

Misc.

M. O.

Oct. 2025

1 Wednesday, October 1, 2025

Spent the morning at a family restaurant, reading a textbook on category theory and Kojin Karatani's "Power and Modes of Exchange."

As noon approached, ordered lunch there as well.

Feeling that life is quite graceful these days.

Handed my wife her monthly allowance, though our household finances remain tight despite the morning's serenity.

For my side project on new graduate analysis, built a system that runs on AWS Lambda, but without refactoring it, things are getting rather messy.

Was deeply moved by a passage in Mac Lane's category theory textbook, which explained how commutative diagrams can unify the understanding of groups, topological groups, and Lie groups.

It's a blessing to be able to feel moved by both the beauty of physics and that of mathematics.

2 Thursday, October 2, 2025

Had planned to eat Kenyan food with a friend for lunch, but the restaurant was closed.

Instead, went to our usual Peruvian place in Gotanda. As always, it was excellent—so it turned out well.

After the meal, we had coffee at a café and talked.

The conversation turned to how much participation in athletic clubs during student years helps people adapt to society.

Also heard that some of the students he tutors in mathematics struggle not because of the textbooks themselves, but because they can't properly copy the equations in the first place.

My friend was recently hired at a prep school specializing in medical students, and not only got in but is already teaching three students.

After the café, we parted ways, and I headed to the company office in Shinjuku.

It felt good to have conversations—with him, and later, with team members.

On the way home, stopped by a used bookstore in Shinjuku; by the time I returned, it was past eight.

3 Friday, October 3, 2025

Spent the entire day developing my side project.

The analysis batch for Yomi Sheet is nearly complete.

Talked with two team leads about CA's operational analysis, as well as with another person who's developing a performance analysis system for CA.

The number of accepted offers seems off by an order of magnitude.

It might be due to whether we harvest 30- or 90-day intervals first, or whether we flag the most advanced process first—suspecting the mismatch comes from that sequencing.

In the evening, went out for dinner with a friend in Kitasenju.

Although there are quite a few restaurants that serve biryani, many have irregular schedules, so it's often hard to find one open.

Ended up eating at Butayama, a Jiro-style ramen place, again.

Gave my friend some books—Hannah Arendt's and one on causal inference.

On the way back, we talked leisurely over beers at our usual standing bar.

Told him about my plan to re-enter a doctoral program, and that I've already narrowed down a specific lab.

He, on the other hand, has recently developed an interest in corporate finance theory.

After coming home, uploaded my notes on the Keldysh Green function.

4 Saturday, October 4, 2025

Spent almost the entire day sleeping.

Richard Rorty's "Contingency, Irony, and Solidarity" arrived—looking forward to reading it.

Around midnight, as the date (and thus my age) changed, I was studying how the comma category corresponding to the Grothendieck construction can be expressed as a category of elements using the integral symbol over categories. It's astonishing that even category theory includes an integral concept—and even a Fubini theorem.

5 Sunday, October 5, 2025

Slept a bit less than usual and felt slightly short on rest in the morning.

Spent some time revising my notes on Fermi liquids.

Currently studying limits in category theory.

It was supposed to be a birthday celebration with sushi, but my daughter was running wild around the house, and my wife was too exhausted. So we ended up buying some prepared dishes from a bento shop and eating at home instead.

Found a used copy of Ammon and Erdmenger's book on gauge/gravity duality—not cheap, but I had been debating whether to buy it for a while. Since it's my birthday, I decided to go for it.

By chance, I managed to get a copy.

Along with it, I also obtained textbooks by Altland and Simons, Nakahara's book on topology, and Xiao-Gang Wen's text. Quite lucky.

At a secondhand bookstore, I picked up Audrey Tang's "Plurality" and Milton Friedman's "Capitalism and Freedom" as well.

Started putting together this miscellaneous notebook.

My wife and daughter went to bed early, leaving me with a long stretch of quiet nighttime.

Enjoying the luxury of slow, peaceful reading.

Emily Riehl's textbook on category theory is turning out to be excellent; I'm thinking of summarizing the section on Yoneda's lemma in my notes.

Aside from a short walk outside for some shopping, there was no particular event today—just a calm, peaceful day. It turned out to be the best birthday I've ever had.

6 Monday, October 6, 2025

Woke up at 5:55 in the morning after getting eight and a half hours of sleep.

Spent time until around 8 a.m. studying and summarizing the basic concepts of limits in category theory.

Around 9 a.m., went to a nearby family restaurant and enjoyed breakfast for the first time in a while.

Read a book by Hannah Arendt during the meal.

Noticed that I had forgotten my house key, but thankfully my wife had already come home, which saved me from trouble.

In the afternoon, followed the proof of Yoneda's lemma and tried to summarize it in my own words.

Although the proof was meant to be written in a way I could understand, it still felt somewhat complicated; perhaps my notes are not very good—or maybe I'm simply not yet used to category theory.

Had a boxed lunch from a local bento shop and enjoyed it together with my wife.

Later, organized tasks and, with my wife's help, submitted some company documents.

Also attended an MBA lecture.

Since I've been spending so much time in front of the computer lately, I'd like to take it easy tomorrow and go to the sauna.

7 Tuesday, October 7, 2025

Went to bed at 11 p.m. and woke up at 6 a.m.—a seven-hour sleep.

A cockroach appeared in the house, so I didn't feel like staying there and spent the whole day in a private sauna instead.

At work, Rubik's Cubes and group theory came up in conversation, and it struck me that I hadn't studied group theory in quite some time.

Would like to be able to follow proofs of basic theorems and group representation theory again.

Bought a book on time series analysis.

I wonder if people in P-major fields actually use ARIMA processes.

Planning to start from AR models.

Watched the Nobel Prize in Physics broadcast this year as well.

It was about the fundamentals of quantum computation using Josephson junctions—delightful.

Also bought books on superstring theory, gauge theory, and the renormalization group.