# EL Shell Document

## What is EL Shell?

EL shell is a small program about automatic normalization and reasoning in EL Ontology Language.

## How to use?

Start the program in Main and input ‘:EL’ enter the reasoner. Then input the EL expressions , end with a line of ‘!’.

*\* In our EL Ontology Langugage, we define  
\* '&&' as 'and', 'Ext.' as 'Exist', '=>' as 'Belong to','==' as 'Equal'  
\* Each atomic concept should be ONE upclass letter without N  
\* Each role should be ONE lowclass letter  
\* Tokens should not be split by space  
\* TBox will be normalized by nf1-nf6  
\* Do not support () at this version*

## What will we get?

The subsume set of concepts in TBox.

## Shortcoming

It doesn’t support brackets, so you can’t input , which should be solved by stack not the simple tree. Also, the last step of checking should be done by yourself.