

PartB-Web scrapingStreeteasy

May 13, 2021

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[261]: import requests
import re
import pandas as pd
from bs4 import BeautifulSoup
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[ ]:
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[369]: url = "https://streeteasy.com/2-bedroom-apartments-for-sale/murray-hill/price:
↪-2000000"
headers = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
↪AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.93 Safari/537.36"}
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[327]: url_list = ["{}?page={}".format(url, str(page)) for page in range(1, 6)]
```

```
[328]: print(url_list)
```

```
['https://streeteasy.com/2-bedroom-apartments-for-sale/murray-
hill/price:-2000000?page=1', 'https://streeteasy.com/2-bedroom-apartments-for-
sale/murray-hill/price:-2000000?page=2', 'https://streeteasy.com/2-bedroom-
apartments-for-sale/murray-hill/price:-2000000?page=3',
'https://streeteasy.com/2-bedroom-apartments-for-sale/murray-
hill/price:-2000000?page=4', 'https://streeteasy.com/2-bedroom-apartments-for-
sale/murray-hill/price:-2000000?page=5']
```

```
[370]: def page_scrape(url, headers):
    house = {"Name": [], "Address": [], "Price": [], "Bed": [], "Bath": [], "Sqft": []}
    url_list = ["{}?page={}".format(url, str(page)) for page in range(1, 6)]
    for url in url_list:
        src = requests.get(url, headers = headers).content
        soup_exploration = BeautifulSoup(src, 'html.parser')
        street_easy_rentals = soup_exploration.find_all('li',
↪class_="searchCardList--listItem")

        for rental in street_easy_rentals:
            house["Name"].append(rental.find('p',
↪class_='listingCardLabel-grey').text.strip('\n').strip())
```

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        house["Address"].append(rental.find('address',
↪class_='listingCard-addressLabel').text.strip('\n').strip())
        house["Price"].append(rental.find('span', class_='price_
↪listingCard-priceMargin').text)

        room = rental.find("div", class_='listingDetailDefinitions')#.text.
↪strip('\n').strip()
        house["Bed"].append(room.contents[1].text.strip('\n').strip())

        house["Bath"].append(room.contents[5].text.strip('\n').strip())

        try:
            sqft = re.sub('\s+', ' ', room.contents[9].text)

        except IndexError:
            sqft = 'N/A'

        house["Sqft"].append(sqft)
    house_df=pd.DataFrame.from_dict(house)
    return(house_df)

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[371]: page_scrape(url, headers)
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[371]:
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| | Name | Address | Price | Bed | \ |
|----|----------------------|---------------------------|-------------|--------|---|
| 0 | Condo in Murray Hill | 308 East 38th Street #5A | \$1,245,000 | 2 Beds | |
| 1 | Condo in Murray Hill | 225 East 34th Street #2G | \$1,499,000 | 2 Beds | |
| 2 | Condo in Murray Hill | 630 First Avenue #17K | \$1,260,000 | 2 Beds | |
| 3 | Co-op in Murray Hill | 242 East 38th Street #6C | \$750,000 | 2 Beds | |
| 4 | Condo in Murray Hill | 308 East 38th Street #8B | \$1,399,000 | 2 Beds | |
| 5 | Condo in Murray Hill | 250 East 40th Street #17B | \$1,250,000 | 2 Beds | |
| 6 | Condo in Murray Hill | 250 East 40th Street #18B | \$1,295,000 | 2 Beds | |
| 7 | Co-op in Murray Hill | 305 East 40th Street #12K | \$930,000 | 2 Beds | |
| 8 | Condo in Murray Hill | 143 East 34th Street #9N | \$1,625,000 | 2 Beds | |
| 9 | Condo in Murray Hill | 333 East 34th Street #PHC | \$1,395,000 | 2 Beds | |
| 10 | Condo in Murray Hill | 225 East 34th Street #7C | \$1,650,000 | 2 Beds | |
| 11 | Co-op in Murray Hill | 305 East 40th Street #18D | \$1,250,000 | 2 Beds | |
| 12 | Co-op in Murray Hill | 211 East 35th Street #4F | \$695,000 | 2 Beds | |
| 13 | Co-op in Murray Hill | 140 East 40th Street #1D | \$1,275,000 | 2 Beds | |
| 14 | Condo in Murray Hill | 225 East 34th Street #2G | \$1,499,000 | 2 Beds | |
| 15 | Co-op in Murray Hill | 210 East 36th Street #2D | \$1,250,000 | 2 Beds | |
| 16 | Condo in Murray Hill | 415 East 37th Street #29G | \$1,275,000 | 2 Beds | |
| 17 | Co-op in Murray Hill | 50 Park Avenue #6CD | \$1,645,000 | 2 Beds | |
| 18 | Condo in Murray Hill | 333 East 34th Street #4L | \$1,295,000 | 2 Beds | |
| 19 | Co-op in Murray Hill | 137 East 36th Street #15F | \$1,850,000 | 2 Beds | |

| | | | | |
|----|-----------------------|------------------------------|-------------|--------|
| 20 | Co-op in Murray Hill | 160 East 38th Street #22D | \$1,199,000 | 2 Beds |
| 21 | Co-op in Murray Hill | 55 Park Avenue #14E | \$895,000 | 2 Beds |
| 22 | Co-op in Murray Hill | 137 East 36th Street #3G | \$850,000 | 2 Beds |
| 23 | Co-op in Murray Hill | 240 East 35th Street #1H | \$849,000 | 2 Beds |
| 24 | Condo in Murray Hill | 591 Third Avenue #10A | \$1,795,000 | 2 Beds |
| 25 | Co-op in Murray Hill | 310 Lexington Avenue #10FG | \$1,090,000 | 2 Beds |
| 26 | Condo in Murray Hill | 333 East 34th Street #4L | \$1,295,000 | 2 Beds |
| 27 | Co-op in Murray Hill | 137 East 36th Street #3G | \$850,000 | 2 Beds |
| 28 | Condo in Murray Hill | 201 East 36th Street #2E | \$745,000 | 2 Beds |
| 29 | Co-op in Murray Hill | 138 East 36th Street #UNIT8C | \$1,475,000 | 2 Beds |
| 30 | Condo in Murray Hill | 225 East 34th Street #3I | \$1,850,000 | 2 Beds |
| 31 | Condo in Murray Hill | 330 East 38th Street #5E | \$1,650,000 | 2 Beds |
| 32 | Condo in Murray Hill | 201 East 36th Street #5F | \$800,000 | 2 Beds |
| 33 | Co-op in Murray Hill | 137 East 36th Street #3A | \$1,100,000 | 2 Beds |
| 34 | Co-op in Murray Hill | 23 Park Avenue #1N | \$1,975,000 | 2 Beds |
| 35 | Condo in Murray Hill | 77 Park Avenue #7D | \$1,895,000 | 2 Beds |
| 36 | Co-op in Murray Hill | 35 Park Avenue #14C | \$1,095,000 | 2 Beds |
| 37 | Condo in Murray Hill | 330 East 38th Street #52K | \$1,500,000 | 2 Beds |
| 38 | Condo in Murray Hill | 225 East 34th Street #2G | \$1,499,000 | 2 Beds |
| 39 | Condo in Murray Hill | 225 East 34th Street #2G | \$1,499,000 | 2 Beds |
| 40 | Co-op in Murray Hill | 137 East 36th Street #3G | \$850,000 | 2 Beds |
| 41 | Co-op in Murray Hill | 20 East 35th Street #9J | \$1,249,000 | 2 Beds |
| 42 | Condo in Murray Hill | 52 Park Avenue #6 | \$1,900,000 | 2 Beds |
| 43 | Condo in Murray Hill | 52 Park Avenue #5 | \$1,900,000 | 2 Beds |
| 44 | Condo in Murray Hill | 630 First Avenue #4K | \$1,165,000 | 2 Beds |
| 45 | Condo in Murray Hill | 330 East 38th Street #10L | \$1,245,000 | 2 Beds |
| 46 | Condo in Murray Hill | 415 East 37th Street #37F | \$1,880,000 | 2 Beds |
| 47 | Condo in Murray Hill | 630 First Avenue #28H | \$1,250,000 | 2 Beds |
| 48 | Condo in Murray Hill | 333 East 34th Street #9C | \$1,195,000 | 2 Beds |
| 49 | Co-op in Murray Hill | 225 East 36th Street #50P | \$995,000 | 2 Beds |
| 50 | Condo in Murray Hill | 71 Park Avenue #6B | \$1,950,000 | 2 Beds |
| 51 | Condo in Murray Hill | 630 First Avenue #22D | \$1,300,000 | 2 Beds |
| 52 | Co-op in Murray Hill | 140 East 40th Street #1D | \$1,275,000 | 2 Beds |
| 53 | Condo in Murray Hill | 308 East 38th Street #5A | \$1,245,000 | 2 Beds |
| 54 | Condo in Murray Hill | 630 First Avenue #22D | \$1,300,000 | 2 Beds |
| 55 | Condo in Murray Hill | 308 East 38th Street #21A | \$1,885,000 | 2 Beds |
| 56 | Condop in Murray Hill | 300 East 40th Street #27B | \$1,575,000 | 2 Beds |
| 57 | Co-op in Murray Hill | 132 East 35th Street #4C | \$1,195,000 | 2 Beds |
| 58 | Condo in Murray Hill | 415 East 37th Street #42J | \$1,990,000 | 2 Beds |
| 59 | Co-op in Murray Hill | 144 East 36th Street #8A | \$1,050,000 | 2 Beds |

| | Bath | Sqft |
|---|---------|-----------------------------------|
| 0 | 2 Baths | 1,115 square feet ft ² |
| 1 | 2 Baths | 1,110 square feet ft ² |
| 2 | 2 Baths | 983 square feet ft ² |
| 3 | 1 Bath | N/A |
| 4 | 2 Baths | 1,190 square feet ft ² |

| | | | |
|----|-----------|-------------------|-----------------|
| 5 | 2 Baths | 1,002 square feet | ft ² |
| 6 | 2 Baths | 1,100 square feet | ft ² |
| 7 | 1 Bath | | N/A |
| 8 | 2 Baths | 1,200 square feet | ft ² |
| 9 | 2 Baths | 1,200 square feet | ft ² |
| 10 | 2 Baths | 1,248 square feet | ft ² |
| 11 | 2 Baths | | N/A |
| 12 | 1 Bath | | N/A |
| 13 | 1.5 Baths | | N/A |
| 14 | 2 Baths | 1,110 square feet | ft ² |
| 15 | 2 Baths | | N/A |
| 16 | 2 Baths | 927 square feet | ft ² |
| 17 | 2 Baths | | N/A |
| 18 | 2 Baths | 1,185 square feet | ft ² |
| 19 | 2.5 Baths | | N/A |
| 20 | 1.5 Baths | | N/A |
| 21 | 1 Bath | | N/A |
| 22 | 1.5 Baths | | N/A |
| 23 | 2 Baths | | N/A |
| 24 | 2 Baths | 1,077 square feet | ft ² |
| 25 | 2 Baths | 1,250 square feet | ft ² |
| 26 | 2 Baths | 1,185 square feet | ft ² |
| 27 | 1.5 Baths | | N/A |
| 28 | 1 Bath | 808 square feet | ft ² |
| 29 | 2 Baths | 1,600 square feet | ft ² |
| 30 | 2 Baths | 1,350 square feet | ft ² |
| 31 | 2 Baths | 1,171 square feet | ft ² |
| 32 | 1 Bath | | N/A |
| 33 | 1.5 Baths | | N/A |
| 34 | 2.5 Baths | | N/A |
| 35 | 2 Baths | 1,350 square feet | ft ² |
| 36 | 2 Baths | | N/A |
| 37 | 2 Baths | 1,134 square feet | ft ² |
| 38 | 2 Baths | 1,110 square feet | ft ² |
| 39 | 2 Baths | 1,110 square feet | ft ² |
| 40 | 1.5 Baths | | N/A |
| 41 | 2 Baths | 1,400 square feet | ft ² |
| 42 | 2 Baths | 1,231 square feet | ft ² |
| 43 | 2 Baths | 1,231 square feet | ft ² |
| 44 | 2 Baths | 943 square feet | ft ² |
| 45 | 2 Baths | 1,041 square feet | ft ² |
| 46 | 2.5 Baths | 1,312 square feet | ft ² |
| 47 | 2 Baths | 1,000 square feet | ft ² |
| 48 | 1 Bath | 915 square feet | ft ² |
| 49 | 2 Baths | 1,350 square feet | ft ² |
| 50 | 2.5 Baths | 1,076 square feet | ft ² |
| 51 | 2 Baths | 1,001 square feet | ft ² |

| | | | |
|----|-----------|-------------------|-----------------|
| 52 | 1.5 Baths | | N/A |
| 53 | 2 Baths | 1,115 square feet | ft ² |
| 54 | 2 Baths | 1,001 square feet | ft ² |
| 55 | 2 Baths | 1,295 square feet | ft ² |
| 56 | 2 Baths | 1,300 square feet | ft ² |
| 57 | 1.5 Baths | 1,050 square feet | ft ² |
| 58 | 2.5 Baths | 1,400 square feet | ft ² |
| 59 | 1.5 Baths | | N/A |

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[372]: !export PATH=/Library/TeX/texbin:$PATH
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