Indexing Makes Your Book Perfect

(and also, the common way of arranging words in Japanese)

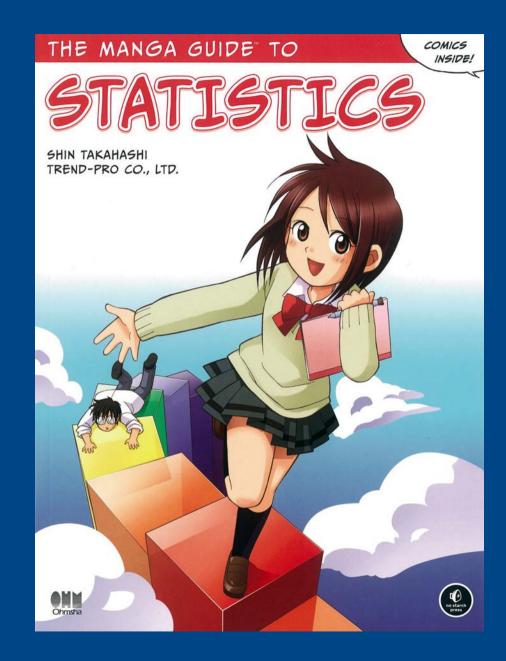
Keiichiro Shikano Book editor for Ohmsha, Ltd. K16.shikano@gmail.com

TUG 2013 October 23

Indexes from around the world

The Manga Guide to Statistics

(in English)



Index in English

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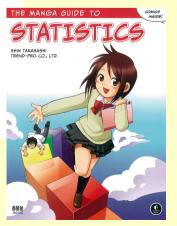
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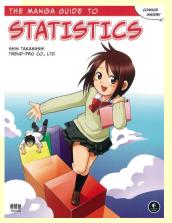
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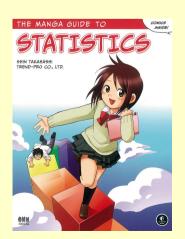
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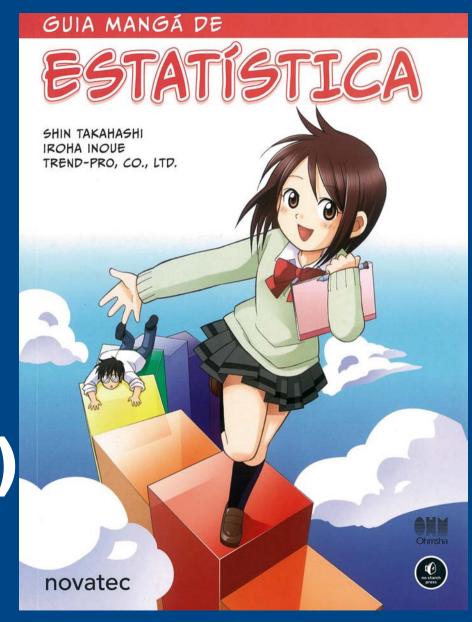
How to use index





The Manga Guide to Statistics

(in Portuguese)



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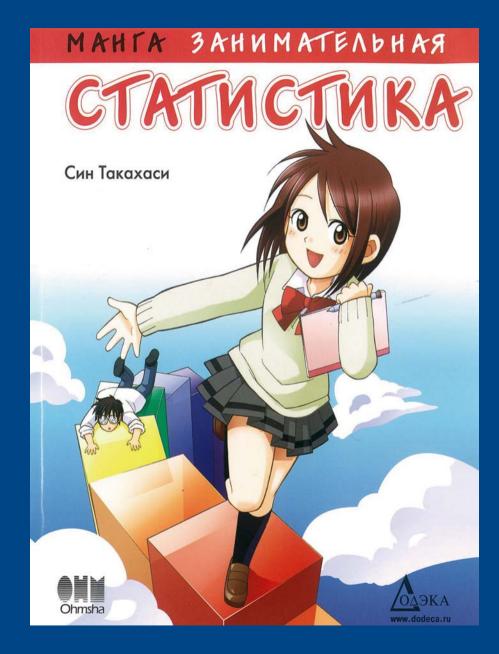
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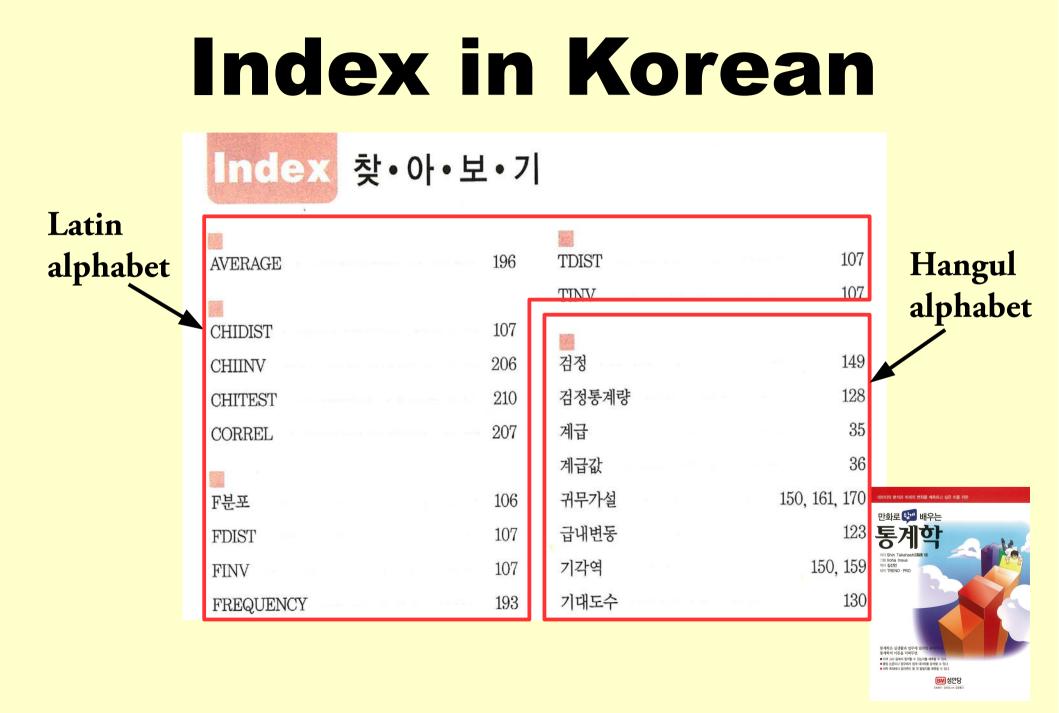
The Manga Guide to Statistics

(in Korean)

데이터의 분석과 미래의 변화를 예측하고 싶은 이를 위한

만화로 🚰 배우는 저자 Shin Takahashi(高橋 信) 그림 Iroha Inoue 역자 김선민 제작 TREND · PRO 통계학은 실생활과 업무에 밀착한 분야이다 통계학의 이론을 익혀두면 • 자격 고사 등에서 합격할 수 있는지를 예측할 수 있다 ● 졸업 논문이나 업무에서 쉽게 데이터를 분석할 수 있다 대학 축제에서 컵라면이 몇 개 팔릴지를 예측할 수 있다.





Index in Korean

sansu

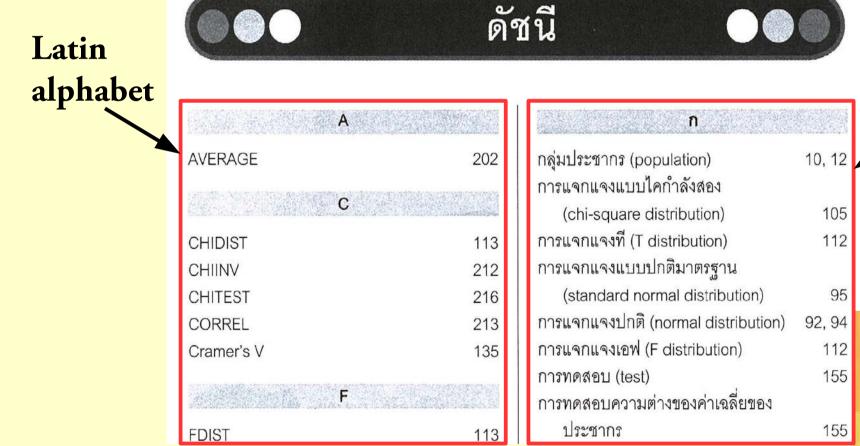
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• 대학 취재에서 법권(20) 및 거 발망/문 여유할 수 있다.						
with consonant letter ", "						

The Manga Guide to Statistics

(in Thai)



Index in Thai





Thai

script

Index in Thai

• The index is arranged as the same manner as the alphabetical languages, although Thai is not technically an alphabet.

> Word group beginning with letter "ค"

> > ค่าเฉลี่ยเลขคณิต Khā chelty lekh

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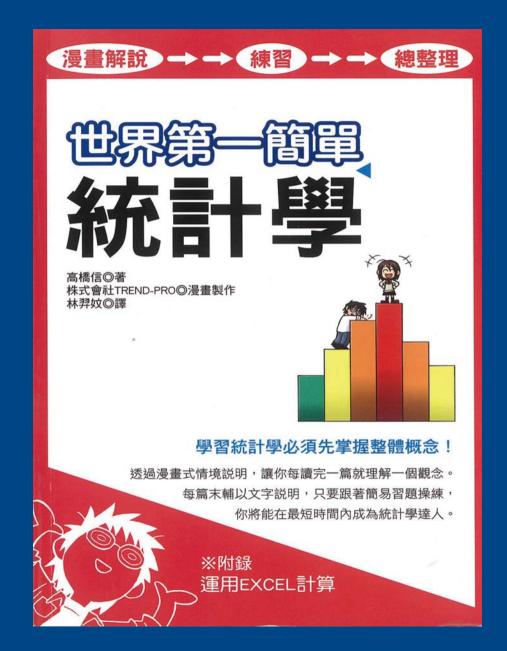
(frequency distribution table)



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The Manga Guide to Statistics

(in traditional Chinese)



Index in Chinese (Traditional)



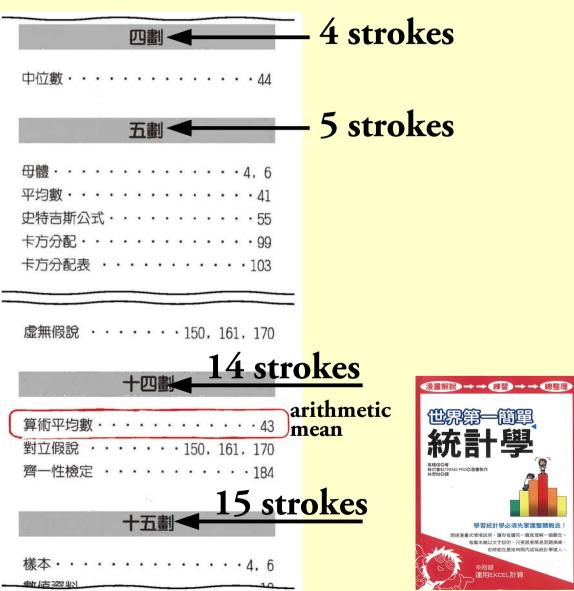
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Index in Chinese (Traditional)

Stroke counts of 算 is fourteen.





Pinyin based order

You can find the term in the "S" section.

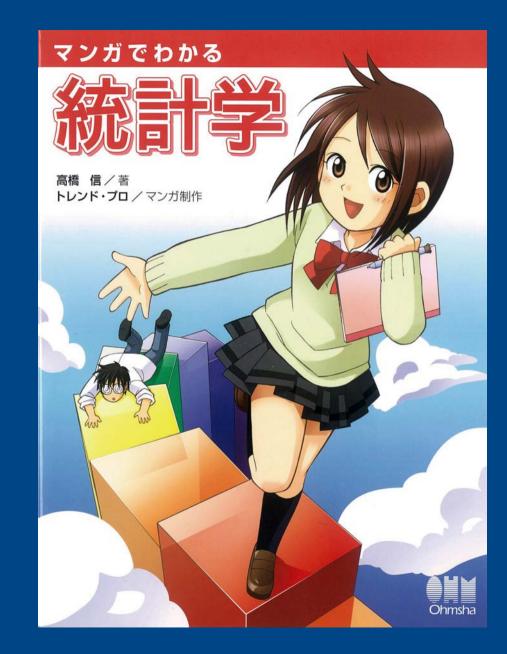
The Manga Guide to Statistics

(in simplified Chinese)



The Manga Guide to Statistics

(in Japanese)



Index in Japanese

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Index in Japanese

 The index is arranged in gojuon order, which is roughly based on the pronunciation.

T D I S T · · · · · · · · · · · · · · · · · ·	
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自然対数の底 · · · · · · · · · · · · · · · · · · ·	

Kana based order

算術平均 (for "arithmetic mean") 「Turn into kana (syllables) さんじゅつへいきん ("sanjutsuheikin" in romanization)

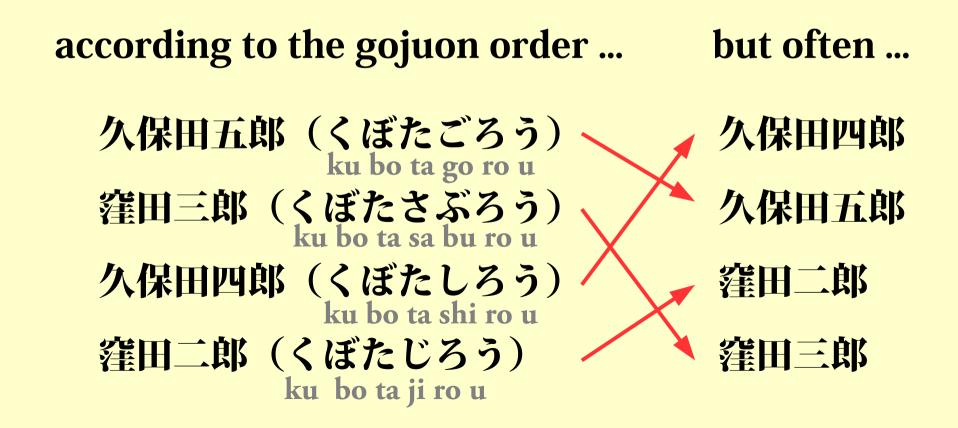
You can find the term in the "Z" section of gojuon, instead of the "S" section.

Gojuon order

 $\begin{array}{c} \stackrel{6}{\mathbf{b}} & \stackrel{7}{\mathbf{b}} & \stackrel{8}{\mathbf{b}} & \stackrel{9}{\mathbf{b}} & \stackrel{10}{\mathbf{b}} & \stackrel{11}{\mathbf{b}} & \stackrel{12}{\mathbf{b}} & \stackrel{13}{\mathbf{b}} & \stackrel{14}{\mathbf{b}} & \stackrel{15}{\mathbf{c}} \\ \stackrel{16}{\mathbf{b}} & \stackrel{17}{\mathbf{c}} & \stackrel{18}{\mathbf{b}} & \stackrel{19}{\mathbf{c}} & \stackrel{20}{\mathbf{c}} & \stackrel{21}{\mathbf{c}} & \stackrel{22}{\mathbf{c}} & \stackrel{23}{\mathbf{c}} & \stackrel{24}{\mathbf{c}} & \stackrel{25}{\mathbf{c}} \\ \stackrel{16}{\mathbf{c}} & \stackrel{17}{\mathbf{c}} & \stackrel{18}{\mathbf{c}} & \stackrel{19}{\mathbf{c}} & \stackrel{20}{\mathbf{c}} & \stackrel{21}{\mathbf{c}} & \stackrel{22}{\mathbf{c}} & \stackrel{24}{\mathbf{c}} & \stackrel{25}{\mathbf{c}} & \stackrel{26}{\mathbf{c}} \\ \stackrel{16}{\mathbf{c}} & \stackrel{17}{\mathbf{c}} & \stackrel{18}{\mathbf{c}} & \stackrel{19}{\mathbf{c}} & \stackrel{20}{\mathbf{c}} & \stackrel{21}{\mathbf{c}} & \stackrel{22}{\mathbf{c}} & \stackrel{22}{\mathbf{c}} & \stackrel{23}{\mathbf{c}} & \stackrel{24}{\mathbf{c}} & \stackrel{25}{\mathbf{c}} \\ \stackrel{20}{\mathbf{c}} & \stackrel{21}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} \\ \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} \\ \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} \\ \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} \\ \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} \\ \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} \\ \stackrel{1}{\mathbf{c}} & \stackrel{1}{\mathbf{c}} \\ \stackrel{1}{\mathbf{c}}$ 35 do 27 28 だち da ti 26 た ta ³⁶ た na ni 37 38 39 た ね nu ne 40 の no 41 は ha $\overset{42}{\overset{1}{ba}}$ $\overset{43}{\overset{1}{ba}}$ 57 7 mi mu 56 **t** ma 59 80 60 10 mo 63 62 61 や よ ゆ ya yu yo

- Red ones can be used as the header for the group containing followings. (Light-weight ones often omitted.)
- Numbered only as a guide. There is more syllables.

Example against gojuon



If you'd like to know more about arranging Japanese index...

· SIST 13 – Indexes and Indexing

- One of the Standards for Information of Science and Technology by the Ministry of Education, Culture, Sports, Science and Technology
- http://sti.jst.go.jp/sist/handbook/ sist13/sist13_m.htm

Making (Japanese) index with LaTeX

Embed index entry with kana

算術平均(for "arithmetic mean") Turn into kana (syllables) さんじゅつへいきん Put it in \index command **\index{** さんじゅつへいきん @ 算術平均 **}** word appearing

kana(syllables)

in the index

Indexing in LaTeX

- Embed the index entries within the manuscripts using \index command.
- makeindex arrange the entries so as to be sorted and laid out.
- The manuscript tends to be messy.

(manuscript)

\usepackage{makeidx} \makeindex

. \TeX\index{TeX@\TeX\} User\index{User} Meeting\index{Meeting}

\printindex

latex (several times)

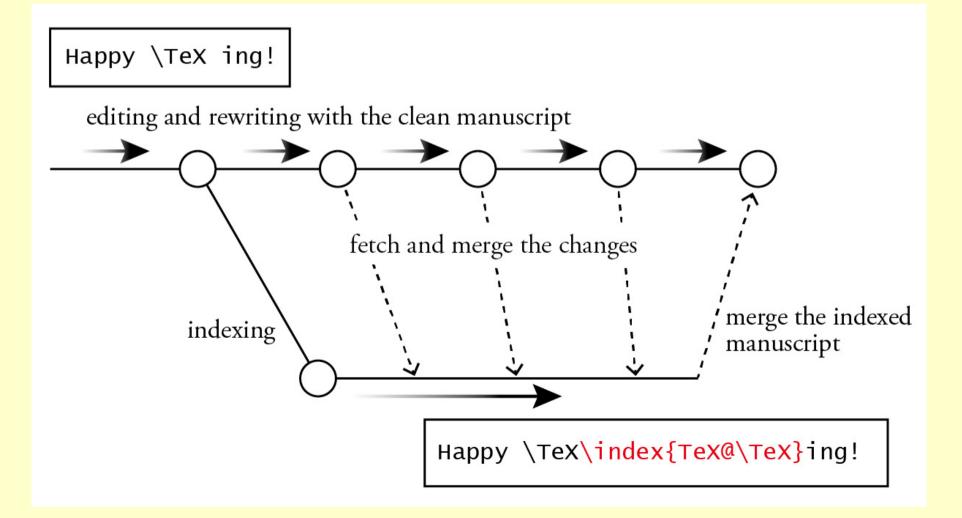
(source file of index)

makeindex

(alphabetically ordered index)____

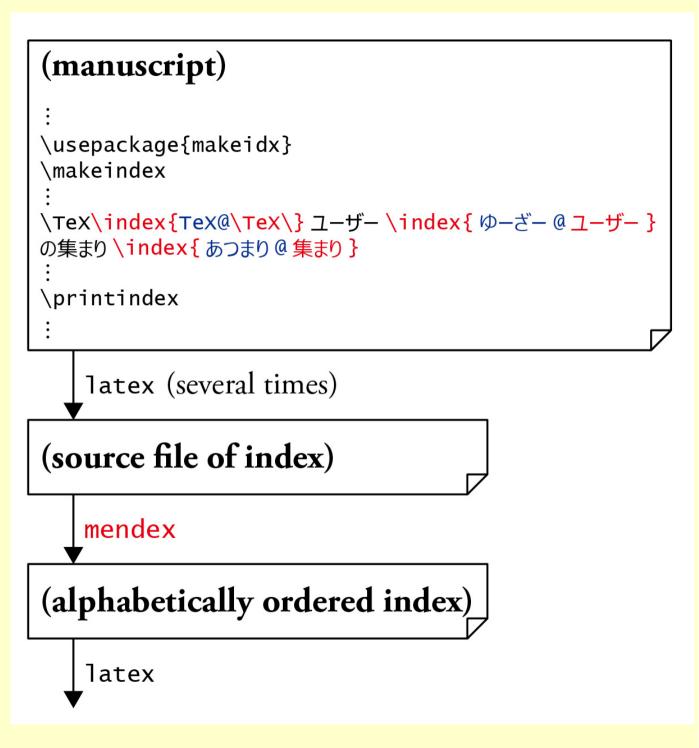
latex

Tips: How to avoid messy manuscripts

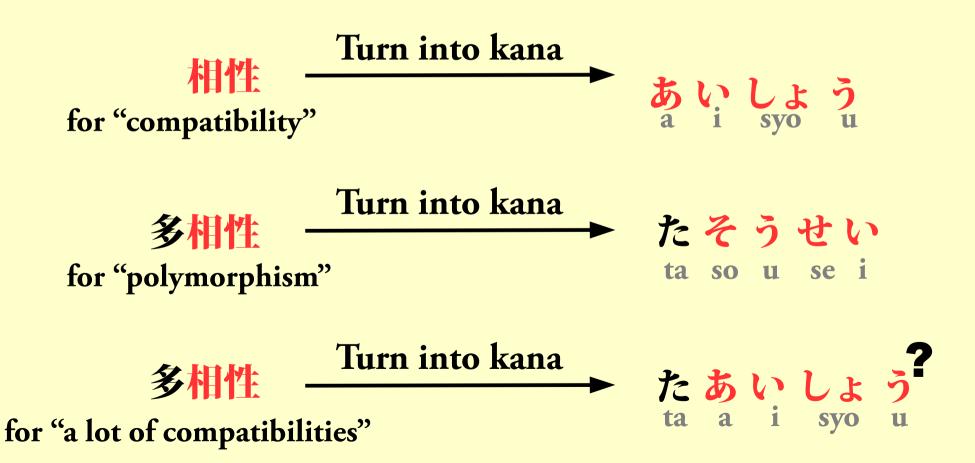


Indexing Japanese in LaTeX

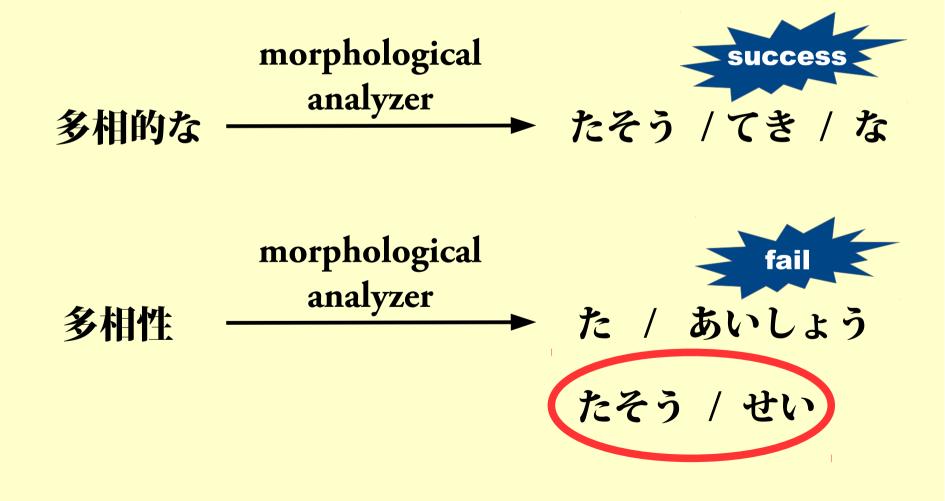
- Include kana in each \index command.
- mendex arrange the entries so as to be sorted and laid out.
- The manuscript tends to be messier.



Kana depends on the context (not just on kanji)

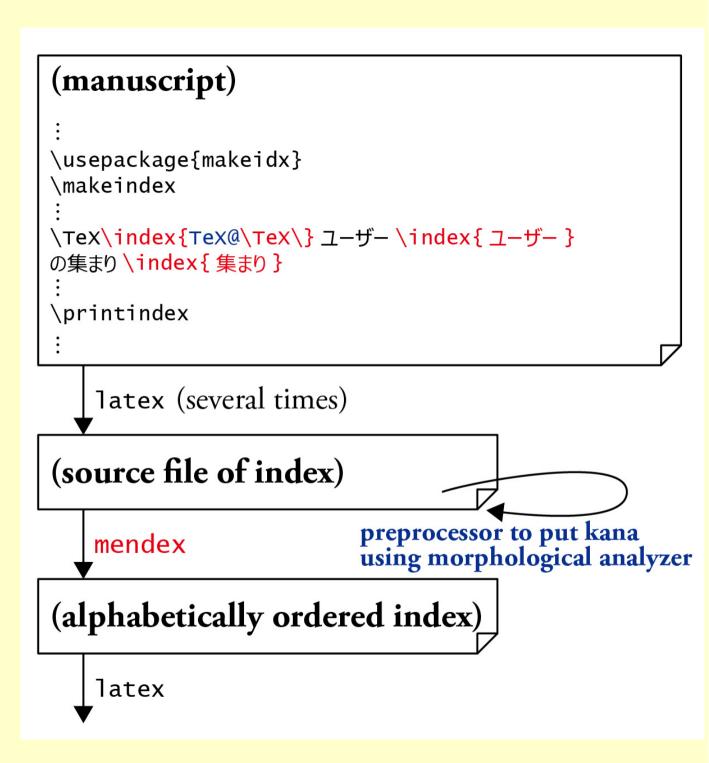


Morphological analyzer and its corner case



Using morphological analyzer to put kana

• The manuscript is slightly tidier than before!



Why bother with indexing?

Example

The TeXbook



Components of index

Components

Appendix I: Index 465

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Mandatory

Headings

References

- The reader will easily find what information the book has or not, just by revising the headings of the index.
- References are what make the index the index.

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• They help the reader learn the context of the headings.

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Allowed

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• Any remarks that help reader get the proper reference out of several alternatives.

 For example, each asterisk(*) indicates that the following heading is a primitive of TeX

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Unrecommended

- Auxiliary information beyond the main purpose of the index.
- Exclude everything which gets the readers nowhere!

Pointless Components

Deinocheirus	Osmólska & Roniewicz, 1970		158
Deinonychus	Ostrom, 1969	170	
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Diplodocus	Marsh, 1878	8,21,	41,102

• Excerpt from the index of "The Visual Book of Dinosaurs for Kids"

• Who cares the name of discoverers in the index?

Indexing for who?

Three types of index users

Looking-up
 Reluctant
 Potential

Looking-up readers

- \cdot Already read the book.
- At least, know the subject. (Books on technologies or any sort of practical knowledge often have these kind of readers.)
- · They'd like to go directly to some specific part of the book.

Reluctant index-users

- · Readers would get lost during reading the book when ...
 - \cdot they forget the key words.
 - \cdot the book is poorly constructed.
- The latter could be avoided by indexing.

Potential readers

- You can use the index to grasp the contents of the book even before actually read it through.
- The index exhibits the contents of the book in another way than the book itself.

Index and ebook

Is it necessary anyway?

Is it necessary anyway?

- · Definitely!
- They would supplement a full text literature search through ebooks.
- · It may take a different shape from that of the printed books.



With bad index, readers ...

- would be just confused.
- have to read through the whole book anyway.
- would come to read an ill written or edited book.

With good index, readers ...

- could directly reach to the proper pages.
- · could grasp the whole book.
- could get another aspect of the book.

What we have seen

- Indexes from the world
- How to arrange Japanese words in LaTeX realm
- · Good index, bad index