



.NET Framework

**User Interfaces**

**Web Graphical User Interface**  
*AuthecoWeb (ASP.NET application)*

**Command Line Interface**  
*autheco (.NET console application)*

**Core Functions**

**Control Center Library**  
*AuthecoLib (.NET class library)*

Evaluation  
Module

Data Access  
Layer

Export  
Module

Crawling  
Module

Preprocessing  
Module

Term Extraction  
Module

Term Grouping  
Module

Concept Ranking  
Module

Semantic Relations  
Mining Module

Visualization  
Module

**Libraries**

**NLP Libraries**  
*Proxem Anthelope, SharpNLP*

**Scripting Engine**  
*IronPython*

**Matlab Wrapper**  
*Matlab Builder NE*

**Parser Wrapper**  
*NXip*

...

SQL File I/O  
**Data Storage**

**Autheco Database, Datasets**  
*MySQL*

**Corpora, Temp.files, Linguistic Resources**  
*TXT, CSV, XML, SKOS*

File I/O API

**Scripting Console Applications**  
*Python Scripts*

File I/O API

**Data Analysis and Evaluation**  
*Matlab Scripts*

API

File I/O

**Console Applications**

**Grouping Terms**  
*Grouper*

**Graph Vizualizations**  
*GraphViz*

**Standard GNU tools**  
*Cygwin*

**Symbolic Term Extractor**  
*Unitex 3*

**Data Mining Library**  
*Weka*

...

**Native Libraries**

**Syntactic and Dependency Parser**  
*Xerox Incremental Parser*

**Indexing Engine**  
*Lucene*

**High-Performance Code**  
*Win32 C++ dll*

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