

INTRODUCTION TO SCHEMES - HOMEWORK 6

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You do not need to hand in homework for lecture 6. The following are reading guides.

- (1) If Lecture 6 was significantly harder than previous lectures for you, spend some time this week going back over the previous two lectures and look at exercises you haven't done yet.
- (2) If you fall into this group, also spend some time understanding Yoneda's lemma (and any needed category theory background).
- (3) For other people, take a look at Eisenbud-Harris Chapter VI. Understand the construction of the Grassmannian. See also Vakil Section 16.7 (and references back from there).
- (4) For the best prepared: continue reading these reference for the construction of the Hilbert scheme.