

Exploiting Mobile-Assisted Language Learning Technology to Enhance Japanese Language Education

モバイル支援言語学習による日本語教育の発展

Jack Halpern, PacSLRF 2016

The Kodansha Kanji Learner's Dictionary

破 ▶BREAK
ハ やぶ(る) やぶ(れる)

1064 石 Joy6-5 S10-5-5 C0596
1-5-5 112 F0649 ⑧1478 U7834

破片 はへん fragment, broken piece, scrap
破損 はそん damage, breakdown
破砕する はさいする crush, smash, crack to pieces
破滅 はめつ ruin, destruction, wreck, collapse, downfall
爆破 はくは blasting, blowing up, explosion
難破 なんぱ shipwreck

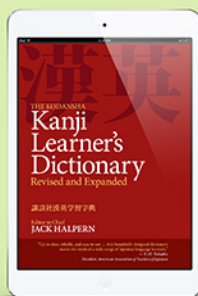
① (original meaning) **BREAK**, smash
② **BREAK** through, penetrate
破壊する はかいする break (down), destroy, wreck
破片 はへん fragment, broken piece, scrap
破損 はそん damage, breakdown
破砕する はさいする crush, smash, crack to pieces
破滅 はめつ ruin, destruction, wreck, collapse, downfall
爆破 はくは blasting, blowing up, explosion
難破 なんぱ shipwreck

③ (act contrary to) **BREAK** (as a promise), breach, violate
④ **BREAK** with (the moral conventions), be exceptional
破棄 はき breaking (a treaty), annulment
破談 はだん cancellation, breaking off
破約 はやく breach of contract
破廉恥 はれんち shamelessness, infamy, impudence
⑤ **BREAK** down, go to pieces, go broke

Features of Kodansha's Kanji Dictionaries

- ▶ The core meaning conveys the most fundamental concept for each character
- ▶ Complete character meanings that show how single-characters combine to form compounds
- ▶ Character meanings grouped in order that shows their interrelatedness
- ▶ Numerous compounds illustrate each sense
- ▶ Discrimination of kanji synonyms (形 vs. 状) and homophones (開く vs. 空く)
- ▶ Efficient method (SKIP) enables quick lookup

iOS and Android Mobile Application



- ▶ 2,230 main entry characters
- ▶ 31,300 words and word elements
- ▶ multiple search modes including kana, romaji, SKIP, radical, English meaning, and entry number
- ▶ intuitive interface for quickly looking up by SKIP or radicals
- ▶ ability to toggle between kana and romaji readings
- ▶ animated stroke-order diagrams

Libera: Parallel Text Reader

Main Features of Libera

- ▶ Customized dictionaries
- ▶ Full audio recordings
- ▶ Word Info screen
- ▶ Favorite word list
- ▶ Full-form search
- ▶ Grammar Notes
- ▶ Segment bar
- ▶ Multi-panel interface



Libera

Interactive Parallel Text (IPT)

- ▶ Learners can effortlessly read vast amounts of L2 texts
- ▶ New medium for accessing comprehensible L2 texts
- ▶ Libera is a cutting edge platform for reading enjoyably
- ▶ Texts precisely linked on segment (word or phrase) level
- ▶ Interactive links highlight L2 segment and activates glosses, grammar notes, audio, and transcriptions

Four-Panel Sentence Mode

- ▶ Texts are precisely linked at segment (word or phrase) level
- ▶ Tapping a segment in any one text simultaneously highlights the linked segment in all other texts

Chapter 1 Sentence 3

Qasim was a rich merchant because he had married the daughter of a rich merchant, and the merchant's daughter married him, and he sold her to a merchant.

Idiomatic English: Qasim worked with him in trade.

Japanese: カシムは金持ちの商人でした。なぜならカシムは金持ちの商人の娘と結婚し、彼と商売をしていたからです。 Japanese

Customized Dictionary: 商売をする しょうばいをする
phrase do business, engage in business, deal trade

Romanized Japanese: Kashimu wa kanemochi no shōnin deshita. Nazenara Kashimu wa kanemochi no shōnin no musume to kekkon shi, kare to shōbai o shite ita kara desu.

Segment Bar: 商売をしていた しょうばいをしていた Qasim worked...in trade



日中韓辭典研究所
The CJK Dictionary Institute

Saitama, Japan • <http://www.cjk.org>

CJK and Arabic Dictionary Data

Over 24 million entries

Providing CJK and Arabic lexical resources and consulting to the world's leading developers and portals.

- ▶ MT Bilingual dictionaries
- ▶ Variants databases
- ▶ Proper noun databases
- ▶ Search engine applications
- ▶ Information Retrieval tools
- ▶ Named Entity Recognition
- ▶ Input Method Editors
- ▶ Consulting services