



CASS-LING's Linguistic Infrastructure: Resources, Platforms and Services

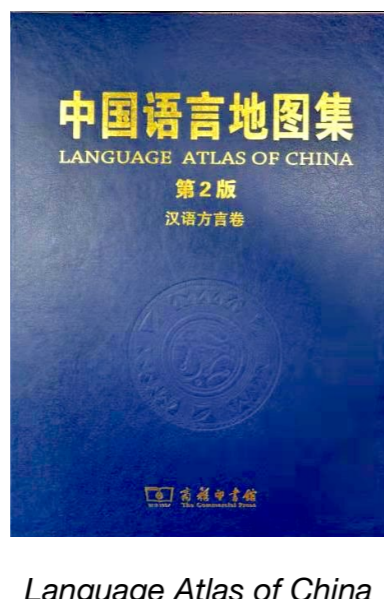
Wei WANG, Aijun LI and Danqing LIU
Institute of Linguistics, Chinese Academy of Social Sciences, China



Abstract

As the highest academic institution of linguistic research in the People's Republic of China, the Institute of Linguistics of Chinese Academy of Social Sciences (CASS-LING) has collected, compiled and created many language resources and established dedicated platforms to provide varied services, based on solid academic studies, to a society of high linguistic diversity. Such resources, platforms and services include: China's most authoritative *Contemporary Chinese Dictionary* and *Xinhua Dictionary*, world's most popular dictionary according to the Guinness World Records; the 41-volume *Dictionaries of Contemporary Chinese Dialects* and the 40-volume *Speech Archives of Contemporary Chinese Dialects*; a supportive online system for dictionary compilation; the Database of the Grammars of the Chinese Dialects with data of 10 dialects; a benchmark pronunciation model of 1.5-6 y native Putonghua speakers based on speech data collected from 4,000 plus children; a visual 3D pronunciation model for English phonetic learning based on 10,000 plus hours of speech recordings of English learners across major Chinese dialects as well as languages of non-Han ethnic groups; the state government's examination and standardization of the pronunciation of characters and words.

Population Distribution of Languages and Dialects in China

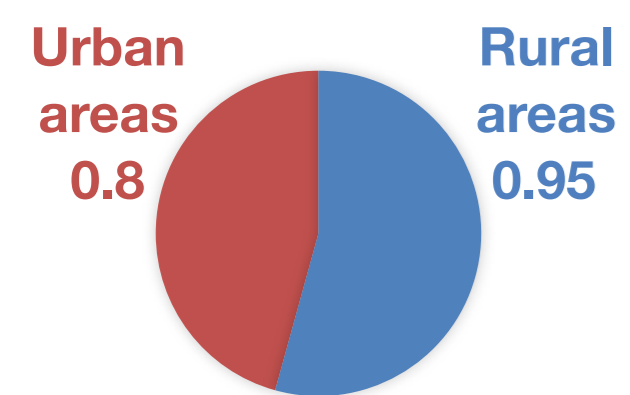


Language Atlas of China

Ninety-five percent of the population speaks Chinese dialects, which include ten major dialect groups: Mandarin, Jin, Wu, Hui, Xiang, Gan, Min, Cantonese (Yue), Pinghua and Hakka. The languages of non-Han ethnic groups are spoken by 5% of the population, with the largest number of speakers being the Zhuang and the smallest being the Hezhen.

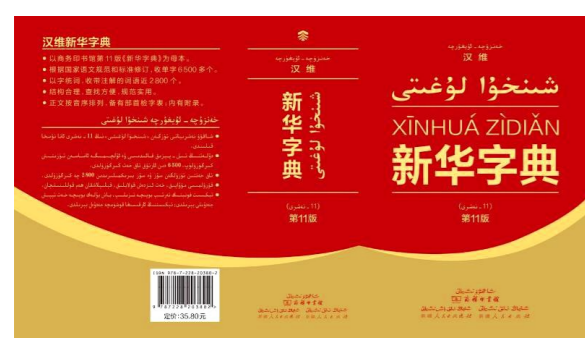
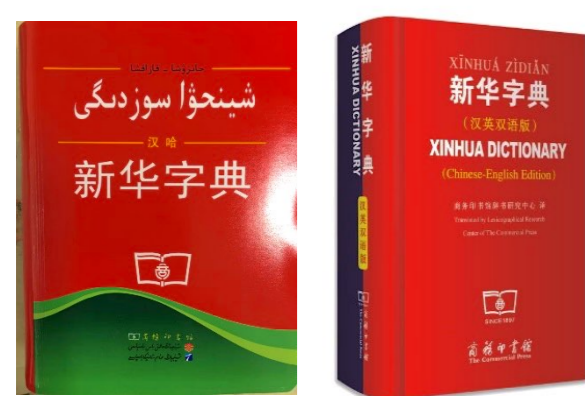
Xinhua Dictionary and Contemporary Chinese Dictionary in New China's Cultural Development

Illiteracy rate when New China was founded in 1949



Xinhua Dictionary

First released in December 1953, *Xinhua Dictionary* has been named after the Chinese words 新华 meaning 'a new China'. Shouldering the task of setting rules for the Contemporary Chinese and eliminating illiteracy in an old rural country then, it has been compared with a jack that has lifted the whole country's new cause of culture and education. As of July 28, 2015, its global circulation has reached 567 million copies, which scored two Guinness World Records as the "most popular dictionary" and the "best-selling book (regularly updated)."



Following the Chinese-English edition published in 2013, versions in languages of China's non-Han ethnic groups of the dictionary will also be available soon, with the Uyghur and Kazakh ones being the first two.

Contemporary Chinese Dictionary

Till now a total of 70 million copies of the dictionary have been sold. While it has fulfilled its task of setting up lexical rules and enhancing the education of the nation's common language, it has also played a key role in helping overseas Chinese people to learn and use the language and to identify with their motherland.



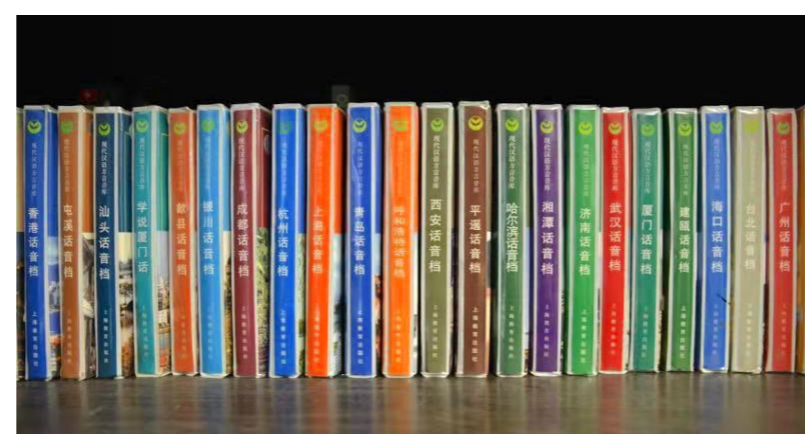
Translation of the Chinese-English bilingual version of *Contemporary Chinese Dictionary* has almost been finished and the translation of versions in Georgian, Arabic, Russian, Spanish and Persian will start soon.

The current global trend of digitization is leading our society into the era of Internet+ and artificial intelligence. The computer and smart-phone applications of *Xinhua Dictionary* and *Contemporary Chinese Dictionary* have been released respectively in 2017 and 2019 to better meet our readers' requirements of online language use.

Language Diversity: The Flourishing of Linguistic Typology Studies



A Handbook for Grammatical Investigation and Research



The 40-volume *Speech Archives of Contemporary Chinese Dialects*

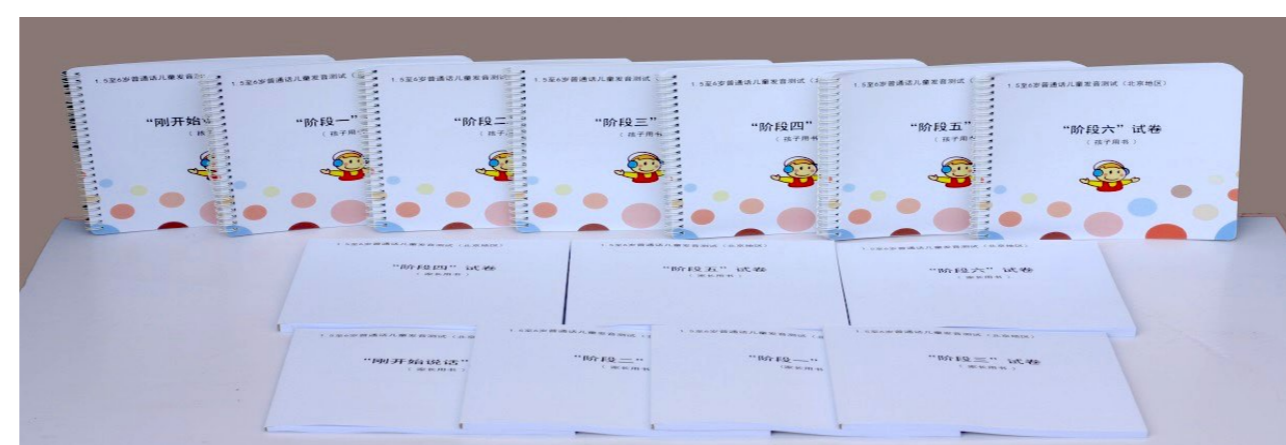


The 41-volume *Dictionaries of Contemporary Chinese Dialects*

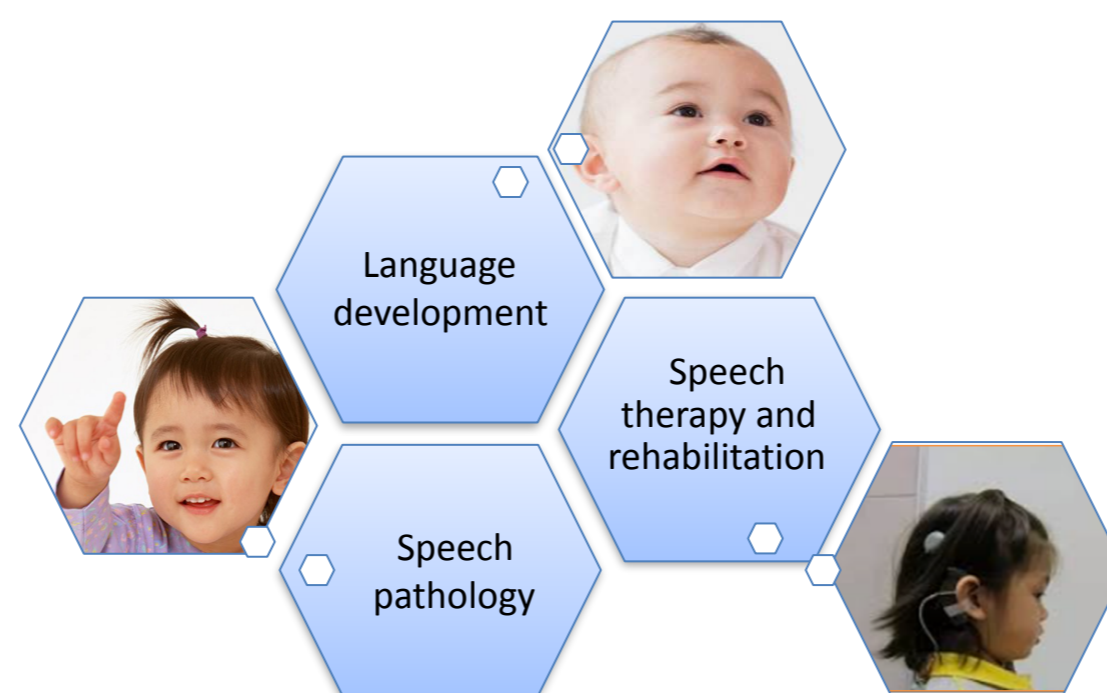
10 dialects of Mandarin, Xiang, Gan, Hakka, Wu, Yue groups, with 10 others coming.

The Database of the Grammars of the Chinese Dialects

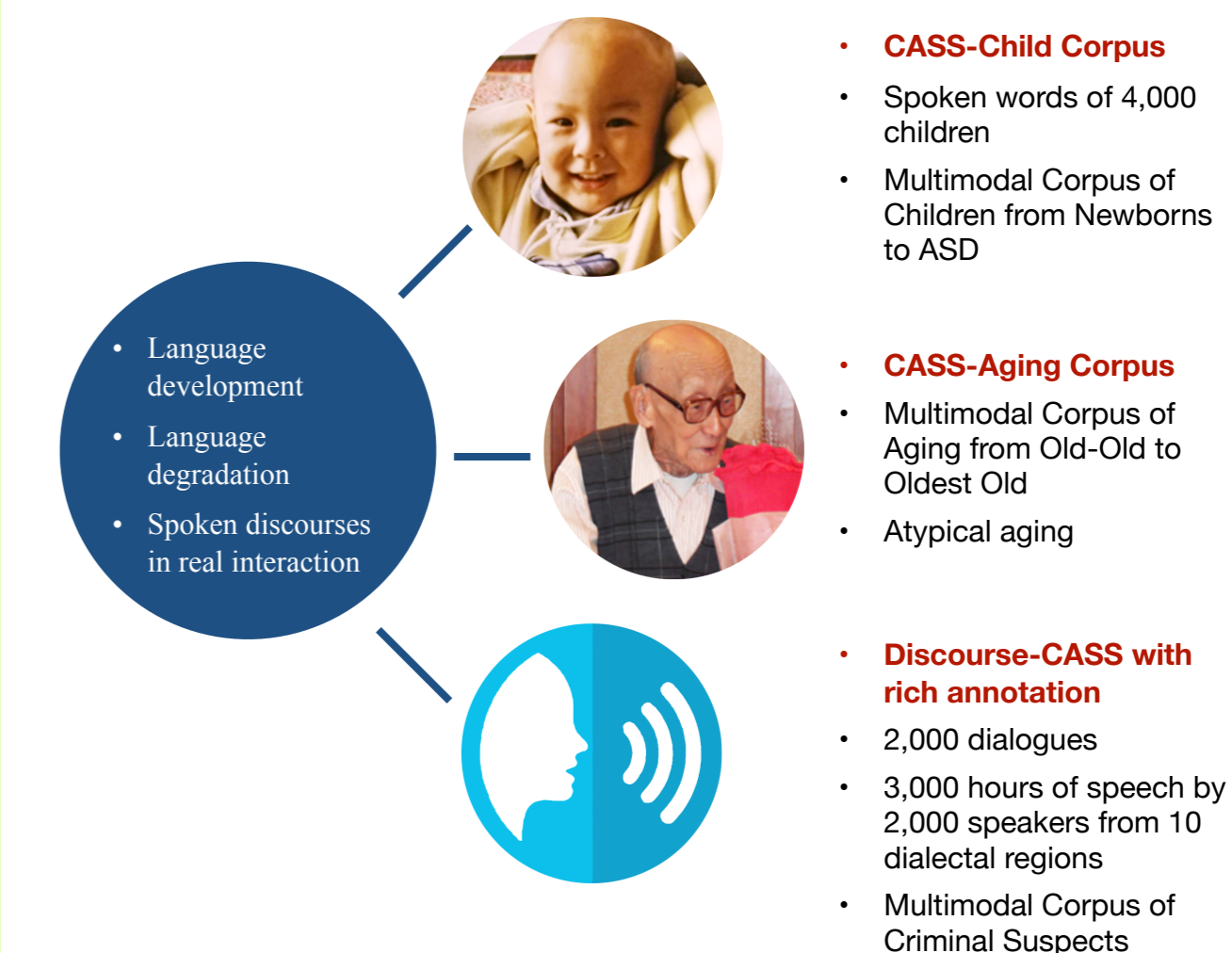
Linguistic and Cognitive Studies on Children and Aged People



Phonetic and Phonologic Development Tests (picture books for 1.5-6-year-old Chinese)



Multimodal Corpus of Life Course from Womb to Tomb



Corpus for L2 learners: AESOP-CASS, 10,000 hours English speech



Platforms and APPs



Contemporary Chinese Dictionary
现代汉语词典



Xinhua Dictionary
新华字典



Wechat Applet: **JIUZHOUI YINJI**
九州音集

A network platform for collecting and demonstrating the speech sounds around the world

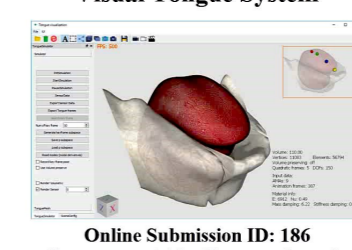
Online and offline tests for phonetic and phonological development based on Pronunciation Normal

线下发音测试软件



3D Pronunciation Training Platform

Acoustic VR in the Mouth: A Real-time Speech-driven Visual Tongue System



Online Submission ID: 186
Some parts of this video contain audio

