

## Syntax Blocks

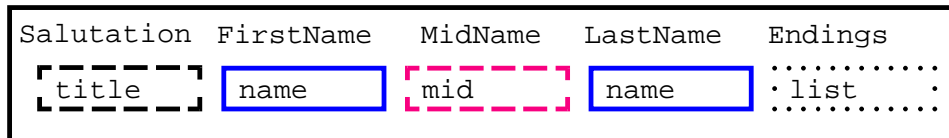
Syntax describes the form (or structure, grammar) of a sequence of things. It provides a way to determine if something is of proper (or valid, legal) form.

**Full Name** of a person, for example, has a definite form in many countries, consisting of some salutation (Mr, Ms, etc) followed by a first name, then followed by either a middle name or initial, followed by a last name and ending with a list of various degrees, etc.

Examples of proper FullName syntax	Examples of improper FullName syntax
Jane Doe	Joe
Mr. John Q. Doe	Mr. Tea
Ms Jane Mary Doe	Mr and Mrs Sippi
Prof. Bill Q. Gates III	7777
Mary J. MacHinery II M.D. Ph.D.	Blow, Joe

Notation, describing syntax, can be done in various ways (syntax diagrams, bnf, etc) but here the syntax is described by syntax boxes as shown. Solid rectangular boxes indicate what parts are required (First name and last name), Boxes with long dashes (such as a title or middle name) indicate optional parts (zero or one only). Boxes with dots or shorter dashes (and more of them, suggest more parts) indicate zero or more parts; for example the ending consists of any number of end "phrases". The text in bold type is to be written exactly as shown, whereas the text in normal type is defined elsewhere in some box. For example, the title can be any one selected from the many in the given Title box. Similarly the mid name is either a name or initial; the dashed line inside indicating the "or". An initial part is a CapitalLetter followed by a period, whereas a name is a CapitalLetter followed by any number of letters.

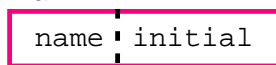
FullName



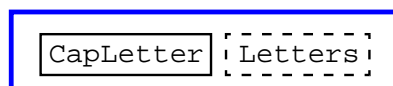
title

<b>Mr.</b>
<b>Mrs.</b>
<b>Miss</b>
<b>Ms.</b>
<b>Dr.</b>
<b>Prof.</b>
<b>Sir</b>
<b>Lady</b>
<b>Rev.</b>
other

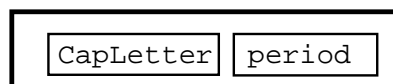
mid



name



initial



list

<b>Esq.</b>
<b>M.D.</b>
<b>Ph.D.</b>
<b>I</b>
<b>II</b>
<b>III</b>
<b>IV</b>
<b>Jr.</b>
<b>Sr.</b>
etc