

Compilers

Def. Let Σ be a set of characters (an *alphabet*). A *language over* Σ is a set of strings of characters drawn from Σ

- Alphabet = English characters
- Language = English sentences

- Alphabet = ASCII
- Language = C programs

Meaning function *L* maps syntax to semantics

- Why use a meaning function?
 - Makes clear what is syntax, what is semantics.

Allows us to consider notation as a separate issue

Because expressions and meanings are not 1-1

- Meaning is many to one
 - Never one to many!