

GET YOUR GUIDE

Web scraping all the french tourism “Good Plans”

As we are supposed to spend our holidays here..!




1. Web Scrapping

With 2 variables in the url

Annulation gratuite jusqu'à 24 heures à l'avance

À partir de **14 €**



Paris : croisière de 1 h sur la Seine


★★★★★ 3802 avis

Admirez les sites emblématiques de Paris lors d'une croisière relaxante sur la Seine. Profitez de commentaires audio et apprenez-en davantage sur des...

⌚ Durée : 1 heure

Annulation gratuite jusqu'à 24 heures à l'avance

À partir de ~~16,99 €~~ **15 €**



Depuis Porto : visite des Calanques de Piana en bateau

Elements Console Sources Network >> 22

Filter XHR JS CSS Img Media Font Doc WS Manifest Other Has blocked cookies

Blocked Requests

5000 ms 10000 ms 15000 ms 20000 ms 25000 ms 30000 ms 35000 ms

Name Headers Preview Response Initiator >>

General

Request URL: `https://www.getyourguide.fr/s/results.json?q=france&customerSearch=1&searchSource=3&p=2&page=1`

Request Method: GET

Status Code: 200

Remote Address: 13.249.11.37:443

Referrer Policy: no-referrer-when-downgrade

Response Headers (17)

Request Headers

:authority: www.getyourguide.fr

:method: GET

:path: /s/results.json?q=france&customerSearch=1&searchSource=3&p=2&page=1

30 / 218 requests 194 kB / 2.9 MB

1. Web Scrapping

With 2 variables in the url

```
#links to scrap
total_elements=1610
element_p_page=20
pagination=math.ceil(total_elements/element_p_page)+1

for i in range (pagination):
    j=math.floor(i/3.01)
    urls=[f'https://www.getyourguide.fr/s/results.json?&q=France&searchSource=2&p={i}&page={j}']
```

2. Getting data

```
headers=dict(i.split(': ') for i in headers.split('\n'))
for url in urls:
    resp=r.get(url, headers=headers)
    df=pd.DataFrame()
    step=0

    if step%5==0:
        time.sleep(2.4) # sleep every five parsed page
        print (step, 'pages loaded')

    results=resp.json()
    data=json_normalize(results['searchResults']['tours'])
    df=df.append(data)

    step+=1
return df
```

3. Data Cleaning

1. Columns

```
def columns(df):
```

```
    df=df.drop_duplicates(subset='tourId')
```

```
    df=df.drop(columns=['tourId', 'horizontalImageUrl', 'verticalImageUrl', 'mobileImageUrl', 'horizontalSlimImageUrl', \
                        'description', 'isBestseller', 'isFeatured', 'hasDeal', 'dealMaxPercentage', 'isBoostedNewTour', 'hasBanner', \
                        'hasRibbon', 'priceTag', 'detailsLink', 'isCertifiedPartner', 'isEcoCertified', 'isFirstTicket', 'isAuthorized', \
                        'isGygOriginal', 'imageUrl', 'imageAlt', 'isFreeCancellation', 'smallGroup', 'privateTour', 'hasRating', \
                        'maxPossibleRating', 'totalRating', 'totalRatingTitle', 'averageRatingClass', 'ratingLink', 'languageIds', \
                        'ratingStyleModifier', 'ratingStarsClasses', 'ratingTitle', 'hasDuration', 'useValidity', 'validFrom', \
                        'displayAbstract', 'displayDuration', 'displayDate', 'displayWishlist', 'isWishlistAccountWallEnabled', \
                        'displayRemoveButton', 'extraBadges', 'referrerViewPosition', 'hasDiscountedRecommendation', 'urlDetailsBtn', \
                        'hideImage', 'isLikelyToSellOut', 'cardBannerMessage', 'cardBannerType', 'isPromoted', 'isElevated', \
                        'isOutdoors', 'isFamilyFriendly', 'showSkywards', 'skywardsMiles', 'assetsPath', 'isSpecialOffer', \
                        'collectionIdentifier', 'id', 'activityCardVersion', 'limit', 'isLoggedIn', 'timeSlotsExperimentEnabled', \
                        'freeCancellationFlag', 'resultSetPosition', 'highlightedOrientation', 'price.type', \
                        'experiments.hasOriginalsMoneyBackLabel', 'keyDetails.cancellation_policy.label', 'keyDetails.duration.label', \
                        'keyDetails.cancellation_policy.description', 'keyDetails.skip_the_line.label', 'keyDetails.duration.description', \
                        'keyDetails.skip_the_line.description', 'keyDetails.instant_confirmation.label', 'keyDetails.instant_confirmation.description'])
```

```
    df=df.rename(columns={'smallDescription': 'description', \
                          'price.original': 'price_original', 'price.min': 'price_min', \
                          'averageRating': 'rating'})
```

```
    return df
```


3. Data Cleaning

2. Columns

```
def cleaning(df):
    df['title']=df['title'].str.replace('&#039;', '\\')
    df['title']=df['title'].str.replace('&quot;', '\\")')
    df['title']=df['title'].astype('str')

    df['price_min']=df['price_min'].str.replace(" ", "").str.strip('€\xa0\n').str.replace(',','').astype('float')

    df['price_original']=df['price_original'].str.replace(" ", "").str.strip('€\xa0\n').str.replace(',','').astype('float')

    df['rating']=df['rating'].fillna('Not rated yet')

    df['duration']=df['duration'].str.replace('heures', 'h')
    df['duration']=df['duration'].str.replace('heure', 'h')
    df['duration']=df['duration'].str.replace('jour', 'day')
    df['duration']=df['duration'].str.replace('minutes', 'min')
    df['duration']=df['duration'].str.replace(' - ', ' to ')
    df['duration']=df['duration'].str.replace(',5 h', 'h30')
    df['duration']=df['duration'].str.replace(',5', 'h30')
    df['duration']=df['duration'].str.replace('2 880,00 min', '2 days')
    df['duration']=df['duration'].str.replace('1 440,00 min', '1 day')
    df['duration']=df['duration'].str.replace('90 min', '1h30')

    return df
```

4. URLs scrapping

MAYDAY

```
#GET DATA
```

```
"""
```

```
for urls in df['url']:
    more_infos=r.get(urls, headers=headers)
    soup=BeautifulSoup(more_infos.content)

    country=list()
    region=list()
    city=list()

    place=str(soup.select('.activity__breadcrumbs ul li a'))
    names=re.findall(r'(>[A-z].*<)', place)

    country.append(names[0].strip('><'))
    region.append(names[1].strip('><'))
    city.append(names[2].strip('><'))

df['country']=country
df['region']=region
df['city']=city
"""
```

5. Data Cleaning (end)

Columns sorting

```
def sorting(df):  
    cols = df.columns.tolist()  
    """"  
    cols.insert(1, cols.pop(cols.index('country')))  
    cols.insert(2, cols.pop(cols.index('region')))  
    cols.insert(3, cols.pop(cols.index('city')))  
    """"  
    cols.insert(1, cols.pop(cols.index('title')))  
    cols.insert(2, cols.pop(cols.index('description')))  
    cols.insert(3, cols.pop(cols.index('price_min')))  
    cols.insert(4, cols.pop(cols.index('price_original')))  
    cols.insert(5, cols.pop(cols.index('rating')))  
    cols.insert(6, cols.pop(cols.index('duration')))  
    cols.insert(7, cols.pop(cols.index('url')))  
    df = df[cols]  
  
    df = df.reset_index(drop=True)  
  
    return df
```


6. Apply functions

```
if __name__ == "__main__":  
  
    import_url(urls)  
    columns(df)  
    cleaning(df)  
    sorting(df)
```