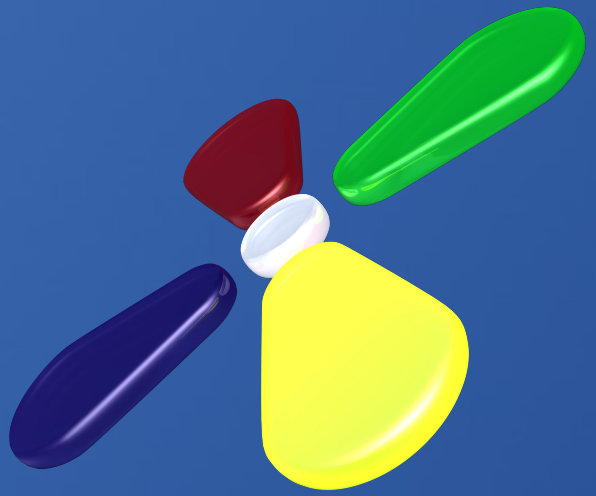
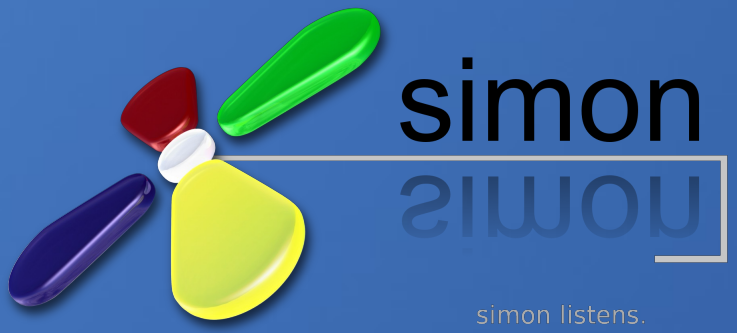


simon

Open-Source Speech Recognition

Developed by the non profit organization Simon Listens
in cooperation with Cyber-Byte IT services



Meet: David

- 18 years old
- Hobbies:
  - Music
  - TV
  - Friends
  - Girls

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simon listens.

Meet: David

- 18 years old
- Hobbies:
  - Music
  - TV
  - Friends
  - Girls

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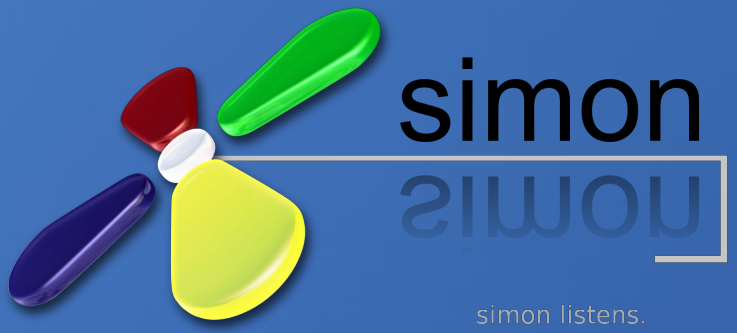
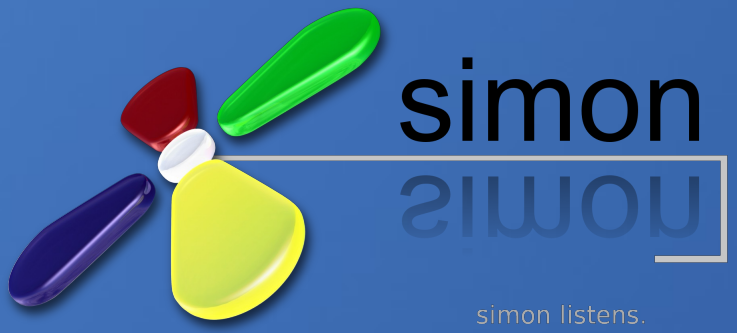
Meet: Everybody



The Challenge

- According to EU: 6.4 % suffer from disabilities affecting their arms and hands
  - 500 million * 6.4 % = ~ 32 million
  - Reference: Finland + Norway + Sweden = ~ 20m
- Same study: 0.4 % suffer from speech impairment
  - ~ 2 million

Source: eurostat, [hlth_db_emtyag]



simon: The Idea

- Speech recognition system
- Extremely flexible
  - Adapts to the user
  - Even speech impairments are no issue
  - Community: Potential
- Free software

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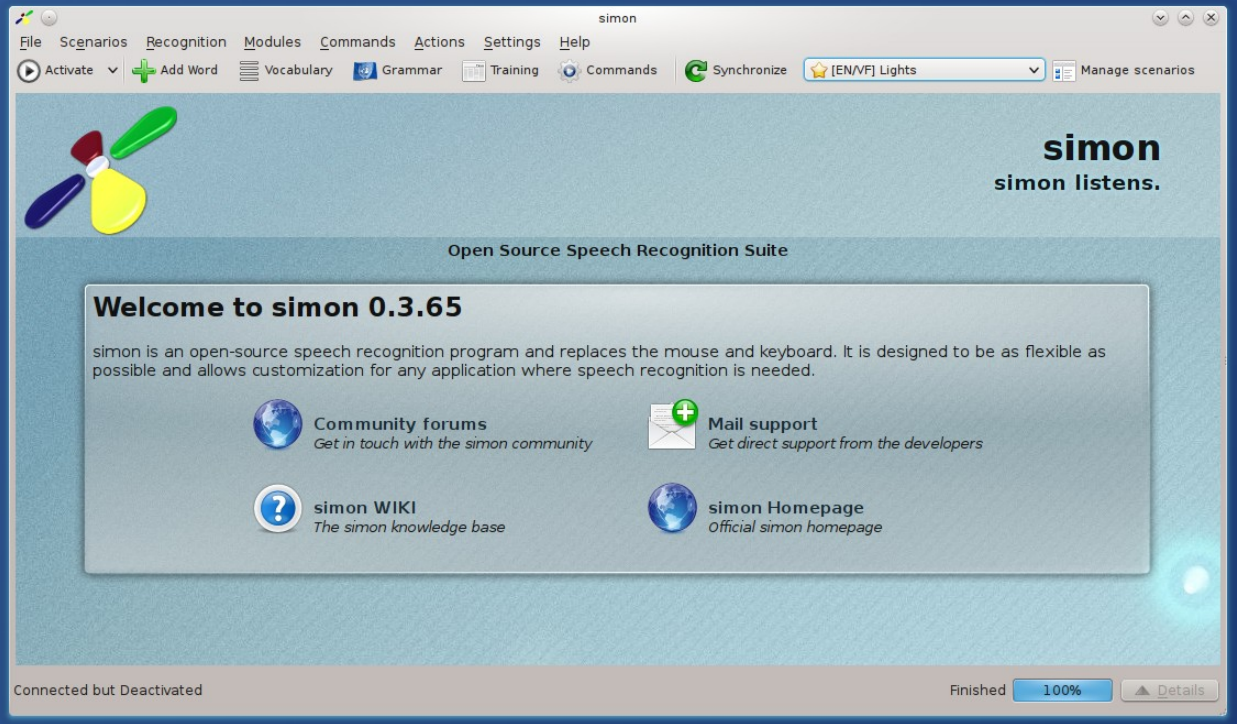
simon: The Implementation

- Based on
  - Julius
  - HTK
  - KDE4
  - C++
- Supports
  - GNU/Linux
  - Windows



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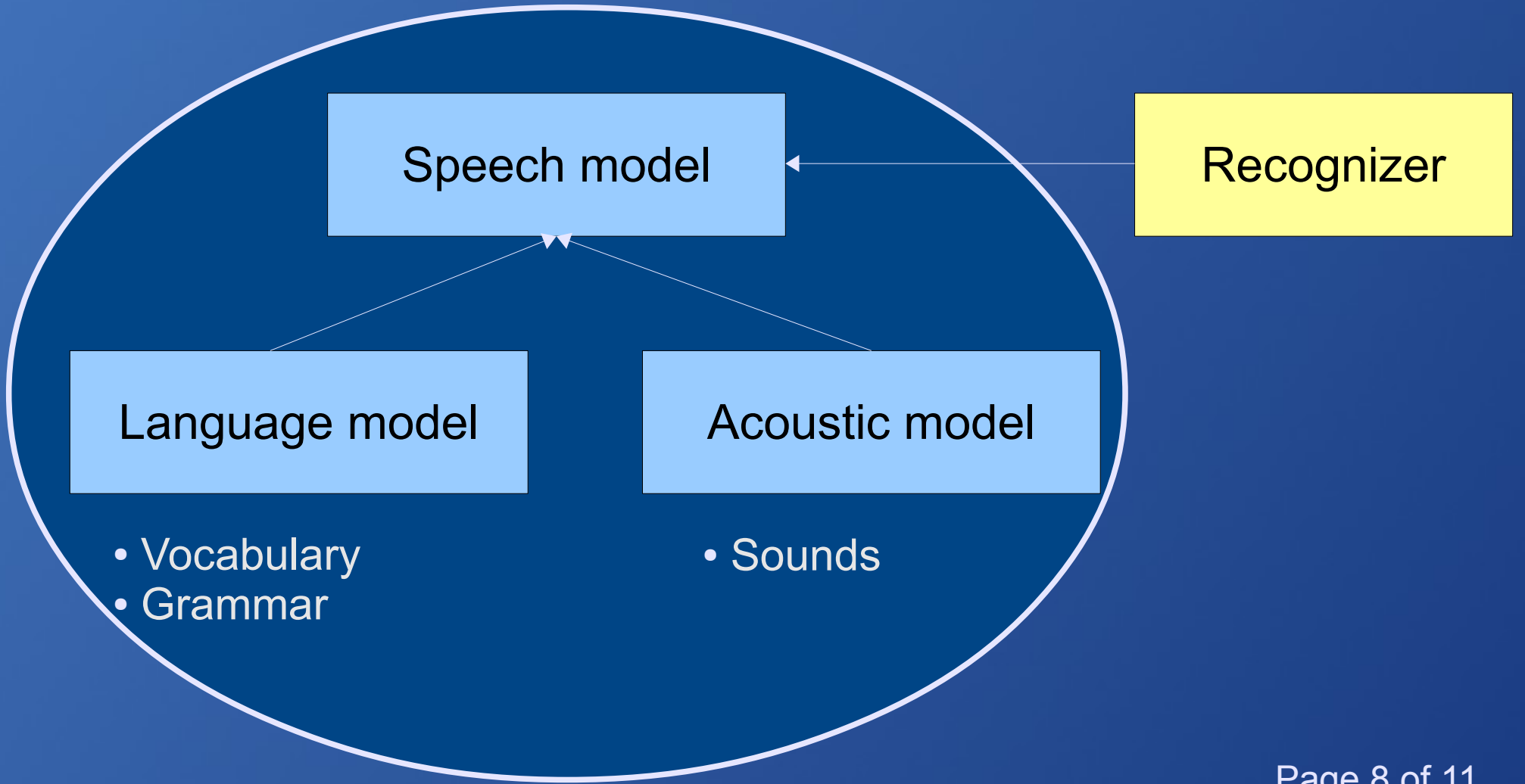
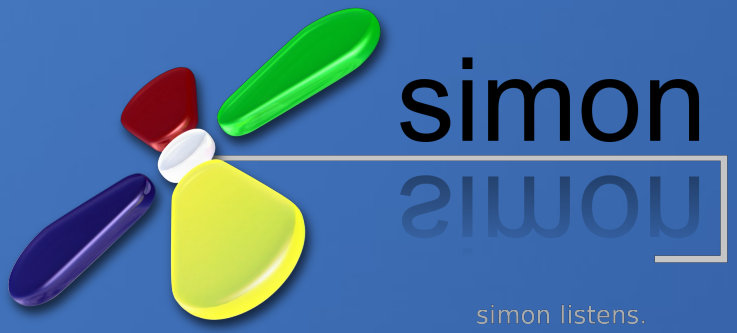
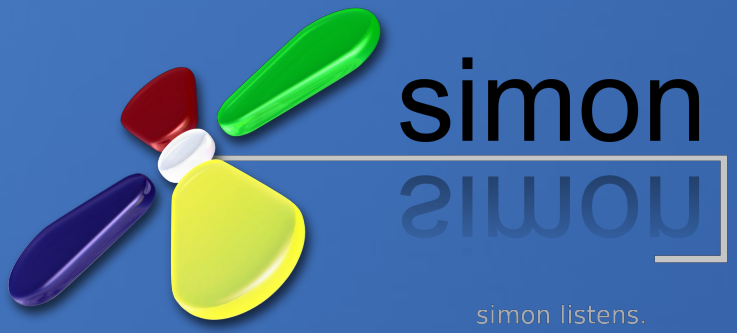
simon: Flexibility



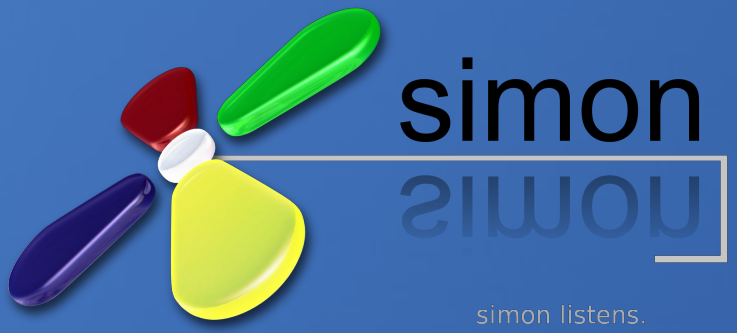


simon: Flexibility

- Language model: Scenarios
  - „Use-case-packages“
    - Vocabulary
    - Grammar
    - Commands
    - Trainings texts
- Acoustic model: Base models
  - Static
  - Adapted



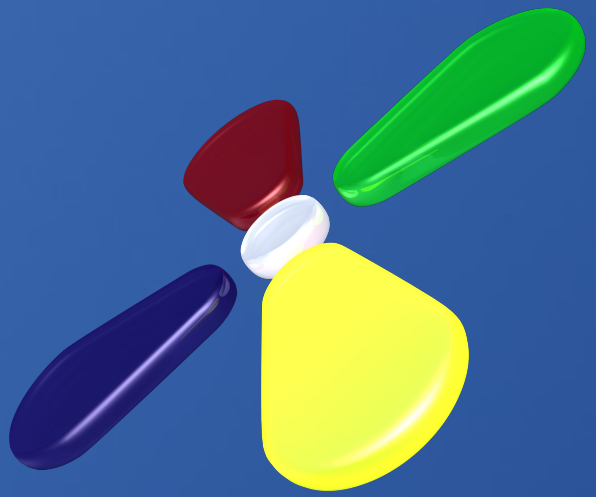
Live Demo



Get involved

- Donate speech: http://www.voxforge.org
- Create and share scenarios
- Software development
- Translation and documentation

- Contact: **support@simon-listens.org**
- Me personally: **grasch@simon-listens.org**



Questions?