Syntax and Semantics.
\[ A_{\text{abstract}} \text{ provides a link between abstract to a text and a body.} \]

C++
\[
\text{while } c < n \text{ do begin}
\]
\[
\text{end.}
\]
\[
\text{end.}
\]

Pascal
\[
\text{while } i \leq l + 1 \text{ begin}
\]
\[
\text{end.}
\]

How they are concretely condensed.

in a program without describing

the essential syntactic elements

Formal device for identifying

Abstract Syntax.
or other data structures.

A set of classes (Java or C++)
forms a basis for defining

By product: abstract syntax

have rules for all its classes.

A complete abstract syntax must

classes

abstract

/  

Loop = For test, start body
components.

a member of the class.

RHS = list of components that define
LHS = name of an abstract syntax class

LHS = RHS

rules of the form

Define abstract syntax by a set of
- fewer intermediate nodes & subphrases.

helpful for translation

a common abstract representation

allowed to language to share

Abstract syntax:

what to write.

Concrete syntax: feel as you

naturally occurs

Recursion

Shift body

EKR test

class loop extends Framework

i.e.