# SSA form

Christopher League*

27 April 2016

Resources:

- Frank Pfenning's notes from CMU: https://www.cs.cmu.edu/~fp/courses/15411-f08/lectures/09-ssa.pdf
- Book draft about SSA: http://ssabook.gforge.inria.fr/latest/book.pdf

Most intermediate representations use some variant of Static Single Assignment (SSA) form. In this format, each variable (temporary) is assigned *exactly once,* at one location in the code. This simplifies compiler analysis and optimization by tracking values rather than storage locations.