What Unicode provides

• Information related to the semantical value of chars.

What Unicode doesn't provide

- Information related to visual rendering:
 - The glyphs necessary to typeset the included languages.
 - The logical structure of a document.

TEX

- Is a typesetting engine, and a programming language.
- Accepts mark-up commands, but it also accepts macros for visual rendering.
- However, unlike processors for markup languages (SG/XML)
 TEX cannot read the text to manipulate it— each character is added to the output when read.

Omega

- Can read text to process it with "translation processes" or external tools.
- Omega can generate SGML documents.
- In addition, it can read directly XML document.

The goals of Lambda are mainly:

- to provide a set of high level macros for users and developers of language styles, which "hides" the involved primitives and makes them easier to use.
- to coordinate different languages so that Omega will become a *true multilingual* environment.

By true multilingual environment I mean the possibility:

- to use in the same document several of the scripts in the World.
- to use different national coding systems and fonts, even in a single document, and conversion from a coding system to another if necessary.
- to gather that information to form Unicode text.
- to manipulate and extract information from the Unicode text.
- to use tags (i.e., macro names) using any script.
- to redefine shared elements.
- to define new language specific elements.

•	The lambda	kernel	provides	a	set	of	"services"	to	be
	used by languages.								

- The kernel contains no reference to any language, either explicit or implicit.
- The languages needn't modify the functionality provided by the kernel.
- It's a framework wich enables to gather together different languages while preserving their independence.

User interface

\languageset \languageproperties

\begin{language}

*\language*text

\chaptername

. . .

Language A

Language B

Language C

Lambda kernel

\ocp

\externalocp

\ocplist

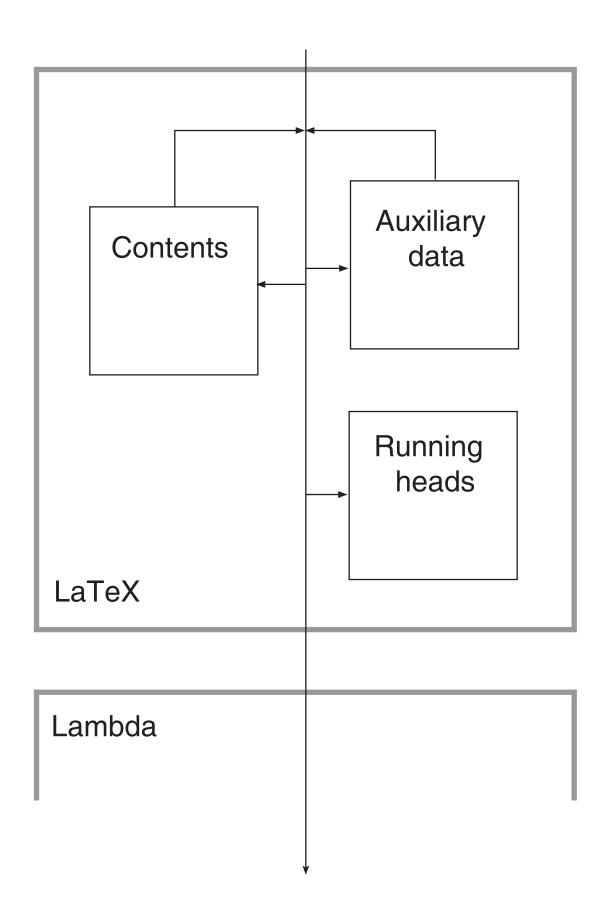
\pushocplist

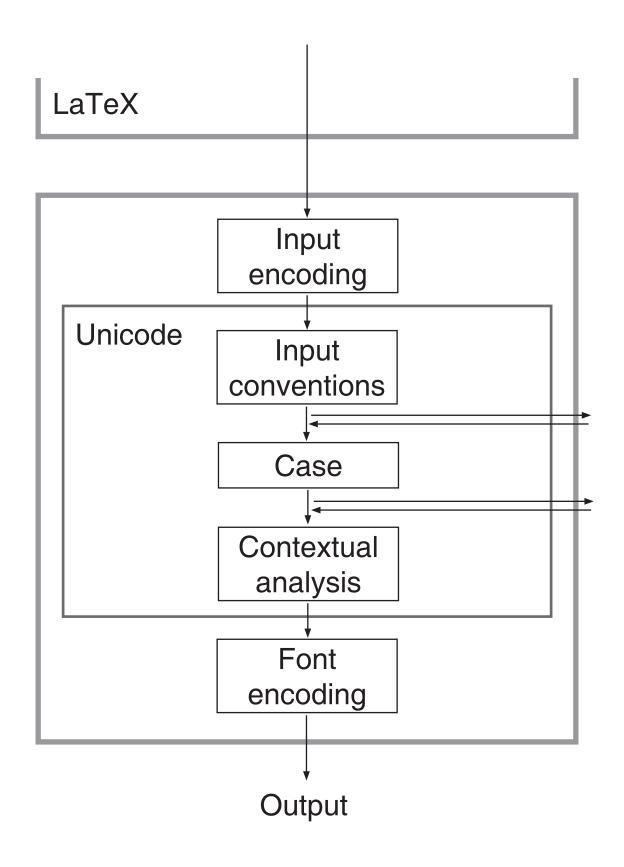
\addbeforeocplist

\nullocplist

Output transformations

- Contextual analysis in scripts like Arabic or Devanagari.
- Aesthetic ligatures, like fi.
- Converting to a certain font encoding or generating the necessary T_EX macros.





```
\documentclass{book}
\usepackage[charset=latin1,greek,english] {lambda}
\languageproperties{greek} {input=latin}
\begin{document}
English text: \languagetext{greek} {thaumsio}. And again English.
\end{document}
```