRÈME BRÛLÉE BIO 6L
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3	Céréales instantanées en poudre saveur caramel en boîte 400 g BLEDINA
0faad739-ea8c-4f03-b62e-51ee592a0546	FARINE DE BLÉ TYPE 45, 10KG
ingredients	
uid	
a0492df6-9c76-4303-8813-65ec5ccbfa70	Eau, maltodextrine, sel, arômes, sucre, arôme naturel de citronnelle, amidon modifié, ail en poudre, épices (combava, curcuma), extraits d'épices (gingembre, poivre), stabilisant (gomme xanthane).
d183e914-db2f-4e2f-863a-a3b2d054c0b8	Farine de blé T65, eau, levure, vinaigre de cidre, huile de colza, assaisonnement poudre de curry, sel, acide ascorbique, émulsifiant : E471.
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8	- 100% Semoule de BLE dur de qualité supérieure\n- Contient du gluten\nSi le numéro de lot contient la lettre N : peu contenir de l'oeuf
...	
...	
e67341d8-350f-46f4-9154-4dbbb8035621	Sucre roux de canne*° (64%), amidon de maïs*, poudre de LAIT écrémé*, poudre d'OEufs entiers*, gélifiants : carraghénanes, agar-agar* ; arôme naturel de vanille* et autres arômes naturels*, poudre de gousses de vanille*, curcuma*.\n* Produits issus de l'Agriculture Biologique.\n° Ingrédient issu du commerce équitable. 65.1% des ingrédients d'origine agricole sont issus du commerce équitable (Sucre : Paraguay).
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3	Farine 87,1 % (Blé (GLUTEN), Blé hydrolysé (GLUTEN)) - Sucre - Caramel 5,00 % - Arôme - Vitamines (C, B1) - Diphosphate ferrique
0faad739-ea8c-4f03-b62e-51ee592a0546	Farine de blé T45

[500 rows x 2 columns]

## 1.5 Comparatif entre les données étiquetées et le contenu du PIM

On peut comparer le contenu des listes d'ingrédients du PIM et les données étiquetées.

```

[5]: requester = Requester('prd')
      requester.fetch_all_from_PIM()
      requester.result

```

Done

On récupère le contenu du PIM

```

[7]: df = requester.result_to_dataframe()
      pim_ds = df['properties.pprod:ingredientsList']
      pim_ds

```

[7]:

entity-type repository \			
uid			
afee12c7-177e-4a68-9539-8cbb68442503	document	default	
7d390121-17e8-43bf-a357-9d06b79d2d47	document	default	
f234cd84-c8f6-433f-85ec-6e0b6980adc6	document	default	
...	...	...	
ef42a938-2203-446e-8d28-9fd27c6d3146	document	default	
68f5d81b-7f91-40a0-8504-0ec320a86de4	document	default	
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	document	default	
	path	type	\
uid			
afee12c7-177e-4a68-9539-8cbb68442503	/default-domain/pomSupplierWorkspace/SICO/DEST...	pomProduct	
7d390121-17e8-43bf-a357-9d06b79d2d47	/default-domain/pomSupplierWorkspace/UNILEVER_...	pomProduct	
f234cd84-c8f6-433f-85ec-6e0b6980adc6	/default-domain/pomSupplierWorkspace/AZTECA_FO...	pomProduct	
...	...	...	
ef42a938-2203-446e-8d28-9fd27c6d3146	/default-domain/pomSupplierWorkspace/SICO/DETE...	pomProduct	
68f5d81b-7f91-40a0-8504-0ec320a86de4	/default-domain/pomSupplierWorkspace/SICO/NETT...	pomProduct	
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	/default-domain/pomSupplierWorkspace/SICO/SPRA...	pomProduct	
	state	\	
uid			
afee12c7-177e-4a68-9539-8cbb68442503	product.waiting.supplier.validation		
7d390121-17e8-43bf-a357-9d06b79d2d47	product.waiting.supplier.validation		
f234cd84-c8f6-433f-85ec-6e0b6980adc6	product.waiting.supplier.validation		
...	...		
ef42a938-2203-446e-8d28-9fd27c6d3146	product.waiting.supplier.validation		
68f5d81b-7f91-40a0-8504-0ec320a86de4	product.waiting.supplier.validation		
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	product.waiting.supplier.validation		
	parentRef	isCheckedOut	isVersion \
uid			
afee12c7-177e-4a68-9539-8cbb68442503	a58845c0-cab3-492f-b48d-531f146c3777	True	False
7d390121-17e8-43bf-a357-9d06b79d2d47	a37abc27-f485-4ae9-921b-f761f16c8c1c	False	False
f234cd84-c8f6-433f-85ec-6e0b6980adc6	3ff7819a-a392-493f-beb8-0b323ac331c7	True	False
...	...	...	...
ef42a938-2203-446e-8d28-9fd27c6d3146	a58845c0-cab3-492f-b48d-531f146c3777	True	False
68f5d81b-7f91-40a0-8504-0ec320a86de4	a58845c0-cab3-492f-b48d-531f146c3777	True	False
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	a58845c0-cab3-492f-b48d-531f146c3777	True	False
	isProxy	changeToken	...
uid			
afee12c7-177e-4a68-9539-8cbb68442503	False	17-0	...
7d390121-17e8-43bf-a357-9d06b79d2d47	False	15-0	...
f234cd84-c8f6-433f-85ec-6e0b6980adc6	False	33-0	...
...	...	...	...
ef42a938-2203-446e-8d28-9fd27c6d3146	False	17-0	...
68f5d81b-7f91-40a0-8504-0ec320a86de4	False	17-0	...
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	False	17-0	...
	properties.pprodqmd:manufacturingDiagram.length	\	
uid			
afee12c7-177e-4a68-9539-8cbb68442503	NaN		
7d390121-17e8-43bf-a357-9d06b79d2d47	NaN		
f234cd84-c8f6-433f-85ec-6e0b6980adc6	NaN		
...	...		
ef42a938-2203-446e-8d28-9fd27c6d3146	NaN		
68f5d81b-7f91-40a0-8504-0ec320a86de4	NaN		
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	NaN		
	properties.pprodqmd:manufacturingDiagram.data	\	
uid			
afee12c7-177e-4a68-9539-8cbb68442503	NaN		
7d390121-17e8-43bf-a357-9d06b79d2d47	NaN		
f234cd84-c8f6-433f-85ec-6e0b6980adc6	NaN		
...	...		
ef42a938-2203-446e-8d28-9fd27c6d3146	NaN		

68f5d81b-7f91-40a0-8504-0ec320a86de4  
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a

NaN  
NaN

properties.pprodqmd:secondaryPackagingPhoto.name \

uid  
afee12c7-177e-4a68-9539-8cbb68442503  
7d390121-17e8-43bf-a357-9d06b79d2d47  
f234cd84-c8f6-433f-85ec-6e0b6980adc6  
...  
ef42a938-2203-446e-8d28-9fd27c6d3146  
68f5d81b-7f91-40a0-8504-0ec320a86de4  
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a

NaN  
NaN  
NaN  
...  
NaN  
NaN  
NaN

properties.pprodqmd:secondaryPackagingPhoto.mime-type \

uid  
afee12c7-177e-4a68-9539-8cbb68442503  
7d390121-17e8-43bf-a357-9d06b79d2d47  
f234cd84-c8f6-433f-85ec-6e0b6980adc6  
...  
ef42a938-2203-446e-8d28-9fd27c6d3146  
68f5d81b-7f91-40a0-8504-0ec320a86de4  
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a

NaN  
NaN  
NaN  
...  
NaN  
NaN  
NaN

properties.pprodqmd:secondaryPackagingPhoto.encoding \

uid  
afee12c7-177e-4a68-9539-8cbb68442503  
7d390121-17e8-43bf-a357-9d06b79d2d47  
f234cd84-c8f6-433f-85ec-6e0b6980adc6  
...  
ef42a938-2203-446e-8d28-9fd27c6d3146  
68f5d81b-7f91-40a0-8504-0ec320a86de4  
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a

NaN  
NaN  
NaN  
...  
NaN  
NaN  
NaN

properties.pprodqmd:secondaryPackagingPhoto.digestAlgorithm \

uid  
afee12c7-177e-4a68-9539-8cbb68442503  
7d390121-17e8-43bf-a357-9d06b79d2d47  
f234cd84-c8f6-433f-85ec-6e0b6980adc6  
...  
ef42a938-2203-446e-8d28-9fd27c6d3146  
68f5d81b-7f91-40a0-8504-0ec320a86de4  
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a

NaN  
NaN  
NaN  
...  
NaN  
NaN  
NaN

properties.pprodqmd:secondaryPackagingPhoto.digest \

uid  
afee12c7-177e-4a68-9539-8cbb68442503  
7d390121-17e8-43bf-a357-9d06b79d2d47  
f234cd84-c8f6-433f-85ec-6e0b6980adc6  
...  
ef42a938-2203-446e-8d28-9fd27c6d3146  
68f5d81b-7f91-40a0-8504-0ec320a86de4  
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a

NaN  
NaN  
NaN  
...  
NaN  
NaN  
NaN

properties.pprodqmd:secondaryPackagingPhoto.length \

uid  
afee12c7-177e-4a68-9539-8cbb68442503  
7d390121-17e8-43bf-a357-9d06b79d2d47  
f234cd84-c8f6-433f-85ec-6e0b6980adc6  
...  
ef42a938-2203-446e-8d28-9fd27c6d3146  
68f5d81b-7f91-40a0-8504-0ec320a86de4  
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a

NaN  
NaN  
NaN  
...  
NaN  
NaN  
NaN

properties.pprodqmd:secondaryPackagingPhoto.data \

uid  
afee12c7-177e-4a68-9539-8cbb68442503  
7d390121-17e8-43bf-a357-9d06b79d2d47

NaN  
NaN

f234cd84-c8f6-433f-85ec-6e0b6980adc6	NaN
...	...
ef42a938-2203-446e-8d28-9fd27c6d3146	NaN
68f5d81b-7f91-40a0-8504-0ec320a86de4	NaN
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a	NaN

```

properties.notif:notifications
uid
afee12c7-177e-4a68-9539-8cbb68442503      NaN
7d390121-17e8-43bf-a357-9d06b79d2d47      NaN
f234cd84-c8f6-433f-85ec-6e0b6980adc6      NaN
...
ef42a938-2203-446e-8d28-9fd27c6d3146      NaN
68f5d81b-7f91-40a0-8504-0ec320a86de4      NaN
6dfce29e-fd4c-4670-9f9c-5c02a5b4d52a      NaN

```

[13212 rows x 487 columns]

On charge le csv des données étiquetées :

```

[61]: df_gt = pd.read_csv(os.path.join('.', '..', 'ground_truth', 'manually_labelled_ground_truth.csv'),
                        sep=';',
                        encoding='latin-1',
                        index_col='uid')
df_gt

```

```

[61]:
                                designation \
uid
a0492df6-9c76-4303-8813-65ec5ccbfa70    Concentré liquide Asian en bouteille 980 ml CHEF
d183e914-db2f-4e2f-863a-a3b2d054c0b8    Pain burger curry 80 g CREATIV BURGER
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8    Macaroni en sachet 500 g PANZANI
...
e67341d8-350f-46f4-9154-4dbbb8035621    PRÉPARATION POUR CRÈME BRÛLÉE BIO 6L
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3    Céréales instantanées en poudre saveur caramel...
0faad739-ea8c-4f03-b62e-51ee592a0546    FARINE DE BLÉ TYPE 45, 10KG

                                ingredients
uid
a0492df6-9c76-4303-8813-65ec5ccbfa70    Eau, maltodextrine, sel, arômes, sucre, arôme ...
d183e914-db2f-4e2f-863a-a3b2d054c0b8    Farine de blé T65, eau, levure, vinaigre de ci...
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8    - 100% Semoule de BLE dur de qualité supérieur...
...
e67341d8-350f-46f4-9154-4dbbb8035621    Sucre roux de canne*° (64%), amidon de maïs*, ...
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3    Farine 87,1 % (Blé (GLUTEN), Blé hydrolysé (GL...
0faad739-ea8c-4f03-b62e-51ee592a0546    Farine de blé T45

[500 rows x 2 columns]

```

Comme l'index de la series des données issues du PIM, et du dataframe de la ground truth est le même (l'uid du produit), on peut faire très simplement la jointure via la méthode join :

```

[62]: merged = (df_gt.join(pim_ds)
                .rename({'ingredients': 'Ingrédients de la ground truth',
                        'properties.pprod:ingredientsList': 'Ingrédients du PIM'},
                        axis=1)
                )
merged

```

```

[62]:
                                designation \
uid
a0492df6-9c76-4303-8813-65ec5ccbfa70    Concentré liquide Asian en bouteille 980 ml CHEF
d183e914-db2f-4e2f-863a-a3b2d054c0b8    Pain burger curry 80 g CREATIV BURGER
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8    Macaroni en sachet 500 g PANZANI
...
e67341d8-350f-46f4-9154-4dbbb8035621    PRÉPARATION POUR CRÈME BRÛLÉE BIO 6L
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3    Céréales instantanées en poudre saveur caramel...

```



0faad739-ea8c-4f03-b62e-51ee592a0546

FARINE DE BLÉ TYPE 45, 10KG

#### Ingrédients de la ground truth \

```
uid
a0492df6-9c76-4303-8813-65ec5ccbfa70 Eau, maltodextrine, sel, arômes, sucre, arôme ...
d183e914-db2f-4e2f-863a-a3b2d054c0b8 Farine de blé T65, eau, levure, vinaigre de ci...
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8 - 100% Semoule de BLE dur de qualité supérieur...
...
e67341d8-350f-46f4-9154-4dbbb8035621 Sucre roux de canne*° (64%), amidon de maïs*, ...
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3 Farine 87,1 % (Blé (GLUTEN), Blé hydrolysé (GL...
0faad739-ea8c-4f03-b62e-51ee592a0546 Farine de blé T45
```

#### Ingrédients du PIM

```
uid
a0492df6-9c76-4303-8813-65ec5ccbfa70 Eau, maltodextrine, sel, arômes, sucre, arôme ...
d183e914-db2f-4e2f-863a-a3b2d054c0b8 Farine de BLE T65, eau, levure, huile de colz...
ab48a1ed-7a3d-4686-bb6d-ab4f367cada8 100% Semoule de BLE dur de qualité supérieure
...
e67341d8-350f-46f4-9154-4dbbb8035621 Sucre roux de canne*°(64%), amidon de maïs*, p...
a8f6f672-20ac-4ff8-a8f2-3bc4306c8df3 Farine 87,1 % (BLE (GLUTEN), BLE hydrolysé (GL...
0faad739-ea8c-4f03-b62e-51ee592a0546 farine de BLE T45
```

[500 rows x 3 columns]

On peut compter les égalités strictes entre les ingrédients du PIM et ceux de la ground truth :

```
[63]: merged['equals'] = (merged['Ingrédients du PIM'] == merged['Ingrédients de la ground truth'])
merged['equals'].value_counts()
```

```
[63]: False    450
      True     50
      Name: equals, dtype: int64
```

Seules 50 listes d'ingrédients sont strictement identiques. Si on compare les listes qui ne le sont pas, on obtient :

```
[64]: diff = merged.loc[~merged['equals'], ['Ingrédients du PIM', 'Ingrédients de la ground truth']]
for i in range(20):
    print('+++++')
    print('Issu du PIM :')
    print(diff.iloc[i].loc['Ingrédients du PIM'])
    print('-----')
    print('Issu de la ground truth :')
    print(diff.iloc[i].loc['Ingrédients de la ground truth'])
    print('+++++\n')
```

```
+++++
Issu du PIM :
Farine de BLE T65, eau, levure, huile de colza, sel, vinaigre de cidre, assaisonnement poudre de curry,
agent de traitement de la farine : acide ascorbique, émulsifiant : E471
-----
```

```
Issu de la ground truth :
Farine de blé T65, eau, levure, vinaigre de cidre, huile de colza, assaisonnement poudre de curry, sel,
acide ascorbique, émulsifiant : E471.
+++++
```

```
+++++
Issu du PIM :
100% Semoule de BLE dur de qualité supérieure
-----
```

```
Issu de la ground truth :
- 100% Semoule de BLE dur de qualité supérieure
- Contient du gluten
Si le numéro de lot contient la lettre N : peu contenir de l'oeuf
+++++
```

```
+++++
Issu du PIM :
```

Fève de tonka, taux de coumarine compris entre 1 et 3,5%

-----  
Issu de la ground truth :

fève de tonka (graines ridées de 25 à 50mm de long)

Taux de coumarine compris entre 1 et 3,5 %

+++++

+++++

Issu du PIM :

Aubergine 60,5% (aubergine, huile de tournesol), eau, oignon, huile de tournesol, jus de citron, concentré de tomate, huile d'olive vierge extra 2%, ail, sel, persil, basilic, poivre, thym, romarin.

-----  
Issu de la ground truth :

Aubergine 60,5% (aubergine, huile de tournesol), eau, oignon, huile de tournesol, jus de citron, concentré de tomate, huile d'olive vierge extra (2%), ail, sel, persil, basilic, poivre, thym, romarin.

+++++

+++++

Issu du PIM :

Ingrédients : Myrtille Cassis : Fruits (myrtilles 41%, cassis 9%), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectines de fruits. Fraise Groseille : Fruits (fraises 27 %, groseilles 23 %), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectines de fruits. Abricot Pêche : Fruits (abricots 34%, pêches 16%), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectines de fruits. Orange Douce Mandarine : Fruits (oranges douces 37%, mandarines 3%), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectines de fruits.

-----  
Issu de la ground truth :

Confiture de myrtilles et de cassis

fruits (myrtilles 41%, cassis 9%), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectine de fruits.

Confiture de fraises et de groseilles

fruits (fraises 27 %, groseilles 23 %), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectine de fruits.

Confiture d'abricots et de pêches

fruits (abricots 34%, pêches 16%), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectine de fruits.

Marmelade d'oranges douces et de mandarines

fruits (oranges douces 37%, mandarines 3%), sucre, sucre roux de canne, jus de citrons concentré, gélifiant : pectine de fruits.

+++++

+++++

Issu du PIM :

Pommes 95%, sirop de glucose-fructose, arôme, antioxydant : acide ascorbique

-----  
Issu de la ground truth :

Pommes 95%, sirop de glucose-fructose, arôme, antioxydant: acide ascorbique.

+++++

+++++

Issu du PIM :

Riz, sucre, cacao maigre en poudre, Maltodextrine, pâte de cacao, sel, arôme de malt d'ORGE, arôme, arôme naturel. Vitamines et Minéraux : carbonate de calcium, vitamines (niacine, B6, B2, B1, acide folique, D, B12), fer.

-----  
Issu de la ground truth :

Riz, Sucre, Cacao maigre en poudre, Maltodextrine, Pâte de cacao, Sel, Arôme de malt d'orge, Arôme, Arôme naturel.

+++++

+++++

Issu du PIM :

jus d'orange issu de l'agriculture biologique

-----  
Issu de la ground truth :

jus d'orange issu de l'agriculture biologique.

+++++

+++++

Issu du PIM :

Persil.

-----

Issu de la ground truth :

Persil

+++++

+++++

Issu du PIM :

Pommes de terre, huile de tournesol 35%, assaisonnement poulet (maltodextrine, farine de BLE, dextrose, extrait de levure, arôme, sel, oignon déshydraté, viande et graisse de poulet, ail, colorant : extrait de paprika E160c, Antioxydant : extrait de romarin E392), sel,

-----

Issu de la ground truth :

Pommes de terre, huile de tournesol (35%), assaisonnement poulet (maltodextrine, farine de blé, dextrose, extrait de levure, arôme, sel, oignon déshydraté, viande et graisse de poulet, ail, colorant : extrait de paprika E160c, Antioxydant : extrait de romarin E392), sel

Traces éventuelles de moutarde et lait

+++++

+++++

Issu du PIM :

Sucre, huiles végétales (Colza), NOISETTES (13%), poudre de cacao maigre (7%), LAIT écrémé en poudre , LACTOSERUM en poudre, lactose. Emulsifiant lécithine de tournesol. Arôme : vanilline

-----

Issu de la ground truth :

Sucre, huiles végétales ( Colza), noisettes (13%), poudre de cacao maigre (7%), lait écrémé en poudre , lactosérum en poudre, lactose. Emulsifiant lécithine de tournesol. Arôme : vanilline

Allergènes : Le produit peut contenir traces éventuelles de soja arachide et autre fruits a coque.

+++++

+++++

Issu du PIM :

Huile d'olive vierge extra 99.5%, Arôme

-----

Issu de la ground truth :

Huile d'olive vierge extra 99,5%, Arôme

+++++

+++++

Issu du PIM :

Huile de colza, extrait naturel de piment de Cayenne.

-----

Issu de la ground truth :

Huile de colza, extrait naturel de piment de Cayenne

+++++

+++++

Issu du PIM :

Piment rouge fort équeuté\* (85%), cumin, ail moulu (3%), eau, arôme naturel d'ail, sel, sorbate de potassium. (\* présence de sulfites)

-----

Issu de la ground truth :

Piment rouge fort équeuté\* (85%), cumin, ail moulu (3%), eau, arôme naturel d'ail, sel, sorbate de potassium. (\* présence de sulfites)

+++++

+++++

Issu du PIM :

Sucre de canne, eau, sirop de fructose-glucose, arômes, colorant : caramel ordinaire, arôme naturel de vanille.

-----

Issu de la ground truth :

SUCRE DE CANNE, EAU, AROME, COLORANT : E 150a, AROME NATUREL DE VANILLE.

+++++

+++++

Issu du PIM :  
Baie des Batak 100%

-----  
Issu de la ground truth :  
Baie des Batak

+++++  
Issu du PIM :

FILETS DE MAQUEREUX 61%, eau, concentré de tomate 15%, huile de tournesol, vinaigre d'alcool, vinaigre de vin blanc, sel, vin blanc, épaississant : gomme xanthane, arômes.

-----  
Issu de la ground truth :

Filets de maquereaux (61 %), eau, concentré de tomate (15%), huile de tournesol, vinaigre d'alcool, vinaigre de vin blanc, sel, vin blanc, épaississant : gomme xanthane, arômes.

+++++  
Issu du PIM :

Mélange de blés de pays

-----  
Issu de la ground truth :

Mélange de Blés de pays recommandés par la meunerie .

+++++  
Issu du PIM :

LAIT entier 88%, sucre, poudre de chocolat 3,1% (sucre, poudre de cacao), amidon modifié de manioc, chocolat au LAIT 0,57% ( sucre, pâte de cacao, poudre de LAIT entier, beurre de cacao, poudre de LAIT écrémé), arôme naturel, épaississants : gomme gellane et gomme guar, correcteur d'acidité : citrate de sodium, concentré de minéraux du LAIT, vitamine D3.

-----  
Issu de la ground truth :

Lait entier (88%) ; sucre ; poudre de chocolat (3.1%) (sucre, poudre de cacao) ; amidon modifié de manioc ; chocolat au lait (0,57%) (sucre, pâte de cacao, poudre de lait entier, beurre de cacao, poudre de lait écrémé) ; arôme naturel ; épaississants : gomme gellane, gomme guar ; correcteur d'acidité : citrate tri-sodique ; concentré de minéraux du lait ; vitamine D3.

+++++  
Issu du PIM :

Ingrédients : Sirop de glucose-fructose, farine de BLÉ , sucre, purée d'orange 5,4 %, jus d'orange concentré 1,5 % (équivalent jus d'orange 8 %), huile de colza, jaunes d' OEUFs en poudre, stabilisant (glycérol), poudre à lever (carbonate acide d'ammonium), gélifiant (pectines), acidifiant (acide citrique), arômes, colorant (rocou), conservateur (sorbate de potassium). PEUT CONTENIR LAIT, FRUITS À COQUE, SÉSAME.

-----  
Issu de la ground truth :

Sirop de glucose-fructose, farine de BLÉ , sucre, purée d'orange 5,4 %, jus d'orange concentré 1,5 % (équivalent jus d'orange 8 %), huile de colza, jaunes d' OEUFs en poudre, stabilisant (glycérol), poudre à lever (carbonate acide d'ammonium), gélifiant (pectines), acidifiant (acide citrique), arômes, colorant (rocou), conservateur (sorbate de potassium). PEUT CONTENIR LAIT, FRUITS À COQUE, SÉSAME.

+++++  
On peut sortir un tableau des données en écart, de manière basique :

```
[97]: with pd.option_context("max_colwidth", 100000):
      tex_str = (
        diff.sample(10, random_state=44)
          .to_latex(index=False,
                    index_names=False,
                    column_format='p{7cm}p{7cm}',
                    na_rep='- ',
                    )
          .replace(r'\textbackslash n', '\\\newline ')
      )
      print(tex_str)
```

```
with open(Path('.') / 'tbls' / 'ingredient_comparison.tex', 'w') as file:
    file.write(tex_str)
```

```
\begin{tabular}{p{7cm}p{7cm}}
```

```
\toprule
```

Ingrédients du PIM &

Ingrédients de la ground truth \\\

```
\midrule
```

Céréales (farine de FROMENT (27,5\%), céréales complètes (15,1\%) (farine complète de FROMENT (15\%), farine complète de SEIGLE, farine complète d'ORGE) sucre graisses végétales (palme, palmiste, colza) poudre de cacao maigre (5,1\%) amidon de BLE LAIT écrémé en poudre (équivalent lait 16\%) amidon de pomme de terre poudres à lever (carbonates de sodium et d'ammonium, diphosphates) LACTOSE et protéines de LAIT sel arôme émulsifiant : lécithine de tournesol agent de traitement de la farine : E223 (SULFITES). &

Céréales [farine de froment (27.5\%), céréales complètes (15.1\%) (farine complète de froment (15 \%), farine complète de seigle , farine complète d'orge ]] sucre graisses végétales (palme, palmiste, colza) poudre de cacao maigre (5.1\%) amidon de blé lait écrémé en poudre (équivalent lait 16\%) amidon de pomme de terre poudres à lever (carbonates de sodium et d'ammonium, diphosphates) lactose et protéines de lait sel arôme émulsifiant : lécithine de tournesol agent de traitement de la farine : E223 (sulfites)\newline Peut contenir des traces de fruits à coque, de soja, d'oeuf et de sésame \\\

cheddar fondu(44\%) (eau, LACTOSERUM, cheddar(5\%) (LAIT, ferments, acidifiant (sulfates de sodium (\newline E514)), enzymes), LAIT écrémé, maltodextrine, antioxydant (phosphate de sodium (E339)), CREME, épaississants (\newline octényle succinate d'amidon sodique (E1450), gomme xanthane (E415)), acidifiant (sulfates de sodium (E514))), eau,\newline huile de palme, épaississants (amidon modifié de tapioca, amidon modifié de maïs), maltodextrine, acidifiants (sulfates de \newline sodium (E514), citrate de sodium (E331), acide phosphorique (E338), acide lactique (E270)), arôme, antioxydant (\newline phosphate de sodium (E339)), colorants (bêta carotène (E160a), annatto (E160b), extrait de paprika (E160c)), émulsifiant\newline (stéaroyl-2-lactylate de sodium (E481), mono et diglycérides d'acides gras alimentaires (E471)) & cheddar fondu (44\%) (eau, lactosérum, cheddar (5\%) (lait, ferments, acidifiant (sulfates de sodium (E514)), enzymes), lait écrémé, maltodextrine, antioxydant (phosphate de sodium (E339)), crème, épaississants (octényle succinate d'amidon sodique (E1450), gomme xanthane (E415)), acidifiant (sulfates de sodium (E514))), eau, huile de palme, épaississants (amidon modifié de tapioca, amidon modifié de maïs), maltodextrine, acidifiants (sulfates de sodium (E514), citrate de sodium (E331), acide phosphorique (E338), acide lactique (E270)), arôme, antioxydant (phosphate de sodium (E339)), colorants (bêta carotène (E160a), annatto (E160b), extrait de paprika (E160c)), émulsifiants (stéaroyl-2-lactylate de sodium (E481), mono et diglycérides d'acides gras alimentaires (E471)) \\\

Pommes\* (80\%), framboises\* (20\%) &

pommes\* (80\%), framboises\* (20\%)\newline \*Ingrédient issu de l'agriculture biologique \\\

Eau, graines de MOUTARDE, vinaigre d'alcool, sel, vin blanc (contient SULFITES), sucre, épices, acidifiant (acide citrique), conservateur (DISULFITE de potassium) &

Eau, graines de moutarde, vinaigre d'alcool, sel, vin blanc (contient sulfites), sucre, épices, acidifiant (acide citrique), conservateur (disulfite de potassium) \\\

Pâte à tartiner aux NOISETTES et au cacao 81,5 \% (sucre, huile de palme, NOISETTES 13\%, LAIT écrémé en poudre 8,7\%, cacao maigre 7,4\%, émulsifiants : lécithines [SOJA] , vanilline), farine de FROMENT 16\%, levure de bière, extrait de malt d'ORGE, sel, LAIT écrémé en poudre, émulsifiants : lécithines [SOJA] , protéines de FROMENT, protéines de LAIT, eau. &

pâte à tartiner aux noisettes et au cacao 81,5 \% (sucre, huile de palme, noisettes 13\%, lait écrémé en poudre 8,7\%, cacao maigre 7,4\%, émulsifiants : lécithines [soja] ; vanilline), farine de froment 16\%, levure de bière, extrait de malt d'orge, sel, lait écrémé en poudre, émulsifiants : lécithines [soja] ; protéines de froment, protéines de lait, eau.\newline Le chocolat utilisé est un chocolat pur beurre de cacao. \\\

Sirop de glucose, sucre, amidons transformés, acidifiants: acide citrique, acide malique, correcteurs d'acidité: citrate tricalcique, malate acide de sodium, agent d'enrobage: cire de carnauba, arôme, concentrés de fruits et de plantes: carthame, citron, colorants: carmins, bleu patenté V, lutéine, sirop de sucre inverti. &

sirop de glucose; sucre; amidons transformés; acidifiants: acide citrique, acide malique; correcteurs d'acidité: citrate tricalcique, malate acide de sodium; agent d'enrobage: cire de carnauba; arôme; concentrés de fruits et de plantes: carthame, citron; colorants: carmins, bleu patenté V, lutéine; sirop de sucre inverti. \\\

Huile de colza, jaunes d'OEUFs, purée de tomates, eau, vinaigre, câpres (2.8 \%) (câpres, eau, sel), cornichons (2.8 \%) (cornichons, vinaigre, sel), sucre, sel, amidon modifié, acidifiant : glucono-delta-lactone, conservateur : sorbate de potassium, antioxydant : E385, épice, arôme naturel aneth. &

Huile de colza (70.45 \%), jaunes d'oeufs (6.2 \%), purée de tomates, eau, vinaigre, câpres (2.8 \%) (câpres, eau, sel), cornichons (2.8 \%) (cornichons, vinaigre, sel), sucre, sel, amidon modifié, acidifiant

```

: glucono-delta-lactone, conservateur : sorbate de potassium, antioxydant : E385 (74 mg/kg), épice, arôme naturel aneth. \\
Lentilles, eau, sel, arôme naturel (CELERI) &
Lentilles, eau, sel, arôme naturel (céleri) \\
Ingrédients: Sucre, pâte de cacao, NOISETTES (23\%) , beurre de cacao, BEURRE concentré, émulsifiant (lécithine de SOJA), arôme, LAIT écrémé en poudre. Cacao: 46\% minimum dans le chocolat noir. PEUT CONTENIR AUTRES FRUITS À COQUE.\textbackslash t\textbackslash t\textbackslash t\newline &
Sucre, pâte de cacao, NOISETTES (23\%) , beurre de cacao, BEURRE concentré, émulsifiant (lécithine de SOJA), arôme, LAIT écrémé en poudre. Cacao: 46\% minimum dans le chocolat noir. PEUT CONTENIR AUTRES FRUITS À COQUE. \\
Huile de colza, eau, vinaigre d'alcool, jaunes d'OEUFs, sucre, estragon (2,5\%), échalote (2,4\%), sel, cerfeuil, jus de citron à base de concentré, piment de Cayenne, arômes, amidon modifié, colorant : bêta-carotène, conservateur : sorbate de potassium. &
Huile de colza, eau, vinaigre d'alcool, jaunes d'oeufs, sucre, estragon (2,5\%), échalote (2,4\%), sel, cerfeuil, jus de citron à base de concentré, piment de Cayenne, arômes, amidon modifié, colorant : bêta-carotène, conservateur : sorbate de potassium.Ce produit peut contenir des traces de moutarde. \\
\bottomrule
\end{tabular}

```

## 1.6 Analyse du contenu des pièces jointes téléchargées

On peut faire une estimation des pièces jointes dont les textes sont extractibles. On commence simplement par lister les pièces jointes relatives à la ground truth qui ont été téléchargées.

```

[5]: p = Path('.') / 'ground_truth_to_del'
list(p.glob('**/*.pdf'))

[5]: [PosixPath('ground_truth_to_del/1bca5540-b129-4593-a1e9-fa909234ad39/FTF.pdf'),
PosixPath('ground_truth_to_del/1bca5540-b129-4593-a1e9-fa909234ad39/Etiquette.pdf'),
PosixPath('ground_truth_to_del/0111c5f2-f00b-4fba-a266-716b3909f4b5/FTF.pdf'),
PosixPath('ground_truth_to_del/026ab402-d218-432d-98f8-05641dad48e/FTF.pdf'),
PosixPath('ground_truth_to_del/00deb6c-51b4-4aa5-a6f6-9ce853e4f411/FTF.pdf'),
PosixPath('ground_truth_to_del/00deb6c-51b4-4aa5-a6f6-9ce853e4f411/Etiquette.pdf'),
PosixPath('ground_truth_to_del/1929e781-ca8a-4942-9f68-a7cc639f182c/FTF.pdf'),
PosixPath('ground_truth_to_del/0c6e3b79-1260-4ff9-ad9b-3d44cf3b93ca/FTF.pdf'),
PosixPath('ground_truth_to_del/05fa67dc-01e6-4f13-9aea-87801a96ce3c/FTF.pdf'),
PosixPath('ground_truth_to_del/05fa67dc-01e6-4f13-9aea-87801a96ce3c/Etiquette.pdf'),
PosixPath('ground_truth_to_del/1c9701d0-24fd-4563-b4aa-5a9b91a6f4d5/FTF.pdf'),
PosixPath('ground_truth_to_del/1c9701d0-24fd-4563-b4aa-5a9b91a6f4d5/Etiquette.pdf'),
PosixPath('ground_truth_to_del/22dd5f03-d569-471e-ad93-d41d155dd83d/FTF.pdf'),
PosixPath('ground_truth_to_del/22dd5f03-d569-471e-ad93-d41d155dd83d/Etiquette.pdf'),
PosixPath('ground_truth_to_del/02569dca-2c03-477d-88c4-18be0656501a/FTF.pdf'),
PosixPath('ground_truth_to_del/0c011c3b-c853-4772-8a8d-d3cbf0f687cb/FTF.pdf'),
PosixPath('ground_truth_to_del/0c011c3b-c853-4772-8a8d-d3cbf0f687cb/Etiquette.pdf'),
PosixPath('ground_truth_to_del/48287b28-86f1-4b48-a245-2e32a071a80f/FTF.pdf'),
PosixPath('ground_truth_to_del/48287b28-86f1-4b48-a245-2e32a071a80f/Etiquette.pdf'),
PosixPath('ground_truth_to_del/0a062092-0ecc-47ad-91e0-6f1264945b9d/FTF.pdf'),
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PosixPath('ground\_truth\_to\_del/dc1728ee-6c93-4230-b0ce-a66c244a541a/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/dc1728ee-6c93-4230-b0ce-a66c244a541a/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/db65f752-6e5b-4099-a5cc-00e1d39fbd8f/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/e011208a-0a43-44be-b9a3-3b21e19b21a2/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/f4992fdb-3c1c-4bf0-8a8a-39984a903d44/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/ffff282d-55d7-4551-b1f0-ef71ac1a06f7/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/ffff282d-55d7-4551-b1f0-ef71ac1a06f7/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/efa73d98-2771-4d61-8e86-bfe8dd5c8c1a/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/efa73d98-2771-4d61-8e86-bfe8dd5c8c1a/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/cb641c37-2769-49e2-96dc-a0685c24baf2/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/da73dfd6-37a7-469c-85e5-b1b2ca5b8eb3/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/da73dfd6-37a7-469c-85e5-b1b2ca5b8eb3/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/e6adf15b-64a2-4551-9692-55e64f527310/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/e6adf15b-64a2-4551-9692-55e64f527310/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/cdc90ab0-4d7c-400c-abb1-6dad87a1f546/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/cdc90ab0-4d7c-400c-abb1-6dad87a1f546/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/ad2dcd48-b6af-48f1-8644-67313012369d/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/addbd338-494e-4298-bc81-931b354bec13/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/addbd338-494e-4298-bc81-931b354bec13/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/eac51cd5-6d9f-4dec-b2b5-84127e0792c8/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/eac51cd5-6d9f-4dec-b2b5-84127e0792c8/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/a9dab01d-54dd-4b3b-a654-f2b0bcbac48f/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/a9dab01d-54dd-4b3b-a654-f2b0bcbac48f/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/f81aea52-37aa-44e7-bdd4-1fad066a1a3f/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/f81aea52-37aa-44e7-bdd4-1fad066a1a3f/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/f1309778-89e6-4e4f-96ff-e9cfaf2f577c/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/e2f325c7-3a48-45bd-84ba-c9da92150af5/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/eb0ae514-ab4d-4c01-908a-fb6ed0788697/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/c679c923-cf39-4e40-b072-7474928450c6/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/c679c923-cf39-4e40-b072-7474928450c6/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/ebdae9f9-936f-45fc-9ea3-a3c7b56e8ce7/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/fe2463ab-0d5d-435d-9dbb-83193fe7d881/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/fe2463ab-0d5d-435d-9dbb-83193fe7d881/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/f9771288-d694-4dbd-92e2-7d2a1c7f91b3/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/f9771288-d694-4dbd-92e2-7d2a1c7f91b3/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/e20486db-56a2-4f68-81c7-1e65a00240ab/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/e20486db-56a2-4f68-81c7-1e65a00240ab/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/dea3a70b-abde-4694-9df3-dd668029ea6a/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/dea3a70b-abde-4694-9df3-dd668029ea6a/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/f4b720ef-4123-4aed-95c2-c01fc911ca86/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/f4b720ef-4123-4aed-95c2-c01fc911ca86/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/e2543a15-0c76-4aac-b351-29f7bf4a39fc/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/e2543a15-0c76-4aac-b351-29f7bf4a39fc/Etiquette.pdf'),  
PosixPath('ground\_truth\_to\_del/faa4ec95-528d-49da-92ef-818f0730a3f7/FTF.pdf'),  
PosixPath('ground\_truth\_to\_del/faa4ec95-528d-49da-92ef-818f0730a3f7/Etiquette.pdf'),

```
PosixPath('ground_truth_to_del/fc04906f-ed9c-4a63-8b0e-aefb6c8a88e9/FTF.pdf'),
PosixPath('ground_truth_to_del/e6fc0e9b-7683-40d8-8806-2a8f56338972/FTF.pdf'),
PosixPath('ground_truth_to_del/e6fc0e9b-7683-40d8-8806-2a8f56338972/Etiquette.pdf'),
PosixPath('ground_truth_to_del/d1365e91-a8d5-4dcf-8e65-fb2ce58149cb/FTF.pdf'),
PosixPath('ground_truth_to_del/d1365e91-a8d5-4dcf-8e65-fb2ce58149cb/Etiquette.pdf'),
PosixPath('ground_truth_to_del/be674795-a388-4d89-b245-f067c2323907/FTF.pdf'),
PosixPath('ground_truth_to_del/b74d5082-3335-4547-9624-ec5fcb8b803b/FTF.pdf'),
PosixPath('ground_truth_to_del/b74d5082-3335-4547-9624-ec5fcb8b803b/Etiquette.pdf'),
PosixPath('ground_truth_to_del/fdfdb6f7-296d-410c-baa3-34c422889aa9/FTF.pdf'),
PosixPath('ground_truth_to_del/dddacc22-387d-4a6e-bc83-b6df62f8dd77/FTF.pdf'),
PosixPath('ground_truth_to_del/dddacc22-387d-4a6e-bc83-b6df62f8dd77/Etiquette.pdf'),
PosixPath('ground_truth_to_del/ea0c2ff0-d1e4-48d9-bfbc-c023cb69e9b5/FTF.pdf'),
PosixPath('ground_truth_to_del/ea0c2ff0-d1e4-48d9-bfbc-c023cb69e9b5/Etiquette.pdf'),
PosixPath('ground_truth_to_del/f81724f9-8342-4976-89a5-c97a687c4d41/FTF.pdf'),
PosixPath('ground_truth_to_del/f81724f9-8342-4976-89a5-c97a687c4d41/Etiquette.pdf'),
PosixPath('ground_truth_to_del/f0666c76-b95b-473b-9df6-dd14c95c0de1/FTF.pdf'),
PosixPath('ground_truth_to_del/eff84bd9-7753-474d-9e0e-b1f538f01eb3/FTF.pdf'),
PosixPath('ground_truth_to_del/eff84bd9-7753-474d-9e0e-b1f538f01eb3/Etiquette.pdf'),
PosixPath('ground_truth_to_del/bb3b8b35-c277-4cc7-870f-83589d30f155/FTF.pdf'),
PosixPath('ground_truth_to_del/bb3b8b35-c277-4cc7-870f-83589d30f155/Etiquette.pdf'),
PosixPath('ground_truth_to_del/f7815bab-7817-41e9-a32b-42db912f303f/FTF.pdf'),
PosixPath('ground_truth_to_del/e36a5a29-5080-4b71-a1e3-ad2532efbd6c/FTF.pdf'),
PosixPath('ground_truth_to_del/e36a5a29-5080-4b71-a1e3-ad2532efbd6c/Etiquette.pdf'),
PosixPath('ground_truth_to_del/c26ac97a-cb9e-471c-9539-3465ece703e9/FTF.pdf'),
PosixPath('ground_truth_to_del/c26ac97a-cb9e-471c-9539-3465ece703e9/Etiquette.pdf'),
PosixPath('ground_truth_to_del/fbee557f-b7ca-4139-bd1a-74b72e038abb/FTF.pdf'),
PosixPath('ground_truth_to_del/d4a3dbae-54e5-48e8-8aba-0775ea2e8ea8/FTF.pdf'),
PosixPath('ground_truth_to_del/f3a20b67-2867-4c50-84a6-788d775ad141/FTF.pdf'),
PosixPath('ground_truth_to_del/f9b848ba-78ba-46f1-834c-48282ff7689b/FTF.pdf'),
PosixPath('ground_truth_to_del/ef8afbbb-efbc-4fdf-aa1c-6f664f2c1073/FTF.pdf'),
PosixPath('ground_truth_to_del/d5f1fdcc-8be7-4acd-a138-4a13ba4d26bf/FTF.pdf'),
PosixPath('ground_truth_to_del/febc6e6f-dec9-4759-a2e2-407bb23ae878/FTF.pdf'),
PosixPath('ground_truth_to_del/febc6e6f-dec9-4759-a2e2-407bb23ae878/Etiquette.pdf'),
PosixPath('ground_truth_to_del/fb158edf-043b-48a5-afa5-90a5eb9d6d6a/FTF.pdf'),
PosixPath('ground_truth_to_del/f69fbc61-7c0b-41d1-826f-a377c32331d8/FTF.pdf'),
PosixPath('ground_truth_to_del/f69fbc61-7c0b-41d1-826f-a377c32331d8/Etiquette.pdf'),
PosixPath('ground_truth_to_del/d8232b0f-8dd5-417f-8691-1018681bc434/FTF.pdf'),
PosixPath('ground_truth_to_del/d8232b0f-8dd5-417f-8691-1018681bc434/Etiquette.pdf'),
PosixPath('ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14eb6d574d5b/FTF.pdf'),
PosixPath('ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14eb6d574d5b/Etiquette.pdf'),
PosixPath('ground_truth_to_del/fd60af94-6874-4592-b1b6-faf00e7f03d9/FTF.pdf')]
```

```
[33]: files_df = pd.DataFrame(list(p.glob('**/*.pdf')), columns=['path'])
files_df['type'] = files_df['path'].apply(lambda x: x.name).apply(lambda x: x.split('.')[0])
files_df['uid'] = files_df['path'].apply(lambda x: x.parent.name)
files_df.set_index('uid', inplace=True)
files_df
```

```
[33]:
```

uid	path	type
1bca5540-b129-4593-a1e9-fa909234ad39	ground_truth_to_del/1bca5540-b129-4593-a1e9-fa...	FTF
1bca5540-b129-4593-a1e9-fa909234ad39	ground_truth_to_del/1bca5540-b129-4593-a1e9-fa...	Etiquette
0111c5f2-f00b-4fba-a266-716b3909f4b5	ground_truth_to_del/0111c5f2-f00b-4fba-a266-71...	FTF
...	...	...
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14...	FTF
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14...	Etiquette
fd60af94-6874-4592-b1b6-faf00e7f03d9	ground_truth_to_del/fd60af94-6874-4592-b1b6-fa...	FTF

[815 rows x 2 columns]

On utilise les transformateur du module pimest pour récupérer le contenu de ces fichiers dans le dataframe.

```
[41]: transformer = make_pipeline(ContentGetter(), PDFContentParser())
files_df = transformer.fit_transform(files_df)
files_df
```

Launching 8 processes.

```
[41]:
```

	path	type \
uid		
1bca5540-b129-4593-a1e9-fa909234ad39	ground_truth_to_del/1bca5540-b129-4593-a1e9-fa...	FTF
1bca5540-b129-4593-a1e9-fa909234ad39	ground_truth_to_del/1bca5540-b129-4593-a1e9-fa...	Etiquette
0111c5f2-f00b-4fba-a266-716b3909f4b5	ground_truth_to_del/0111c5f2-f00b-4fba-a266-71...	FTF
...	...	...
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14...	FTF
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14...	Etiquette
fd60af94-6874-4592-b1b6-faf00e7f03d9	ground_truth_to_del/fd60af94-6874-4592-b1b6-fa...	FTF
	content \	
uid		
1bca5540-b129-4593-a1e9-fa909234ad39	b'%PDF-1.7\r%\xe2\xe3\xcf\xd3\r\n1765 0 obj\r<...	
1bca5540-b129-4593-a1e9-fa909234ad39	b'%PDF-1.5\r%\xe2\xe3\xcf\xd3\r\n20 0 obj\r<</...	
0111c5f2-f00b-4fba-a266-716b3909f4b5	b'%PDF-1.3\n%\xe2\xe3\xcf\xd3\n5 0 obj\n<<\n/L...	
...	...	
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	b'%PDF-1.7\r\n%\xb5\xb5\xb5\xb5\r\n1 0 obj\r\n...	
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	b'%PDF-1.3\n%\xc4\xe5\xf2\xe5\xeb\xa7\xf3\xa0\...	
fd60af94-6874-4592-b1b6-faf00e7f03d9	b'%PDF-1.5\r%\xe2\xe3\xcf\xd3\r\n418 0 obj\r<<...	
	text	
uid		
1bca5540-b129-4593-a1e9-fa909234ad39	McCormick 315, Rue Marcel Demonque - Site Agr...	
1bca5540-b129-4593-a1e9-fa909234ad39		
0111c5f2-f00b-4fba-a266-716b3909f4b5	FICHE PRODUIT \n\n \n\n \n \n\n \n\n9 002 515 ...	
...	...	
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	FICHE TECHNIQUE\n\nRIZ CARNAROLI GRAN RISERVA ...	
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b		
fd60af94-6874-4592-b1b6-faf00e7f03d9	Sauce Armoricaine \n\nboite 4...	

[815 rows x 4 columns]

```
[51]: files_df['empty'] = (files_df['text'].apply(lambda x: x.strip()) == '')
files_df
```

```
[51]:
```

	path	type \
uid		
1bca5540-b129-4593-a1e9-fa909234ad39	ground_truth_to_del/1bca5540-b129-4593-a1e9-fa...	FTF
1bca5540-b129-4593-a1e9-fa909234ad39	ground_truth_to_del/1bca5540-b129-4593-a1e9-fa...	Etiquette
0111c5f2-f00b-4fba-a266-716b3909f4b5	ground_truth_to_del/0111c5f2-f00b-4fba-a266-71...	FTF
...	...	...
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14...	FTF
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	ground_truth_to_del/feb1a72c-02b7-43b0-a3ab-14...	Etiquette
fd60af94-6874-4592-b1b6-faf00e7f03d9	ground_truth_to_del/fd60af94-6874-4592-b1b6-fa...	FTF
	content \	
uid		
1bca5540-b129-4593-a1e9-fa909234ad39	b'%PDF-1.7\r%\xe2\xe3\xcf\xd3\r\n1765 0 obj\r<...	
1bca5540-b129-4593-a1e9-fa909234ad39	b'%PDF-1.5\r%\xe2\xe3\xcf\xd3\r\n20 0 obj\r<</...	
0111c5f2-f00b-4fba-a266-716b3909f4b5	b'%PDF-1.3\n%\xe2\xe3\xcf\xd3\n5 0 obj\n<<\n/L...	
...	...	
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	b'%PDF-1.7\r\n%\xb5\xb5\xb5\xb5\r\n1 0 obj\r\n...	
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b	b'%PDF-1.3\n%\xc4\xe5\xf2\xe5\xeb\xa7\xf3\xa0\...	
fd60af94-6874-4592-b1b6-faf00e7f03d9	b'%PDF-1.5\r%\xe2\xe3\xcf\xd3\r\n418 0 obj\r<<...	
	text empty	
uid		
1bca5540-b129-4593-a1e9-fa909234ad39	McCormick 315, Rue Marcel Demonque - Site Agr...	False
1bca5540-b129-4593-a1e9-fa909234ad39		

True

```

0111c5f2-f00b-4fba-a266-716b3909f4b5  FICHE PRODUIT \n\n \n\n \n \n\n \n\n 002 515 ... False
...
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b  FICHE TECHNIQUE\n\nRIZ CARNAROLI GRAN RISERVA ... False
feb1a72c-02b7-43b0-a3ab-14eb6d574d5b
    True
fd60af94-6874-4592-b1b6-faf00e7f03d9  Sauce Armoricaine          \n\nboite 4... False

```

[815 rows x 5 columns]

```

[65]: (files_df.pivot_table(values='empty',
                             index='type',
                             aggfunc=['sum', 'count', 'mean'],
                             )
        .swaplevel(axis=1)
        .rename({'empty': 'Fichiers "vides"',
                  'sum': 'Nombre de fichiers vides',
                  'count': 'Nombre total de fichiers',
                  'mean': 'Taux de vides',
                  }, axis=1)
        .rename({'Etiquette': 'Etiquettes',
                  'FTF': 'Fiches techniques',
                  })
        .to_latex(Path('.') / 'tbls' / 'empty_attached_files.tex',
                  column_format='lccc',
                  bold_rows=True,
                  index_names=False,
                  formatters=[lambda x: str(int(x)),
                              lambda x: str(int(x)),
                              lambda x: f'{int(x * 100):d}%',
                              ]
        )

```

```

[63]: (files_df.pivot_table(values='empty',
                             index='type',
                             aggfunc=['sum', 'count', 'mean'],
                             )
        .swaplevel(axis=1)
        .rename({'empty': 'Fichiers "vides"',
                  'sum': 'Nombre de fichiers vides',
                  'count': 'Nombre total de fichiers',
                  'mean': 'Taux de vides',
                  }, axis=1)
        .rename({'Etiquette': 'Etiquettes',
                  'FTF': 'Fiches techniques',
                  })
        )

```

```

[63]:
Documents vides
      type  Nombre de documents vides  Nombre total de documents  Taux de vides
Etiquettes          214.0             315             0.679365
Fiches techniques    22.0             500             0.044000

```