




*Live Music
Options for UW
Students*

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The background features a light blue, painterly brushstroke that starts from the left and extends towards the right, with a white space on the right side. The stroke has a soft, feathered edge and a slightly irregular, organic shape.

Introductory Information

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- We aimed to collect data on live upcoming events in the Madison area
 - We are interested in this topic because attending music events is a great experience. However, it can be difficult to decide which shows are affordable and logistically feasible to attend.

Data Collected

- CSV file shown contains event date, band name, venue name, and venue latitude and longitude

	A	B	C	D	E
1	date	band	venue	latitude	longitude
2	TUE, Aug 18	b'M\xc3\xb6tley Cr\c3\bce/Def Leppard/Poison/Joan Jett and the Blackhearts'	Miller Park, Milwaukee, WI	43.0279776	-87.9711504
3	SUN, Aug 30	b'Maroon 5'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
4	SAT, Jun 6	b'Journey with Pretenders'	Alpine Valley Music Theatre, East Troy, WI	42.7380042	-88.43385
5	SUN, Jul 12	b'Santana / Earth, Wind & Fire: Miraculous Supernatural 2020 Tour'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
6	FRI, Nov 13	b'Joe Rogan: The Sacred Clown Tour'	Fiserv Forum, Milwaukee, WI	43.0450802	-87.9173862
7	SAT, Oct 31	b'Megadeth and Lamb of God'	Resch Center, Green Bay, WI	44.4994049	-88.05513
8	TUE, Sep 15	b'KISS: End of the Road World Tour'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
9	SAT, Aug 22	b'The Black Crowes Present: Shake Your Money Maker'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
10	THU, Aug 27	b'Nickelback: All The Right Reasons Tour'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
11	SUN, Jul 26	b'Daryl Hall & John Oates'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
12	TUE, Sep 22	b'Cher: Here We Go Again Tour'	Resch Center, Green Bay, WI	44.4994049	-88.05513
13	FRI, Aug 7	b'Breaking Benjamin'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
14	TUE, Jun 2	b'The Masked Singer National Tour'	Riverside Theatre, Milwaukee, WI	43.0389853	-87.9111011
15	SAT, Dec 12	b'KIDZ BOP Live 2020 Tour'	Orpheum Theater, Madison, WI	43.074929	-89.3887878
16	WED, Jul 8	b'Lennon Stella: Three. Two. One: The Tour'	The Sylvee, Madison, WI	43.0806397	-89.374313
17	SAT, Jul 25	b'Sugarland: There Goes The Neighborhood Tour 2020'	American Family Insurance Amphitheater - Summerfest Grounds, Milwaukee, WI	43.0272871	-87.897496
18	SAT, May 9	b'Volbeat: Rewind, Replay, Rebound World Tour'	Eagles Club/The Rave/Eagles Ballroom, Milwaukee, WI	43.0379175	-87.9433123
19	FRI, Jun 12	b'The Sword'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
20	MON, Oct 19	b'The Airborne Toxic Event'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
21	SAT, May 9	b'Shallou - Magical Thinking Tour'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
22	FRI, May 22	b'Waxahatchee'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
23	FRI, Jul 31	b'FPC Live Presents: The Growlers, Natural Affair Tour 2020'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
24	MON, Jul 20	b'David Gray \xc2\x96 White Ladder: The 20th Anniversary Tour'	BMO Harris Pavilion, Milwaukee , WI	43.0285675	-87.8970246
25	SAT, Jan 16	b'Jacksfilms Presents: YIAY LIVE! LIVE!'	Miramar Theatre, Milwaukee, WI	43.0704676	-87.8875704
26	FRI, May 8	b'Tokimonsta'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
27	MON, Jun 1	b'Still Woozy'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
28	MON, May 11	b'Brandy Clark - Who You Thought I Was Tour'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
29	FRI, Jun 5	b'Lost Dog Street Band Heartland Tour'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
30	TUE, May 19	b'Joywave'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
31	SAT, Jun 6	b'AJJ'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955
32	SAT, May 16	b'Five Senses Reeling Presents Miz Cracker: American Woman'	Majestic Theatre, Madison, WI	43.0745219	-89.3808955

Methods

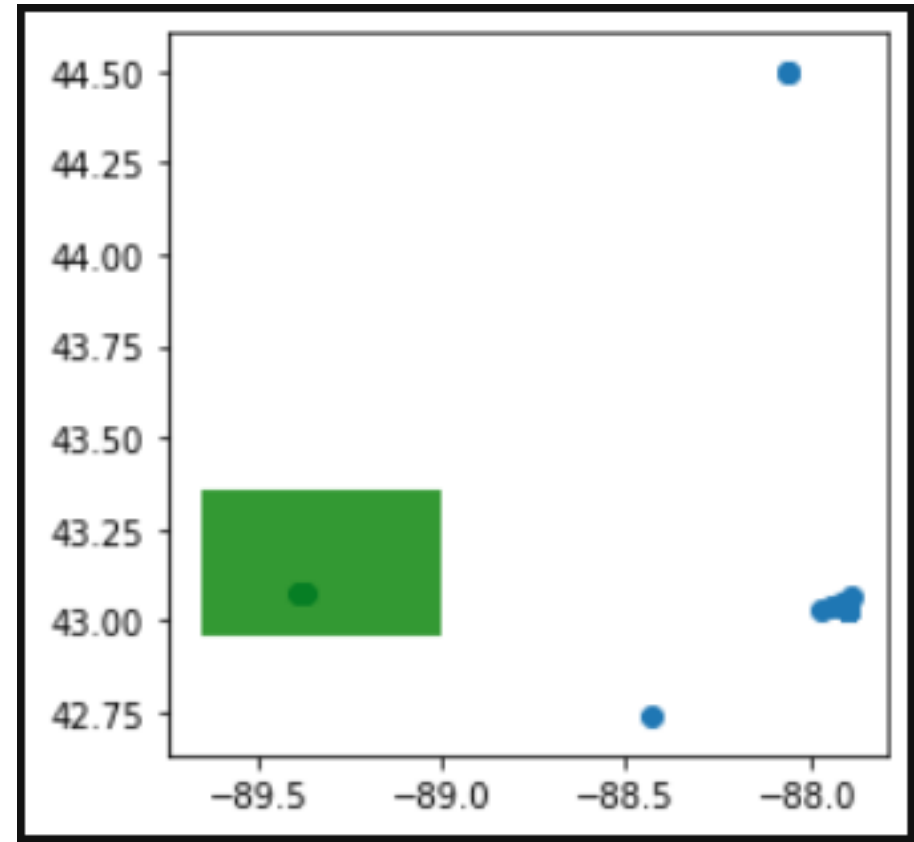
- Data Collection
- Visualization

Data Collection

1. Web scrape Livenation.com with Google API
 - Collect venue/ date/ band
2. Parse data to list of objects of venue containing show info
3. Iterate lists with google API

Visualization

1. Used a bounding box to visualizing which venues are in the Madison area, and therefore accessible to more UW students



Visualization

2. Used osmnx and network to find the shortest path from Science Hall (Campus) to the local venues
3. Used Carto to create isoline map to show walk times to local venues
4. Created a bar chart to show which days shows are typically on

Results

- Shortest Path
- Carto
- Proportional Symbol
- Histogram

Shortest Path

Majestic Theater



Orpheum Theater



Shortest Path

High Noon Saloon

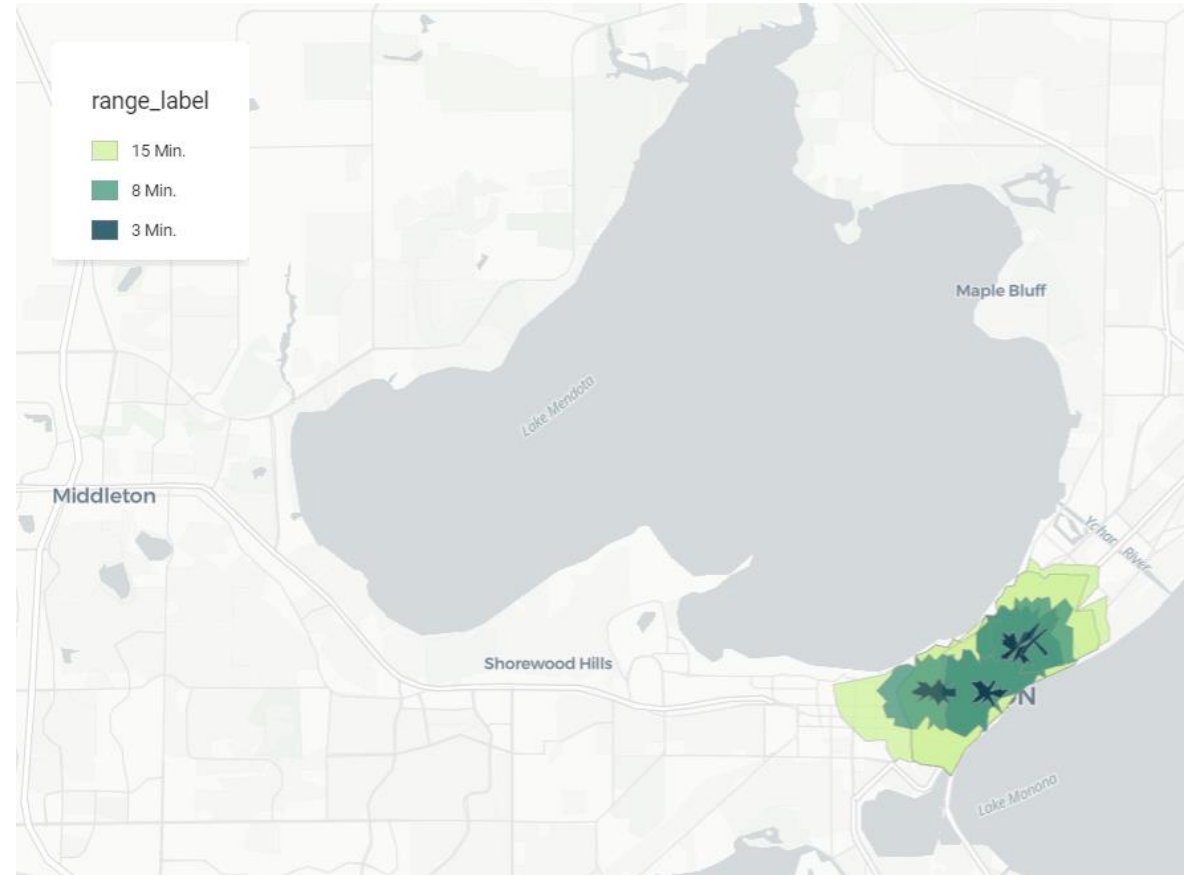


The Sylvee



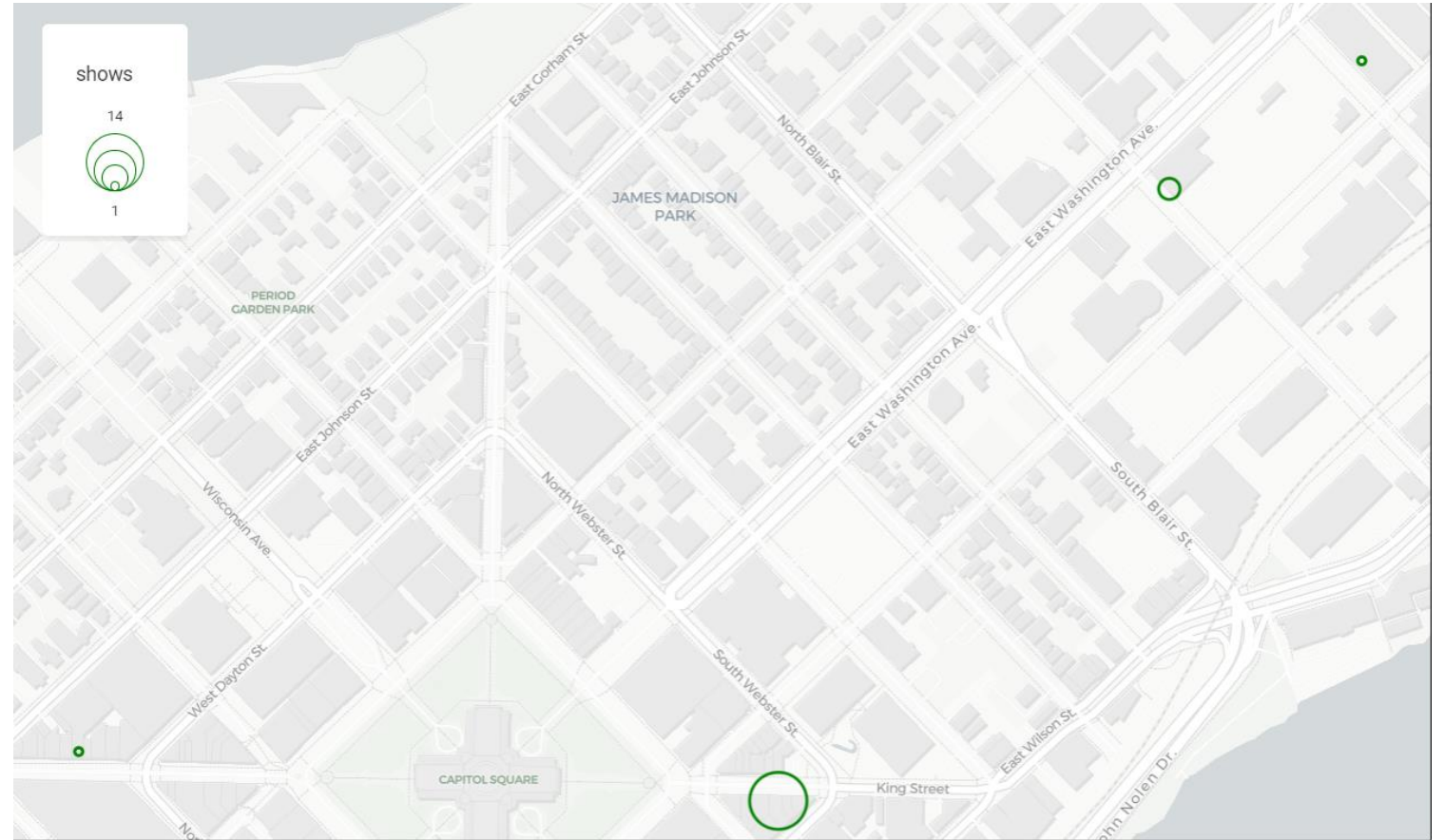
Carto

- This shows 3, 5, and 15-minute walk ranges to each local venue
- Of these four, two could be reached within a 15-minute walk, while the other two were just outside that range.



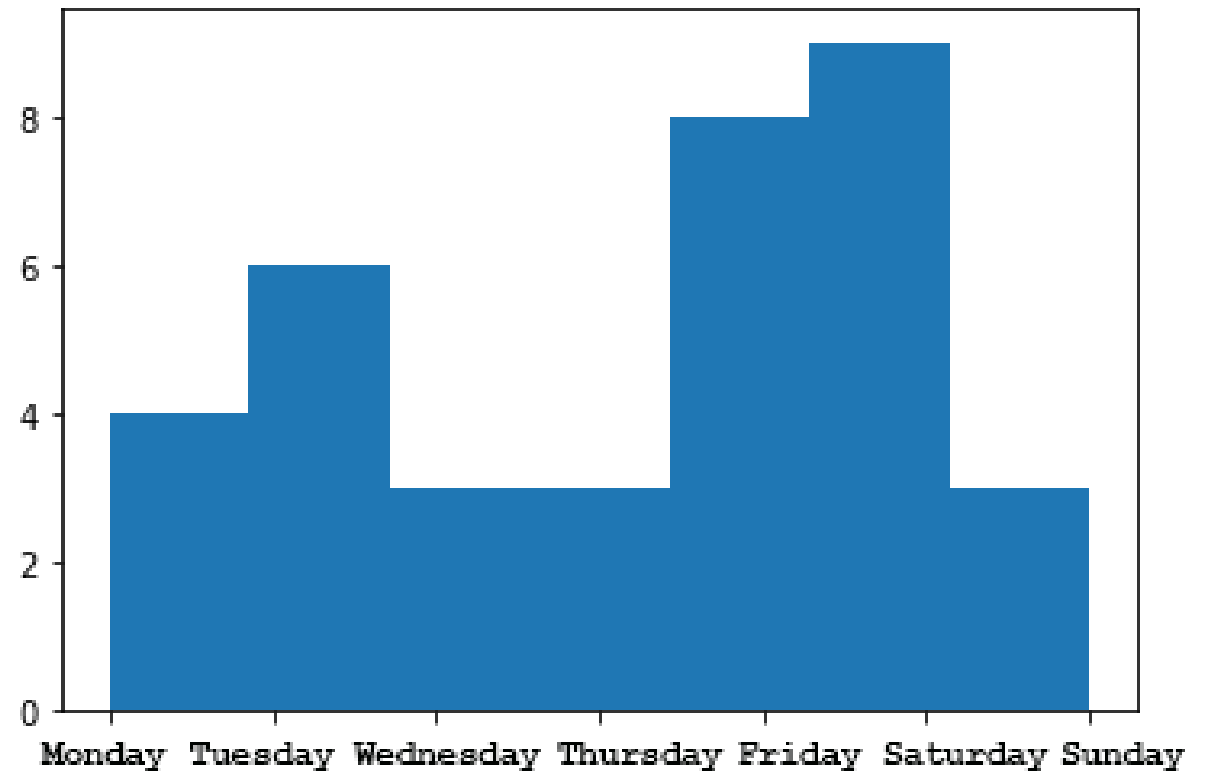
Proportional Symbol

- This map shows that the Majestic Theatre in Madison, WI had the most upcoming shows scheduled, at 14.




Histogram

- The highest number of are being scheduled on Saturdays, but there are many shows throughout the week



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***Conclusion/
Discussion***

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- Numerous cancelations due to Covid-19 left us with a much smaller data set than we had planned on having.
 - We elected to exclude genre, because many shows either a) did not list genre or b) listed multiple genres. We deemed it unnecessary for our analysis.
 - We were unable to scrape price data from Livenation. The price data requires users to browse available seats to see price. This provided a barrier to accessing the data for this project but would be interesting to explore in the future.

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- It would be interesting to compare collections scraped from Livenation to those scraped from Ticketmaster or other sites after the pandemic to see how they differ/ are the same.