How do humans become intelligent?

- reasoning
- explain
- argue
- learn
- understand
- interpret
- discuss
- interact
- read

How do machines become intelligent?

- reasoning
- explain
- argue
- learn
- understand
- interpret
- listen
- interact
- read

Automatic knowledge acquisition

- complex problems
- intelligent machines
- spoken and written human languages
- listen
- interact
- talk
- read

Language & Speech Technology

- Facebook
- Twitter
- Instagram
- YouTube
- LinkedIn
- Skye
- Blogger
-MSN

What is special about language?

complex problems

speaking / explaining

(lose) compression

(inevrt) decompression

understanding

spoken and written human languages

ambiguity is a feature (not a bug)

interpretation requires intelligence

Goals of the FCAI-SIG-LSC

• to organize events that focus on the connections between language technology, cognitive science and AI development

• to support collaborations between the commercial sector and academic research institutes in the development of language and speech technology

• to provide a platform for discussing the impact of natural language processing and AI on the society to establish a research program on language, speech and cognition under the umbrella of FCAI
Who are we (so far …)

- **Helsinki-NLP**: The Language Technology research group at the University of Helsinki
- **Turku-NLP**: The NLP research group at University of Turku
- The Speech Recognition research group at Aalto University
- **Phonetics and Speech Synthesis**: at the University of Helsinki
- **L.A.R.P.**: Language Acquisition, Representation, and Processing research group at the University of Helsinki
- **Discovery** research group with a focus on computational creativity and data mining at the University of Helsinki
- **CBIR**: The Content-Based Image and Information Retrieval group
- **HSKI**: Human-Sciences Computing and interaction at the University of Helsinki
- **SeCo**: Semantic Computing research group at Aalto University
- **FIN-CLARIN**: The language bank of Finland

How to get involved

**Become a member**
- send an e-mail to majordomo@helsinki.fi with the message subscribe fcai-sig-lsc your.email@helsinki.fi
- suggest and come to our events

**Contribute**
- suggest activities, FCAI can give financial support
- make our topics heard at FCAI

Talk to me if you want to know more ...

WS on Language Grounding in 2019

Image from multimodal MT at WMT

Thanks for listening!