

# A Web-Based Tool for Developing Multilingual Pronunciation Lexicons

Samantha Ainsley   Linne Ha   Martin Jansche   Ara Kim   Masayuki Nanzawa



Accessible anywhere from a browser  
no additional client software needed

Implemented with open-source software  
Google App Engine & Google Web Toolkit

On-screen phoneme keyboard for pronunciation entry  
reinforces phoneme inventory  
suitable for novice users

Administrator mode with graphical keyboard editor

psilocybin

1 of 1

1234567890

oywaweyehrerertthyayuwuhiyihowao

aeaa ssdhffghhhjhkl

z zh ax ch v ah b n ng m

none / nun ( n ah n )

Phonemes en-US-ANSI

New

Phoneme Id

Sample Prompt

Suggestions

Sample Phonemes

Id	1	2	3	4	5	6	7	8	9	Sample Prompt	Sample Phonemes
aa	ae	ah	ao	ax						amish	aa m ih sh
ae	aa	ax	ay	eh						add	ae d
ah	aa	ao	ax	uh	v					other	ah dh er
ao	aa	aw	ow							all	ao l

Total 40

Phoneme Keyboard Map en-US-ANSI

Test

Stop Test

Unassign All

Unassign

Keycap

Phoneme Id

Z zh

Keyboard layout with phoneme keys

zh genre zh aa n r ax

Clear zh

Additional interfaces for disambiguation tasks

apocalypse

16 of 60 (45)

Word with German pronunciation (e.g. Mehl, Meile, UFA, UFO)

Acronym with German pronunciation (e.g. USA, ADAC, WWW)

Word with English pronunciation (e.g. Mail, Airbag)

Acronym with English pronunciation (e.g. ICQ)

Other (e.g. Xbox, Str., JPEG, Trikot)

google 更新器

2 of 10 (0)

gaang1

gang1

gang3