

1. Who was there:

Joanne(me), Kie seng, An ran, James, Yao, Jane.

2. The material that I covered in the presentation:

From definition 4.1.16 in p88 to Theorem 4.2.1(Yoneda's Lemma), didn't go through the prove for the Yoneda's lemma.

- Definition of the H_A functor.
- Definition of the representability for contravariant set-valued functors.
- Example 4.1.18 for power set functor.
- Definition of the Yoneda's embedding.
- Definition of the Hom_A functor.
- Definition of a generalized element of an object in a category.
- Some examples for generalized elements.
- The statement for Theorem 4.2.1(Yoneda's Lemma).

3. The topics covered in the discussion after the presentation:

- The difference between the H^A functor and the H_A functor, basically as explained in the remark of Definition 4.1.21.
- We discussed that why do we adopt the definition of a generalized element other than just call it a map that has A as its codomain.

4. Evaluate the presentation of the material.

I actually have used just half an hour to finish the presentation, and I think I have the time to go through the first part of the proof of the Yoneda's lemma, I should be prepared for doing that.