

# Sylvan Crossword Report - Edition 4

12/8/21 - 2/4/23

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2/5/2023

## 1) Introduction



Best night of our lives

Hi bestest friends in the whole entire world! I hope y'all are ready for the 4th iteration of the Sylvan Crossword Report!! This report has nearly 200 more puzzles documented than the 3rd report, as we have now surpassed a whole year's worth of puzzles. So, yeah, these graphs are going to be pretty damn cool if I do say so myself. I hope y'all are as excited as I am!!

This installment covers from 12/8/21 - 2/4/23 (423 puzzles), with the first report covering up to 12/28/21, the second report covering up to 2/14/22, and the third report covering up to 7/23/22.

As a data scientist, I feel it's important to be transparent about data collection methods, so there can be complete trust between all of us. So, I want to let everyone know that I skipped data collection for the puzzle for Thursday, December 8, 2022, as this day coincided with [1,100 New York Times Union employees striking](#). This is officially a pro-labor data analysis project, and as such we do not cross the picket line, neither in-person nor virtually. Stand for workers' rights everywhere, and join a union if you are able.

This report will be structured as follows:

1. Introduction
2. Methodology
3. Summary
4. Profiles
5. Declarations of Funding and Competing Interests
6. Acknowledgements
7. Appendix: Summary Stats and Graphs for Each Weekday

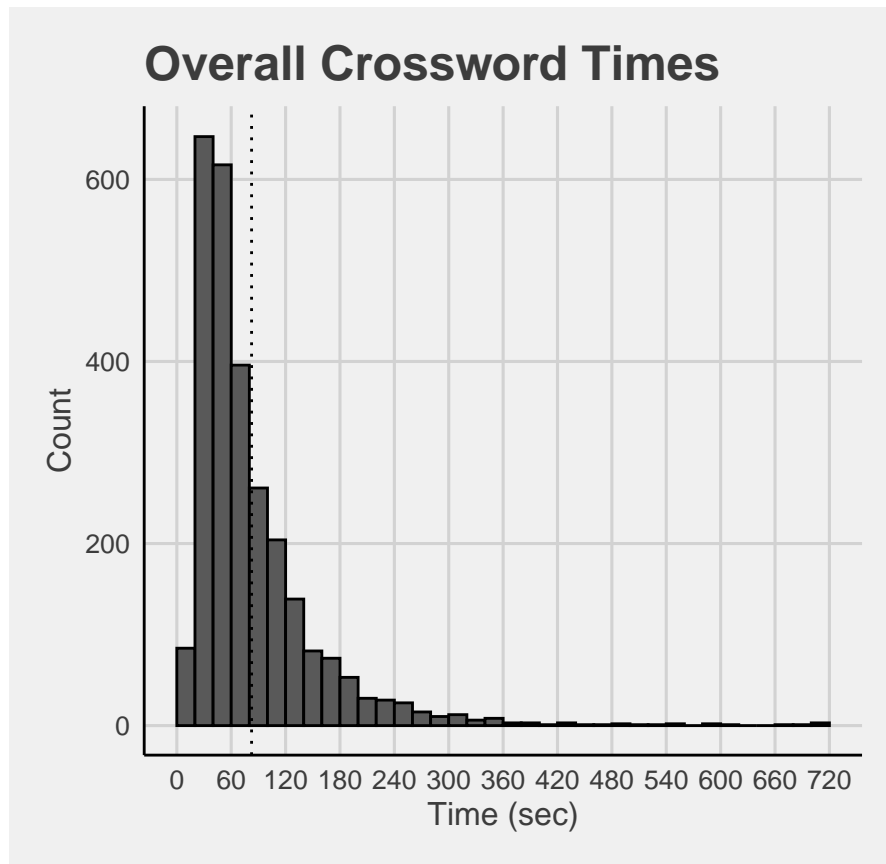
Without further adieu, graphs graphs graphs!!

## 2) Methodology

No methodological updates have been made since the first two reports, so go look there if you're really that interested. Or check out [my GitHub](#) if you wanna see the super amazing sick code.

### 3) Summary

#### 3.1) Overall Trends

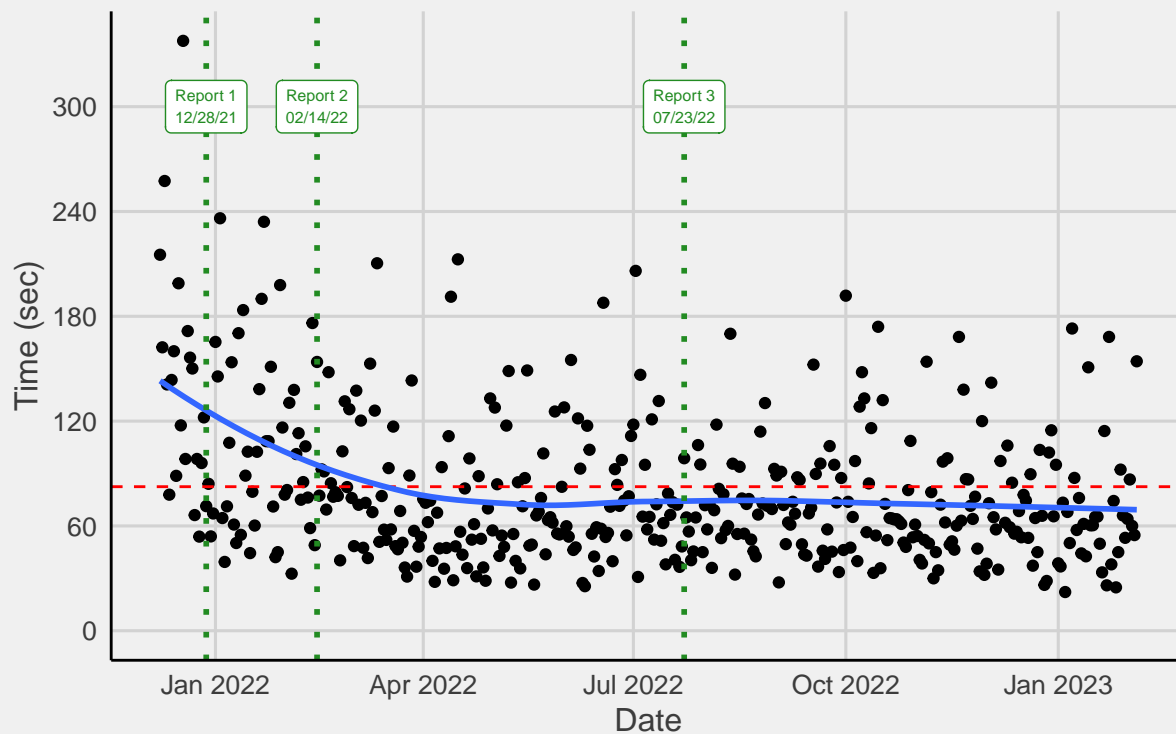


Stat	Time (sec)
Min.	6.0
1st Qu.	38.0
Median	60.0
Mean	82.5
3rd Qu.	102.0
Max.	709.0

Our group's crossword times have continued to improve in this most recent interval, with the median improving from 65 to 60 seconds, the mean dropping from 90.9 to 82.5 seconds, and the lower and upper quartiles dipping from 41 to 38 seconds and 112 to 102 seconds, respectively.

liam has once again bested his own record for quickest puzzle solve, surpassing his 7-second 4/24/22 solve with his 6-second 9/18/22 solve. liam now holds 8 of the 9 quickest solves, with Bahsdaddy holding the 4th-quickest solve with his 8-second solve on 1/22/23, although this was only a 4x4 puzzle.

## Overall Crossword Times by Date

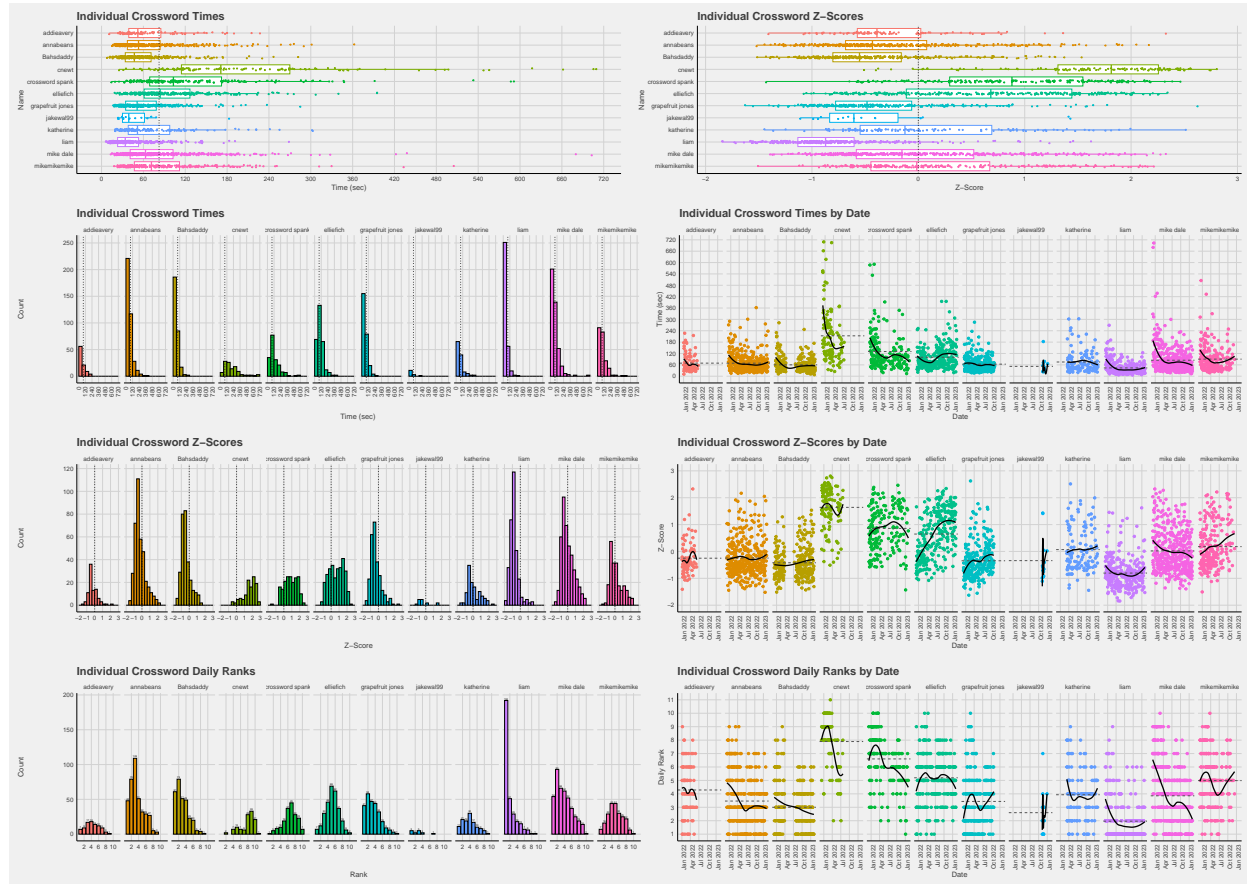


Overall Best Week

Date	Weekday	Time	Week Avg Time
2022-04-24	Sunday	31.1	51.1
2022-04-25	Monday	88.5	51.1
2022-04-26	Tuesday	52.6	51.1
2022-04-27	Wednesday	36.2	51.1
2022-04-28	Thursday	28.6	51.1
2022-04-29	Friday	70.0	51.1
2022-04-30	Saturday	133.0	51.1

Woohoo, slight improvements!!!!

## 3.2) Individuals' Scores



As mentioned in Report 3, when looking at the **Individual Crossword Daily Ranks by Date** plot in the bottom-right, most people's average rank is plummeting simply due to the decreasing number of solvers per puzzle, hence why individuals' z-scores can plateau or even increase, while their ranks decrease.

Note that in the above boxplots and histograms, the dotted lines represent the overall average, while in the scatterplots, the dashed lines represent each participant's personal average.

Rankings of Each Player

Name	1	2	3	4	5	6	7	8	9	10	11	N/A	Total Score
mike dale	54	93	66	62	52	37	25	19	14	1	0	0	3445
annabeans	48	79	109	51	32	29	27	5	3	0	0	40	3269
liam	192	51	29	18	15	7	6	1	1	0	0	103	3211
Bahsdaddy	61	79	51	49	23	20	5	4	1	0	0	130	2637
grapefruit jones	41	58	47	44	32	18	9	6	3	1	0	164	2218
elliefich	7	12	30	46	69	62	37	19	6	2	0	133	1973
mikemikemike	7	16	29	44	44	30	25	22	6	1	0	199	1571
crossword spank	1	5	8	10	19	37	45	28	23	7	0	240	988
katherine	11	21	19	30	17	10	8	5	1	0	0	301	984
addieavery	7	9	17	18	14	12	9	3	1	0	0	333	694
cnewt	0	2	0	7	10	7	6	28	33	21	1	308	472
jakewal99	5	2	5	2	0	0	1	0	0	0	0	408	141

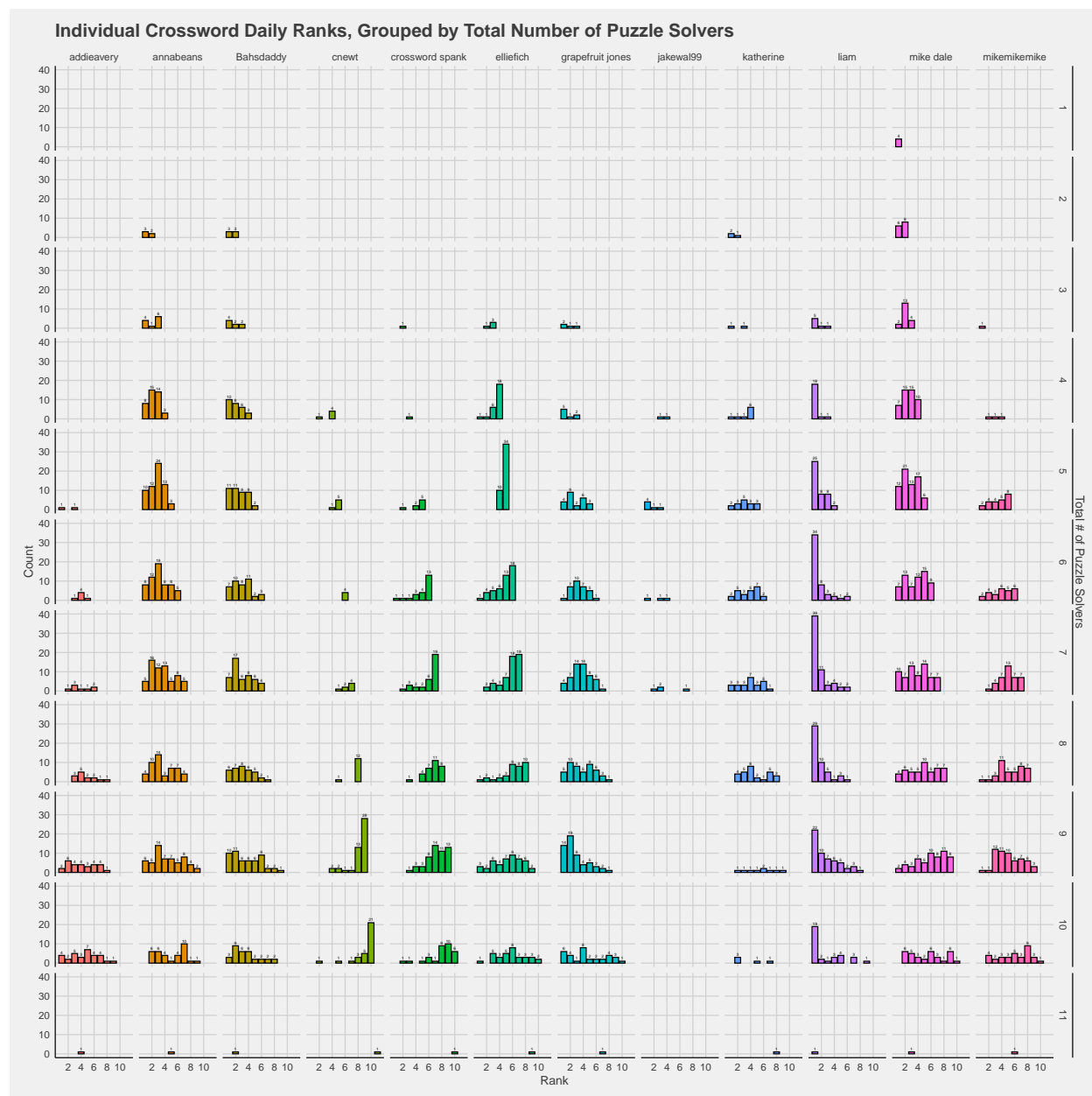
The above table displays the number of times each player has finished at each rank, with the **Total Score** column being the sum of points if a 1st-place finish gets 11 points, 2nd-place gets 10, ..., 11th-place gets 1 point.

I take no pleasure in reporting that I'm now at the top. That's literally only because I do the puzzles everyday.

### 3.3) Individual Rankings by Number of Players Beaten per Puzzle

Clearly, there is a methodological issue if I am the front runner of this crossword competition, considering I'm objectively a thoroughly mediocre crossworder. The good news is this result can clearly be explained by the fact that not all 1st-placed finishes are equal. For example, if I win a puzzle by finishing 1st out of 3 participants, as I did on 6/9/22, in looking solely at raw ranks, that is identical to liam finishing 1st out of 11 participants, as he did on 3/12/22.

The following is a plot of each player's distribution of rank, faceted by how many total players solved a given puzzle.



Now, we see a distribution of scores that is much more aligned with intuition, with liam being a very skilled crossworder, as he wins puzzles often regardless of the size of the competitor pool, while I have a much more uniform distribution across all competitor pool sizes.

To attempt to account for this, I have created an alternative ranking system to give a different perspective

on the leaderboard, by instead scoring players per puzzle based on how many fellow competitors they beat. Thus, my solve on 6/9/22 would be worth 3 points, as I beat 2 competitors, and liam's solve on 3/12/22 would be worth 11 points, as he beat 10 competitors. This alternative ranking system is designed to reward players who achieved higher ranks in puzzles in which there were more competitors, and hurts players like me who have racked up a boatload of high finishes, largely by virtue of diminishing puzzle participation over time.

The following tables displays the number of times each player beat a given number of fellow competitors, ranging from 10, indicating a player bested 10 other players, to 0, indicating a player bested no other players (i.e., finished last), with the **Total Score** column being the sum of points if beating 10 other players gets 11 points, beating 9 other players gets 10 points, ..., beating 0 other players gets 1 point.

Number of Competitors Bested for Each Player

Name	10	9	8	7	6	5	4	3	2	1	0	N/A	Total Score
liam	1	19	24	40	59	60	42	41	22	9	3	103	1971
annabeans	0	0	12	15	34	46	48	74	72	56	26	40	1632
mike dale	0	0	9	13	22	28	54	66	70	97	64	0	1509
Bahsdaddy	0	4	19	23	26	40	41	53	44	29	14	130	1438
grapefruit jones	0	6	18	25	31	22	38	52	32	27	8	164	1327
mikemikemike	0	0	5	4	16	21	36	28	46	35	33	199	848
elliefich	0	1	3	8	11	13	25	24	34	65	106	133	815
addieavery	0	4	4	12	7	15	16	12	13	6	1	333	491
katherine	0	0	3	1	8	12	19	20	17	24	18	301	455
crossword spank	0	0	1	1	1	7	10	17	35	47	64	240	447
cnewt	0	0	1	0	0	3	2	3	6	21	79	308	188
jakewal99	0	0	0	0	0	2	6	2	2	1	2	408	60

Now, we see that according to this scoring method, liam is the clear front runner, with annabeans staying in 2nd, while I shift down to 3rd, and I am really only sitting that high purely due to not skipping any puzzles.

The rest of the report will continue with using raw ranks, as opposed to number of competitors beaten, due to ease of interpretability, and due to the fact that this scoring system is also imperfect. For example, if a person finishes 1st out of 3 one day, and then finishes 1st out of 8 the next day, their total number of competitors beaten will have dropped by 5, which seems awfully variable for a player who finished 1st in back-to-back days.

I just want to make it clear that I don't think I'm the best crossworder, or even the 3rd-best crossworder for that matter, among this fine group of competitors.



### 3.4) Improvements in Most Recent Period

This section will explore performance before (inclusive) and after 07/23/22, which is the final date in which data was included for Edition 3.

Change in Average Time

Name	Avg Time Pre-07/23	Avg Time Post-07/23	Change In Time
addieavery	69.1		
annabeans	74.1	61.5	-12.6
Bahsdaddy	69.1	54.5	-14.6
cnewt	213.6	179.0	-34.6
crossword spank	143.3	105.0	-38.3
elliefich	85.6	114.6	29.1
grapefruit jones	64.5	61.8	-2.7
jakewal99		52.1	
katherine	76.4	73.8	-2.6
liam	49.5	36.3	-13.2
mike dale	96.7	70.1	-26.6
mikemikemike	91.0	86.6	-4.4

The biggest improvement in times once again goes to crossword spank, with an average 38-second improvement in this 4th period.

### Change in Average Z-Score

Name	Avg Z-Score Pre-07/23	Avg Z-Score Post-07/23	Change In Z-Score
addieavery	-0.25		
annabeans	-0.24	-0.25	0.00
Bahsdaddy	-0.50	-0.37	0.14
cnewt	1.64	2.27	0.64
crossword spank	0.81	0.96	0.15
elliefich	0.20	1.10	0.90
grapefruit jones	-0.44	-0.10	0.34
jakewal99		-0.34	
katherine	0.02	0.12	0.10
liam	-0.77	-0.85	-0.07
mike dale	0.11	-0.08	-0.19
mikemikemike	0.10	0.54	0.44

mike dale holds the biggest improvement in z-scores, with an average of a 0.19 improvement per puzzle.

### Change in Average Rank

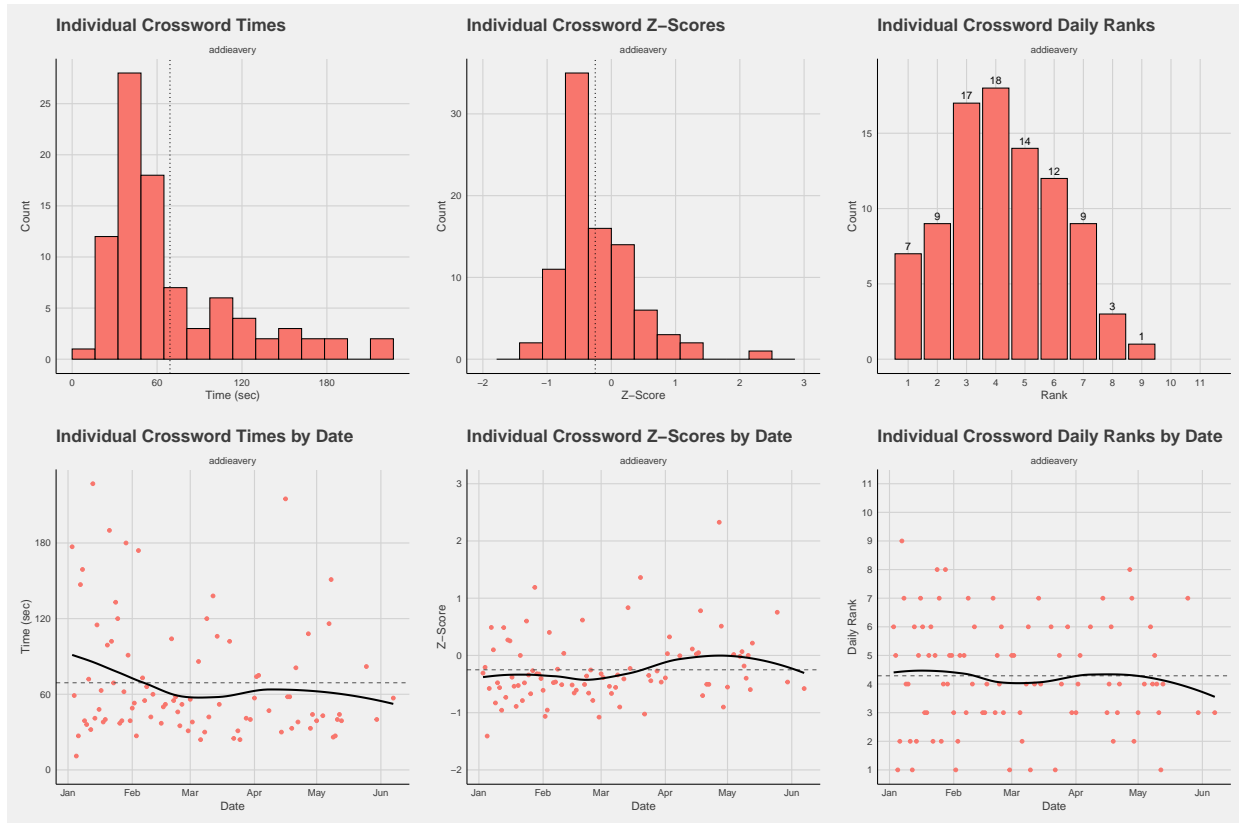
Name	Avg Rank Pre-07/23	Avg Rank Post-07/23	Change In Rank
addieavery	4.3		
annabeans	3.7	3.1	-0.6
Bahsdaddy	3.5	2.7	-0.8
cnewt	7.9	8.0	0.1
crossword spank	7.1	5.6	-1.5
elliefich	5.1	5.2	0.1
grapefruit jones	3.3	3.8	0.6
jakewal99		2.6	
katherine	4.0	3.9	-0.2
liam	2.2	1.6	-0.6
mike dale	4.5	3.1	-1.3
mikemikemike	4.9	5.2	0.3

In terms of rank, crossword spank showed the biggest average movement up the standings, with an average improvement per day of 1.5. What a braniac!!

## 4) Profiles

As with previous editions, everyone has their own page in this report with their own statistics and graphs. Note that in all the plots in this section, the dotted and dashed lines represent the person's personal average.

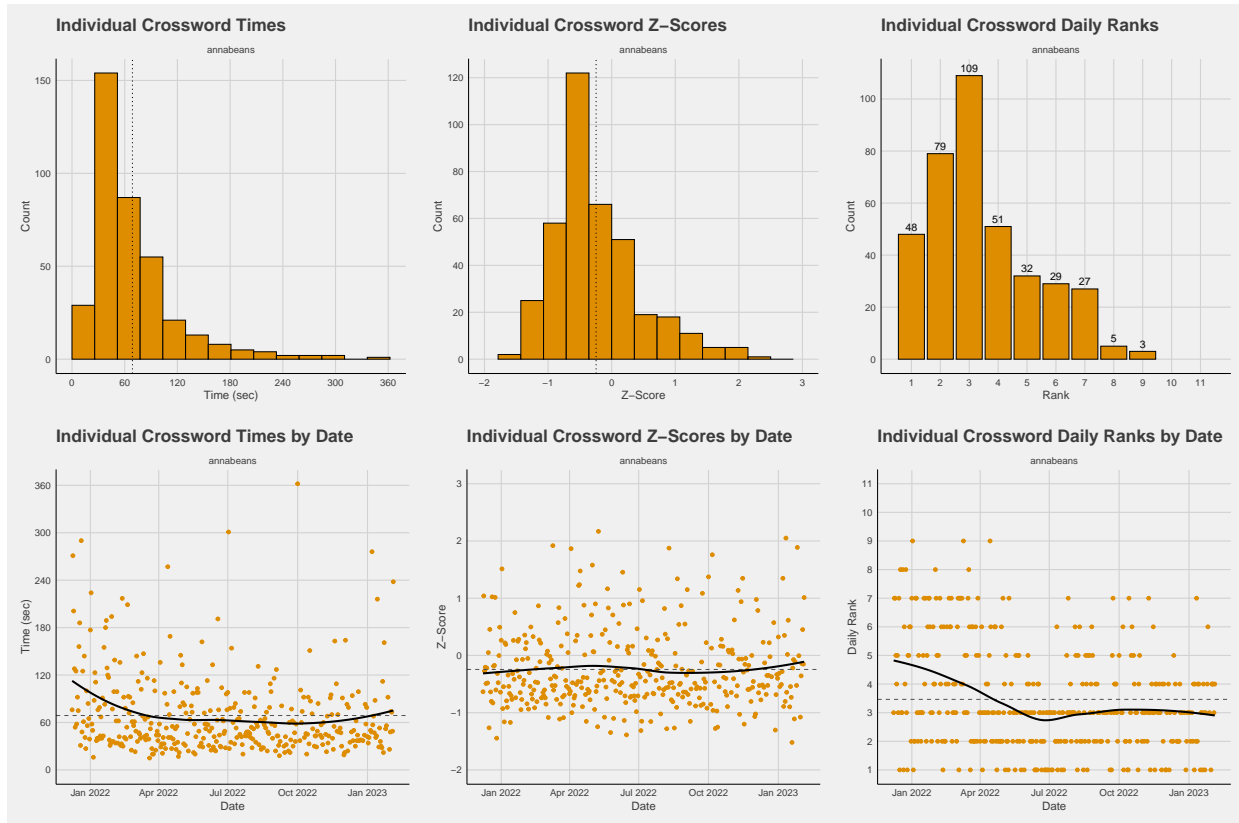
## 4.1) addieavery



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	11.00	39.00	52.00	69.12	64.94	85.00	227.00
Z-Score	-1.41	-0.57	-0.39	-0.25	-0.29	0.02	2.33
Rank	1.00	3.00	4.00	4.29		6.00	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-01-16	Sunday	48	82.86	0.25	-0.41	7	4.57
2022-01-17	Monday	63	82.86	-0.38	-0.41	6	4.57
2022-01-18	Tuesday	38	82.86	-0.54	-0.41	3	4.57
2022-01-19	Wednesday	40	82.86	-0.89	-0.41	3	4.57
2022-01-20	Thursday	99	82.86	-0.53	-0.41	5	4.57
2022-01-21	Friday	190	82.86	0.00	-0.41	6	4.57
2022-01-22	Saturday	102	82.86	-0.79	-0.41	2	4.57

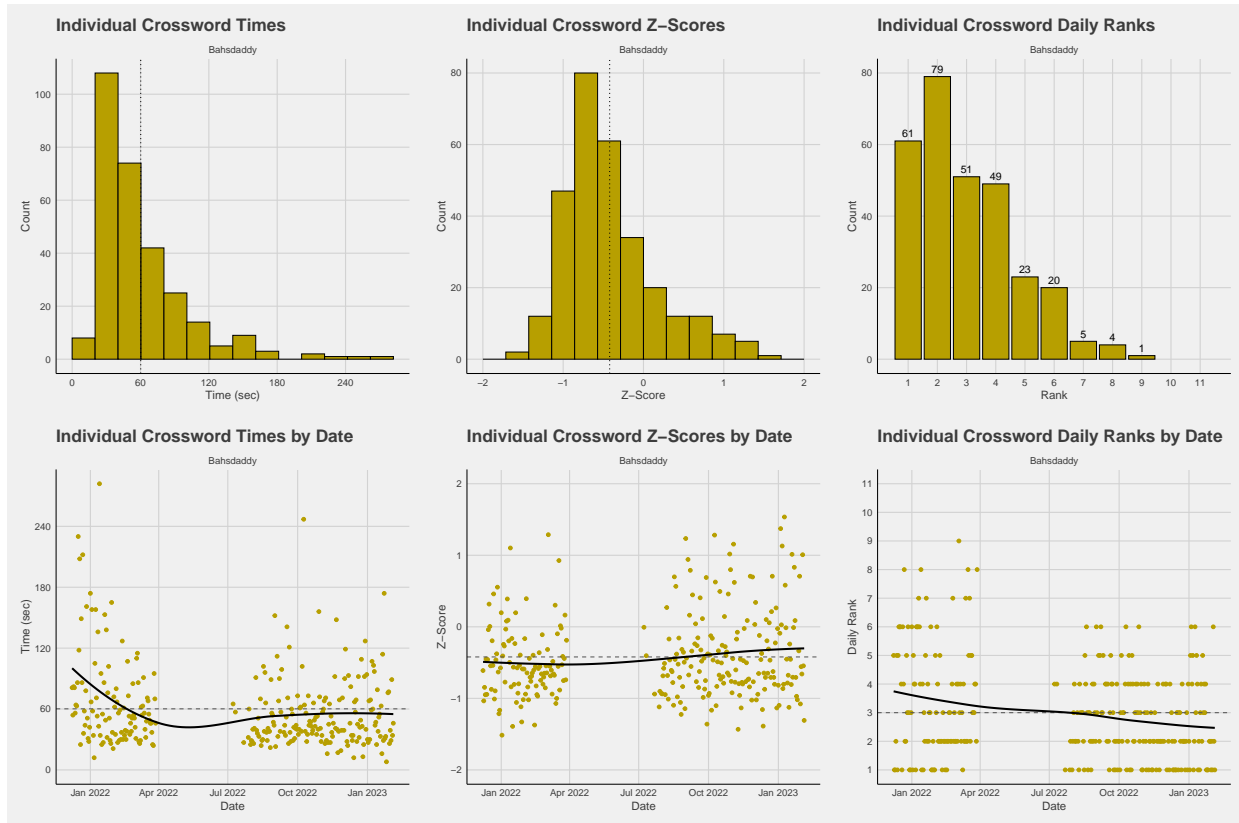
## 4.2) annabeans



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	15.00	37.00	53.00	68.81	62.68	84.00	362.00
Z-Score	-1.52	-0.68	-0.43	-0.24	-0.29	0.08	2.17
Rank	1.00	2.00	3.00	3.46		4.50	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-01-09	Sunday	37	54.43	-0.91	-0.73	2	3
2022-01-10	Monday	40	54.43	-0.34	-0.73	5	3
2022-01-11	Tuesday	76	54.43	-0.54	-0.73	3	3
2022-01-12	Wednesday	39	54.43	-0.66	-0.73	3	3
2022-01-13	Thursday	79	54.43	-1.17	-0.73	2	3
2022-01-14	Friday	43	54.43	-0.70	-0.73	3	3
2022-01-15	Saturday	67	54.43	-0.77	-0.73	3	3

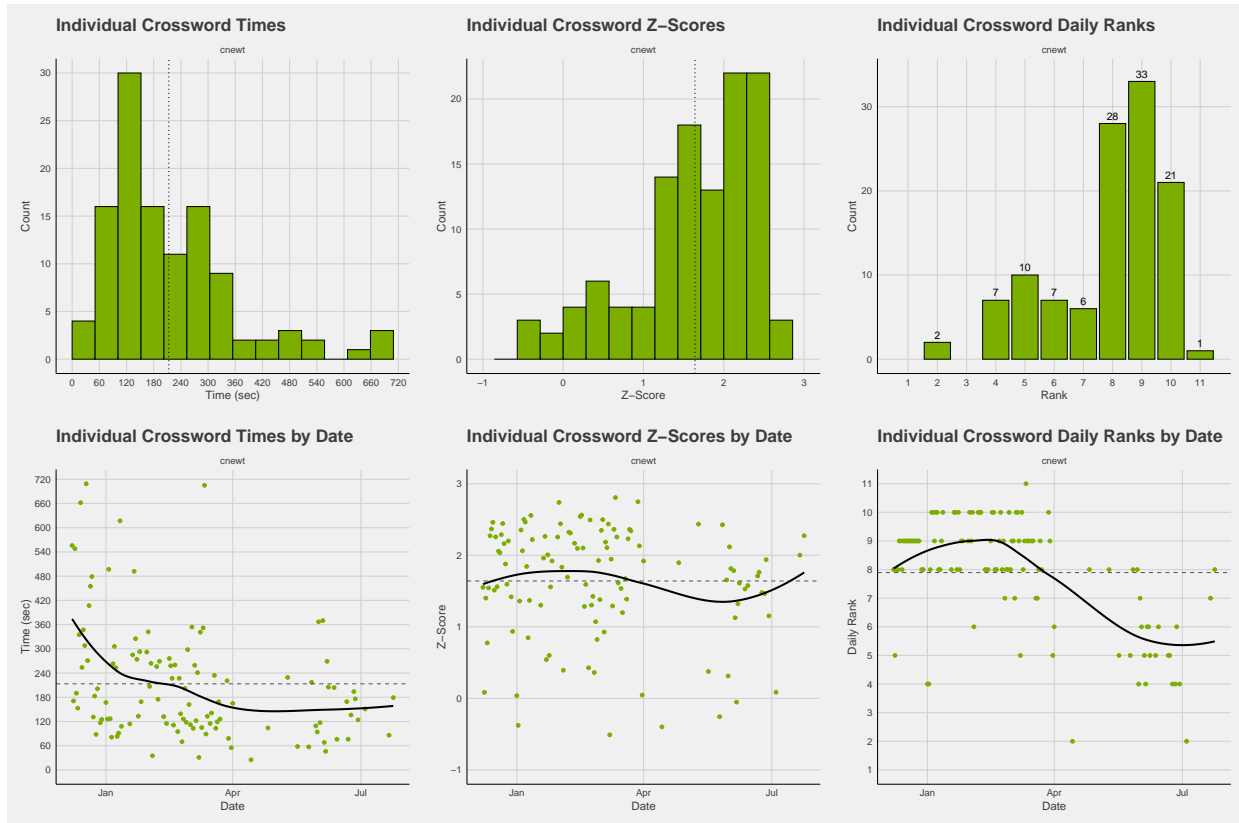
### 4.3) Bahsdaddy



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	8.00	34.0	47.00	60.19	55.68	71.00	282.00
Z-Score	-1.51	-0.8	-0.55	-0.42	-0.46	-0.16	1.54
Rank	1.00	2.0	3.00	3.00		4.00	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-02-13	Sunday	30	48.43	-0.60	-0.84	2	1.86
2022-02-14	Monday	61	48.43	-1.37	-0.84	1	1.86
2022-02-15	Tuesday	34	48.43	-0.55	-0.84	2	1.86
2022-02-16	Wednesday	39	48.43	-0.83	-0.84	1	1.86
2022-02-17	Thursday	30	48.43	-0.95	-0.84	2	1.86
2022-02-18	Friday	38	48.43	-0.97	-0.84	2	1.86
2022-02-19	Saturday	107	48.43	-0.58	-0.84	3	1.86

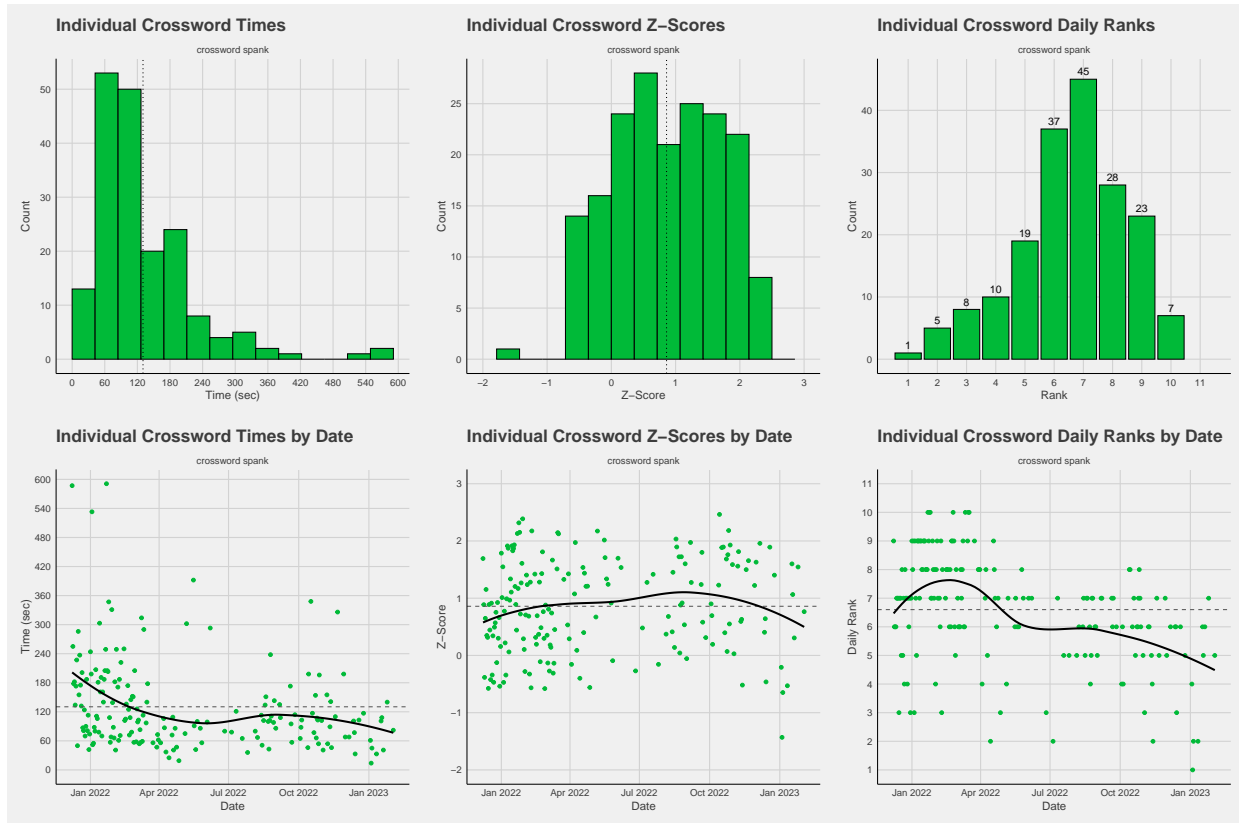
#### 4.4) cnewt



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	25.00	114.50	171.00	213.30	200.84	270.00	709.00
Z-Score	-0.51	1.31	1.81	1.64	1.68	2.26	2.81
Rank	2.00	7.00	8.00	7.90		9.00	11.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-02-27	Sunday	118	200.86	0.82	1.73	8	8.71
2022-02-28	Monday	298	200.86	1.93	1.73	10	8.71
2022-03-01	Tuesday	162	200.86	1.38	1.73	8	8.71
2022-03-02	Wednesday	112	200.86	2.35	1.73	9	8.71
2022-03-03	Thursday	354	200.86	2.50	1.73	9	8.71
2022-03-04	Friday	103	200.86	0.93	1.73	7	8.71
2022-03-05	Saturday	259	200.86	2.18	1.73	10	8.71

## 4.5) crossword spank



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	14.00	69.00	103.00	130.36	120.04	172.00	591.00
Z-Score	-1.43	0.29	0.88	0.86	0.87	1.55	2.46
Rank	1.00	6.00	7.00	6.60		8.00	10.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2021-12-12	Sunday	134	180.29	1.15	0.31	7	6.14
2021-12-13	Monday	173	180.29	0.35	0.31	7	6.14
2021-12-14	Tuesday	227	180.29	0.32	0.31	7	6.14
2021-12-15	Wednesday	50	180.29	-0.58	0.31	3	6.14
2021-12-16	Thursday	286	180.29	0.89	0.31	7	6.14
2021-12-17	Friday	155	180.29	0.44	0.31	7	6.14
2021-12-18	Saturday	237	180.29	-0.42	0.31	5	6.14

## 4.6) elliefich

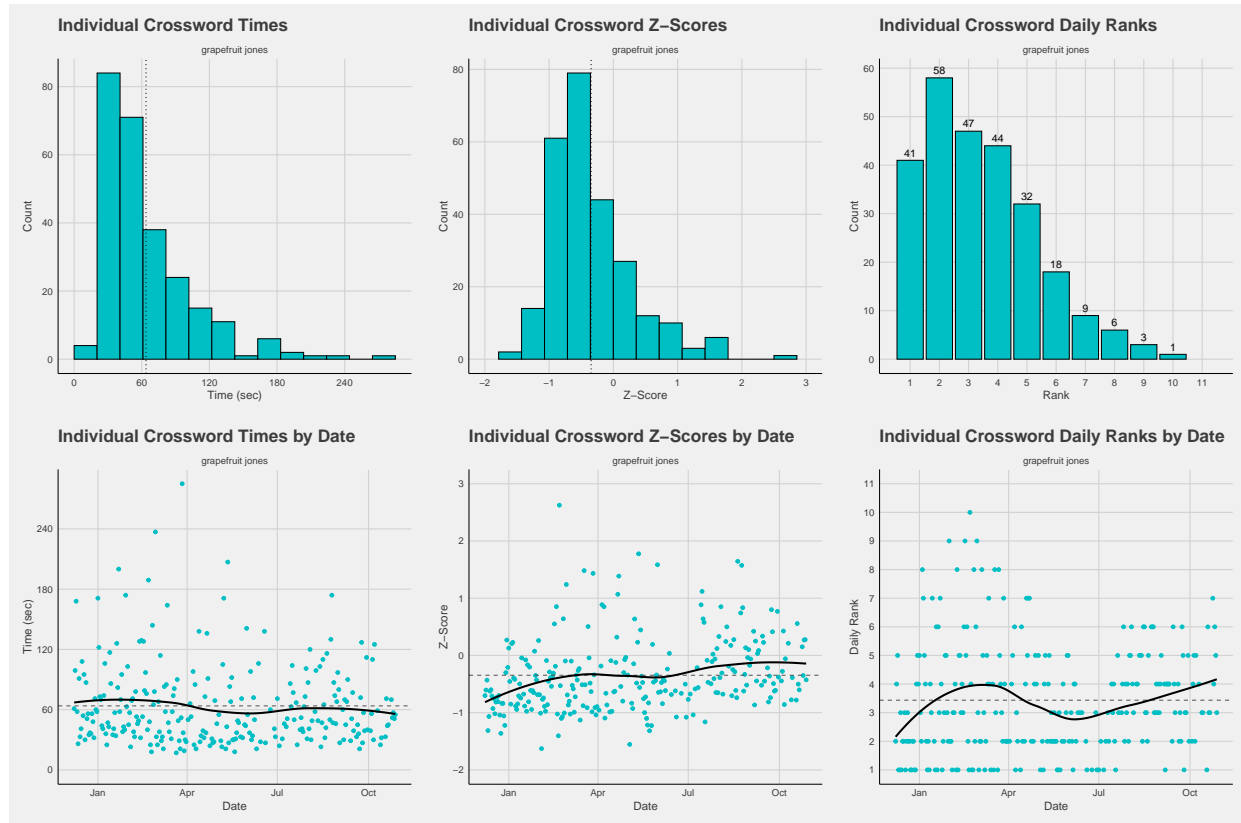


Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	19.00	61.00	84.00	100.10	94.45	126.75	395.00
Z-Score	-1.08	-0.11	0.68	0.65	0.65	1.44	2.34
Rank	1.00	4.00	5.00	5.20		6.00	10.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2021-12-19	Sunday	32	69.57	-0.79	-0.43	4	4.29
2021-12-20	Monday	83	69.57	-0.77	-0.43	2	4.29
2021-12-21	Tuesday	92	69.57	-0.49	-0.43	5	4.29
2021-12-22	Wednesday	77	69.57	-0.54	-0.43	3	4.29
2021-12-23	Thursday	72	69.57	0.19	-0.43	6	4.29
2021-12-24	Friday	83	69.57	-0.34	-0.43	4	4.29
2021-12-25	Saturday	48	69.57	-0.28	-0.43	6	4.29



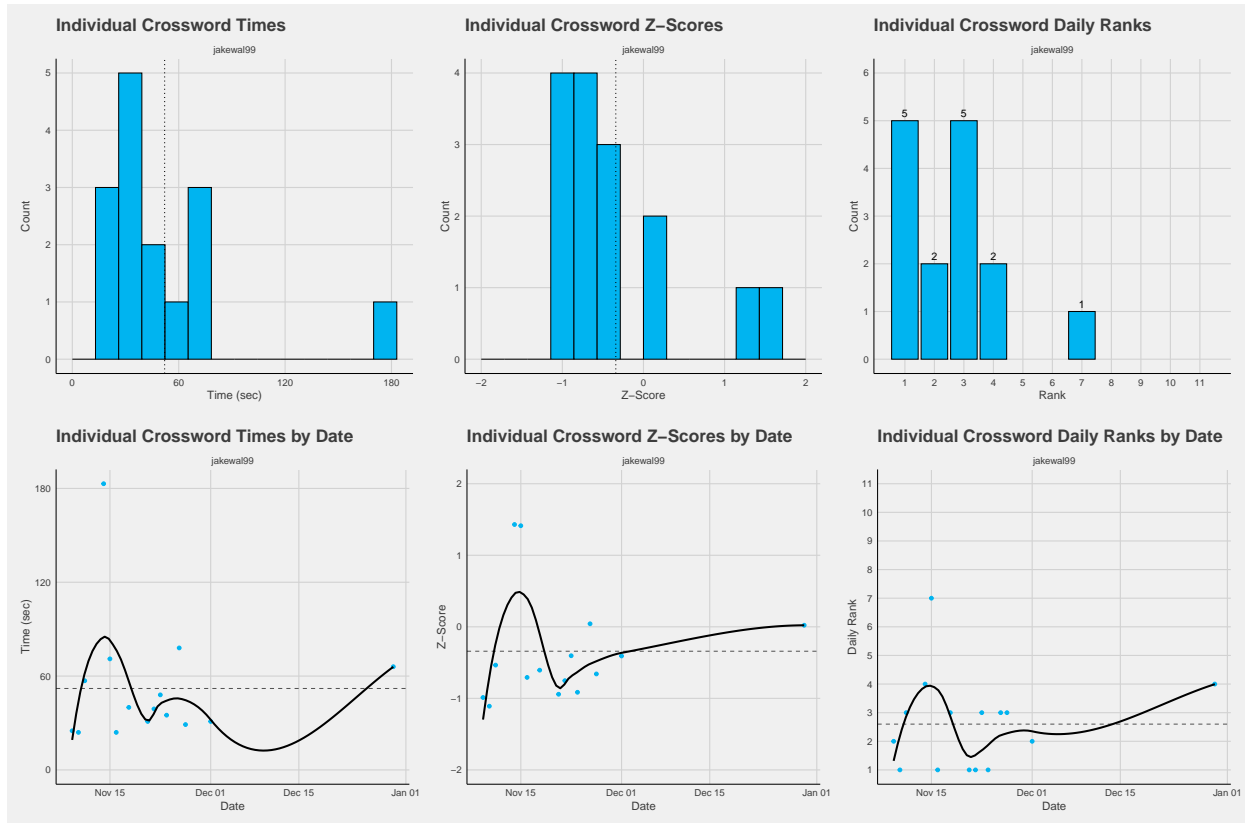
## 4.7) grapefruit jones



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	17.00	34.50	51.00	63.76	59.51	78.50	285.00
Z-Score	-1.63	-0.78	-0.48	-0.35	-0.39	-0.06	2.62
Rank	1.00	2.00	3.00	3.44		5.00	10.00

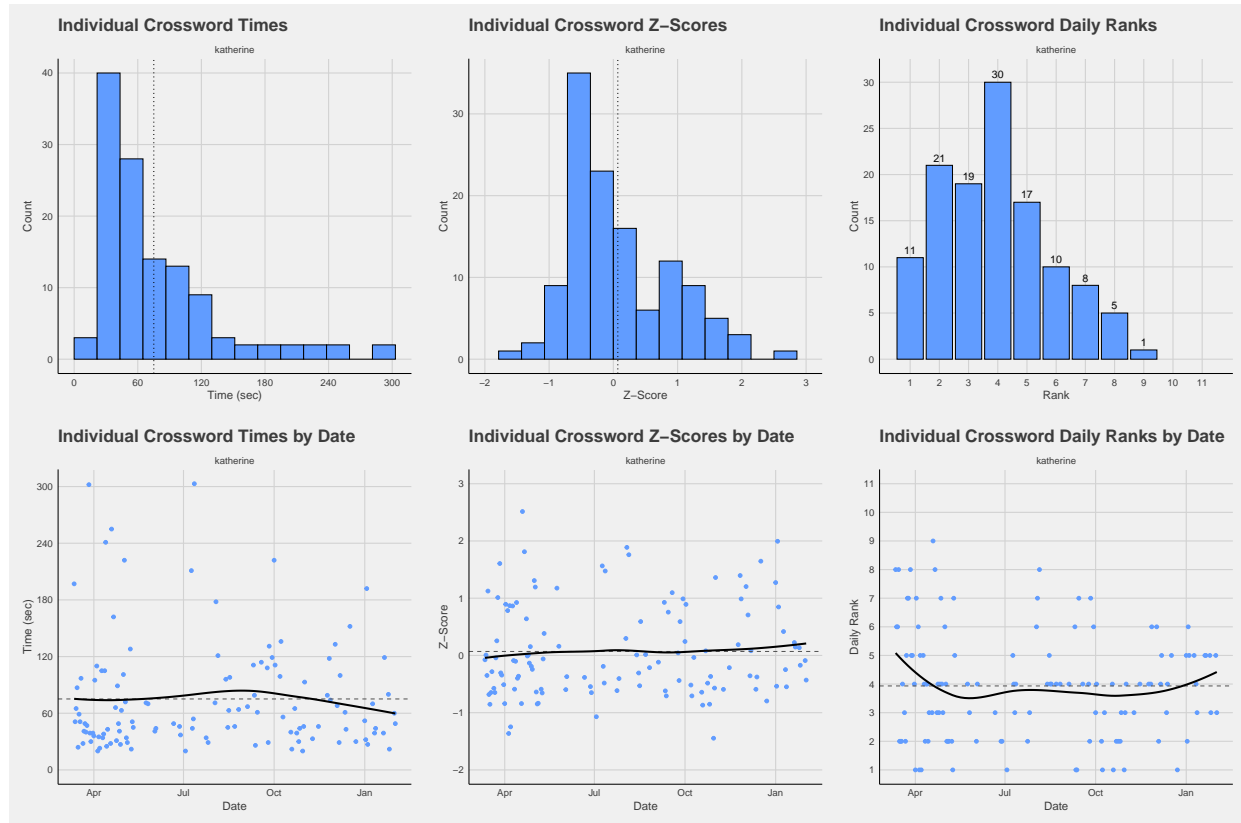
Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2021-12-19	Sunday	30	47.43	-0.81	-0.9	2	1.86
2021-12-20	Monday	87	47.43	-0.73	-0.9	3	1.86
2021-12-21	Tuesday	51	47.43	-0.81	-0.9	2	1.86
2021-12-22	Wednesday	56	47.43	-0.70	-0.9	2	1.86
2021-12-23	Thursday	35	47.43	-1.04	-0.9	1	1.86
2021-12-24	Friday	37	47.43	-1.36	-0.9	1	1.86
2021-12-25	Saturday	36	47.43	-0.84	-0.9	2	1.86

## 4.8) jakewal99



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	24.00	30.00	39.00	52.07	52.07	61.50	183.00
Z-Score	-1.11	-0.83	-0.61	-0.34	-0.34	-0.19	1.43
Rank	1.00	1.00	3.00	2.60		3.00	7.00

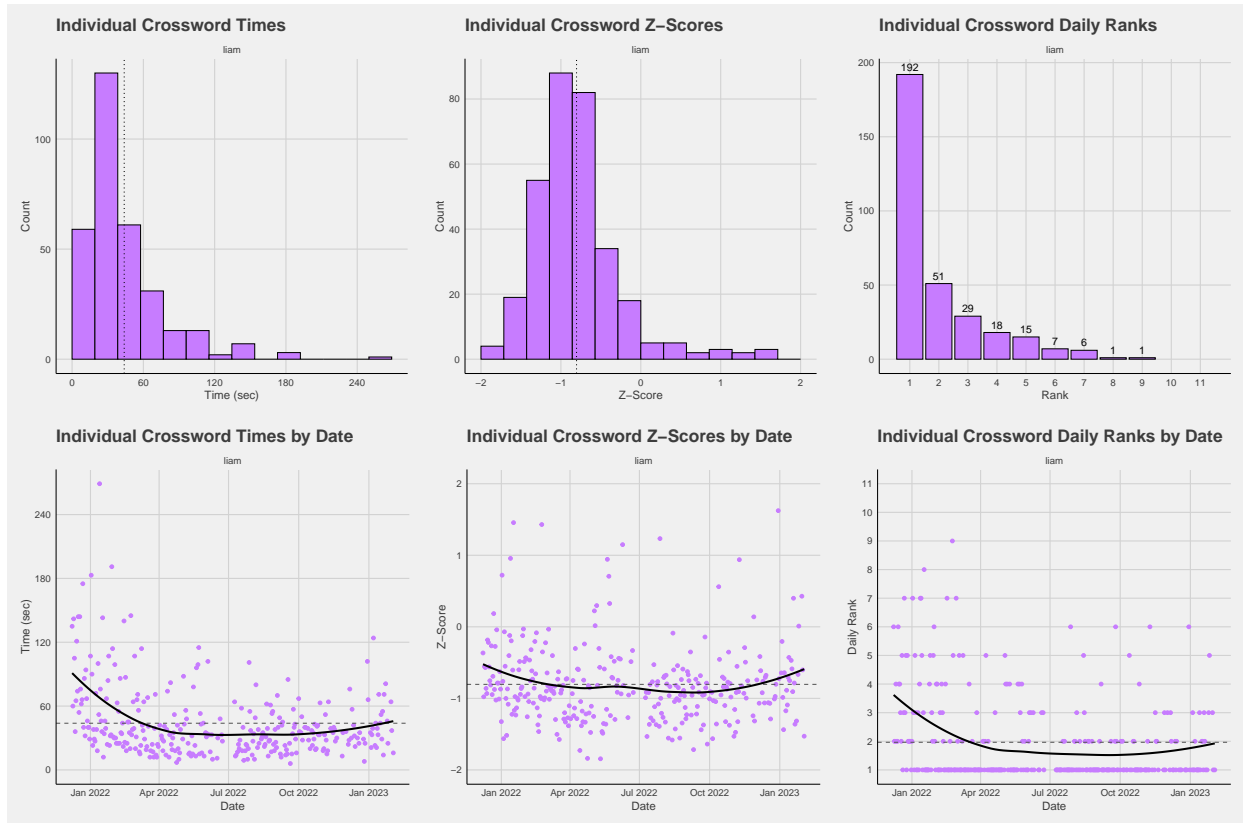
## 4.9) katherine



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	20.00	38.25	51.50	75.12	68.13	97.75	303.00
Z-Score	-1.45	-0.55	-0.13	0.07	0.03	0.69	2.51
Rank	1.00	2.00	4.00	3.93		5.00	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-03-13	Sunday	51	62	0.01	-0.24	6	4.29
2022-03-14	Monday	65	62	-0.35	-0.24	6	4.29
2022-03-15	Tuesday	87	62	1.12	-0.24	8	4.29
2022-03-16	Wednesday	24	62	-0.68	-0.24	2	4.29
2022-03-17	Thursday	59	62	-0.85	-0.24	2	4.29
2022-03-18	Friday	51	62	-0.65	-0.24	2	4.29
2022-03-19	Saturday	97	62	-0.28	-0.24	4	4.29

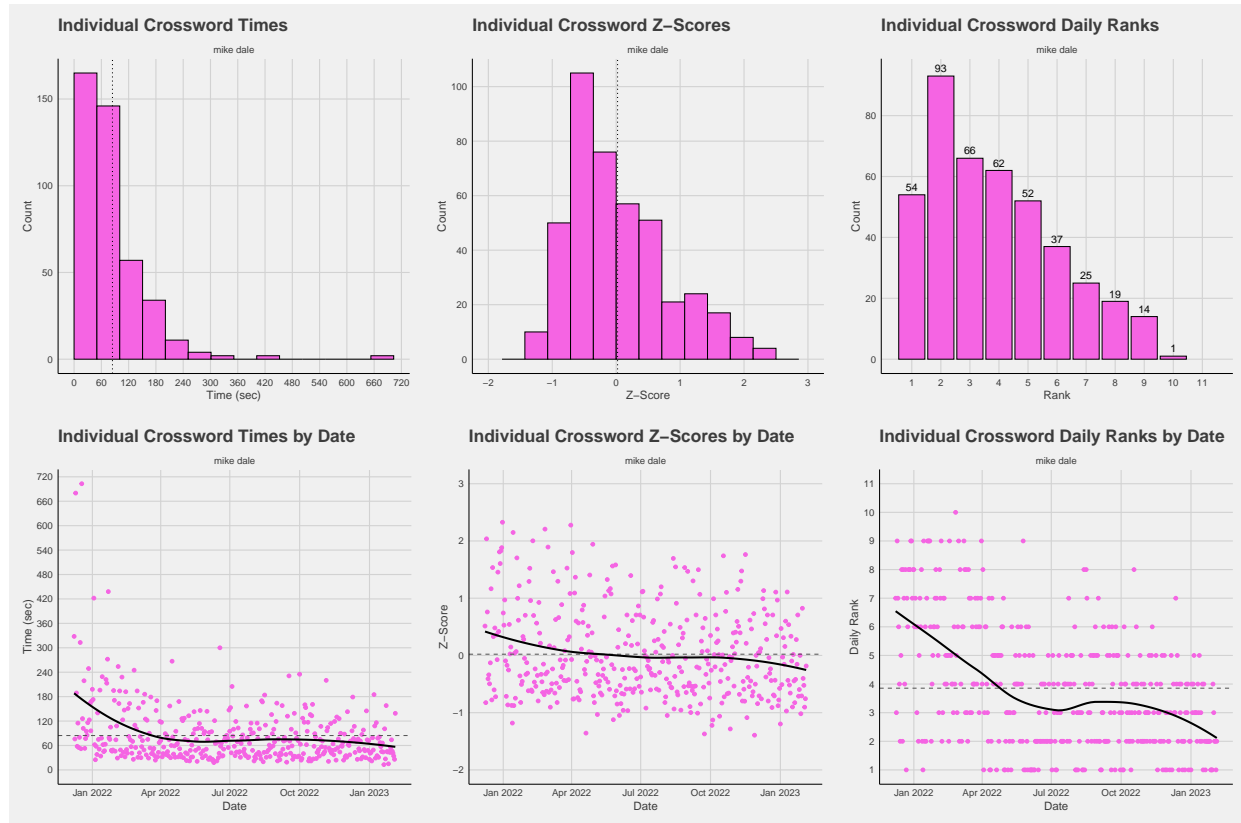
## 4.10) liam



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	6.00	23.00	34.00	43.88	39.84	53.0	269.00
Z-Score	-1.84	-1.13	-0.87	-0.80	-0.85	-0.6	1.62
Rank	1.00	1.00	1.00	1.97		2.0	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-08-21	Sunday	39	34	-0.85	-1.01	2	1.29
2022-08-22	Monday	13	34	-1.03	-1.01	1	1.29
2022-08-23	Tuesday	27	34	-1.55	-1.01	1	1.29
2022-08-24	Wednesday	28	34	-0.95	-1.01	1	1.29
2022-08-25	Thursday	61	34	-0.74	-1.01	2	1.29
2022-08-26	Friday	17	34	-1.34	-1.01	1	1.29
2022-08-27	Saturday	53	34	-0.59	-1.01	1	1.29

## 4.11) mike dale



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	13.00	41.00	63.00	84.43	75.57	102.50	703.00
Z-Score	-1.39	-0.58	-0.15	0.02	-0.02	0.52	2.33
Rank	1.00	2.00	3.00	3.86		5.00	10.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-06-05	Sunday	30	48.43	-0.84	-0.51	1	1.86
2022-06-06	Monday	26	48.43	-0.66	-0.51	1	1.86
2022-06-07	Tuesday	94	48.43	-0.25	-0.51	5	1.86
2022-06-08	Wednesday	26	48.43	-0.96	-0.51	1	1.86
2022-06-09	Thursday	24	48.43	-0.68	-0.51	1	1.86
2022-06-10	Friday	18	48.43	-0.40	-0.51	2	1.86
2022-06-11	Saturday	121	48.43	0.21	-0.51	2	1.86

## 4.12) mikemikemike



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	18.00	47.00	71.50	90.21	82.86	111.75	505.00
Z-Score	-1.51	-0.45	-0.01	0.18	0.14	0.67	2.21
Rank	1.00	4.00	5.00	4.99		6.00	10.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2021-12-26	Sunday	105	72.71	0.19	-0.51	7	3.86
2021-12-27	Monday	98	72.71	-0.34	-0.51	4	3.86
2021-12-28	Tuesday	51	72.71	-0.63	-0.51	3	3.86
2021-12-29	Wednesday	46	72.71	-0.87	-0.51	3	3.86
2021-12-30	Thursday	47	72.71	-0.31	-0.51	4	3.86
2021-12-31	Friday	63	72.71	-0.09	-0.51	5	3.86
2022-01-01	Saturday	99	72.71	-1.51	-0.51	1	3.86

## **5) Declarations of Funding and Competing Interests**

liam was my secret santa so I juiced his scores up a little bit.

## **6) Acknowledgements**

This one goes out to the 2022 Phillies for one of the best months of my life.

## 7) Appendix: Summary Stats Tables and

### 7.1) Summary Stats and Graphs for Each Weekday

The following tables give each person's quartiles with respect to time, z-score, and daily rank. These are the same data presented individually in each person's subsection of the "Profiles" Section.

#### 7.1.1) Summary Stats for Time

Name	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
addieavery	11	39.0	52.0	69.1	64.9	85.0	227
annabeans	15	37.0	53.0	68.8	62.7	84.0	362
Bahsdaddy	8	34.0	47.0	60.2	55.7	71.0	282
cnewt	25	114.5	171.0	213.3	200.8	270.0	709
crossword spank	14	69.0	103.0	130.4	120.0	172.0	591
elliefich	19	61.0	84.0	100.1	94.5	126.8	395
grapefruit jones	17	34.5	51.0	63.8	59.5	78.5	285
jakewal99	24	30.0	39.0	52.1	52.1	61.5	183
katherine	20	38.2	51.5	75.1	68.1	97.8	303
liam	6	23.0	34.0	43.9	39.8	53.0	269
mike dale	13	41.0	63.0	84.4	75.6	102.5	703
mikemikemike	18	47.0	71.5	90.2	82.9	111.8	505

#### 7.1.2) Summary Stats for Z-Score

Name	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
addieavery	-1.41	-0.57	-0.39	-0.25	-0.29	0.02	2.33
annabeans	-1.52	-0.68	-0.43	-0.24	-0.29	0.08	2.17
Bahsdaddy	-1.51	-0.80	-0.55	-0.42	-0.46	-0.16	1.54
cnewt	-0.51	1.31	1.81	1.64	1.68	2.26	2.81
crossword spank	-1.43	0.29	0.88	0.86	0.87	1.55	2.46
elliefich	-1.08	-0.11	0.68	0.65	0.65	1.44	2.34
grapefruit jones	-1.63	-0.78	-0.48	-0.35	-0.39	-0.06	2.62
jakewal99	-1.11	-0.83	-0.61	-0.34	-0.34	-0.19	1.43
katherine	-1.45	-0.55	-0.13	0.07	0.03	0.69	2.51
liam	-1.84	-1.13	-0.87	-0.80	-0.85	-0.60	1.62
mike dale	-1.39	-0.58	-0.15	0.02	-0.02	0.52	2.33
mikemikemike	-1.51	-0.45	-0.01	0.18	0.14	0.67	2.21

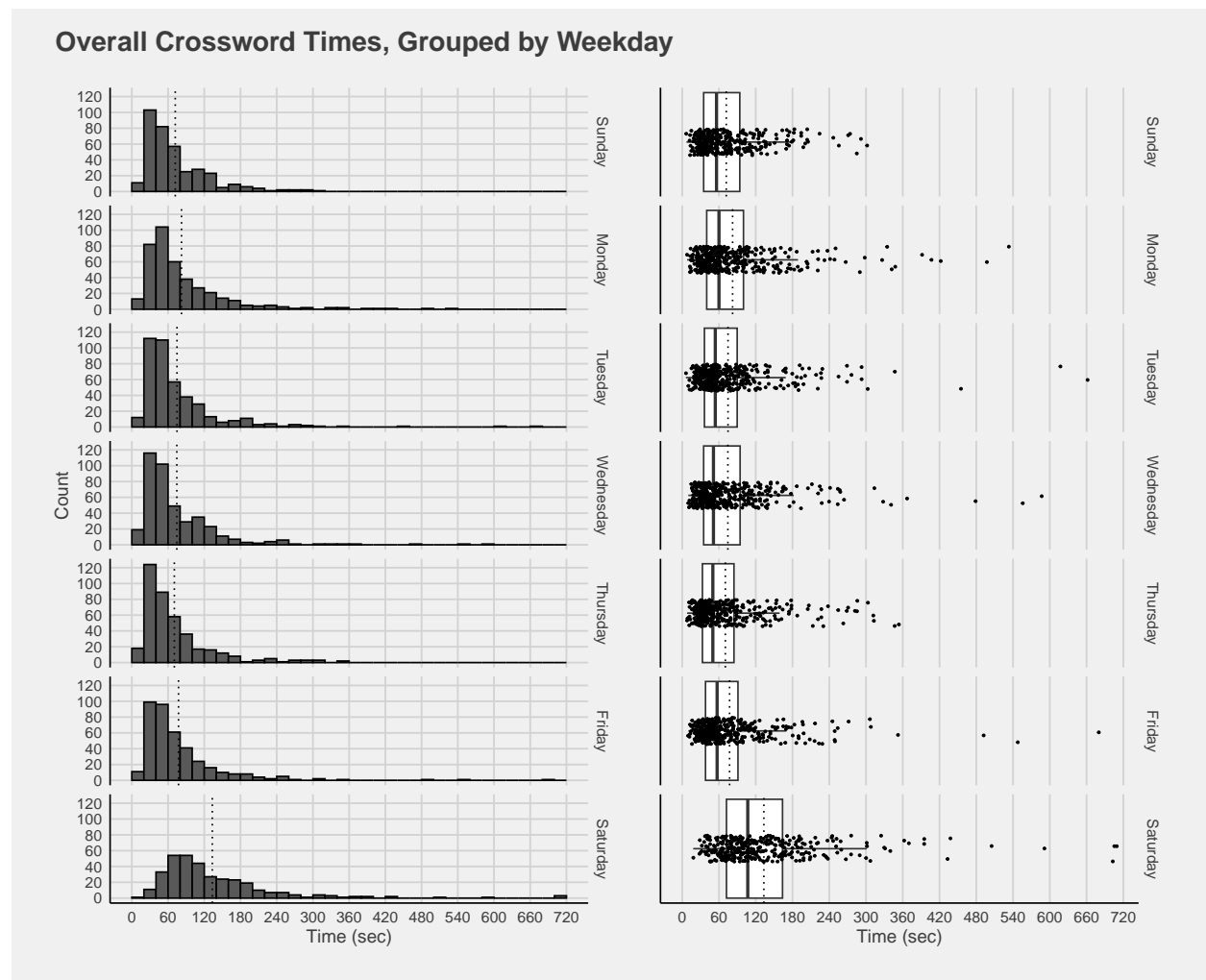


### 7.1.3) Summary Stats for Rank

Name	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
addieavery	1	3	4	4.3	6.0	9
annabeans	1	2	3	3.5	4.5	9
Bahsdaddy	1	2	3	3.0	4.0	9
cnewt	2	7	8	7.9	9.0	11
crossword spank	1	6	7	6.6	8.0	10
elliefich	1	4	5	5.2	6.0	10
grapefruit jones	1	2	3	3.4	5.0	10
jakewal99	1	1	3	2.6	3.0	7
katherine	1	2	4	3.9	5.0	9
liam	1	1	1	2.0	2.0	9
mike dale	1	2	3	3.9	5.0	10
mikemikemike	1	4	5	5.0	6.0	10

## 7.2) Graphs for Each Weekday

### 7.2.1) Distribution of Overall Times per Weekday



## 7.2.2) Distribution of Individual Ranks per Weekday

