Username: YALE UNIVERSITY ENGINEERING & APPLIED SCIENCE LIBRARY **Book:** Modern Compiler Implementation in ML. No part of any chapter or book may be reproduced or transmitted in any form by any means without the prior written permission for reprints and excerpts from the publisher of the book or chapter. Redistribution or other use that violates the fair use privilege under U.S. copyright laws (see 17 USC107) or that otherwise violates these Terms of Service is strictly prohibited. Violators will be prosecuted to the full extent of U.S. Federal and Massachusetts laws.

5 Semantic Analysis

se-man-tic: of or relating to meaning in language

Webster's Dictionary

The semantic analysis phase of a compiler connects variable definitions to their uses, checks that each expression has a correct type, and translates the abstract syntax into a simpler representation suitable for generating machine code.