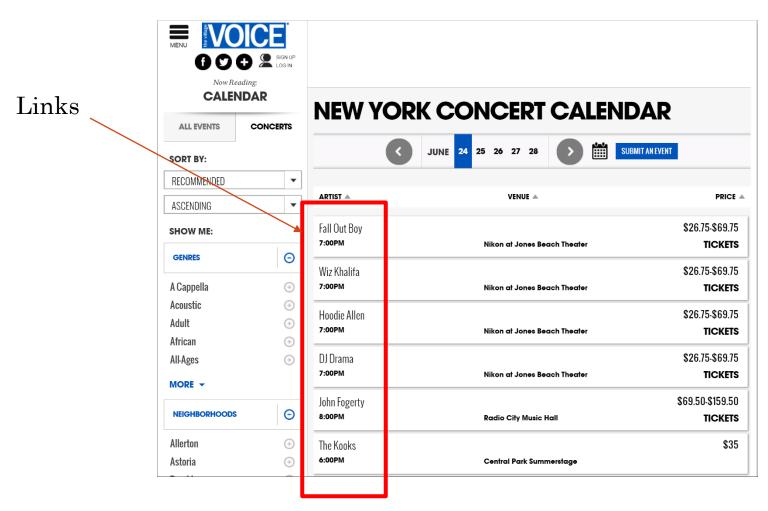
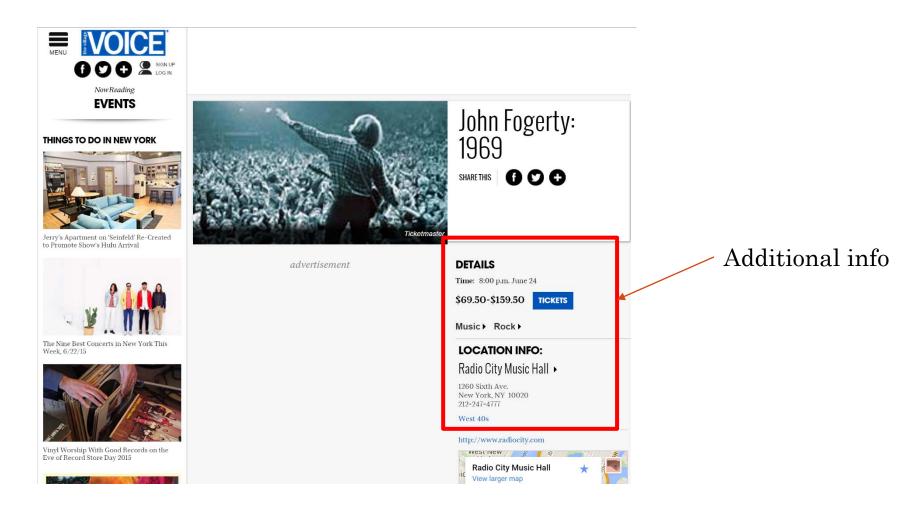
# New York Concert Data Web Scraping

Dani Ismail

## villagevoice.com Listings



#### **Event Details**



# Strategy – Python/BeautifulSoup/Pandas

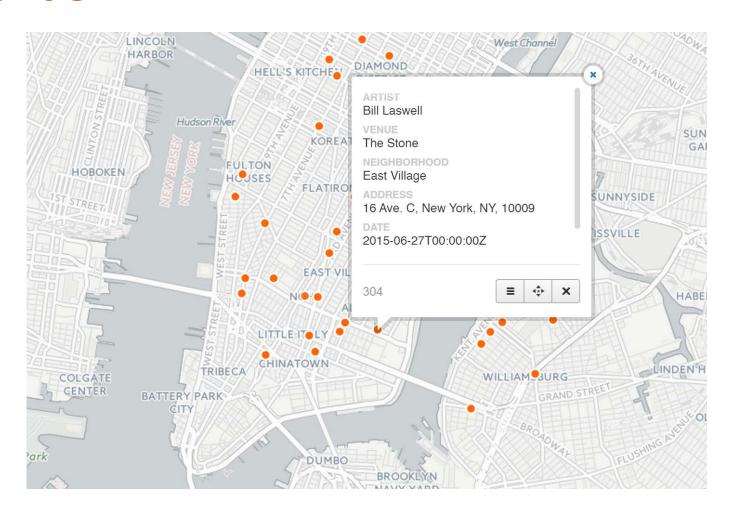
- For each date in a given range, create a list of URLs to the event listings for that date.
- Make a function that takes a URL for a specific event's page, then returns data scraped from that page.
- Compile all the data into a pandas data frame and export to CSV for analysis.
- Biggest challenge: the webpage is dynamic, so iterating over each date was not straightforward.

#### Results

- Over 365 days:
  - 4329 concert listings
  - Took 27 minutes to scrape all pages (2.67 pages/sec)

	date	artist	venue	time	minprice	maxprice	neighborhood	address
0	2015- 06-24	Fall Out Boy	Nikon at Jones Beach Theater	7:00 p.m.	26.75	69.75	Allerton	1000 Ocean Parkway, Wantagh, NY, 11793
1	2015- 06-24	Wiz Khalifa	Nikon at Jones Beach Theater	7:00 p.m.	26.75	69.75	Allerton	1000 Ocean Parkway, Wantagh, NY, 11793
2	2015- 06-24	Hoodie Allen	Nikon at Jones Beach Theater	7:00 p.m.	26.75	69.75	Allerton	1000 Ocean Parkway, Wantagh, NY, 11793
3	2015- 06-24	DJ Drama	Nikon at Jones Beach Theater	7:00 p.m.	26.75	69.75	Allerton	1000 Ocean Parkway, Wantagh, NY, 11793
4	2015- 06-24	John Fogerty	Radio City Music Hall	8:00 p.m.	69.50	159.50	West 40s	1260 Sixth Ave., New York, NY, 10020
5	2015- 06-24	The Kooks	Central Park Summerstage	6:00 p.m.	35.00	35.00	West 70s	5th Ave. at 69th St., New York, CO, 10024

#### **CartoDB**

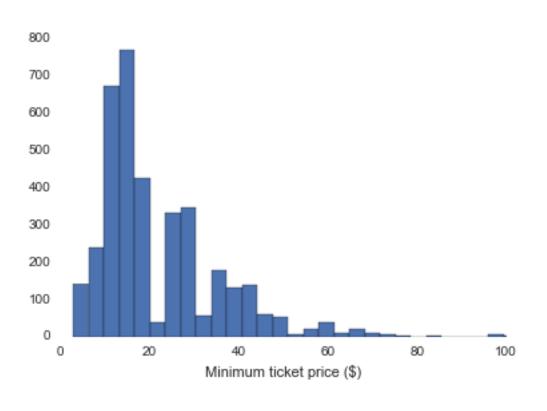


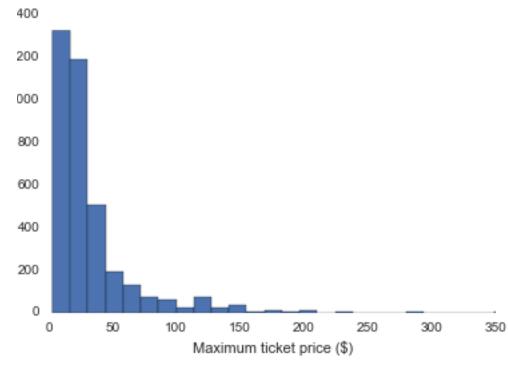
## Analysis

- 12% of NYC concerts in the next year are free.
- The highest ticket price listed is \$695 (Ariana Grande at Barclays Center on 9-26-2015
- The average price minimum price for a ticket is \$21.21, and the average maximum price is \$35.20 (not including free concerts)
- The top 10 neighborhoods by number of concert listings are:

neighborhood								
439								
404								
362								
354								
325								
325								
261								
243								
175								
159								

#### **Ticket Prices**





#### Useful functions

- .strftime() for datetime objects to string.
  - Similarly, .strptime() for string to datetime object.
- .reset\_index()