



# LisBeth – Programs and functionalities



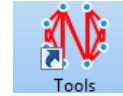
documentation



program

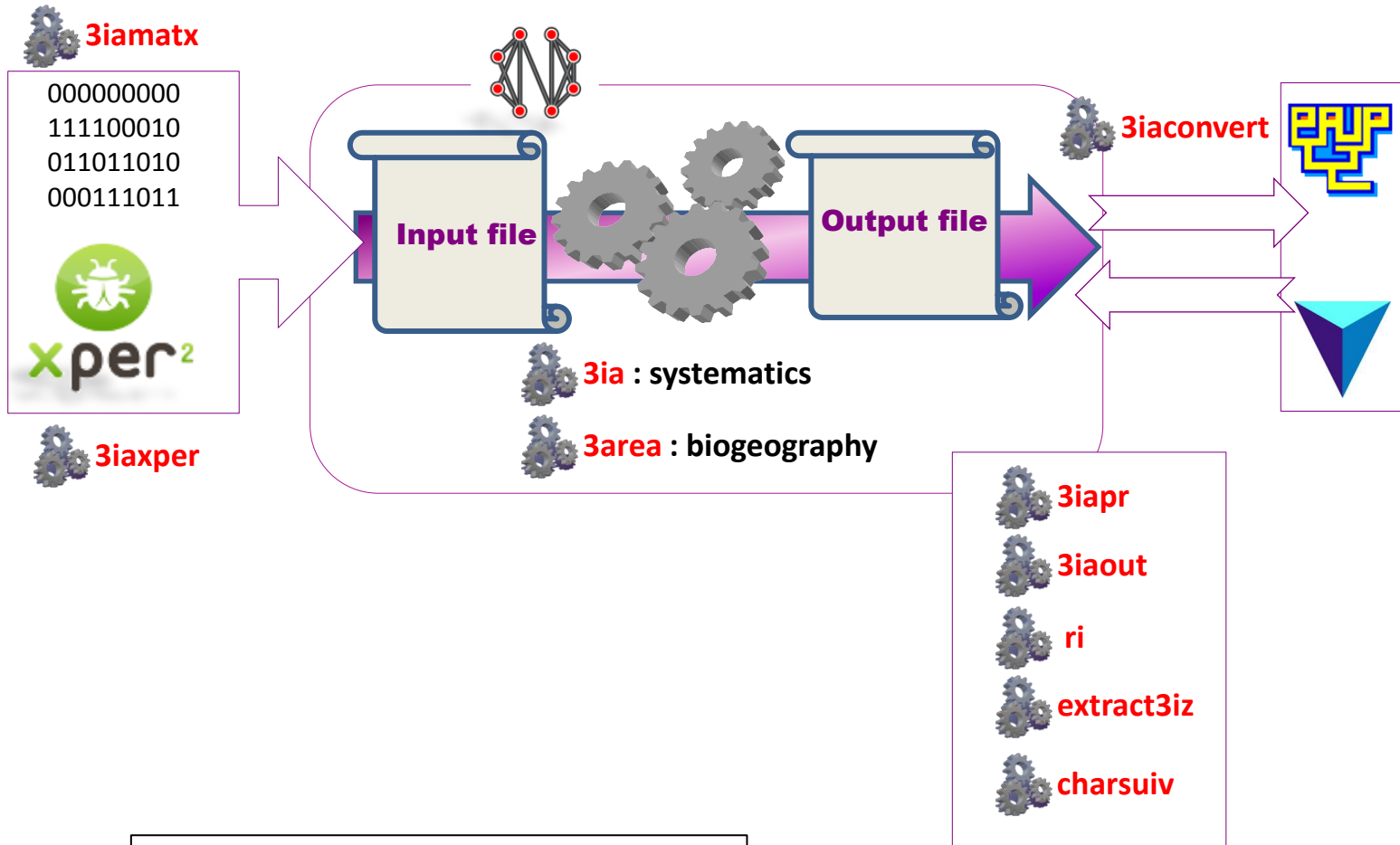


DOS window



Tools

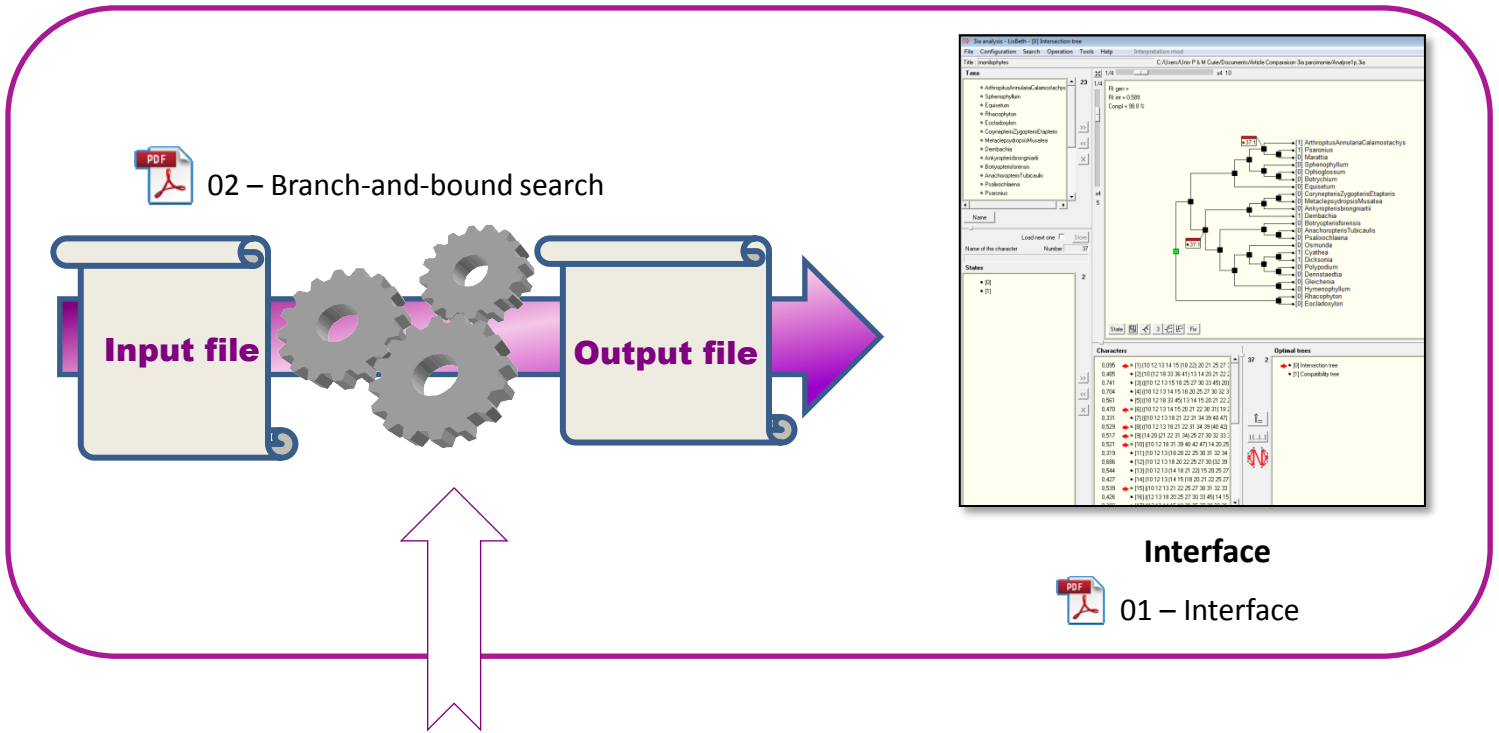
## 1. Programs



01 - 3ia	06 - charsuiv
02 - 3area	07 - ri
03 - 3iaconvert	08 - extract3iz
04 - 3iapr	09 - 3iamatx
05 - 3iaout	10 - 3iaxper

## 2. Functionalities

### a. Branch and bound search

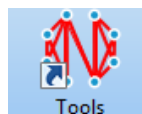
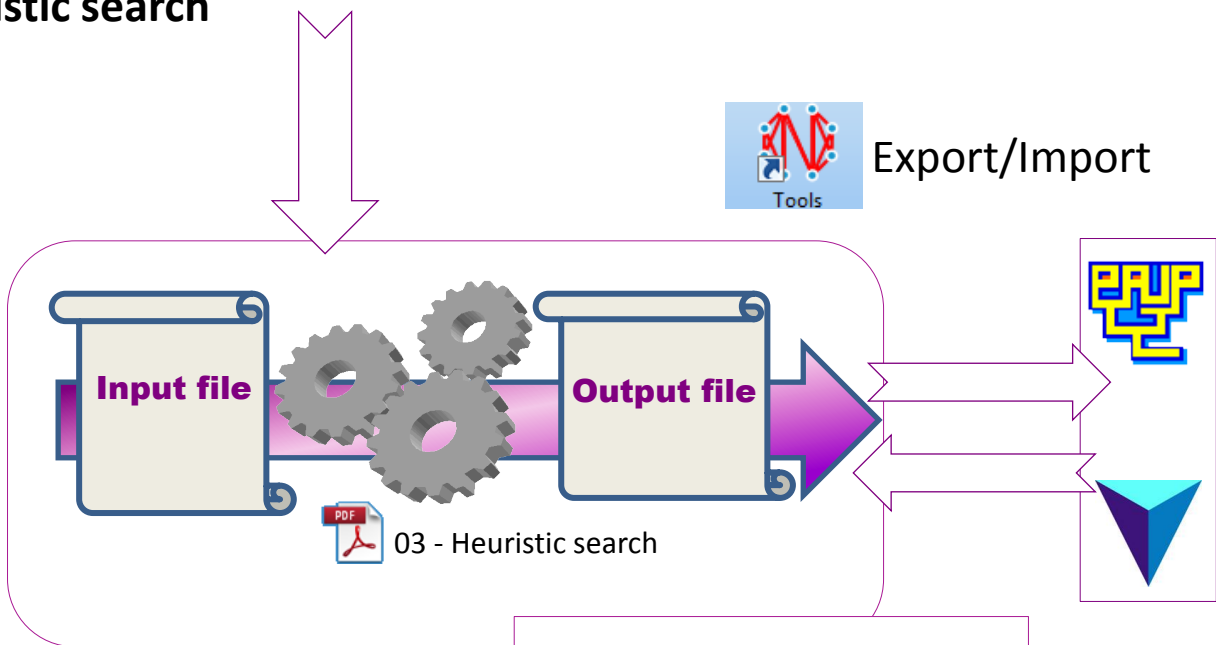


Polymorphism



05 - Polymorphism

### b. Heuristic search



Retention Index



08- Retention index

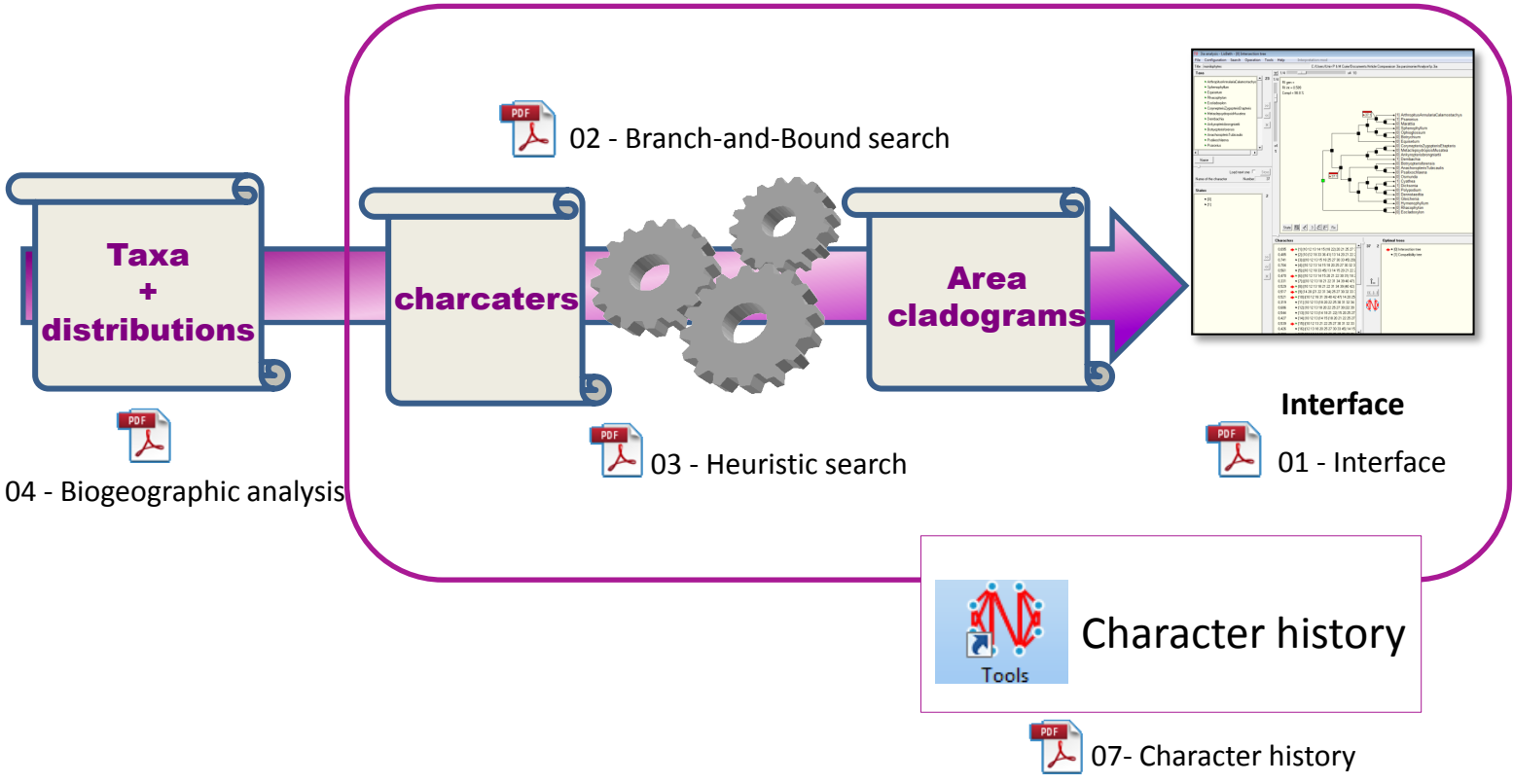


Synapomorphies

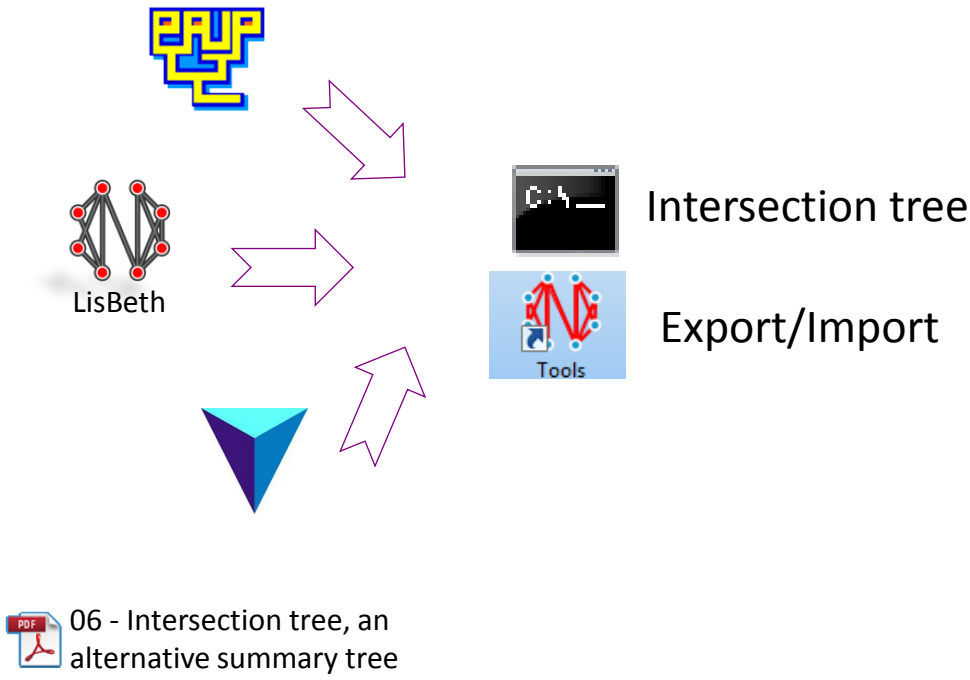


07- Character history

### c. Biogeographic analysis

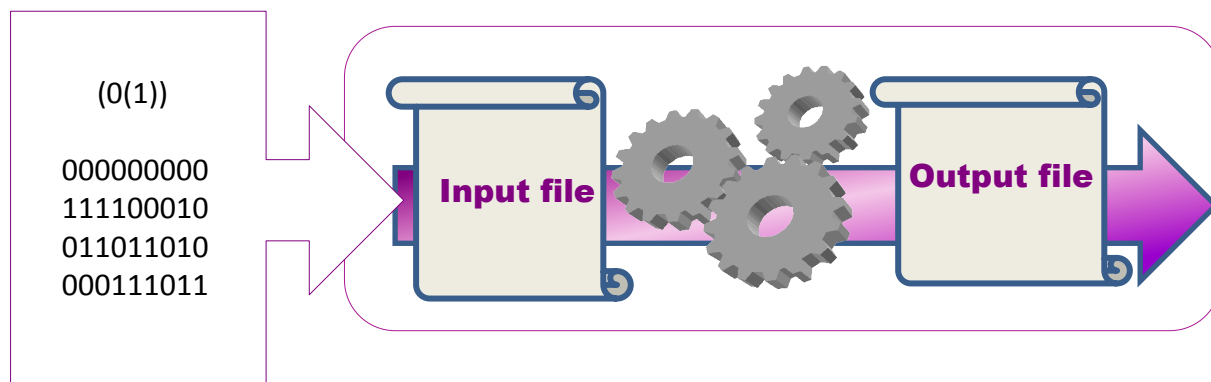


### d. The intersection tree: an alternative summary tree



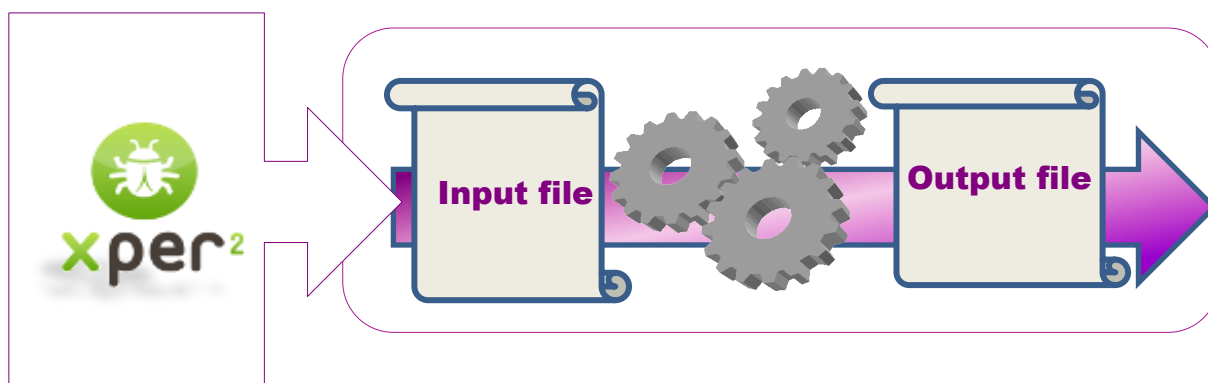
06 - Intersection tree, an alternative summary tree

## e. Matrix import



10 - Matrix import

## f. Character import from Xper<sup>2</sup> knowledge bases



11 - Character import from Xper<sup>2</sup> knowledge bases