Basque Language Speech Regognition & Synthesis Igor Leturia Elhuyar Fundazioa





Kaixo!!!

Elhuyar's Basque ASR and TTS in ELG (Basque smart speaker pilot project)









Igor Leturia – Elhuyar Fundazioa

Meta Forum 2022 - 2022/06/08







Elhuyar Foundation

- Non-for-profit organization working in the promotion of the Basque language in the areas of science of technology
- Among many other things (popular science, terminology, technical translations...), R&D in speech and language technologies



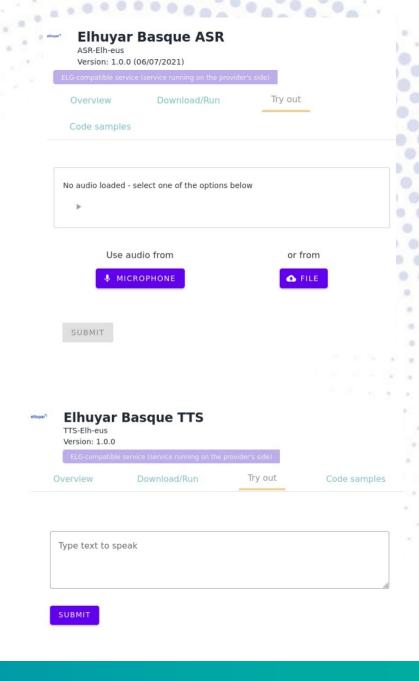
- Basque smart speaker based on open source Mycroft Al
- Makes use of Elhuyar's Basque ASR and TTS services
 - Improved ASR for noisy environments
 - Developed neural TTS and neutral voice
- Localized Mycroft and 40+ skills
- Developed local skills (music, news)





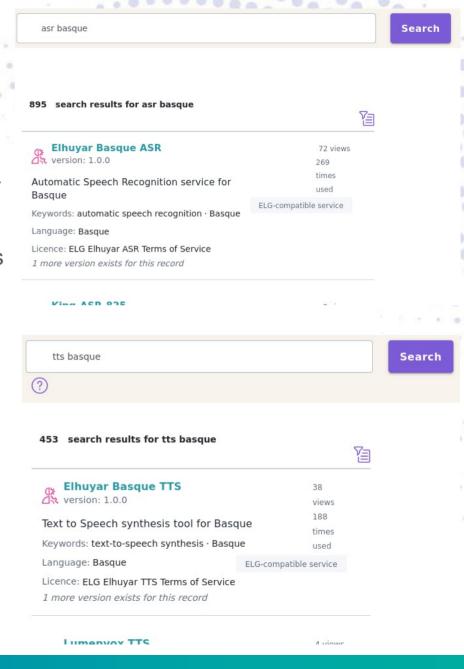
Elhuyar's Basque ASR and TTS in ELG

- Put Elhuyar's Basque ASR and TTS in ELG
- Proxies that call our online services
- Demos:
 - Limited in time (ASR) and text length (TTS)
 - Limited in calls per day
 - No commercial use allowed (only for evaluation purposes and research)
- Terms of use available
- Commercial service reachable from there:
 - Limit extension
 - Commercial use
 - Web interface or API
 - In ASR, subtitles, edition interface, machine translation, bilingual, live...



ELG benefits

- Benefits for Elhuyar's services:
 - Visibility of our services in a global display of European LT tools
 - Visibility of Elhuyar itself: customers, partners and projects can learn about and reach us
- Benefits for Elhuyar as user:
 - Search with great filtering options
 - Get an idea of existing resources and tools for Basque or other languages we work with
 - Information about concurrence
- Benefits for the European LT scene
 - Global and thorough display of European LT
 - Option to try many of the services





www.elhuyar.eus

Igor Leturia 🖃

Technologies Resources Community Events Documentation About ELG

