



Natural Language Processing for the Semantic Web

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Conclusion

- **Natural language processing** can help to add machine-processable semantics to the Web
 - Interfaces to ontology editors
 - Semantic annotation
 - Ontology learning and population
- **Semantic Web technologies** provide you with means for ...
 - Formal knowledge representation
 - Reasoning with rules and description logics

Outlook

- Semantic Web technologies promise to revolutionise information access by adding machine-readable semantic information
- NLP has advanced now to the point where it can provide this information and ease the acquisition bottleneck, e.g. by creating semantic annotations from text
- NLP systems are also consumers of semantic web information, e.g. by providing natural language query systems which take advantage of semantic web markup
- Issues of scalability and in particular, fast adaptation to new domains, are still a long way from being resolved
- Hot topics in NLP and Semantic Web: cloud computing, opinion mining, business analytics, ..

More Information

On the tutorial homepage you can find

... links to relevant **tools** and **documentation**,

... and updated **tutorial slides**,

<http://www.dcs.shef.ac.uk/~diana/courses/lrec-nlp-semweb-tutorial.html>



Protégé

CLOnE

Demos?

GATE

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Questions?

Semantic Web conferences