

FreeLing & TextServer: Cloud-based NLP

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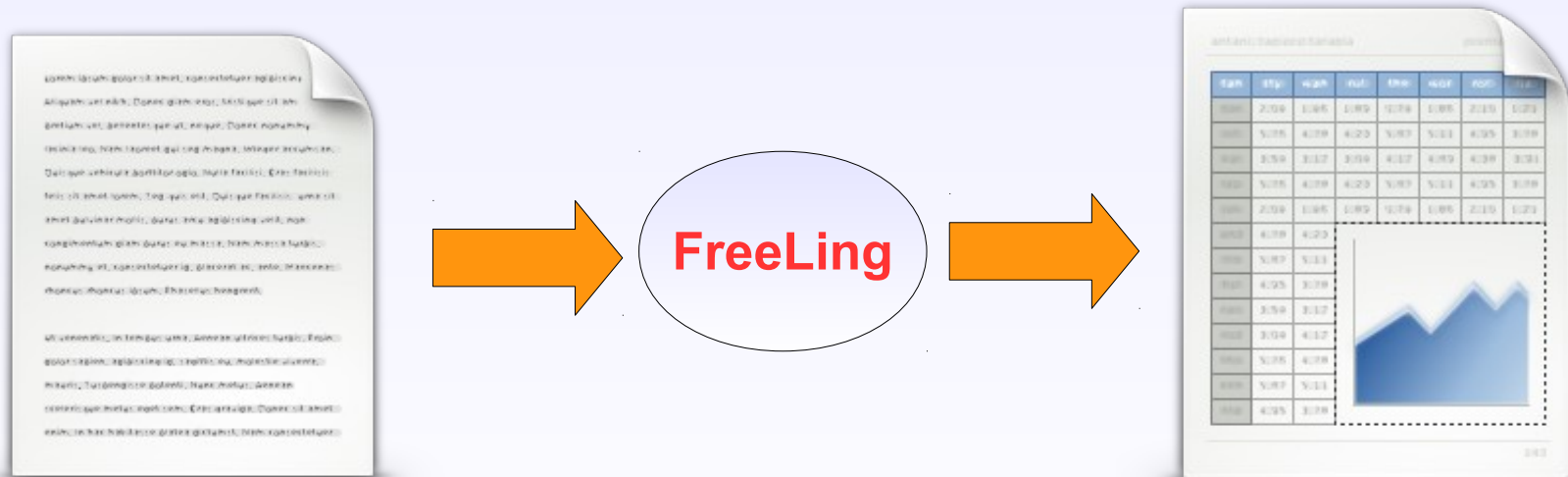
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What is FreeLing

- A configurable, extensible, developer-oriented, linguistic analysis library.
- Linguistic Analysis: Obtain structured data from unstructured NL text.



- Similar stuff: Apache OpenNLP, NLTK
- Also related: UIMA, GATE

FreeLing Background

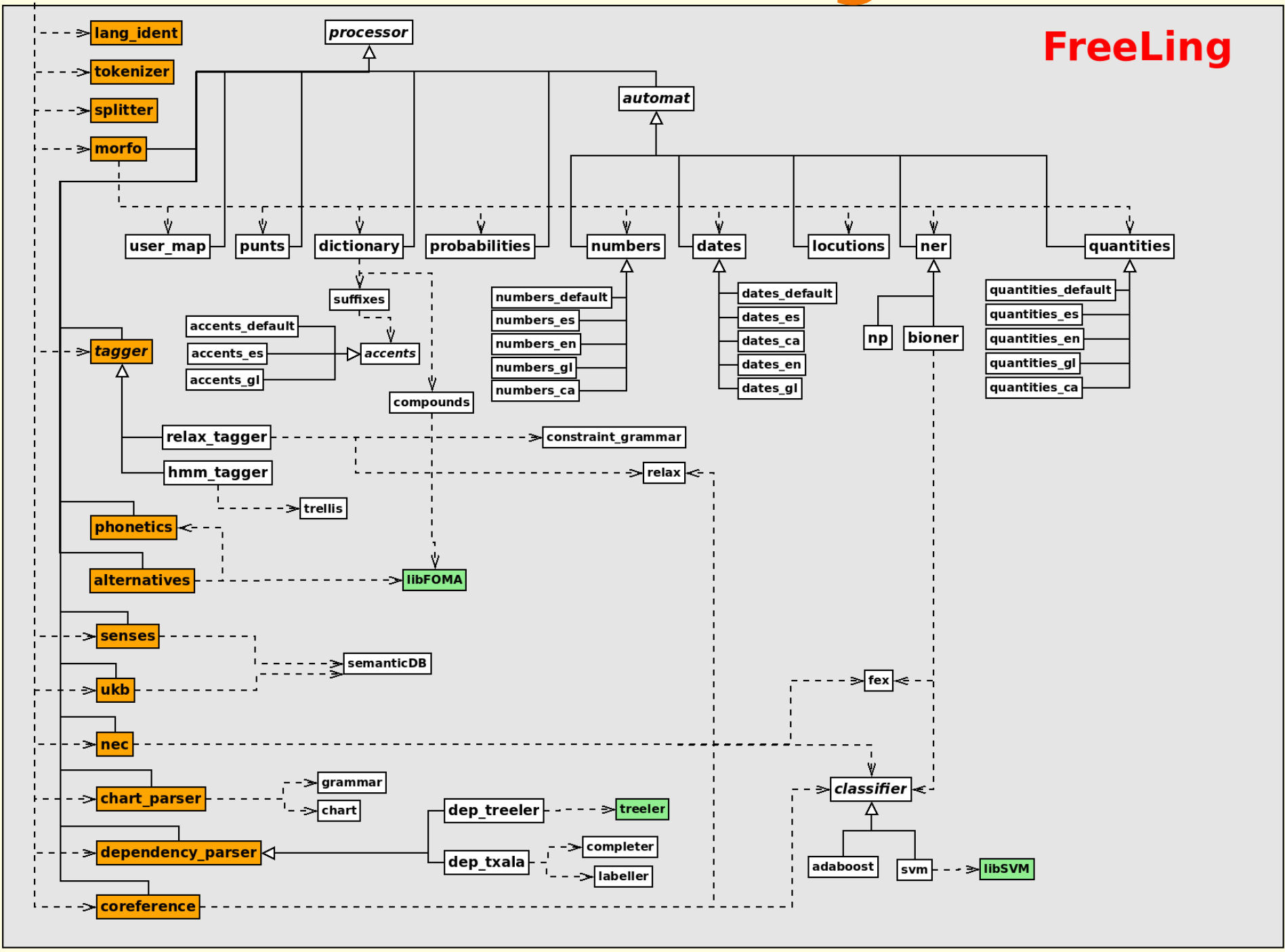
Original goals:

- Provide a *fast*, reliable, and extensible platform to enable further progress in NLP application research and development.
- 12+ year lasting open-source project
- 14 languages supported, thanks to contributors
- Continued improvement and extension
- Total ~200,000 downloads

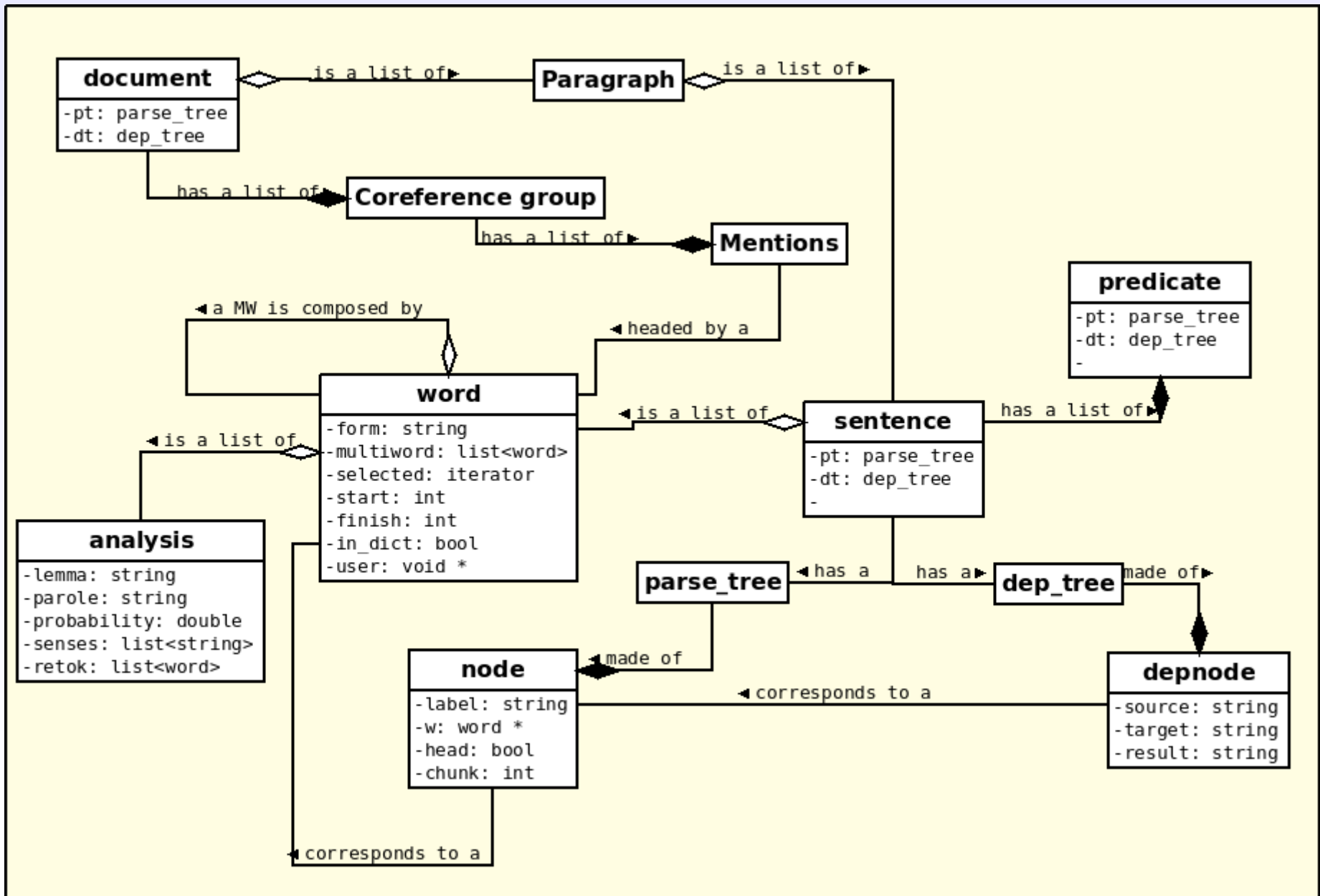
Client Application

Processing Classes

FreeLing



Linguistic Data Classes



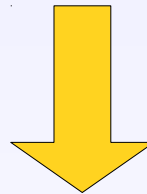
Demo

<http://nlp.isi.upc.edu/freeling/demo/demo.php>

TextServer

New requirements from application developers

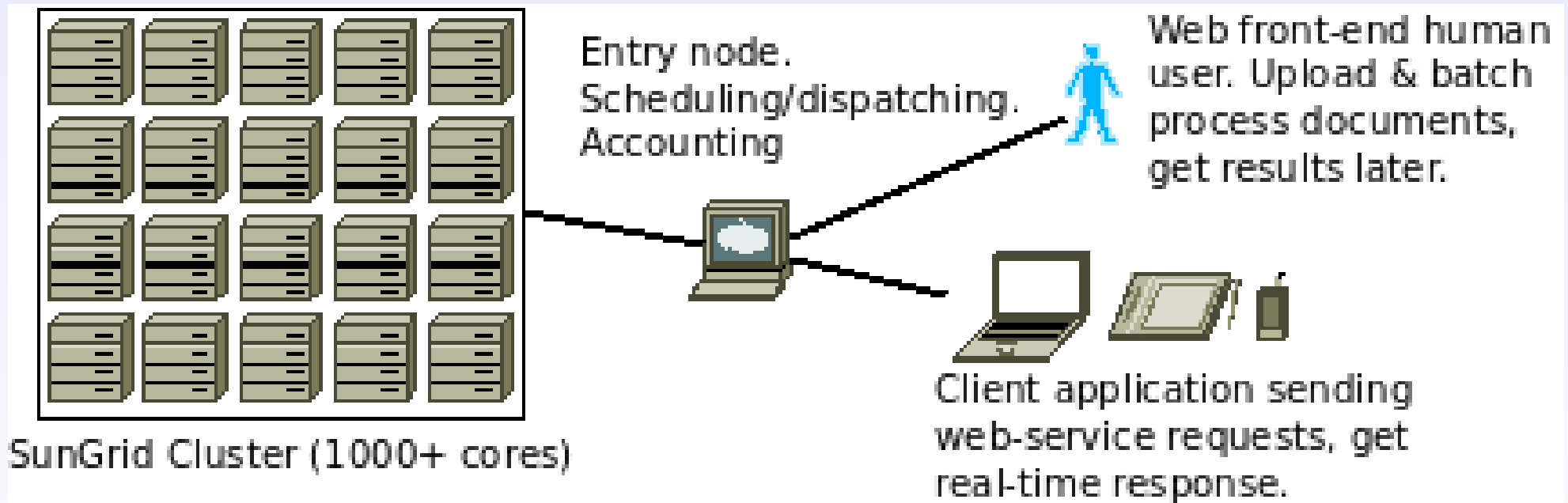
- Mobile devices
- Big data



Toolkits and libraries are moving into the cloud.

- Simplicity of installation, configuration, and use.
- Possibility of providing a wider and more flexible range of services.
- Ubiquity

TextServer Architecture



TextServer currently provides FreeLing-based analyzers, but it aims to provide many other kinds of NLP related services.

TextServer Advantadges

- Research
 - Replicability.
 - Reusability.
 - Valuable asset for UPC as project partner.
- Application development
 - Simplicity of use.
 - Speed, parallelism.
- Technology transfer
 - Less licensing problems.
 - Monetization of research results.

Demo

<http://textserver.lsi.upc.edu/textserver>

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