

# AzAR

## Pronunciation Training with Phoneme-based Analysis

### How to learn accent-free pronunciation with a computer

Training is an essential part of learning a foreign language. With the language training programme AzAR practising an accent-free pronunciation becomes individual, interesting and varied.

It is the first language learning software with a phoneme-based evaluation of your own recorded pronunciation and offers useful visual and audible feedback features.

AzAR provides a variety of exercises to train typical pronunciation variants, combined with extensive training material and computer-animated motion sequences of speech organs.

The programme consists of two software components: language trainer and database editor.

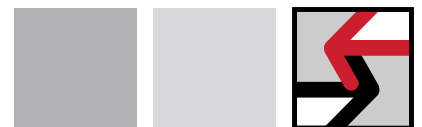
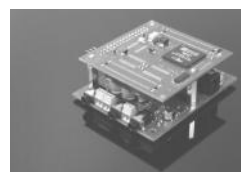
#### Language Trainer

- Tutorial for different types of exercises
- Motion sequence simulation of speech organs
- Recording and playback of user's pronunciation and comparison to speech reference
- Well-aimed diagnosis of the pronunciation variations
- Several feedback tools (waveform spectrum, base frequency, formants, animation etc.)

#### Database Editor

The data base editor supports the following functions:

- Administration and organisation of each learning unit in an internet-based database system
- System administration
- Support for creation of learning units



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# Technical Data

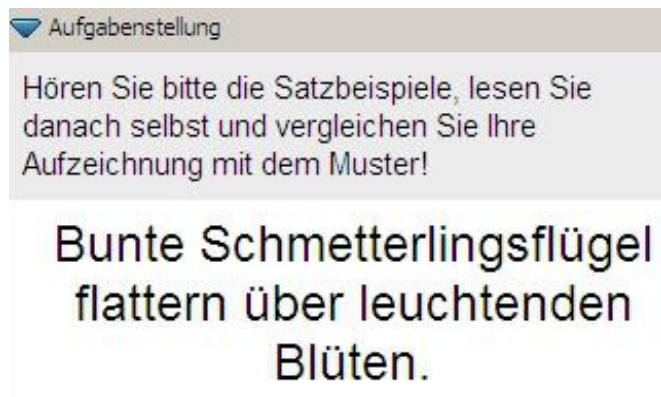
## Functionality

The user can either pass through all exercises sequentially or selects an exercise from the menu (as you can see in picture 1).



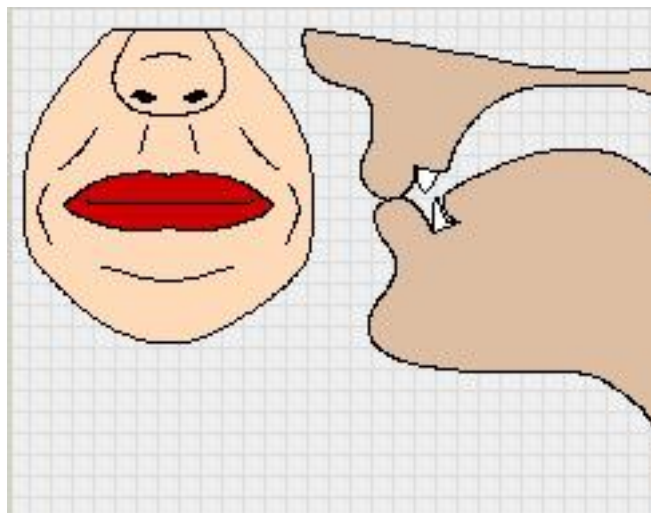
Pict. 1: Menue navigation of AzAR

All exercises are explained in the task-setting (picture 2).



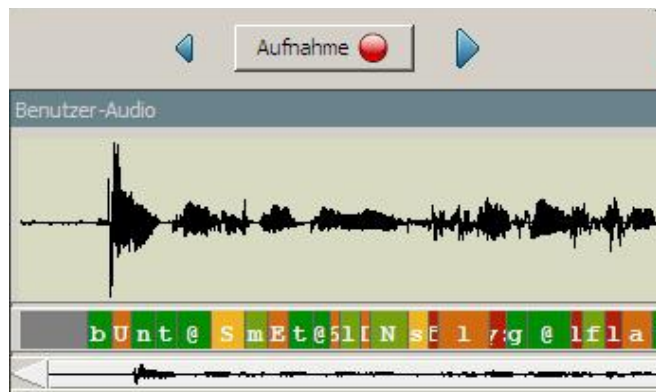
Pict. 2: Task-setting AzAR

A computer animation allows the user to watch in real-time and slow motion how the speech organs work (picture 3).



Pict. 3: AzAR computer animation of speech organs

After the recording of the spoken lesson the phonetic evaluation of this exercise sequence is displayed (picture 4).



Pict. 4: Phonetic evaluation in AzAR

## System Requirements

PC or Laptop/Netbook with

- 1 GByte RAM
- 80 GByte HD
- Soundblaster-compatible sound card



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