

The **Transkit** toolkit generates rich multimedia transcriptions automatically.



Features:

- Supported languages: Basque, Spanish, English, Catalan
- Operation modes:

- **Live mode** generates transcriptions in real-time with low latency using an audio stream as input.

- **Batch mode** works off-line and can transcribe previously recorded audio or video.

- **Dictation mode** lets the user dictate documents through the microphone to obtain text transcriptions automatically in real-time.

- Adaptation capabilities:
 - Different topics and domains
 - Particular acoustic conditions
 - Specific speaker

• **Generable metadata:** audio language, audio transcription, background conditions, speaker changes, speakers, sentence units, proper nouns and acronyms.

Technology for the automatic rich transcription of audiovisual content

Applications

Multimedia asset management

Using rich audio transcriptions to generate metadata that can facilitate the search and management of multimedia material.

Transcription automation

The toolkit supports the manual transcription process and make it more productive.

Live and pre-recorded subtitling

Dictation and automatic transcription in live or batch mode are the first steps towards automatic intralingual subtitling.

Open-Source Intelligence

The intelligence collected from publicly available resources benefits from automatically processing the growing amounts of audiovisual material available in the Internet.

Speech analytics

Automatic rich transcription helps analyse the information embedded in recorded customer care calls.

Human computer interaction

The toolkit supports the introduction of speech in the interaction loop.

visual interaction & communication technologie

powered by:



Transkit Modules and Architecture

Module	Description	Dependencies*	Language	Platforms
transkit_prepro	Audio Pre-Processing Normalization, non-speech segments detection and background classification	LIUM_SpkDiarization HTK	Java C	
transkit_lid	Language Identification Automatic identification of the language spoken in the audio	LIUM_SpkDiarization	Java	
transkit_lvcsr	Large Vocabulary Continuous Speech Recognition Automatic generation of the raw transcription from audio input	KALDI	C++	Machine & Servers
transkit_punc	Automatic Punctuation Addition of punctuation marks to the raw transcription	Numpy Theano	Python	Linux
transkit_cap	Automatic Capitalization Detection and capitalization of named entities in the raw transcription	OpenNLP Moses	Java C++, Perl	
Transkit_spkr	Speaker Diarization Automatic segmentation and clustering of the speakers in the audio	LIUM_SpkDiarization	Java	

The Transkit toolkit can be deployed on local machines or servers running GNU/Linux operating system

*All transfer processes in Vicomtech-IK4 are performed according to strict procedures that ensure legal control of the final software.





