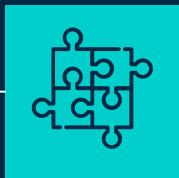


Decisions in the World IP Organization on domain name dispute

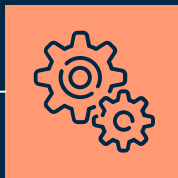
Antoine CAROFF
Denisse MONROY MONDRAGÓN
Romane-Laure PERRIN
Guillaume TERTRE

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Identified issues in trademark law

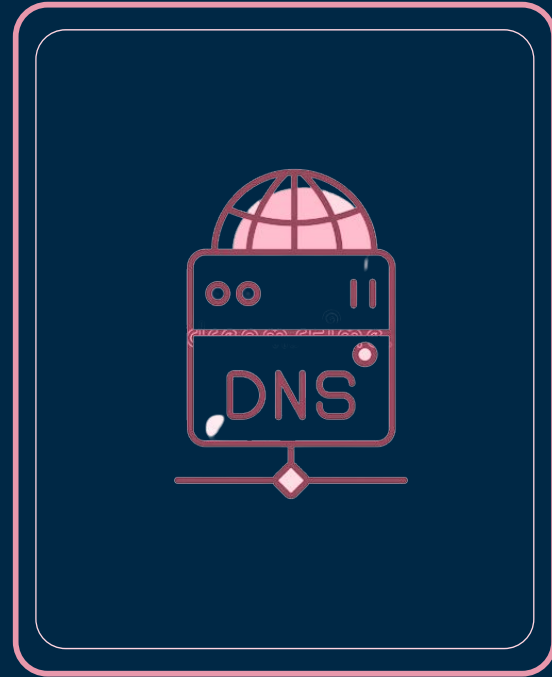
Trademark infringement
and dilution

01

OUR PROPOSAL

Using Python, we want to dig deep into IP decisions regarding domain names disputes, and analyse:

- Success rate throughout the years
- Success rate per sector
- Success rate per panelist






/02

/OUR CODE

What were the steps of our code,
what were the choices we made
and why?

Website's structure



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Legal Index of WIPO UDRP Panel Decisions

This Legal Index covers all WIPO UDRP decisions. New decisions are added as relevant. The Center also makes available a separate [WIPO Overview of WIPO Panel Views on Selected UDRP Questions, Third Edition](#).

Any time you select more than one category, the search result will yield ONLY those decisions that are indexed in ALL of the categories so selected.

▼ Search tips and examples |

Decided WIPO cases by domain name categories

Select all

Deselect all

Expand all

Collapse all

▢ I. Associations and Institutions

▢ II. Geographical Identifiers

▢ III. Individuals

▢ IV. Industry and Commerce

▢ V. Non-ASCII Script Registrations

▢ VI. Professional Firms

▢ VII. Education

▢ VIII. Public Sector (Governments)

Legal Index to WIPO panel decisions

Select all

Deselect all

Expand all

Collapse all

▢ I. General


▢ II. Substance

▢ III. Procedure

▢ IV. National Court Proceedings Relating to UDRP

Search

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Index of WIPO UDRP Panel Decisions

Search Results:
I. Associations and Institutions

838 case(s)

Category	Case Details	Domain name(s)	Decision
I. Associations and Institutions	D2023-0221	nftsinformer.com nftsmmedia.com nftsupdate.com	Transfer
	D2023-0219	crystalcathedral.org	Transfer
	D2022-4695	tottenhamhospur.com	Transfer
	D2022-4427	4knftsusahd.com	Transfer
	D2022-4038	tottenhamfantoken.com	Transfer
	D2022-3659	ypollifetime.com ypollifetime.org	Transfer



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Case Details for WIPO Case D2023-0221

WIPO Case Summary

WIPO Case Number	D2023-0221
Domain name(s)	nftsinformer.com nftsmmedia.com nftsupdate.com
Complainant	National Federation of State High School Associations
Respondent	MD Badhon MD Masum
Panelist	Lowe, Ian
Decision Date	25-02-2023
Decision	Transfer

Next Search

SCRAPING : getting the case details for each dispute

```
Microsoft Windows [Version 10.0.19044.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\denis>ipython
Python 3.11.2 (tags/v3.11.2:878ead1, Feb 7 2023, 16:38:35) [MSC v.1934 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
IPython 8.10.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: import re
...: from selenium.webdriver.common.by import By
...: import os
...: from bs4 import BeautifulSoup
...: from collections import Counter, defaultdict
...: import pandas as pd
...: import time
...: import numpy as np
...: from selenium import webdriver
...: from selenium.webdriver.chrome.service import Service
...: from webdriver_manager.chrome import ChromeDriverManager
...: from selenium.webdriver.common.keys import Keys as KeysBrowser

In [2]: driver = webdriver.Chrome(service=Service(ChromeDriverManager().install())) # Opening browser
...: driver.get("https://www.wipo.int/amc/en/domains/search/legalindex/") # Get to WIPO's main page

DevTools listening on ws://127.0.0.1:54300/devtools/browser/82e6e68c-3062-44d6-9517-b8f7c7b76b43

In [3]: page_source = "https://www.wipo.int/amc/en/domains/search/legalindex/"

In [4]: soup = BeautifulSoup(driver.page_source)

In [5]: lis = soup.find_all("li", id=re.compile("^fancytree-Ch1-"))

In [6]: del lis[3]

In [7]: DFS = []

In [8]: links=[]

In [9]: for li in lis:
...:     url = "https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=" + li.get("id").split("-"
...:     >[-1])
...:     print(url)
...:     links.append(url)
...:

https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15010.15050
https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15050
https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15060.15130
https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15310.15410
https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15410
https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15420
https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15430.15500

In [10]: links
Out[10]:
['https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15010.15050',
'https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15050',
'https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15060.15130',
'https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15310.15410',
'https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15410',
'https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15420',
'https://www.wipo.int/amc/en/domains/search/legalindex/results.jsp?ids1=15430.15500']
```

This section of the code allows us to import different packages

This section of the code opens the web browser, stores the URL in a variable, parses and stores the soup in a variable

This section finds all attributes in the page.

Why search for “li” and “fancytree”?

Hotmail Python Github Blockchain

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	D2023-0219	crystalcathedral.org	Transfer

available a separate WIPO Overview of WIPO Panel Views on Selected UDRP Questions, Third Edition.

Any time you select more than one category, the search result will yield ONLY those decisions that are indexed in ALL of the categories so selected.

Search tips and examples ↓

Decided WIPO cases by domain name categories

li#fancytree-Cb1-15010.15050 80.51 × 32.38 Collapse all

- ☒ I. Associations and Institutions
- ☐ II. Geographical Identifiers
- ☐ III. Individuals
- ☐ IV. Industry and Commerce
- ☐ V. Non-ASCII Script Registrations
- ☐ VI. Professional Firms
- ☐ VII. Education
- ☐ VIII. Public Sector (Governments)

Legal Index to WIPO panel decisions

Select all Deselect all Expand all Collapse all

- ☒ I. General
- ☐ II. Substance
- ☐ III. Procedure
- ☐ IV. National Court Proceedings Relating to UDRP

Search Reset

DevTools is now available in French!

Always match Chrome's language Switch DevTools to French

Don't show again

Elements Console Sources 1

```
<div id="tree1">
  <!-- tree -->
  <ul class="ui-fancytree fancytree-container f
    fancytree-plain" tabindex="0" role="tree"
    aria-multiselectable="true">
    <li id="fancytree-Cb1-15010.15050" role="tre
      eitem" aria-expanded="false" aria-selected=
        "false">...</li> == $0
    <li id="fancytree-Cb1-15050" role="treeitem"
      aria-selected="false">...</li>
    <li id="fancytree-Cb1-15060.15130" role="tre
      eitem" aria-expanded="false" aria-selected=
        "false">...</li>
    <li id="fancytree-Cb1-15130.15310" role="tre
      eitem" aria-expanded="false" aria-selected=
        "false">...</li>
```

... ee.fancytree-container.fancytree-plain li#fancytree-Cb1-15010,15050 ...

Styles Computed Layout Event Listeners DOM Breakpoints

Filter :hov .cls +

```
element.style {
}

ul.fancytree-container li {
  list-style-image: none;
  list-style-position: outside;
  list-style-type: none;
  -moz-background-clip: border;
  -moz-background-inline-policy: continuous;
  -moz-background-origin: padding;
  background-attachment: scroll;
  background-color: transparent;
  background-position: 0px 0px;
  background-repeat: repeat-y;
  background-image: none;
  margin: 0;
  padding: 5px 0 5px 0;
}
```

html, body, div, span, applet, object, styles2016.css:5

Console Search What's New

Highlights from the Chrome 111 update

SCRAPING : getting the case details for each dispute

```
In [12]: data_rows=[]  
  
In [13]: for link in links:  
...:     df=pd.read_html(link)  
...:     driver.get(link)  
...:     subsoup = BeautifulSoup(driver.page_source)  
...:     aas = subsoup.find_all("a", string=re.compile("[A-Z]+\d+\d+"))  
...:     dd={}  
...:     for a in aas:  
...:         href = "https://www.wipo.int/amc/en/domains/search/" + a.get("href")[2:]  
...:         ddla.text1 = href  
...:         driver.get(href)  
...:         case_soup= BeautifulSoup(driver.page_source)  
...:         table=case_soup.find("table")  
...:         for tr in table.find_all("tr"):  
...:             tds=tr.find_all("td")  
...:             if len(tds)==2:  
...:                 data_rows.append(tds[1].text.strip())  
  
In [14]: len(data_rows)  
Out[14]: 22669
```

This section creates a loop for each link in the list of links

The complement of the link of each case's details can be found in a href

The case details we are interested in are contained in "tr" and then in "td" elements

2

Index of WIPO

Search Results:
I. Associations and Institutions

838 case(s)

Category	Case Number	Domain Name	Decision
I. Associations and Institutions	D2023-0221	nfnshinform.com	Transfer
	D2023-0221	nfnshmedia.com	Transfer
	D2023-0221	nfnshupdate.com	Transfer
	D2023-0219	crystalcathedral.org	Transfer
	D2022-4895	tottenhamhospur.com	Transfer
	D2022-4427	4knfnshusahd.com	Transfer
	D2022-4938	tottenhamfanfoken.com	Transfer
	D2022-3659	ypoffefine.com	Transfer
	D2022-3120	rojabet.com	Transfer
	D2022-2428	a03site	Transfer
	D2022-1973	nfnshnetwork.live	Transfer

Always match Chrome's language Switch DevTools to French

Don't show again

Elements Console Sources

```
<!-- content begin -->  
<p>838 case(s)</p>  
<table class="table table-bordered table-striped">  
  <tbody>  
    <tr>  
      <td>D2023-0221</td>  
      <td>nfnshinform.com</td>  
      <td>nfnshmedia.com</td>  
      <td>nfnshupdate.com</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2023-0219</td>  
      <td>crystalcathedral.org</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2022-4895</td>  
      <td>tottenhamhospur.com</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2022-4427</td>  
      <td>4knfnshusahd.com</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2022-4938</td>  
      <td>tottenhamfanfoken.com</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2022-3659</td>  
      <td>ypoffefine.com</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2022-3120</td>  
      <td>rojabet.com</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2022-2428</td>  
      <td>a03site</td>  
      <td>Transfer</td>  
    </tr>  
    <tr>  
      <td>D2022-1973</td>  
      <td>nfnshnetwork.live</td>  
      <td>Transfer</td>  
    </tr>  
  </tbody>  
</table>
```

3

WIPO

Home 34% Alternative Dispute Resolution 34% Domain Name Disputes 34% Search

Case Details for WIPO Case D2023-0221

WIPO Case Summary

WIPO Case Number	D2023-0221
Domain name(s)	nfnshinform.com nfnshmedia.com nfnshupdate.com
Complainant	National Federation of State High School Associations
Respondent	MD Badhon MD Masum
Panelist	Lowie, Ian
Decision Date	25-02-2023
Decision	Transfer

Next Search

SCRAPING : getting the case details for each dispute

```
In [16]: result_list=[]

In [17]: for i in range(12,len(data_rows),7):
...:     if isinstance(data_rows[i],str) and len(data_rows[i])>=10:
...:         continue
...:     else:
...:         data_rows.insert(i,"NA")
...:         result_list.append(i)
...:

In [18]: len(data_rows)
Out[18]: 22701
```

Some of the decisions do not have a date (which should be every 7th element on the list data_rows), so we insert "NA" as a placeholder

Data_rows is a list, a continuous sequence of 7 pieces of information regarding 3,243 decisions

```
In [19]: data_rows[0:50]
Out[19]:
['D2023-0221',
 'nfhsinformer.comnfhsmedia.comnfhsupdate.com',
 'National Federation of State High School Associations',
 'MD BadhonMD Masum',
 'Lowe, Ian',
 '25-02-2023',
 'Transfer',
 'D2023-0219',
 'crystalcathedral.org',
 'Crystal Cathedral Ministries',
 'Martina Zammit',
 'Swinson, John',
 '05-03-2023',
 'Transfer',
 'D2022-4695',
 'tottenhamhospur.com',
 'Tottenham Hotspur Limited',
 'Whois Privacy Protection Service by onamae.com / c f. fc',
 'Kondo, Keiji',
 '07-02-2023',
 'Transfer',
 'D2022-4427',
 '4knfhsusahd.com',
 'National Federation of State High School Associations',
 'Erwin Nirwana',
 'K:kl',
 '01-03-2023',
 'Transfer',
 'D2022-4036',
 'tottenhamfantoken.com',
 'Tottenham Hotspur Limited',
 'Tony Fliet',
 'Barbero, Luca',
 '19-12-2022',
 'Transfer',
 'D2022-3659',
 'ypolifetime.comypolifetime.org',
 'YPO, Inc.',
 'Jay SchlimKing Kali',
 'McElwaine, John C',
 '28-11-2022',
 'Transfer',
 'D2022-3120',
 'rojabet.com',
 'Asociacion Nacional de Futbol Profesional',
 'New World Times S.A, New World Times S.A',
 'Campello Estebaranz, Reyes',
 '09-11-2022',
 'Transfer',
 'D2022-2428']
```

SCRAPING : getting the case details for each dispute

```
In [20]: DFS=[data_rows[i:i+7] for i in range(0,len(data_rows),7)]
```

```
In [21]: DFS[0:3]
```

```
Out[21]:  
[[['D2023-0221',  
  'nfhsinformer.comnfhsmedia.comnfhsupdate.com',  
  'National Federation of State High School Associations',  
  'MD BadhonMD Masum',  
  'Lowe, Ian',  
  '25-02-2023',  
  'Transfer'],  
 ['D2023-0219',  
  'crystalcathedral.org',  
  'Crystal Cathedral Ministries',  
  'Martina Zammit',  
  'Swinson, John',  
  '05-03-2023',  
  'Transfer'],  
 ['D2022-4695',  
  'tottenhamhospur.com',  
  'Tottenham Hotspur Limited',  
  'Whois Privacy Protection Service by onamae.com / c f, fc',  
  'Kondo, Keiji',  
  '07-02-2023',  
  'Transfer']]]
```

DFS organizes data_rows in a list of lists, each list containing all the information related to one single decision

```
In [22]: uniqueDFS=[]
```

```
In [23]: for sublist in DFS:  
...:     if sublist not in uniqueDFS:  
...:         uniqueDFS.append(sublist)  
...:
```

uniqueDFS is DFS but without duplicates

```
In [24]: len(DFS)
```

```
Out[24]: 3243
```

```
In [25]: len(uniqueDFS)
```

```
Out[25]: 2051
```

```
In [26]: frameDFS=pd.DataFrame(uniqueDFS, columns=["Case Number", "Domain Name", "Complainant", "Respondent", "Panel",  
...: st", "Decision Date", "Decision"])
```

Creating a data frame

```
In [27]: frameDFS.to_clipboard(index=False)
```

... LEADING TO OUR FINAL DATAFRAME

	A	B	C	D	E	F	G
1	Case Number	Domain Name	Complainant	Respondent	Panelist	Decision Date	Decision
2	D2023-0221	nfhnsformer.coi	National Feder	MD BadhonMD Mas	Lowe, Ian	25-02-2023	Transfer
3	D2023-0219	crystalcathedral.	Crystal Cathedr	Martina Zammit	Swinson, John	5/3/2023	Transfer
4	D2022-4695	tottenhamhospu	Tottenham Hots	Whois Privacy Prote	Kondo, Keiji	7/2/2023	Transfer
5	D2022-4427	4knfhsusahd.con	National Feder	Erwin Nirwana	Köklü, Kaya	1/3/2023	Transfer
6	D2022-4038	tottenhamfantol	Tottenham Hots	Tony Fliet	Barbero, Luca	19-12-2022	Transfer
7	D2022-3659	ypolifettime.com	YPO, Inc.	Jay SchlimKing Kali	McElwaine, John	28-11-2022	Transfer
8	D2022-3120	rojabet.com	Asociacion Naci	New World Times S	Campello Estebai	9/11/2022	Transfer
9	D2022-2428	ao3.site	Organization for	Domains By Proxy, I	Lowe, Ian	NA	Transfer
10	D2022-1973	nfhnsnetwork.live	National Feder	Angga Nuryuana, ng	Kyslyy, Taras	22-08-2022	Transfer
11	D2022-1970	psrfmusic.com	PRS for Music Li	Privacy service prov	Smith, Nicholas	14-07-2022	Transfer
12	D2022-1944	goodwillll.org	Goodwill Indust	Federico Murua	Nodine, Lawrenc	3/8/2022	Transfer
13	D2022-1855	rollandgarros.coi	Federation Fran	Domain Admin, Wh	Austin, Scott R.	7/7/2022	Transfer
14	D2022-1790	marcet.academy	Fundación Marc	Silvia Martín Martín	Campello Estebai	19-07-2022	Complaint denied
15	D2022-1605	hillsongstor.com	Hillsong Church	杨智超 (Zhi Chao Ye	Simone, Joseph	27-06-2022	Transfer
16	D2022-1314	coopbutikerstor	Kooperativa För	Ivan Stanojevic	Maier, Steven A.	23-06-2022	Transfer
17	D2022-0653	bacchettafounda	Bacchetta Foun	1&1 Internet Inc. / M	Badgley, Robert /	14-04-2022	Transfer
18	D2022-0390	wwwmychartatr	Rady Children's	蒋黎 (Jiang Li)	Soh, Kar Liang	1/4/2022	Transfer
19	D2022-0348	facareersincoach	The Football As	Domain Admin, Wh	Blackmer, W. Sco	14-03-2022	Transfer
20	D2022-0228	olympic-ioco-ws	International Ol	Ahmed Syed, Adver	Donahey, M. Scot	14-03-2022	Transfer
21	D2022-0209	olympgames.com	The Internation	Privacy service prov	Willoughby, Tony	1/3/2022	Transfer
22	D2021-4176	higherspiritualis	Aquarian Found	Domain Privacy / Ri	Lothian, Andrew	7/3/2022	Complaint denied
23	D2021-3934	fundesarte.org	Fundacion EOI	Kamil Gaede	Bernstein, David	21-12-2021	Transfer
24	D2021-3869	actionlogements	Action Logemer	Jeremie Casalle	Nappey, Alexand	15-02-2022	Transfer
25	D2021-3619	liverpoolfc.foot	The Liverpool Fc	Amre Salim	Lowe, Ian	30-12-2021	Transfer
26	D2021-3598	aoga.com	Alaska Oil and G	Obada Alzatari	Perraki, Marina	7/2/2022	Transfer
27	D2021-3529	eastwestchurch.	East-West Wors	Withheld for Privac	Badgley, Robert /	28-12-2021	Transfer
28	D2021-3024	gildasclub.org	Cancer Support	Jacob Kovacs	Swinson, John	4/11/2021	Transfer
29	D2021-2784	gia-jewelry.com	Gemological Ins	陈家伟 (Chen Jia W	Wong Wai Man, C	1/11/2021	Transfer
30	D2021-1742	moanapacific.org	Association of A	Robert Allman, Mo	Blackmer, W. Sco	7/9/2021	Complaint denied
31	D2021-1597	psg-france-acade	Paris Saint-Gern	Pascal Lussiana	Vivant, Michel	2/7/2021	Transfer
32	D2021-1392	farmlandreserve	Farmland Reser	Privacy Administrat	Swinson, John	26-06-2021	Transfer
33	D2021-1321	parissaintgermai	Paris Saint-Gern	Contact Privacy Inc.	Jabur, Wilson Pin	9/6/2021	Transfer
34	D2021-1115	imaocolympic.co	The Internation	Domain Admin, FBS	Köklü, Kaya	8/6/2021	Transfer

Total of 2,052 lines

len(uniqueDFS) +
title of column

Our Analysis

Thanks to Statistics

03

Yearly evolution of the number of decisions

#Displaying a chart that shows the evolution of the number of decisions throughout the years

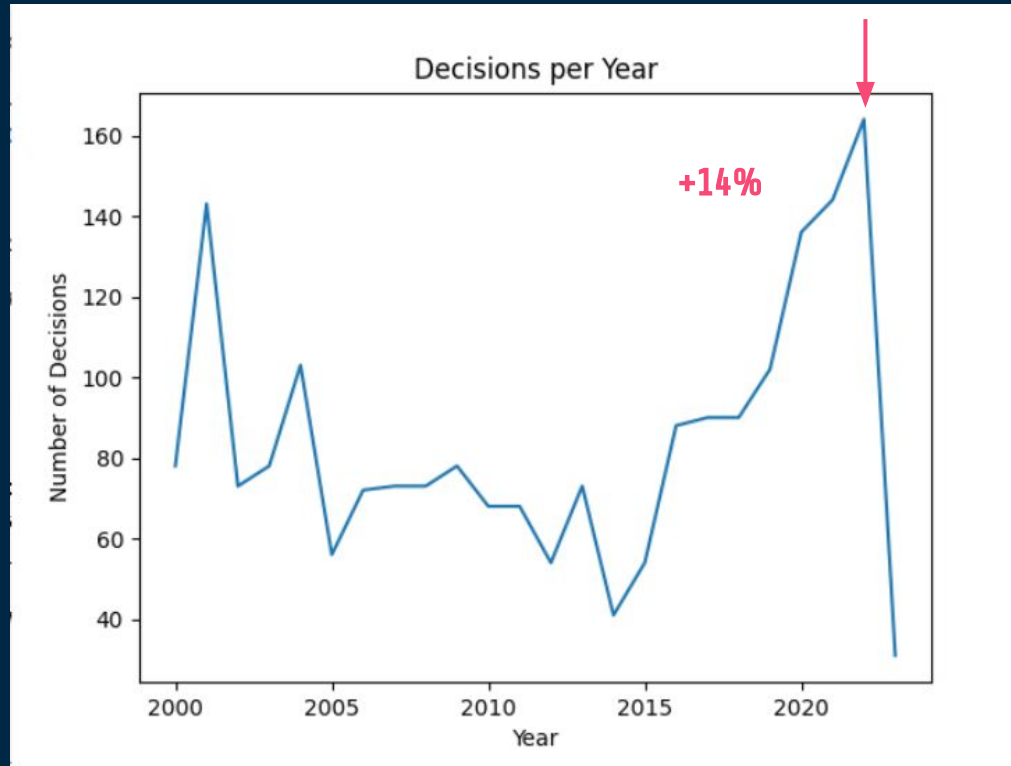
```
frameDFS["Decision Date"]=pd.to_datetime(frameDFS["Decision Date"], errors="coerce")
mask= frameDFS["Decision Date"].notna()
df=frameDFS.loc[mask, ["Decision Date"]]
df["Decision Date"]=pd.to_datetime(df["Decision Date"])
fig, ax= plt.subplots()
ax.plot(decisions_per_year.index, decisions_per_year.values)
ax.set_xlabel("Year")
ax.set_ylabel("Number of Decisions")
ax.set_title("Decisions per Year")
plt.show()
```

We first need to mask the "NA" elements where there was no date

"df" is a data frame with the decision dates

We use matplotlib.pyplot to create a graph

A surge of decisions in the IP world in 2020 & 2021



Main reason:
cybersquatting
related to Covid-19

COVID-19 malicious domain names classification[®]

[Paul K. Mvula](#)  , [Paula Branco](#) , [Guy-Vincent Jourdan](#) , [Herna L. Viktor](#) 

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Success rate by panelist

```
# displaying the success rate of decisions per panelist

# Count the number of decisions and favorable decisions per panelist
decisions_per_panelist = frameDFS['Panelist'].value_counts()
favorable_decisions_per_panelist = frameDFS[frameDFS['Decision'] ==
'Transfer']['Panelist'].value_counts()

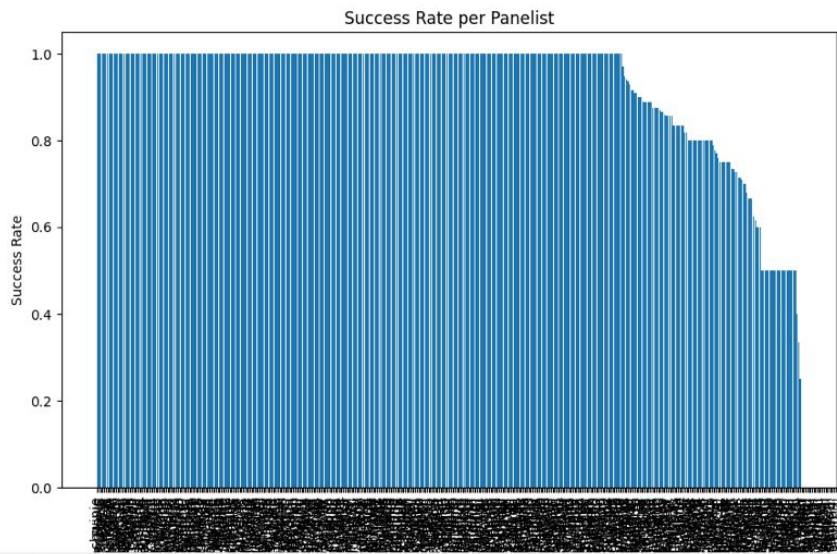
# Calculate the success rate per panelist
success_rate_per_panelist = favorable_decisions_per_panelist / decisions_per_panelist

# Sort the panelists by success rate
success_rate_per_panelist = success_rate_per_panelist.sort_values(ascending=False)

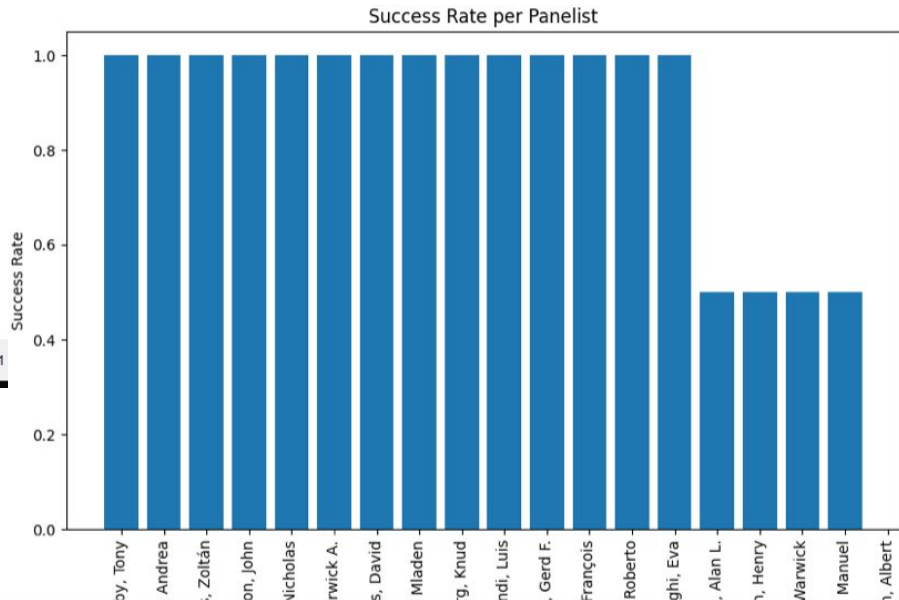
# Create a bar plot of the success rate per panelist
plt.figure(figsize=(10, 6))
plt.bar(success_rate_per_panelist.index, success_rate_per_panelist.values)
plt.title('Success Rate per Panelist')
plt.xlabel('Panelist')
plt.ylabel('Success Rate')
plt.xticks(rotation=90)
plt.show()
```


Success rate per panelist: a narrower focus per category

Geographical identifiers
category



All categories:
not readable



Transferred decisions

#creating a pie chart showing the proportion of transferred decisions compared to the total number of decisions made

```
# Counting the number of transferred decisions
transferred_count = sum(frameDFS['Decision'] == 'Transfer')
```

```
# Calculating the proportion of transferred decisions
total_count = len(frameDFS)
transferred_proportion = transferred_count / total_count
```

```
# Calculating the proportion of non-transferred decisions
non_transferred_proportion = 1 - transferred_proportion
```

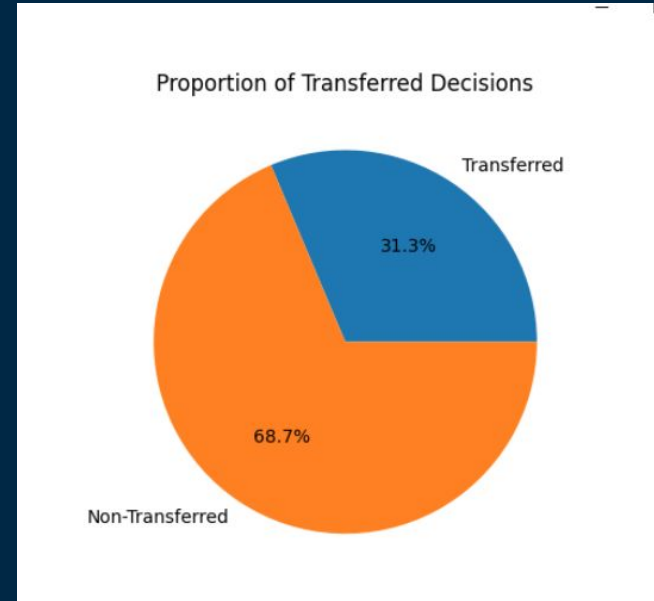
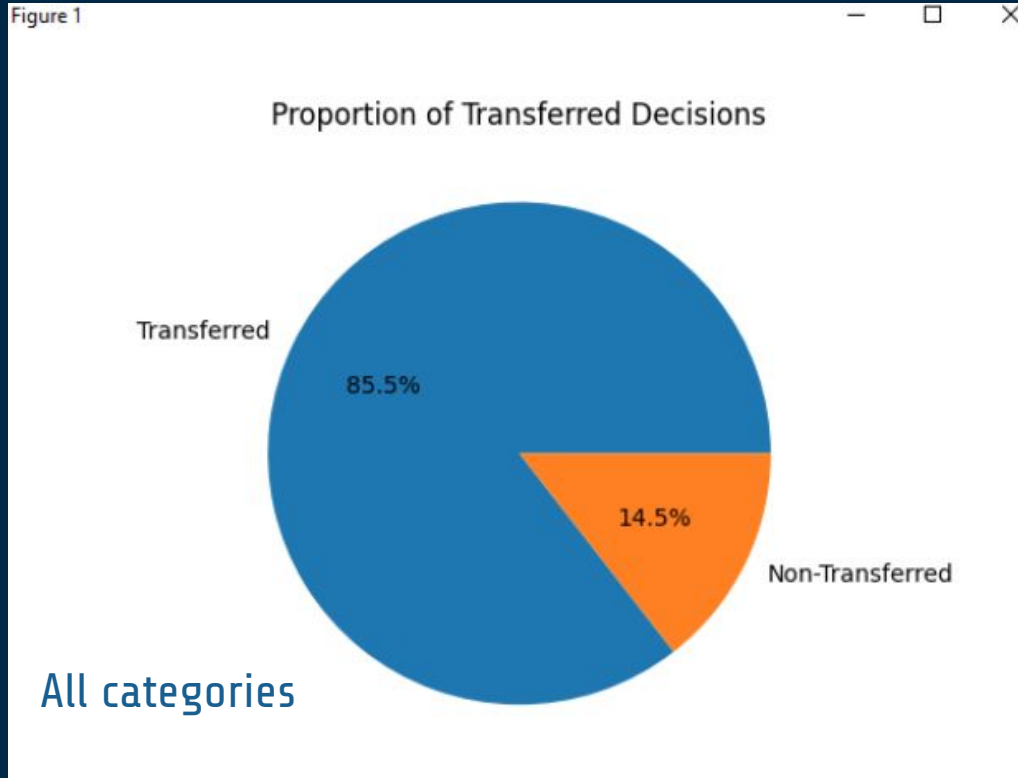
```
# Creating labels for the pie chart
labels = ['Transferred', 'Non-Transferred']
```

```
# Creating values for the pie chart
values = [transferred_proportion, non_transferred_proportion]
```

```
# Creating the pie chart
plt.pie(values, labels=labels, autopct='%1.1f%%')
plt.title('Proportion of Transferred Decisions')
```

```
# Displaying the chart
plt.show()
```

A huge proportion of decisions being transferred



Geographical identifiers category
Domain names too generic

The Mighty Pythons
thank you for
your attention !

Others : why do you always
use i,j variabes in loops?

Programmers :

