exemplo_de_Extracao_de_info

January 30, 2025

```python
[1]: import pandas as pd
```

```python
[2]: df = pd.read_json('chapada_dos_veadeiros/early_burned_area_2022_22LHK_30.json')
```

```python
[3]: df['firespots_that_touchs']=df['firespots_that']
     df['firespots_in_total']=df['amount_of_firespots']
```

```python
[4]: df.columns
```

```
[4]: Index(['day_before', 'day_after', 'item_before', 'item_after', 'ba_detect',
            'pixels_of_ba', 'amount_of_firespots', 'firespots_that',
            'firespots_that_touchs', 'firespots_in_total'],
           dtype='object')
```

```python
[5]: colunas_desejadas = ['day_before',
      'day_after','ba_detect','pixels_of_ba','firespots_in_total','firespots_that_touchs',
      'item_before','item_after']
     colunas_existentes = [col for col in colunas_desejadas if col in df.columns]
     df2 = df[colunas_existentes]
```

```python
[7]: df2[(df2['ba_detect'] == 1) & (df2['pixels_of_ba'] > 100)]
```

```
[7]:     day_before   day_after  ba_detect  pixels_of_ba  firespots_in_total  \
     10  2022-03-30  2022-04-02          1           141                  19
     28  2022-05-27  2022-05-29          1           175                 104
     40  2022-06-26  2022-06-28          1          1229                 135
     43  2022-07-03  2022-07-06          1           216                 144
     60  2022-08-17  2022-08-20          1           263                  49
     66  2022-09-01  2022-09-04          1           109                 211
     78  2022-10-06  2022-10-11          1           374                 733
     80  2022-10-14  2022-10-16          1           471                1449

         firespots_that_touchs                                        item_before  \
     10                       6  S2A_MSIL2A_20220330T132241_N0400_R038_T22LHK_2…
     28                      10  S2B_MSIL2A_20220527T133229_N0400_R081_T22LHK_2…
     40                      51  S2B_MSIL2A_20220626T133149_N0400_R081_T22LHK_2…
     43                       9  S2B_MSIL2A_20220703T132239_N0400_R038_T22LHK_2…
```

```
60                      10  S2A_MSIL2A_20220817T132251_N0400_R038_T22LHK_2…
66                      17  S2B_MSIL2A_20220901T132239_N0400_R038_T22LHK_2…
78                      22  S2A_MSIL2A_20221006T132241_N0400_R038_T22LHK_2…
80                      21  S2B_MSIL2A_20221014T133149_N0400_R081_T22LHK_2…

                                             item_after
10  S2A_MSIL2A_20220402T133231_N0400_R081_T22LHK_2…
28  S2A_MSIL2A_20220529T132241_N0400_R038_T22LHK_2…
40  S2A_MSIL2A_20220628T132251_N0400_R038_T22LHK_2…
43  S2B_MSIL2A_20220706T133149_N0400_R081_T22LHK_2…
60  S2A_MSIL2A_20220820T133201_N0400_R081_T22LHK_2…
66  S2B_MSIL2A_20220904T133149_N0400_R081_T22LHK_2…
78  S2B_MSIL2A_20221011T132229_N0400_R038_T22LHK_2…
80  S2A_MSIL2A_20221016T132241_N0400_R038_T22LHK_2…
```

1   Utilizando a literatura

Podemos identificar algumas datas em que ocorrem queimadas na área, permitindo o acesso tanto à data anterior quanto à posterior ao incêndio. Isso nos possibilita analisar a quantidade de pixels da imagem que representam áreas queimadas, além de avaliar o número de focos de queima na região e a quantidade de focos que atingiram a área visível em ambas as imagens.

Nesse contexto, um par de datas que registrou um grande volume de queimadas foi o período entre 26/06/2022 e 28/06/2022.