

Sylvan Crossword Report - Edition 2

12/8/21 - 2/24/22

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3/2/2022

1) Introduction



Woah! Friends!!

Hey everyone, I'm back! The long-awaited Sylvan Crossword Report Edition 2 is here, and boy do I have more statistical analyses for y'all! I've written some new functions and have nearly 4 times as much data as before, so curl-up on your couch under a blanket with a warm cup of hot cocoa / cold Busch Light, and let's get ready for another 22 pages of graphs.

This installment covers from 12/8/21 - 2/14/21 (79 days), with the first report covering up to 12/28/21. We have a couple new participants joining us in this go-around, so please put your hands together to warmly welcome Addie (addieavery) and Meredith (meredithat), who join Anna (annabbeans), Bahs (Bahsdaddy), Charlie (cnewt), Spank (crossword spank), Ellie (elliefich), Henry (grapefruit jones), Liam (liam), Mike Dale (mike dale), and Barnes (mikemikemike) to bring our total participant count up to a dizzying 11.

As with Edition 1, I have excluded my mom from these analyses, but I promised her I would include her stats briefly in this report. Had she been included, she would have dubbed up 48 times out of 79 days (60.8%). Nerd.

This report was predominately written over spring break in the back of crossword spank's car and in a haunted house in Nashville. So to answer your question, yes, this means I've spent my winter and spring breaks analyzing my friends' New York Times mini crossword scores. Single mike dale is thriving.

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

With all that being said, let's get it rolling!

2) Methodology

In writing this report, I basically used a very similar template as for Edition 1, updating the data and adding some more interesting ways of manipulating and examining the data to draw new insights.

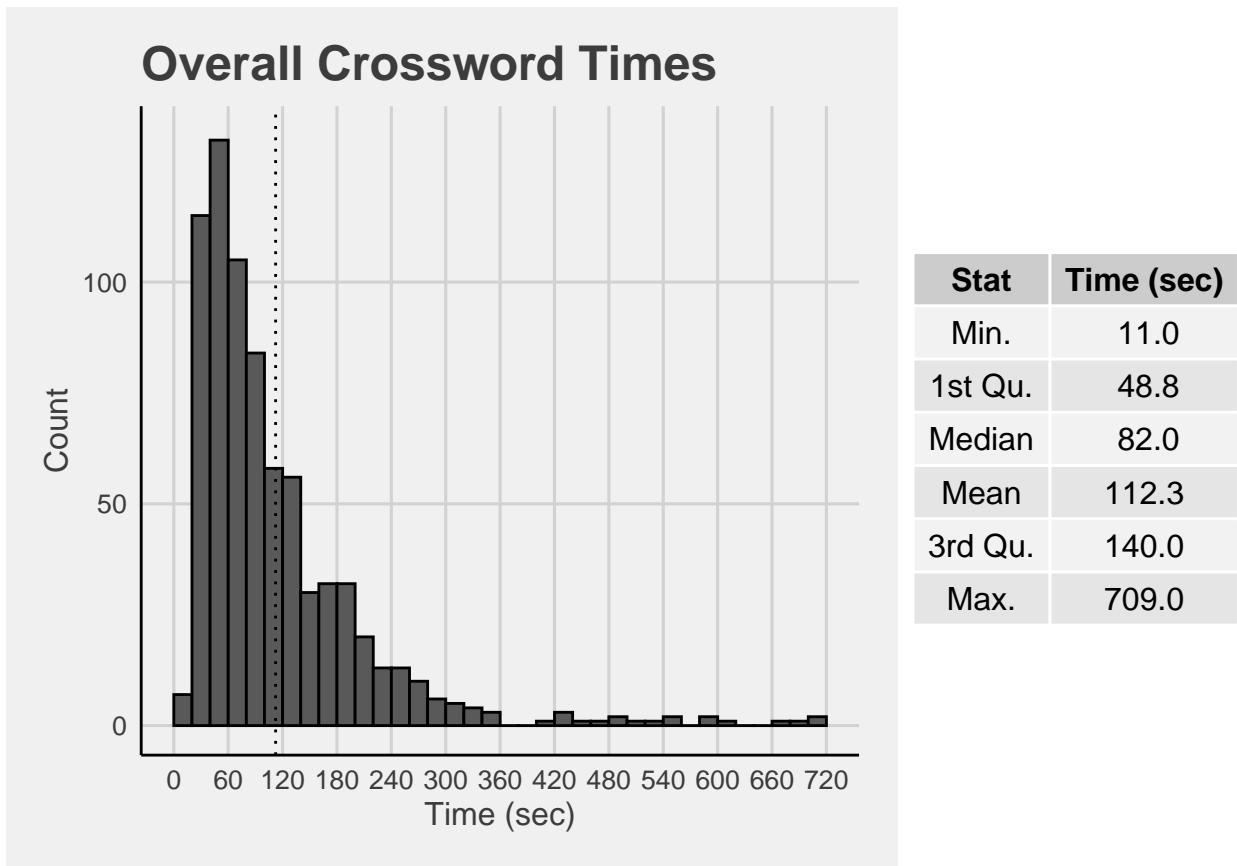
For a discussion of the statistics utilized in these analyses, please refer to Edition 1. I heavily considered making the shift (baseball pun intended) from using z-scores to creating a metric analogous to [+/- stats in conventional sabermetric baseball analyses](#), but z-scores have necessary mathematical properties, particularly with regards to averages, that +/- stats devastatingly do not. That was perhaps the lamest sentence I have ever written in my life good lord.

We do have a small problem with these analyses with regards to the addition of new people and daily rankings. Adding new participants has a couple of consequences, most obviously evidenced by the rankings of 10th or 11th not being available for the first month of data collection, or with being ranked 1st now statistically being more impressive than being ranked 1st before due to the increased number of competitors. I thought about different ways to deal with this, but they all involved degrading the interpretability of the analyses and plots, so I employed the close-my-eyes-and-cover-my-ears approach. If you have any moral quandaries with this decision, I'll have you know that on several occasions I literally would go to bed thinking about different solutions to this problem.

In a similar vein, we also have the massive soul-crushing issue of people completing the crossword less frequently than in the past. I don't really have much to say here except I like data, and in particular clean data, and so the presence of missing values makes me all kinds of sad. With that being said, I think it's weird to ask y'all to do the daily crossword for the sake of my disdain for slightly ugly data, but I wanted to bring this important matter to y'all's attention. Thanks!!

3) Summary

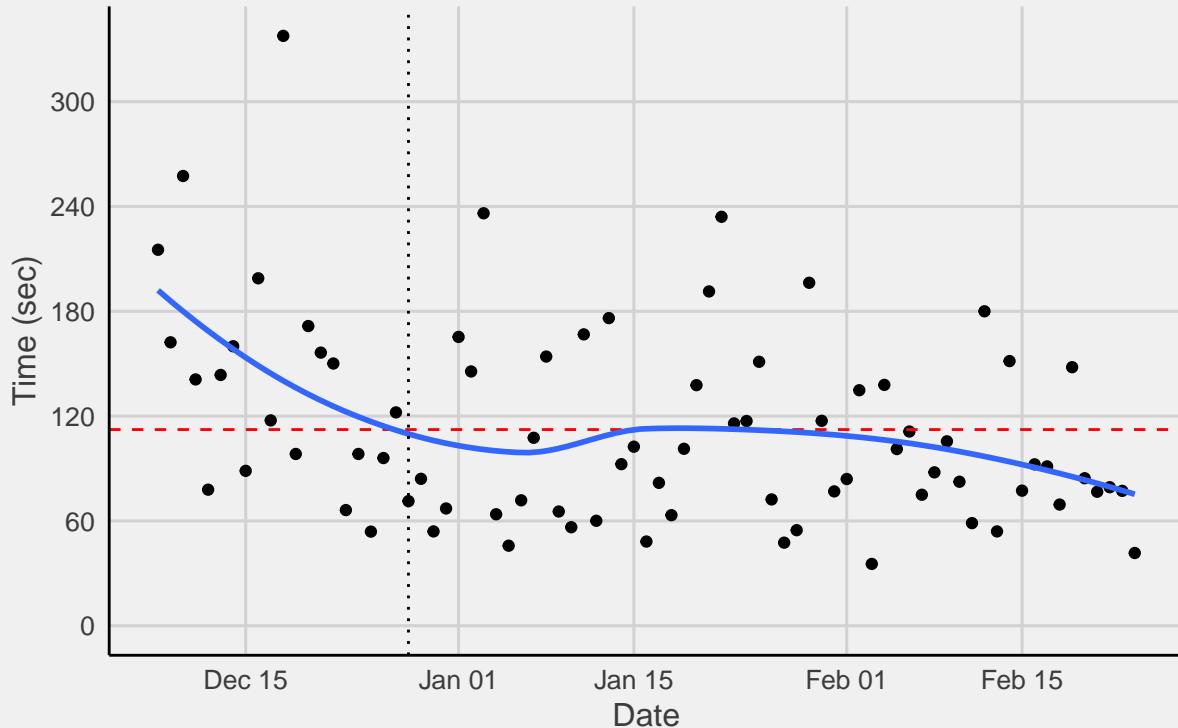
3.1) Overall Trends



Good news! As a unit, crossword times are improving, with the median improving from 94.5 to 82 seconds, the mean dropping from 142.0 to 112.3 seconds, and the lower and upper quartiles dipping from 60.2 to 48.8 seconds and 174.5 to 140 seconds, respectively.

We also have a new record minimum score, with elliefich's previous record of 23 seconds being bested 11 times since 12/28/21. The new record is held by newcomer addieavery, who on 1/5 solved the Wednesday puzzle in just 11 seconds.

Overall Crossword Times by Date

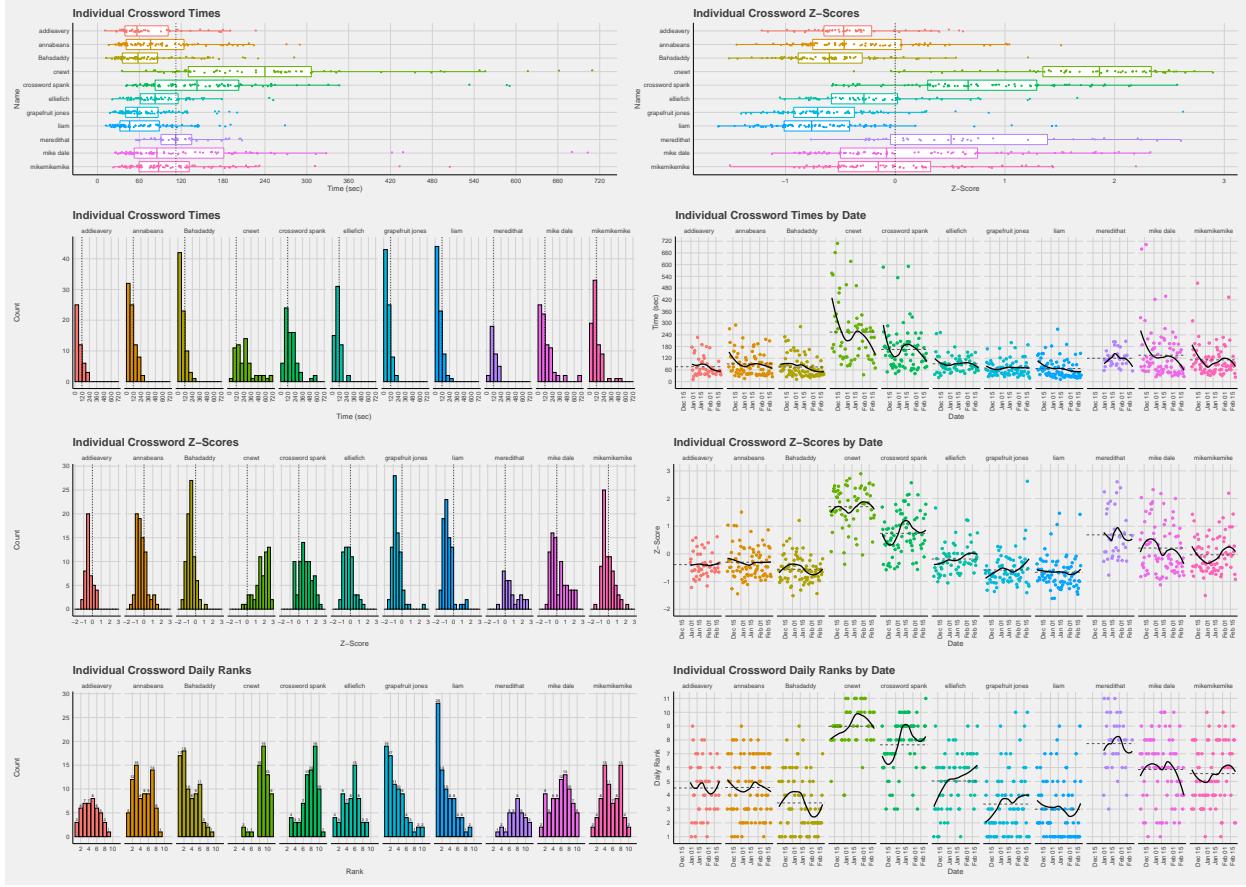


Overall Best Week

Date	Weekday	Time	Week Avg	Time
2021-12-26	Sunday	96.0	95.6	
2021-12-27	Monday	122.1	95.6	
2021-12-28	Tuesday	71.3	95.6	
2021-12-29	Wednesday	84.1	95.6	
2021-12-30	Thursday	54.0	95.6	
2021-12-31	Friday	67.1	95.6	
2022-01-01	Saturday	165.3	95.6	

As a whole, average crossword times improved, continuing the trend shown in the first 3 weeks, although necessarily at a slower pace. We also have a new record overall best week, with the week of 12/26 having an average solve time of 95.6 seconds, surpassing the previous best of 113.5 seconds during the week of 12/19. Note that our average solve time of 54 seconds on 12/30 is tied for 7th for our best overall day, with our performance on 02/03 with an average solve time of 35.4 seconds taking top spot.

3.2) Individuals' Scores



One fresh storyline from these plots is the meteoric rise of liam in the past couple of months, who, after only winning twice in the first 21 days, has since won 26 times over the last 58 days to take the #1 spot from grapefruit jones in the power rankings. Although, liam, grapefruit jones, and Bahsdaddy's boxplots being so similar to one another shows there is space to close the gap at the top.

The good news is everyone's time seem to be trending downwards, so everyone can pat themselves on the back for that!

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
liam	28	14	10	8	8	4	4	1	2	0	0	0	712
Bahsdaddy	17	18	10	8	9	11	3	2	1	0	0	0	676
grapefruit jones	19	17	11	10	9	4	3	1	2	2	0	1	674
annabeans	5	12	15	8	9	9	14	6	1	0	0	0	588
mikemikemike	2	4	8	15	11	7	8	15	4	2	0	3	489
mike dale	2	9	5	8	8	12	13	10	7	5	0	0	485
elliefich	4	3	9	7	8	15	8	3	3	0	0	19	418
addieavery	3	6	7	7	8	6	5	3	1	0	0	33	344
crossword spank	0	0	4	3	3	7	13	14	19	10	1	5	322
cnewt	0	0	0	2	1	1	0	15	19	13	9	19	181
meredithat	0	0	1	2	1	5	5	8	5	4	3	45	145

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. The **N/A** column represents amount of times a person missed a crossword puzzle (starting on 12/08/21), so the biggest of thanks goes to annabeans, Bahsdaddy, and liam for not having missed a single day yet.

3.3) Improvements in Most Recent Period

This section will explore performance before (inclusive) and after 12/28/21, which is the final date in which data was included for Edition 1.

Change in Average Time

Name	Avg Time Pre-12/28	Avg Time Post-12/28	Change In Time
addieavery		76.7	
annabeans	111.7	83.2	-28.4
Bahsdaddy	96.3	67.6	-28.8
cnewt	328.2	217.0	-111.3
crossword spank	175.8	160.6	-15.2
elliefich	94.4	90.1	-4.3
grapefruit jones	62.0	72.1	10.1
liam	86.9	60.1	-26.8
meredithat		119.9	
mike dale	185.4	117.4	-68.0
mikemikemike	141.7	100.2	-41.5

The biggest improvement in times goes to cnewt, with an average 111-second improvement in this second period.

Change in Average Z-Score

Name	Avg Z-Score Pre-12/28	Avg Z-Score Post-12/28	Change In Z-Score
addieavery		-0.39	
annabeans	-0.26	-0.32	-0.06
Bahsdaddy	-0.45	-0.59	-0.14
cnewt	1.79	1.66	-0.13
crossword spank	0.40	0.88	0.48
elliefich	-0.36	-0.11	0.25
grapefruit jones	-0.86	-0.48	0.39
liam	-0.59	-0.69	-0.11
meredithat		0.69	
mike dale	0.39	0.15	-0.24
mikemikemike	-0.01	-0.04	-0.04

mike dale holds the biggest improvement in z-scores, with an average of a 0.24 improvement per puzzle.

Change in Average Rank

Name	Avg Rank Pre-12/28	Avg Rank Post-12/28	Change In Rank
addieavery		4.5	
annabeans	4.6	4.5	-0.1
Bahsdaddy	3.9	3.3	-0.6
cnewt	8.6	9.2	0.6
crossword spank	6.3	8.2	1.8
elliefich	4.1	5.5	1.4
grapefruit jones	2.0	3.9	1.9
liam	3.4	2.8	-0.5
meredithat		7.7	
mike dale	6.0	5.8	-0.3
mikemikemike	5.3	5.7	0.4

In terms of rank, Bahsdaddy showed the biggest average movement up the standings, with an average improvement per day of 0.6.

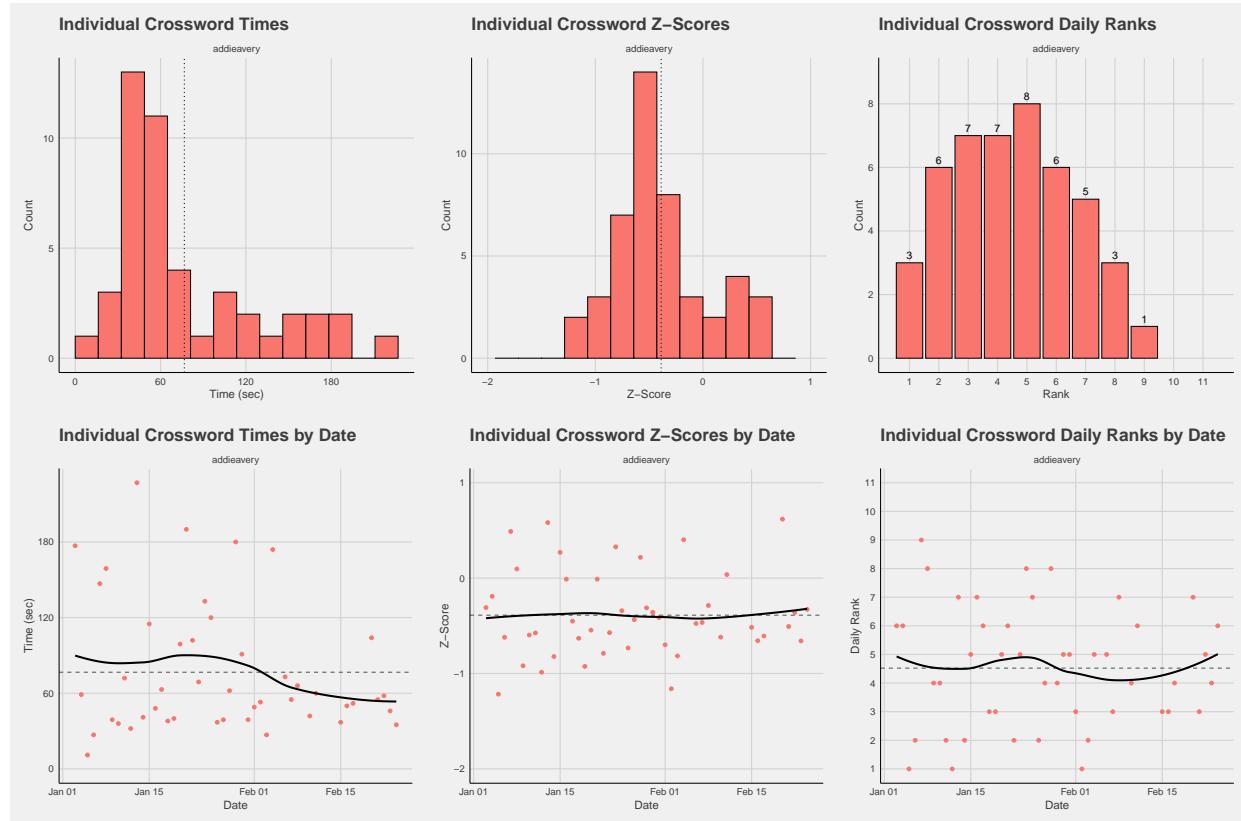
Note that the **Change In Rank** column is somewhat misleading due to the previously discussed addition of new people, meaning people's ranks will on average naturally drift upwards. With that being said, if you have a negative **Change In Rank**, that is extra impressive!

4) Profiles

As with Edition 1, out of the goodness of my heart, I have made everyone their own page with their own statistics and graphs. I hope these inspire you to hit the lab and continue to improve your crossword times, if nothing else for the sake of impressing me.

Note that in all the plots in this section, the dotted and dashed lines represent the person's personal average.

4.1) addieavery



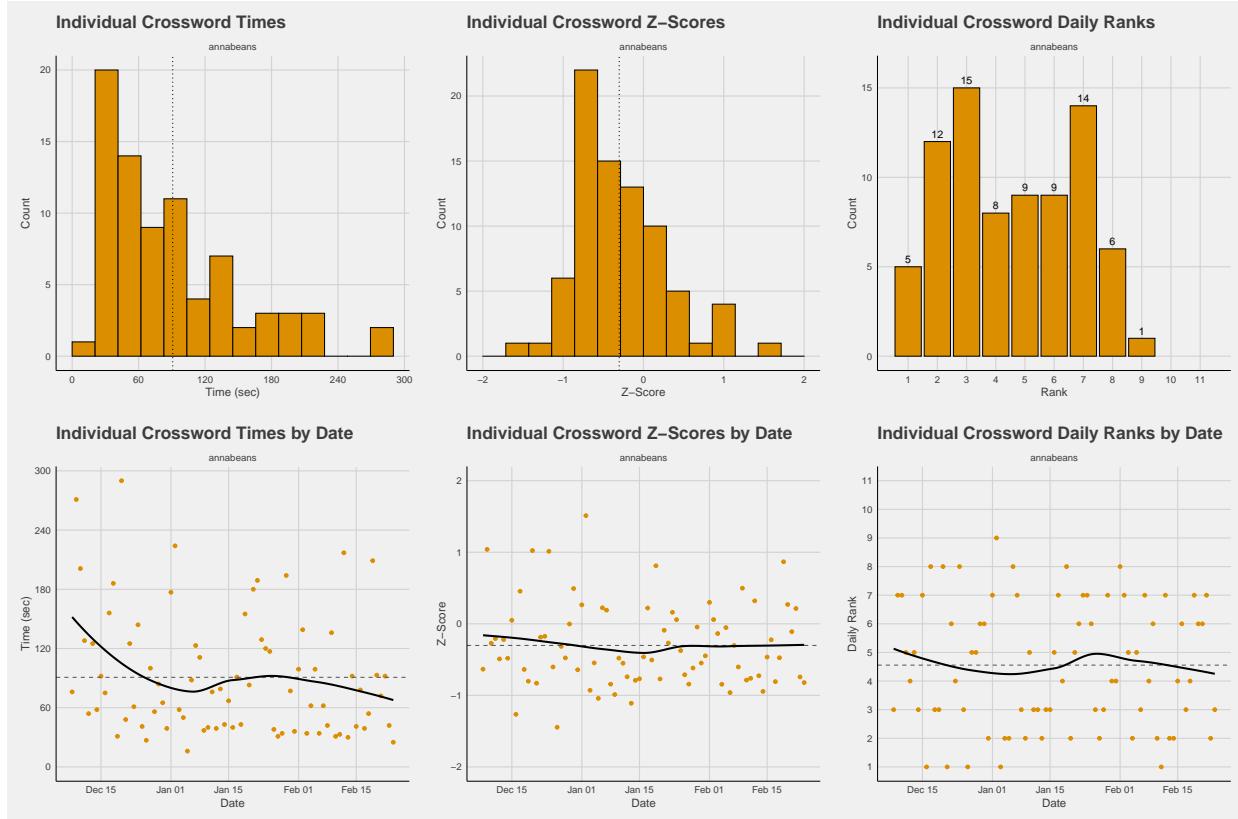
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	11.00	39.25	56.50	76.70	73.17	101.25	227.00
Z-Score	-1.22	-0.65	-0.47	-0.39	-0.40	-0.21	0.62
Rank	1.00	3.00	4.50	4.52		6.00	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-01-16	Sunday	48	82.86	-0.01	-0.48	7	4.57
2022-01-17	Monday	63	82.86	-0.45	-0.48	6	4.57
2022-01-18	Tuesday	38	82.86	-0.63	-0.48	3	4.57
2022-01-19	Wednesday	40	82.86	-0.93	-0.48	3	4.57
2022-01-20	Thursday	99	82.86	-0.55	-0.48	5	4.57
2022-01-21	Friday	190	82.86	-0.01	-0.48	6	4.57
2022-01-22	Saturday	102	82.86	-0.79	-0.48	2	4.57

addieavery enters the competition as a formidable threat, on average falling well below the average time with a mean z-score of -0.39 and an average rank of 4.5.

Highlights include 3 first-place finishes and 16 top-3 finishes in just 46 solves, solving below the average solve time on 37 (80.4%) days, the t-4th longest streak for the most consecutive sub-minute solve times, accomplishing the feat in 4 straight days on two separate occasions (1/31-2/3 and 2/21-2/24), and the quickest solve with her 11-second solve on 1/5, on just her third day in the competition.

4.2) annabeans



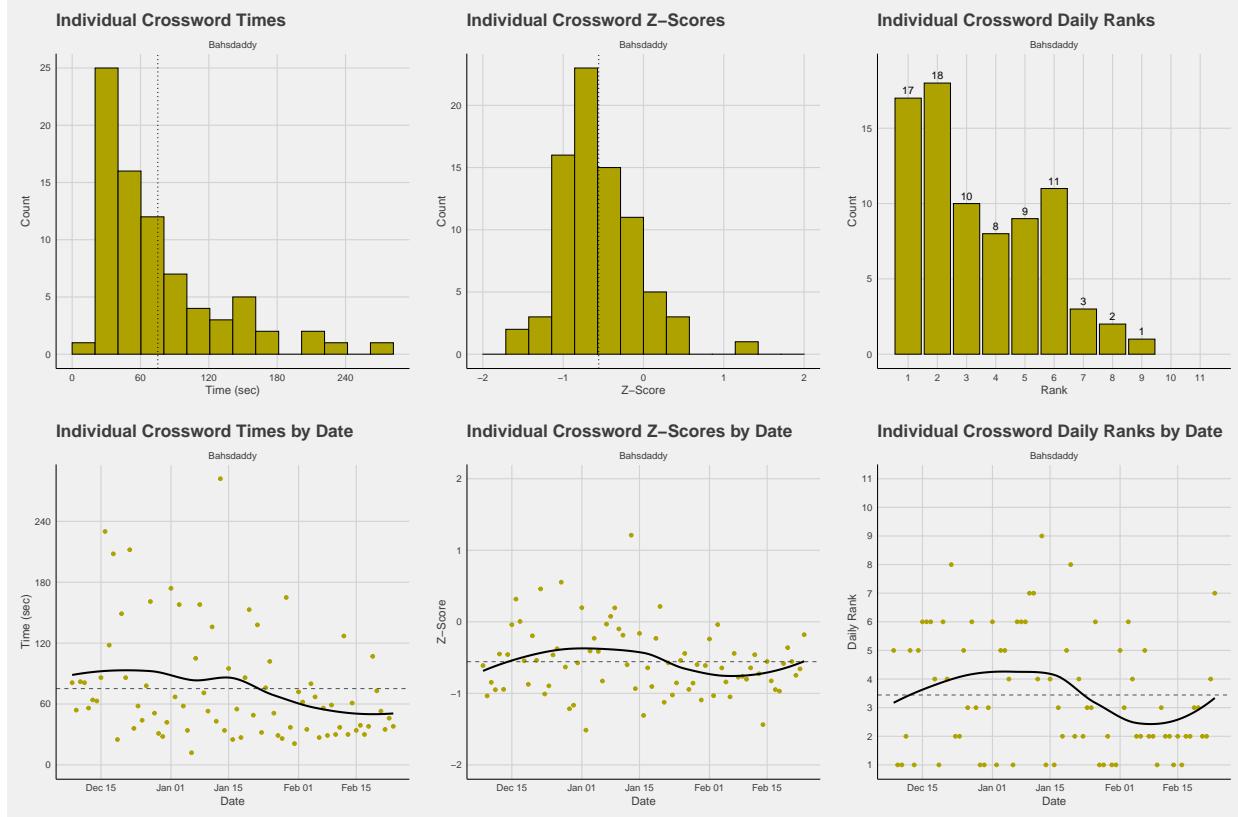
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	16.00	41.00	76.00	90.80	86.58	124.00	290.00
Z-Score	-1.45	-0.75	-0.46	-0.30	-0.32	0.05	1.51
Rank	1.00	3.00	4.00	4.56		7.00	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-01-09	Sunday	37	54.43	-0.99	-0.78	2	3
2022-01-10	Monday	40	54.43	-0.48	-0.78	5	3
2022-01-11	Tuesday	76	54.43	-0.55	-0.78	3	3
2022-01-12	Wednesday	39	54.43	-0.74	-0.78	3	3
2022-01-13	Thursday	79	54.43	-1.11	-0.78	2	3
2022-01-14	Friday	43	54.43	-0.79	-0.78	3	3
2022-01-15	Saturday	67	54.43	-0.77	-0.78	3	3

annabeans comes in with easily one of the coolest distributions of the bunch, with her ranks being strongly bimodal, peaking both at 3rd- and 7th-place, averaging out at 4.56th place.

Highlights include 5 1st-place and 32 top-3 finishes (4th-most for both), the most 3rd-place finishes with 15, the 6th-lowest z-score on a single puzzle with her 27-second solve on 12/26, the 10th-longest streak of consecutive solves below the average solve time, doing so on 9 straight days from 1/7-1/15, and the 4th-fastest time with her 16-second solve on 1/5.

4.3) Bahsdaddy



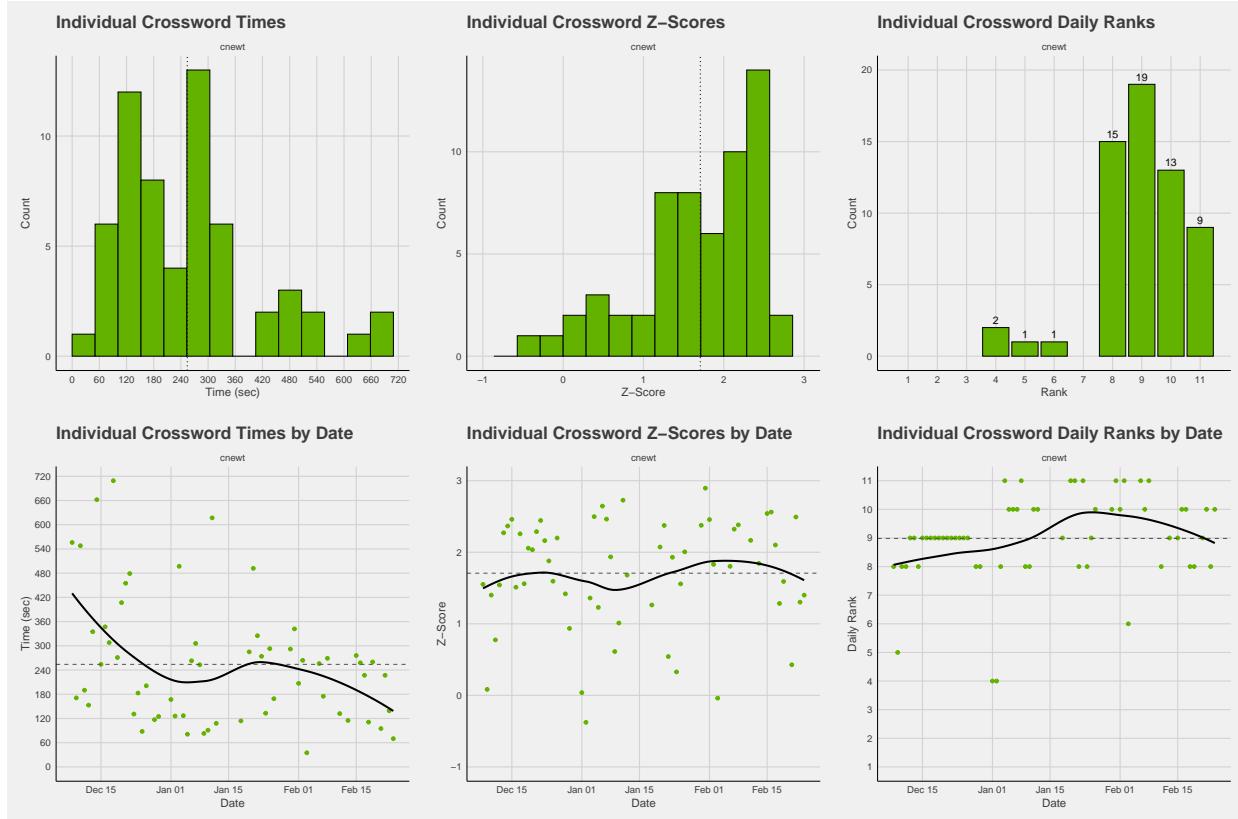
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	12.00	35.50	58.0	75.20	70.67	86.0	282.00
Z-Score	-1.51	-0.88	-0.6	-0.56	-0.57	-0.3	1.21
Rank	1.00	2.00	3.0	3.44		5.0	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-02-13	Sunday	30	48.43	-0.73	-0.86	2	1.86
2022-02-14	Monday	61	48.43	-1.44	-0.86	1	1.86
2022-02-15	Tuesday	34	48.43	-0.55	-0.86	2	1.86
2022-02-16	Wednesday	39	48.43	-0.83	-0.86	1	1.86
2022-02-17	Thursday	30	48.43	-0.95	-0.86	2	1.86
2022-02-18	Friday	38	48.43	-0.97	-0.86	2	1.86
2022-02-19	Saturday	107	48.43	-0.58	-0.86	3	1.86

Bahsdaddy has cemented himself in the upper-tier of crossworders, bringing his average rank down to just 3.44 with an average z-score of -0.56.

Highlights include 17 1st-place finishes (3rd-most), 18 2nd-place finishes (most), 45 top-3 finishes (3rd-most), the 2nd-best week with his average -0.86 z-score the week of 2/13, the third-fastest solve time by z-score with his 67-second solve time on 1/2, the t-2nd fastest solve time with his 12-second solve on 1/6, the 2nd-longest streak of finishing below the mean solve time with his 35-day streak from 1/21-2/24, and the 2nd-longest streak of finishing in the top-3 with his 15-day streak from 2/8-2/22.

4.4) cnewt



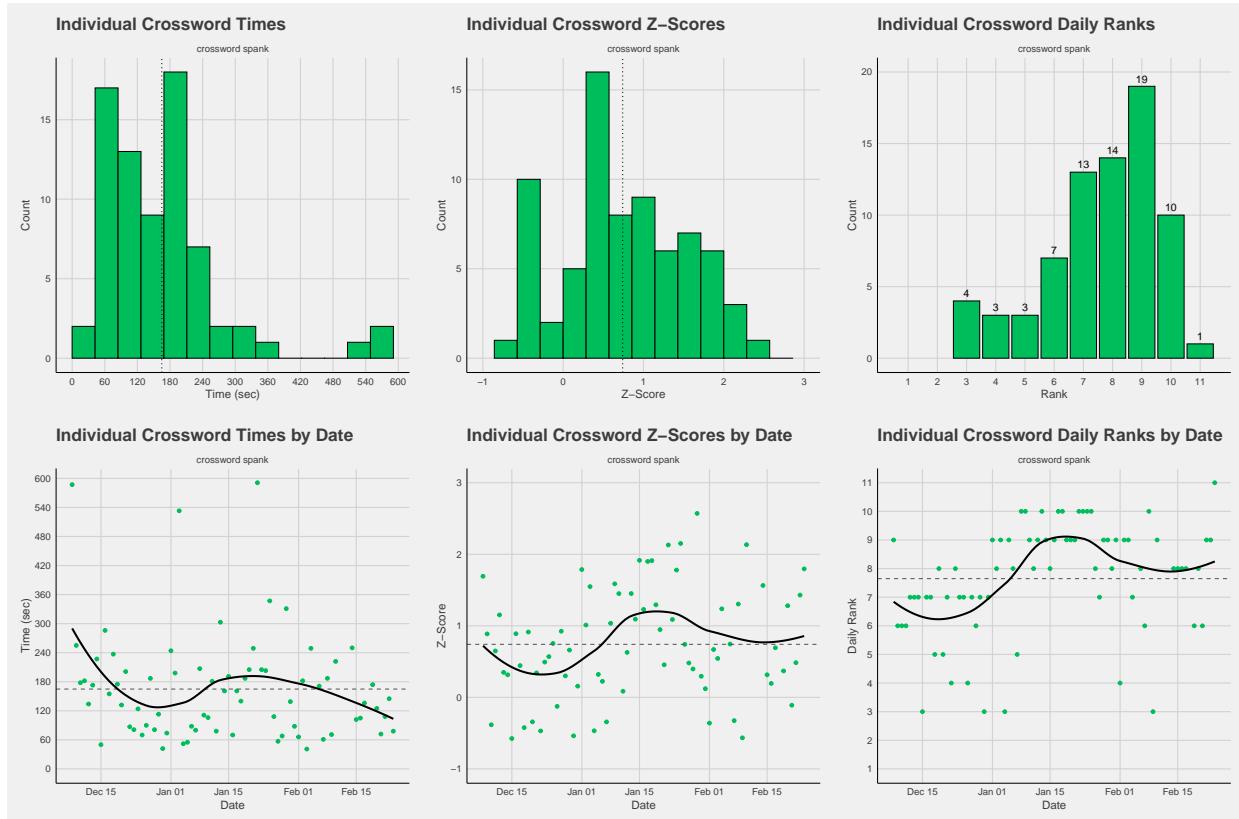
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	35.00	130.00	240.00	254.07	242.04	306.50	709.0
Z-Score	-0.38	1.35	1.86	1.71	1.75	2.33	2.9
Rank	4.00	8.00	9.00	8.98		10.00	11.0

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-01-02	Sunday	126	236.14	-0.38	1.68	4	9.14
2022-01-03	Monday	497	236.14	1.36	1.68	8	9.14
2022-01-04	Tuesday	127	236.14	2.50	1.68	11	9.14
2022-01-05	Wednesday	81	236.14	1.23	1.68	10	9.14
2022-01-06	Thursday	263	236.14	2.65	1.68	10	9.14
2022-01-07	Friday	306	236.14	2.46	1.68	10	9.14
2022-01-08	Saturday	253	236.14	1.94	1.68	11	9.14

cnewt continues to have a median ranking of 9, although his times have been clearly improving over the past month.

Highlights include finishing 4th twice, doing so on back-to-back days on 1/1 and 1/2, a sub-minute finish with his 35-second solve on 2/3, and a 111-second average solve time improvement in this second period, by far the most of anyone.

4.5) crossword spank



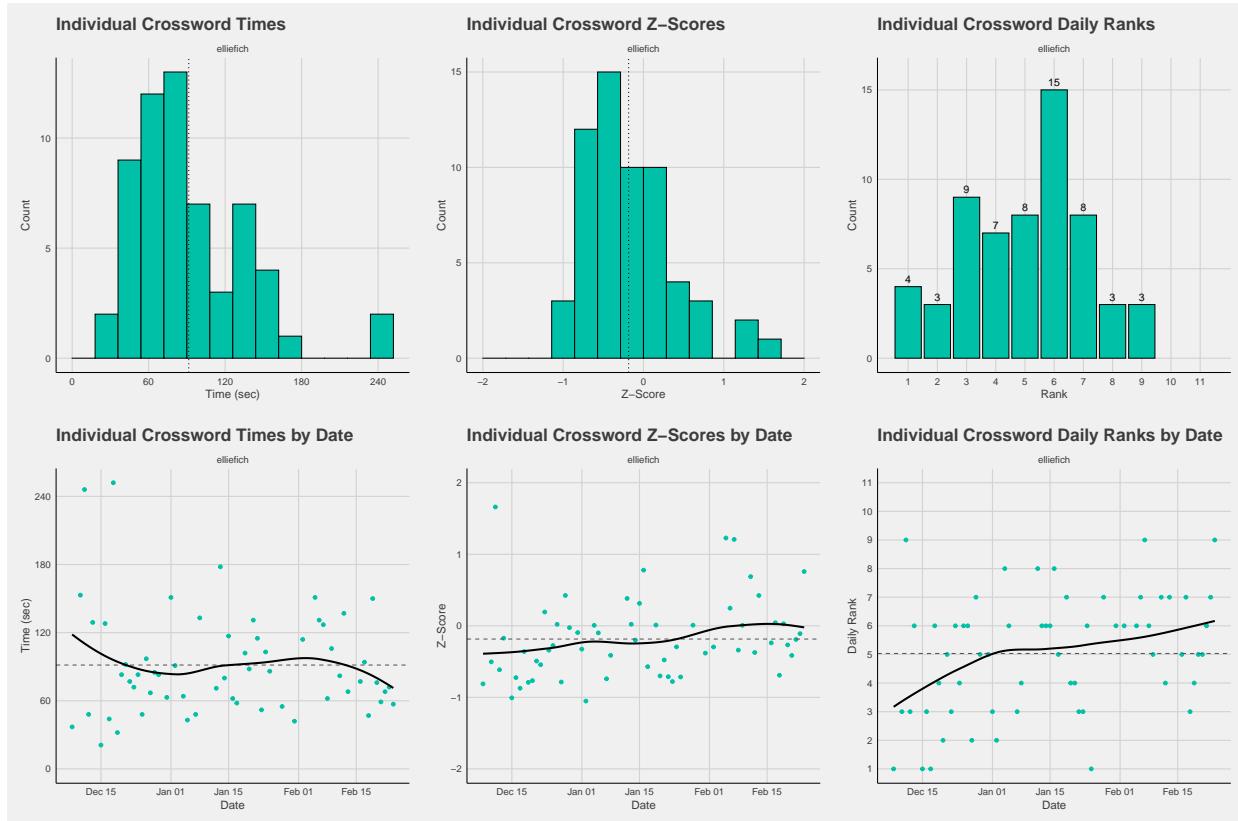
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	41.00	82.5	142.50	164.91	152.34	202.50	591.00
Z-Score	-0.58	0.3	0.66	0.74	0.73	1.29	2.57
Rank	3.00	7.0	8.00	7.65		9.00	11.00

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

crossword spank is resting with an average rank of 7.65 and an average z-score of 0.74.

Highlights include 4 top-3 finishes (all 3rd-place), the most consecutive days finishing in 7th-place with his 3-day streak from 12/12-12/14, the most consecutive days finishing in 8th-place with his 4-day streak from 2/14-2/17, and the highest z-score on a solve with his 5:31 solve on 1/29.

4.6) elliefich



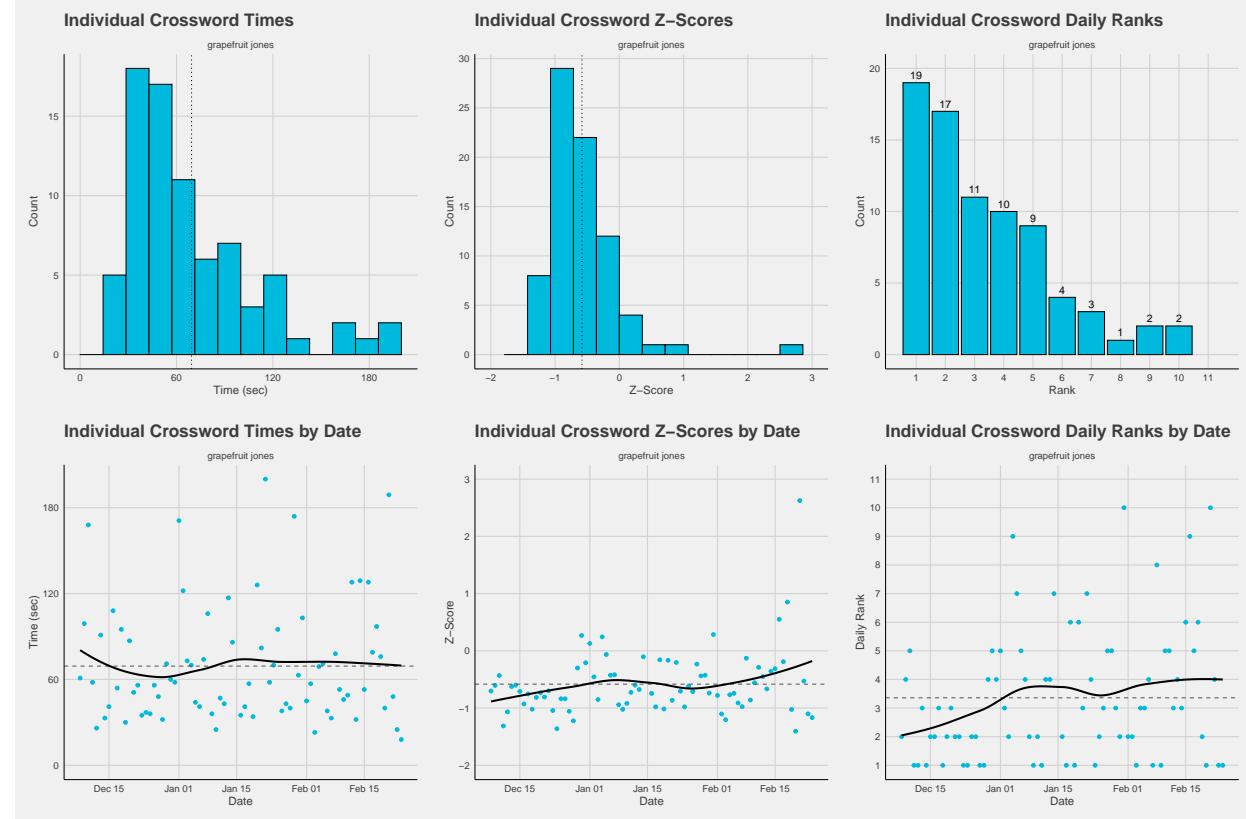
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	21.00	61.25	82.50	91.47	87.44	115.50	252.00
Z-Score	-1.05	-0.58	-0.28	-0.18	-0.23	0.02	1.66
Rank	1.00	3.00	5.00	5.03		6.00	9.00

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

elliefich average solve time falls just below the average, with an average z-score of -0.18 and a mean rank at 5.03.

Highlights include the t-9th quickest solve time with her 21-second solve on 12/15, the 4th-fastest solve on a puzzle larger than 5x5 with her 37-second solve on 12/8, and the 5th-highest percentage of sub 90-second finishes, doing so on 60% of her solves.

4.7) grapefruit jones



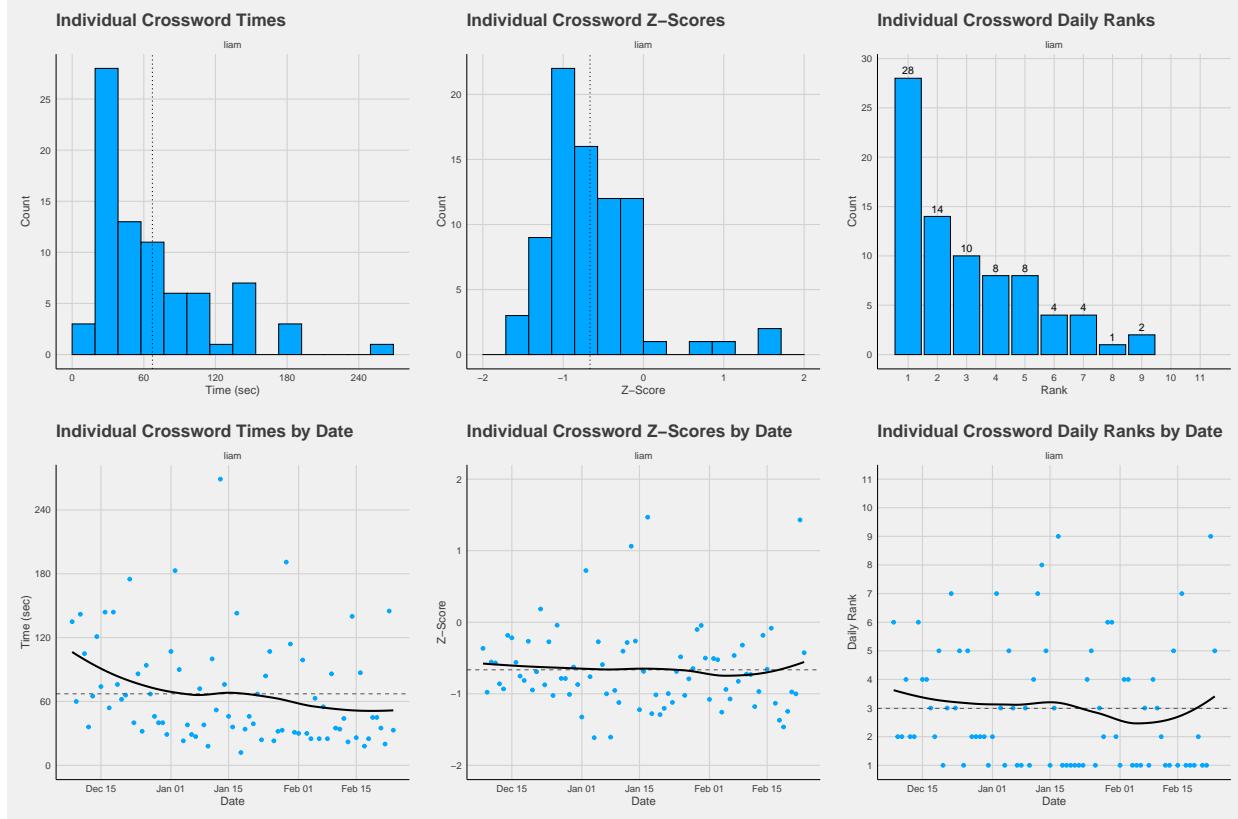
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	18.0	40.25	57.00	69.35	66.39	86.75	200.00
Z-Score	-1.4	-0.93	-0.71	-0.58	-0.63	-0.37	2.62
Rank	1.0	2.00	3.00	3.36		5.00	10.00

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

After obliterating the field in the first period, grapefruit jones remains near the top of the overall standings, with an average rank of 3.36 and an average z-score of -0.58.

Highlights include the longest streak of finishing in the top-3 with his 18-day streak from 12/11-12/28, the longest streak of sub-minute solves with his 8-day streak from 12/20-12/27, the best week with his average -0.9 z-score the week of 12/19, the 2nd-most wins with 19, the 2nd-most runner-ups with 17, 2nd-most top-3 finishes with 47, the 2nd-most sub-minute solves with 44, the 2nd-most solves below the mean with 71, the 2nd-most solves below a -1 z-score with 15, the 3rd-fastest solve time on a puzzle larger than 5x5 with his 36-second solve on Christmas, and the t-5th quickest overall solve time with his 18-second solve on 12/24.

4.8) liam



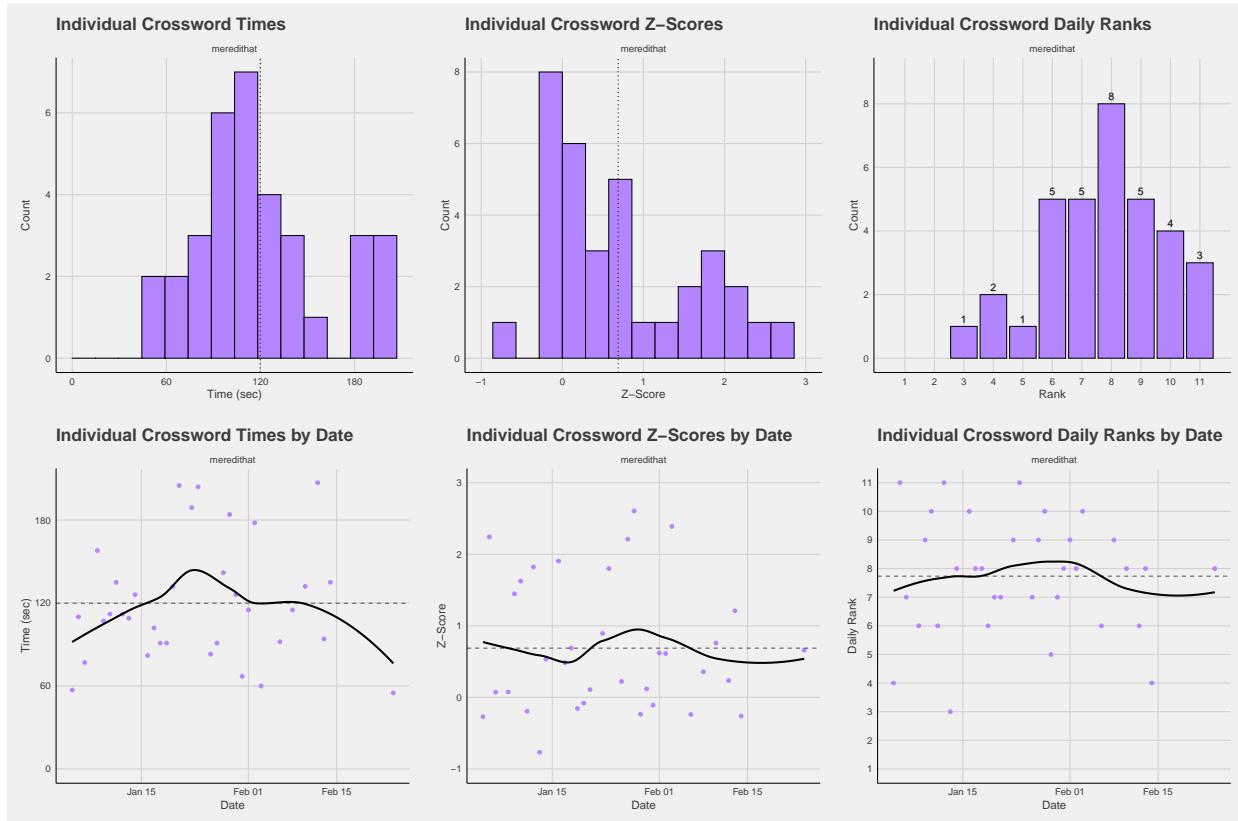
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	12.00	32.00	46.00	67.20	63.26	88.50	269.00
Z-Score	-1.61	-1.01	-0.76	-0.67	-0.71	-0.42	1.47
Rank	1.00	1.00	2.00	2.99		4.00	9.00

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-02-13	Sunday	22	51.86	-0.97	-0.84	1	2.43
2022-02-14	Monday	140	51.86	-0.18	-0.84	5	2.43
2022-02-15	Tuesday	26	51.86	-0.66	-0.84	1	2.43
2022-02-16	Wednesday	87	51.86	-0.08	-0.84	7	2.43
2022-02-17	Thursday	18	51.86	-1.13	-0.84	1	2.43
2022-02-18	Friday	25	51.86	-1.37	-0.84	1	2.43
2022-02-19	Saturday	45	51.86	-1.46	-0.84	1	2.43

liam has cemented his place as the undisputed #1 crossworder thus far, with a median rank of 2 and an average z-score of -0.67.

Highlights include the most wins with 28, the most top-3 finishes with 52, the most sub 30, 45, and 60 second solves with 18, 38, and 45, respectively, the most sub 0 and -1 z-scores with 74 and 23, respectively, t-2nd quickest solve with his 12-second solve on 1/18 and 4 of the top 10 quickest solves, the top 2 solves by z-score with his 23-second solve on 1/4 and 72-second solve on 1/8, 7 of the top 10 solves by z-score on puzzles larger than 5x5, the longest streak of consecutive wins with his 6-day streak from 1/18-1/23, and the longest sub 0 z-score solve streak with 36 from 1/18-2/22.

4.9) meredithat

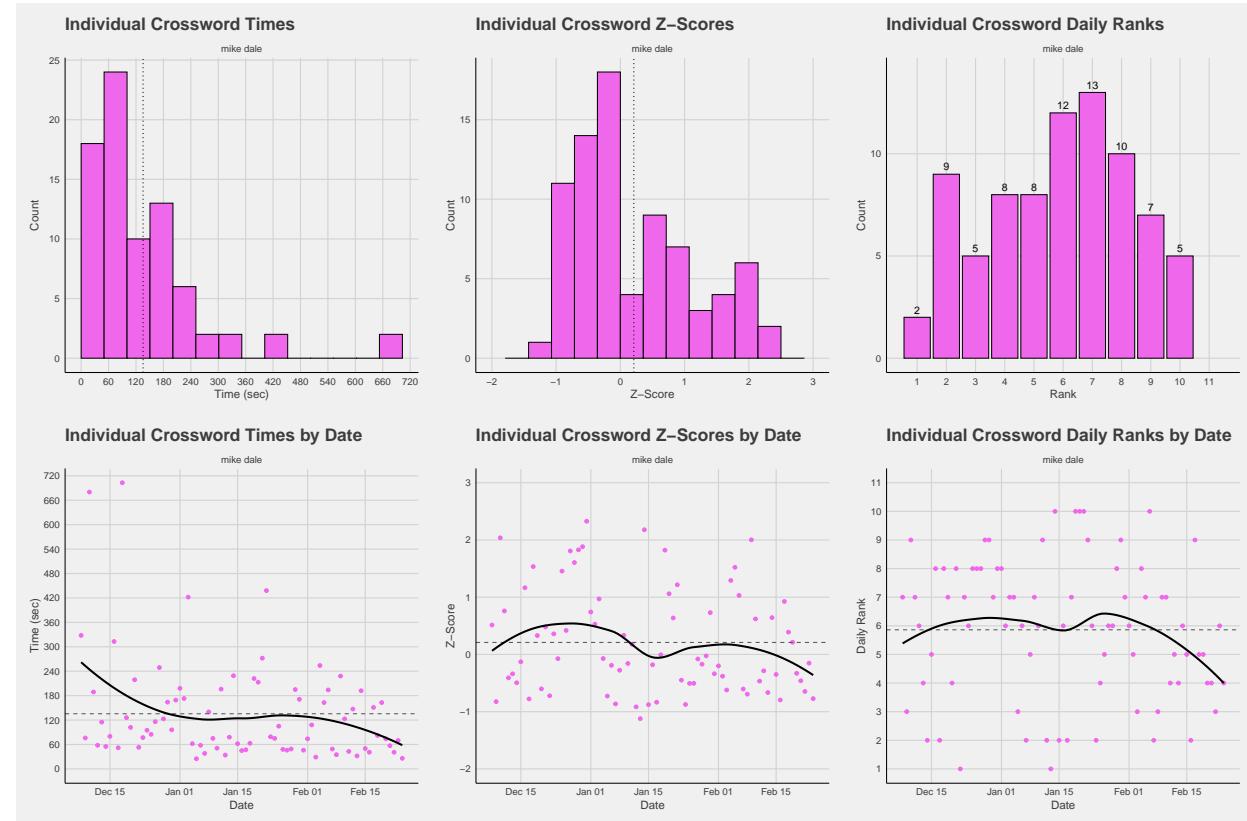


Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	55.00	91.00	112.00	119.85	119.16	135.00	207.00
Z-Score	-0.77	-0.04	0.51	0.69	0.67	1.39	2.61
Rank	3.00	6.25	8.00	7.74	9.00	11.00	

meredithat is resting with an average rank of 7.74 and an average z-score of 0.69.

Highlights include cracking the top-3 on 1/13 and finishing 26.5% of puzzles below the average solve time, as well as rescuing the house on the Michigan-Ohio border at a particularly low moment in our lives, for which we will be forever indebted.

4.10) mike dale



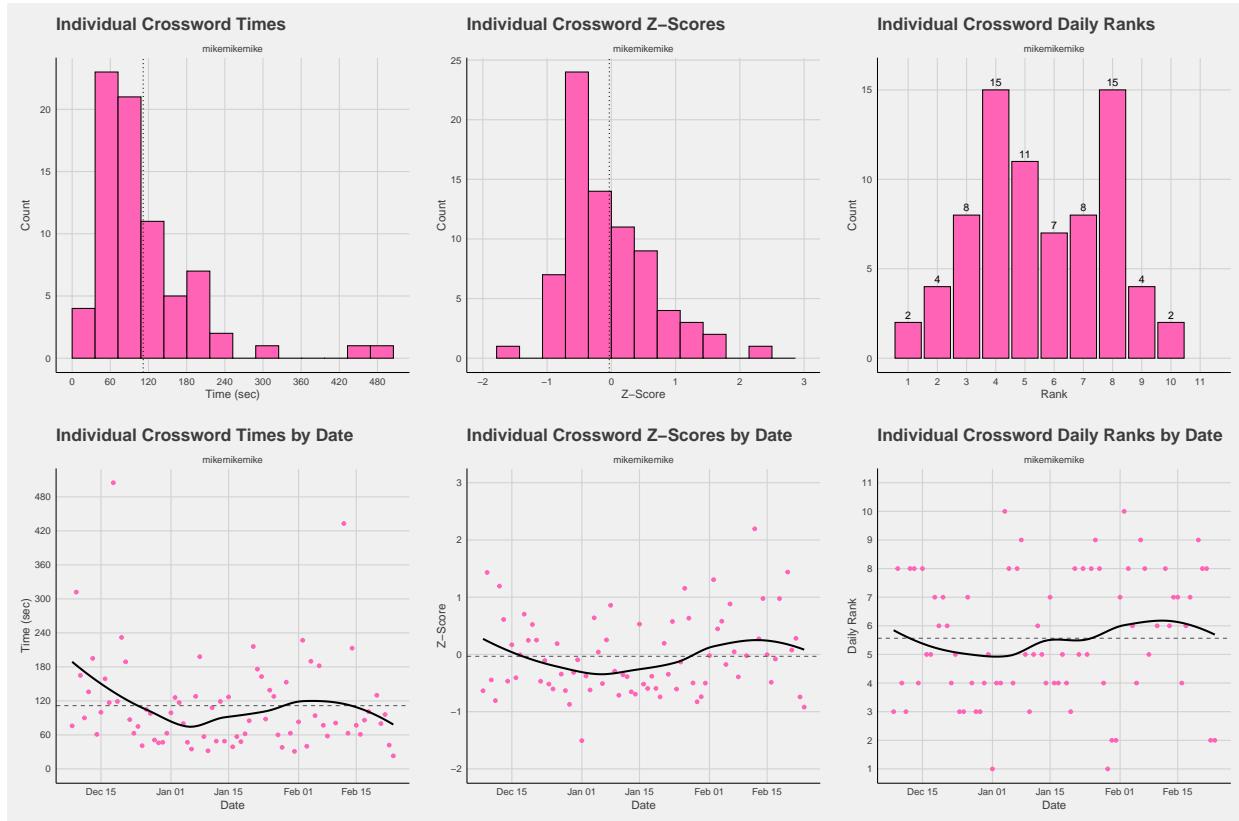
Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	25.00	52.5	85.00	135.49	120.59	181.00	703.00
Z-Score	-1.12	-0.5	-0.08	0.21	0.18	0.75	2.33
Rank	1.00	4.0	6.00	5.86	8.00	10.00	

Date	Weekday	Time	Week Avg Time	Z-Score	Week Avg Z-Score	Rank	Week Avg Rank
2022-01-23	Sunday	79	85.29	-0.45	-0.37	6	5.29
2022-01-24	Monday	75	85.29	-0.87	-0.37	2	5.29
2022-01-25	Tuesday	105	85.29	-0.51	-0.37	4	5.29
2022-01-26	Wednesday	48	85.29	-0.50	-0.37	5	5.29
2022-01-27	Thursday	46	85.29	-0.08	-0.37	6	5.29
2022-01-28	Friday	49	85.29	-0.17	-0.37	6	5.29
2022-01-29	Saturday	195	85.29	-0.03	-0.37	8	5.29

Though not quite as pronounced, mike dale joins annabean and mikemikemike with having a cool distribution, having a weird local peak at 2nd-place and having by far the largest difference between his median and mean solve times and median and mean z-scores.

Highlights include winning twice on 12/22 and 1/13, the t-5th most sub 90-second finishes with 40, the 2nd-longest streak of finishing 8th with a 3-day streak 12/25-12/27, the t-2nd longest streak of finishing 10th with a 3-day streak 1/19-1/31, and the worst solve time on a 5x5 puzzle with his 11:20 solve of the 12/10 puzzle.

4.11) mikemikemike



Metric	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
Time	23.00	59.50	87.50	111.66	102.14	131.50	505.00
Z-Score	-1.51	-0.52	-0.15	-0.03	-0.06	0.32	2.19
Rank	1.00	4.00	5.00	5.57	8.00	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

Like annabeans, mikemikemike also has an awesome distribution distribution of ranks, with 2 clear modes at 4th- and 8th-place, resulting in an average rank of 5.57 and average z-score just below the mean of -0.03.

Highlights include the most 4th-place finishes with 15, the t-6th best solve on a puzzle larger than 5x5 with his 41-second Christmas solve, and winning twice, once on New Year's Day, in which his 99-second solve was the 4th-best solve by z-score and the 2nd-best solve on a puzzle larger than 5x5, and on 1/29, which was the largest puzzle to date at 8x8.

5) Declarations of Funding and Competing Interests

No one paid me to do this, but I'd like to make myself very clear that I am bribeable. Feel free to reach out for more info.

6) Acknowledgements

I continue to dedicate this important research to my wonderful, supportive friends.

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	39.2	56.5	76.7	73.2	101.2	227
annabeans	16	41.0	76.0	90.8	86.6	124.0	290
Bahsdaddy	12	35.5	58.0	75.2	70.7	86.0	282
cnewt	35	130.0	240.0	254.1	242.0	306.5	709
crossword spank	41	82.5	142.5	164.9	152.3	202.5	591
elliefich	21	61.2	82.5	91.5	87.4	115.5	252
grapefruit jones	18	40.2	57.0	69.3	66.4	86.8	200
liam	12	32.0	46.0	67.2	63.3	88.5	269
meredithat	55	91.0	112.0	119.9	119.2	135.0	207
mike dale	25	52.5	85.0	135.5	120.6	181.0	703
mikemikemike	23	59.5	87.5	111.7	102.1	131.5	505

7.1.2) Summary Stats for Z-Score

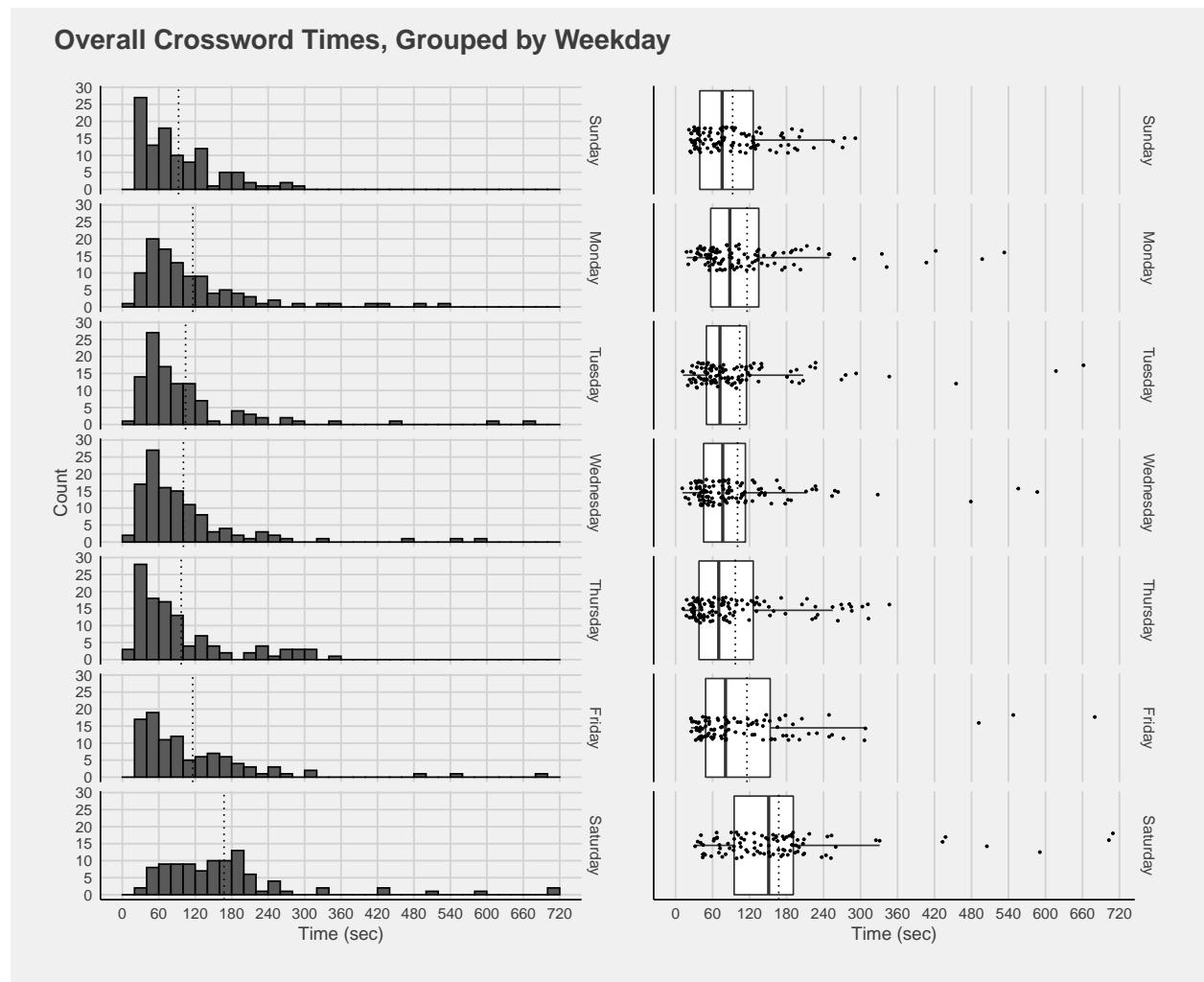
Name	Min.	1st Qu.	Median	Mean	Trimmed Mean	3rd Qu.	Max.
addieavery	-1.22	-0.65	-0.47	-0.39	-0.40	-0.21	0.62
annabeans	-1.45	-0.75	-0.46	-0.30	-0.32	0.05	1.51
Bahsdaddy	-1.51	-0.88	-0.60	-0.56	-0.57	-0.30	1.21
cnewt	-0.38	1.35	1.86	1.71	1.75	2.33	2.90
crossword spank	-0.58	0.30	0.66	0.74	0.73	1.29	2.57
elliefich	-1.05	-0.58	-0.28	-0.18	-0.23	0.02	1.66
grapefruit jones	-1.40	-0.93	-0.71	-0.58	-0.63	-0.37	2.62
liam	-1.61	-1.01	-0.76	-0.67	-0.71	-0.42	1.47
meredithat	-0.77	-0.04	0.51	0.69	0.67	1.39	2.61
mike dale	-1.12	-0.50	-0.08	0.21	0.18	0.75	2.33
mikemikemike	-1.51	-0.52	-0.15	-0.03	-0.06	0.32	2.19

7.1.3) Summary Stats for Rank

Name	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
addieavery	1	3.0	4.5	4.5	6	9
annabeans	1	3.0	4.0	4.6	7	9
Bahsdaddy	1	2.0	3.0	3.4	5	9
cnewt	4	8.0	9.0	9.0	10	11
crossword spank	3	7.0	8.0	7.6	9	11
elliefich	1	3.0	5.0	5.0	6	9
grapefruit jones	1	2.0	3.0	3.4	5	10
liam	1	1.0	2.0	3.0	4	9
meredithat	3	6.2	8.0	7.7	9	11
mike dale	1	4.0	6.0	5.9	8	10
mikemikemike	1	4.0	5.0	5.6	8	10

7.2) Graphs for Each Weekday

7.2.1) Distribution of Overall Times



7.2.2) Distribution of Individual Ranks

