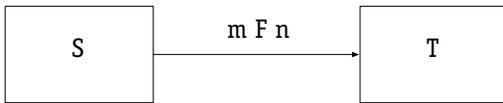# Summary of Object Model Notation for Code
6.170 / Lab in Software Engineering / Fall 2005

S	*S*	abstract S	interface S
class	abstract class or interface	abstract class	interface

S

△

S1 extends or implements S

S1
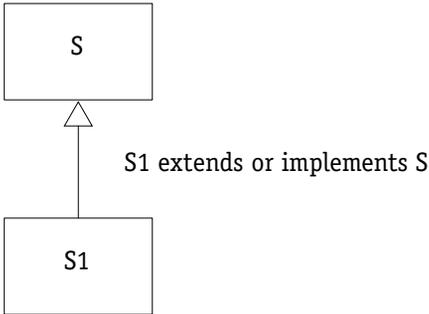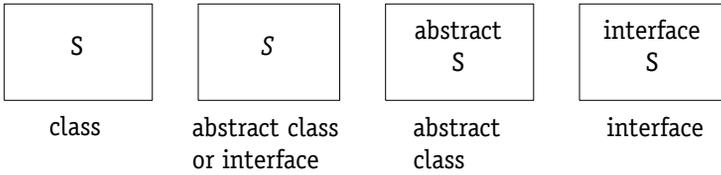
Multiplicities
? zero or one
! exactly one
+ one or more
* zero or more

S —— m F n ——▸ T

F is a field from S to T with multiplicities m and n
Associates n T's with each S, and maps m S's to each T

S —— m F[i] n ——▸ T
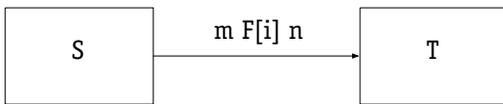
F is an indexed field from S to T with multiplicities m and n
Associates n T's with each S and i, and maps m S's for a given i to each T

S ——————|— T

Target final marking: over lifetime of each S, set of T's associated with it is unchanged

S —|—————▸ T

Source final marking: over lifetime of each T, set of S's mapped to it is unchanged